# TOSHIBA

SERVICE MANUAL

MULTIFUNCTIONAL DIGITAL SYSTEMS

e-STUDIO206L/256/306/356/456/506
e-STUDIO306S/356S/456S
e-STUDIO256SE/306SE/356SE/456SE/506SE
e-STUDIO306SD/356SD/456SD

e-STUDIO207L/257/307/357/457/507
e-STUDIO257S/307S/357S/457S
e-STUDIO307SD/357SD/457SD
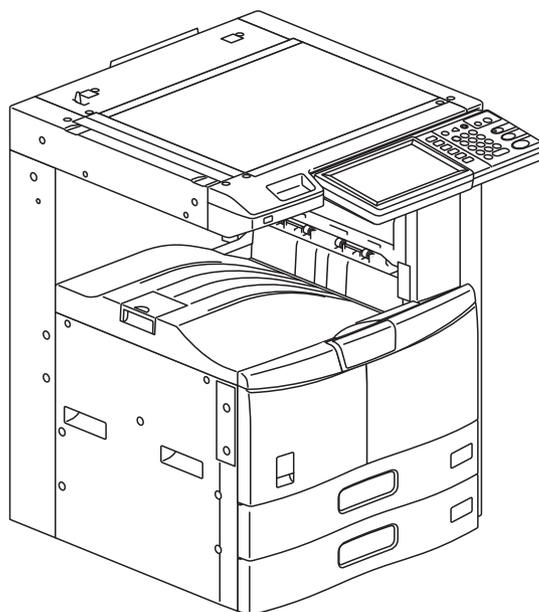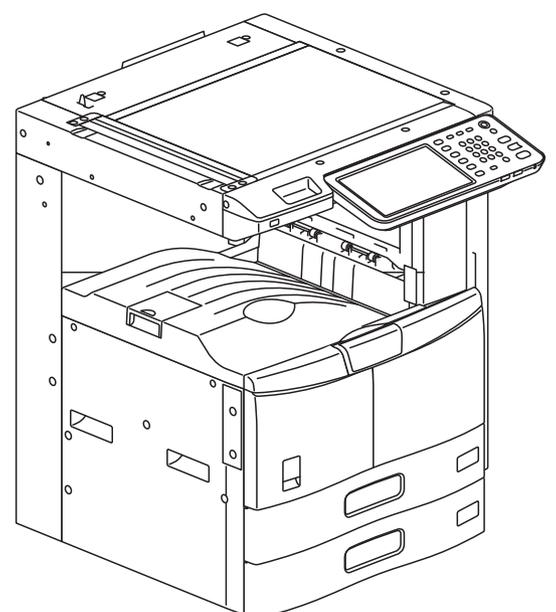
e-STUDIO206L/256/306/356/456/506   e-STUDIO207L/257/307/357/457/507

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- The official name of Windows XP is Microsoft Windows XP Operating System.
- The official name of Windows Vista is Microsoft Windows Vista Operating System.
- The official name of Windows 7 is Microsoft Windows 7 Operating System.
- The official name of Windows 8 is Microsoft Windows 8 Operating System.
- The official name of Windows Server 2003 is Microsoft Windows Server 2003 Operating System.
- The official name of Windows Server 2008 is Microsoft Windows Server 2008 Operating System.
- The official name of Windows Server 2012 is Microsoft Windows Server 2012 Operating System.
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GENERAL PRECAUTIONS REGARDING THE SERVICE FOR THIS EQUIPMENT

The installation and service shall be done by a qualified service technician.

1. Transportation/Installation

- When transporting/installing the equipment, employ two persons and be sure to hold the positions as shown in the figure.
  The equipment is quite heavy, and weighs approximately 61 kg (134.51 lb.), therefore pay full attention when handling it.
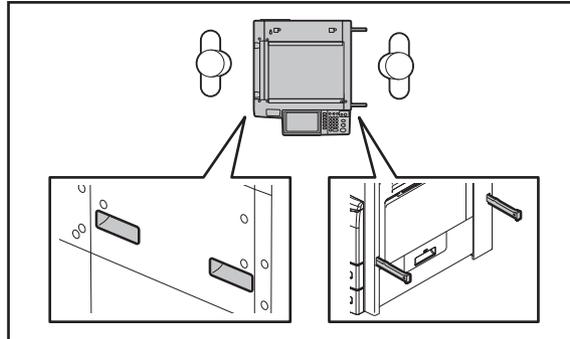
- Be sure not to hold the movable parts or units (e.g. the control panel, ADU or RADF) when transporting the equipment.
- Be sure to use a dedicated outlet with AC 110 V / 13.2 A, 115 V or 127 V / 12 A, 220-240 V or 240 V / 8 A for its power source.
- The equipment must be grounded for safety.
- Select a suitable place for installation. Avoid excessive heat, high humidity, dust, vibration and direct sunlight.
- Provide proper ventilation since the equipment emits a slight amount of ozone.
- To insure adequate working space for the copying operation, keep a minimum clearance of 80 cm (32") on the left, 80 cm (32") on the right and 10 cm (4") on the rear.
- The equipment shall be installed near the socket outlet and shall be accessible.
- Be sure to fix and plug in the power cable securely after the installation so that no one trips over it.
- When the equipment is used after the option is removed, be sure to install the parts or the covers which have been taken off so that the inside of the equipment is not exposed.
- Do not lift the machine by the areas in the figure that are shaded when lifting it.
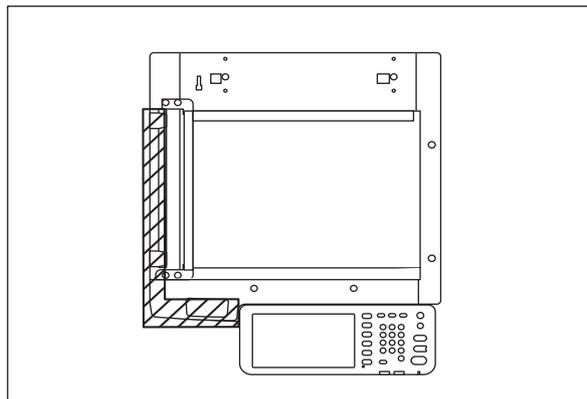
2. General Precautions at Service
- Be sure to turn the power OFF and unplug the power cable during service (except for the service should be done with the power turned ON).
- Unplug the power cable and clean the area around the prongs of the plug and socket outlet once a year or more. A fire may occur when dust lies on this area.
- When the parts are disassembled, reassembly is the reverse of disassembly unless otherwise noted in this manual or other related documents. Be careful not to install small parts such as screws, washers, pins, E-rings, star washers in the wrong places.
- Basically, the equipment should not be operated with any parts removed or disassembled.
- The PC board must be stored in an anti-electrostatic bag and handled carefully using a wristband since the ICs on it may be damaged due to static electricity.

    Caution: Before using the wristband, unplug the power cable of the equipment and make sure that there are no charged objects which are not insulated in the vicinity.

- Avoid expose to laser beam during service. This equipment uses a laser diode. Be sure not to expose your eyes to the laser beam. Do not insert reflecting parts or tools such as a screwdriver on the laser beam path. Remove all reflecting metals such as watches, rings, etc. before starting service.
- Be sure not to touch high-temperature sections such as the exposure lamp, fuser unit, damp heater and areas around them.
- Be sure not to touch high-voltage sections such as the chargers, transfer roller, developer, high-voltage transformer, exposure lamp control inverter, inverter for the LCD backlight and power supply unit. Especially, the board of these components should not be touched since the electric charge may remain in the capacitors, etc. on them even after the power is turned OFF.
- Make sure that the equipment will not operate before touching potentially dangerous places (e.g. rotating/operating sections such as gears, belts pulleys, fans and laser beam exit of the laser optical unit).
- Be careful when removing the covers since there might be the parts with very sharp edges underneath.
- When servicing the equipment with the power turned ON, be sure not to touch live sections and rotating/operating sections. Avoid exposing your eyes to laser beam.
- Use designated jigs and tools.
- Use recommended measuring instruments or equivalents.
- Return the equipment to the original state and check the operation when the service is finished.
- Be very careful to treat the touch panel gently and never hit it. Breaking the surface could cause malfunctions.

3. General operations
- Check the procedures and perform as described in the Service Manual.
- Make sure you do not lose your balance.
- Avoid exposure to your skin and wear protective gloves as needed.

4. Important Service Parts for Safety
- The breaker, door switch, fuse, thermostat, thermofuse, thermistor, batteries, IC-RAMs including lithium batteries, etc. are particularly important for safety. Be sure to handle/install them properly. If these parts are short-circuited and their functions become ineffective, they may result in fatal accidents such as explosion or burnout. Do not allow a short-circuit and do not use the parts not recommended by Toshiba TEC Corporation.

5. Cautionary Labels

- During servicing, be sure to check the rating plate and cautionary labels such as "Unplug the power cable during service", "CAUTION. HOT", "CAUTION. HIGH VOLTAGE", "CAUTION. LASER BEAM", etc. to see if there is any dirt on their surface and if they are properly stuck to the equipment.
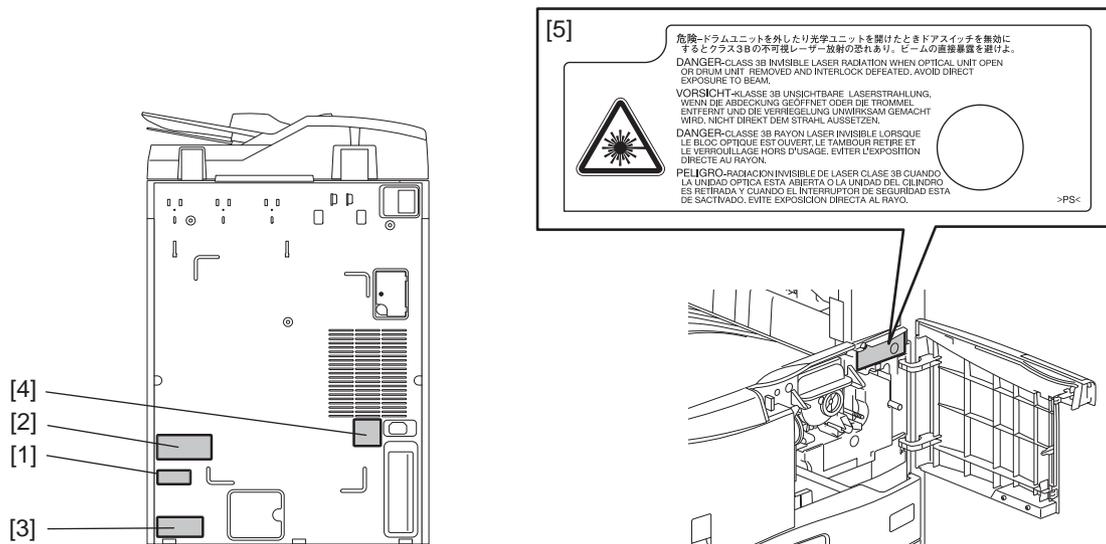
e-STUDIO206L/256/306 / 207L/25L/307   e-STUDIO356/456/506 / 357/457/507
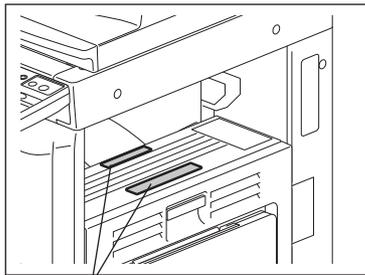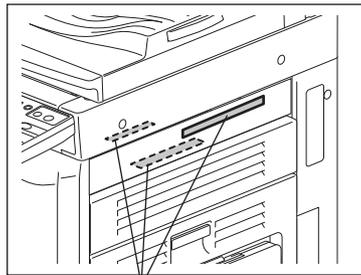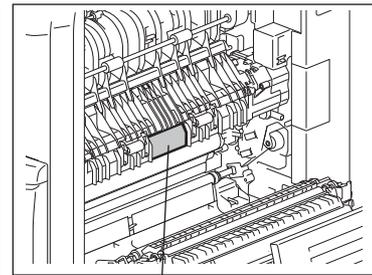
[1] Certification label (For U.S.A and Canada)
[2] Explanatory label
[3] Identification label (For U.S.A, Canada and EU)
[4] Warning for grounding wire
[5] Cautionary label for laser unit
[6] Warning for high temperature area (fuser unit)

6. Disposal of the Equipment, Supplies, Packing Materials, Used Batteries and IC-RAMs including lithium batteries

- Regarding the recovery and disposal of the equipment, supplies, packing materials, used batteries and IC-RAMs including lithium batteries, follow the relevant local regulations or rules.

Caution:
   Dispose of used batteries and IC-RAMs including lithium batteries according to this manual.
Attention:
   Se débarrasser de batteries et IC-RAMs usés y compris les batteries en lithium selon ce manuel.
Vorsicht:
   Entsorgung der gebrauchten Batterien und IC-RAMs (inclusive der Lithium-Batterie) nach diesem Handbuch.

ALLEGEMEINE SICHERHEITSMASSNAHMEN IN BEZUG AUF DIE WARTUNG FÜR DIESES GERÄT

Die Installation und die Wartung sind von einem qualifizierten Service-Techniker durchzuführen.

1. Transport/Installation

- Zum Transportieren/Installieren des Gerätes werden 2 Personen benötigt. Nur an den in der Abbildung gezeigten Stellen tragen.
  Das Gerät ist sehr schwer und wiegt etwa 62.5 kg; deshalb muss bei der Handhabung des Geräts besonders aufgepasst werden.
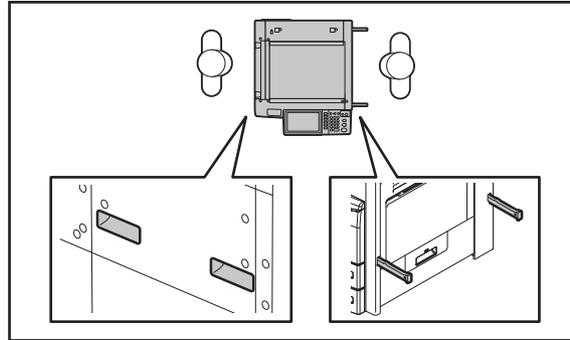
- Beim Transportieren des Geräts nicht an den beweglichen Teilen oder Einheiten (z.B. das Bedienungsfeld, die Duplexeinheit oder die automatische Dokumentenzuführung) halten.
- Eine spezielle Steckdose mit Stromversorgung von AC 110 V / 13.2 A, 115 V oder 127 V / 12 A, 220-240 V / 8 A als Stromquelle verwenden.
- Das Gerät ist aus Sicherheitsgründen zu erden.
- Einen geeigneten Standort für die Installation wählen. Standorte mit zuviel Hitze, hoher Luftfeuchtigkeit, Staub, Vibrieren und direkter Sonneneinstrahlung sind zu vermeiden.
- Für ausreichende Belüftung sorgen, da das Gerät etwas Ozon abgibt.
- Um einen optimalen Kopierbetrieb zu gewährleisten, muss ein Abstand von mindestens 80 cm links, 80 cm rechts und 10 cm dahinter eingehalten werden.
- Das Gerät ist in der Nähe der Steckdose zu installieren; diese muss leicht zu erreichen sein.
- Nach der Installation muss das Netzkabel richtig hineingesteckt und befestigt werden, damit niemand darüber stolpern kann.
- Falls der Auspackungsstandort und der Installationsstandort des Geräts verschieden sind, die Bildqualitätsjustierung (automatische Gammajustierung) je nach der Temperatur und Luftfeuchtigkeit des Installationsstandorts und der Papiersorte, die verwendet wird, durchführen.

2. Allgemeine Sicherheitsmassnahmen in bezug auf die Wartung

- Während der Wartung das Gerät ausschalten und das Netzkabel herausziehen (ausser Wartung, die bei einem eingeschalteten Gerät, durchgeführt werden muss).
- Das Netzkabel herausziehen und den Bereich um die Steckerpole und die Steckdose die Umgebung in der Nähe von den Steckerzacken und der Steckdose wenigstens einmal im Jahr reinigen. Wenn Staub sich in dieser Gegend ansammelt, kann dies ein Feuer verursachen.
- Wenn die Teile auseinandergenommen werden, wenn nicht anders in diesem Handbuch usw erklärt, ist das Zusammenbauen in umgekehrter Reihenfolge durchzuführen. Aufpassen, dass kleine Teile wie Schrauben, Dichtungsringe, Bolzen, E-Ringe, Stern-Dichtungsringe, Kabelbäume nicht an den verkehrten Stellen eingebaut werden.
- Grundsätzlich darf das Gerät mit enfernten oder auseinandergenommenen Teilen nicht in Betrieb genommen werden.
- Das PC-Board muss in einer Anti-elektrostatischen Hülle gelagert werden. Nur Mit einer Manschette bei Betätigung eines Armbandes anfassen, sonst könnte es sein, dass die integrierten Schaltkreise durch statische Elektrizität beschädigt werden.

   Vorsicht: Vor Benutzung der Manschette der Betätigung des Armbandes, das Netzkabel des Gerätes herausziehen und prüfen, dass es in der Nähe keine geladenen Gegenstände, die nicht isoliert sind, gibt.

- Setzen Sie sich während der Wartungsarbeiten nicht dem Laserstrahl aus. Dieses Gerät ist mit einer Laserdiode ausgestattet. Es ist unbedingt zu vermeiden, direkt in den Laserstrahl zu blicken. Keine reflektierenden Teile oder Werkzeuge, wie z. B. Schraubendreher, in den Pfad des Laserstrahls halten. Vor den Wartungsarbeiten sämtliche reflektierenden Metallgegenstände, wie Uhren, Ringe usw., entfernen.
- Auf keinen Fall Hochtemperaturbereiche, wie die Belichtungslampe, die Fixiereinheit, die Heizquelle und die umliegenden Bereiche, berühren.
- Auf keinen Fall Hochspannungsbereiche, wie die Ladeeinheiten, die Transferwalze, die Entwicklereinheit, den Hochspannungstransformator, den Steuerumrichter für die Belichtungslampe, den Umrichter für die LCD-Hintergrundbeleuchtung und das Netzgerät, berühren. Insbesondere sollten die Platinen dieser Komponenten nicht berührt werden, da die Kondensatoren usw. auch nach dem Ausschalten des Geräts noch elektrisch geladen sein können.
- Vor dem Berühren potenziell gefährlicher Bereiche (z. B. drehbare oder betriebsrelevante Bereiche, wie Zahnräder, Riemen, Riemenscheiben, Lüfter und die Laseraustrittsöffnung der optischen Lasereinheit) sicherstellen, dass das Gerät sich nicht bedienen lässt.
- Beim Entfernen von Abdeckungen vorsichtig vorgehen, da sich darunter scharfkantige Komponenten befinden können.
- Bei Wartungsarbeiten am eingeschalteten Gerät dürfen keine unter Strom stehenden, drehbaren oder betriebsrelevanten Bereiche berührt werden. Nicht direkt in den Laserstrahl blicken.
- Ausschließlich vorgesehene Werkzeuge und Hilfsmittel verwenden.
- Empfohlene oder gleichwertige Messgeräte verwenden.
- Nach Abschluss der Wartungsarbeiten das Gerät in den ursprünglichen Zustand zurück versetzen und den einwandfreien Betrieb überprüfen.
- Das berührungsempfindliche Bedienungsfeld stets vorsichtig handhaben und keinen Stößen aussetzen. Wenn die Oberfläche beschädigt wird, kann dies zu Funktionsstörungen führen.

3. Allgemeine Sicherheïtsmassnahmen

- Die Verfahren sind zu überprufen und wie im Wartungshandbuch beschrieben durchzuführen.
- Vorsichtig, dass Sie nicht umfallen.
- Um Aussetzung zur Haut zur vermeiden, tragen Sie wenn nötig Schutzhandschuhe.

4. Sicherheitsrelevante Wartungsteile

- Der Leistungsschutzschalter, der Türschalter, die Sicherung, der Thermostat, die Thermosicherung, der Thermistor, die IC-RAMs einschließlich der Lithiumakkus usw. sind besonders sicherheitsrelevant. Sie müssen unbedingt korrekt gehandhabt und installiert werden. Wenn diese Teile kurzgeschlossen und funktionsunfähig werden, kann dies zu schwerwiegenden Schäden, wie einer Explosion oder einem Abbrand, führen. Kurzschlüsse sind zu vermeiden, und es sind ausschließlich Teile zu verwenden, die von der Toshiba TEC Corporation empfohlen sind.

5. Warnetiketten

- Im Rahmen der Wartung unbedingt das Leistungsschild und die Etiketten mit Warnhinweisen überprüfen [z. B. „Unplug the power cable during service" („Netzkabel vor Beginn der Wartungsarbeiten abziehen"), „CAUTION. HOT" („VORSICHT, HEISS"), „CAUTION. HIGH VOLTAGE" („VORSICHT, HOCHSPANNUNG"), „CAUTION. LASER BEAM" („VORSICHT, LASER") usw.], um sicherzustellen, dass sie nicht verschmutzt sind und korrekt am Gerät angebracht sind.
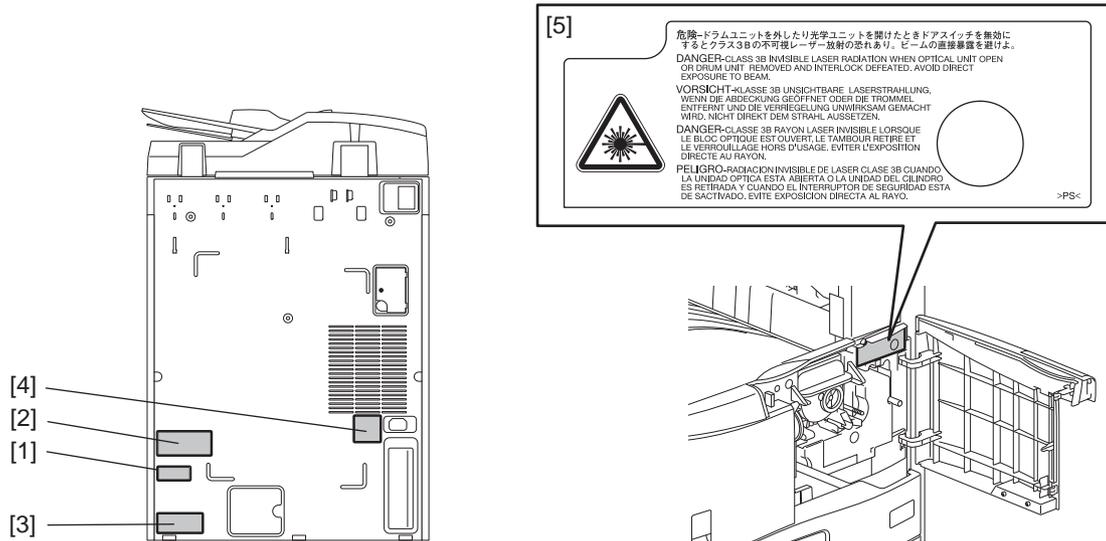
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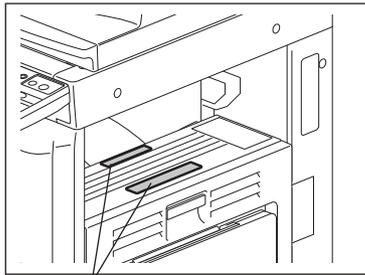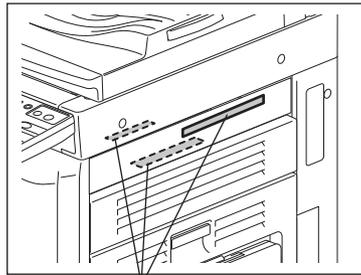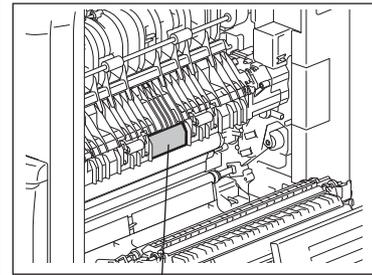
[1] Klassifizierungsetikett
[2] Erklarungsetikett
[3] Erkennungsetikett
[4] Warnung fur Erdungskabel
[5] Laser-Warnetikett
[6] Warnung fur Bereiche mit hohen Temperaturen (Fixiereinheit)

6. Entsorgung des Geräts, der Verbrauchs- und Verpackungsmaterialien, alter Akkus und IC-RAMs
-   In Bezug auf die Entsorgung und Wiederverwertung des Geräts, der Verbrauchs- und Verpackungsmaterialien, alter Akkus und IC-RAMs, einschließlich Lithiumakkus, sind die einschlägigen nationalen oder regionalen Vorschriften zu befolgen.

Caution:
    Dispose of used batteries and IC-RAMs including lithium batteries according to this manual.
Attention:
    Se débarrasser de batteries et IC-RAMs usés y compris les batteries en lithium selon ce manuel.
Vorsicht:
    Entsorgung der gebrauchten Batterien und IC-RAMs (inclusive der Lithium-Batterie) nach diesem Handbuch.

- Laseremissionseinheit

  Diese Einheit besteht aus der Laserdiode, dem Fokussierungsobjektiv, der Blende und dem Zylinderobjektiv.

  - Laserdiode
  Diese Laserdiode zeichnet sich durch eine geringe Regeldifferenz, eine kleine Laservariation und einen niedrigen Schwellenstrom aus.
  Die Blende der Laseremissionseinheit ist unter dem Fokussierobjektiv angeordnet, um die Form der Laserstrahlen in der primären und sekundären Scanrichtung festzulegen.
  Die Laserdiode gibt Laserstrahlen als Reaktion auf die Signale der Laseremissionssteuerung (ein/aus) von der Lasertreiber-PC-Platine (LDR) aus. Die durch das Fokussierobjektiv geführten Laserstrahlen werden auf die Trommeloberfläche fokussiert.

  - Vorsichtsmaßnahmen im Zusammenhang mit Lasern
  Dieses Gerät enthält eine Laserdiode, die einen unsichtbaren Laserstrahl emittiert.
  Da man diesen Laserstrahl nicht sehen kann, ist bei der Handhabung der Komponenten der optischen Lasereinheit, bei der Durchführung von Arbeiten und bei der Justierung des Laserstrahls äußerste Vorsicht geboten. Arbeiten dürfen niemals anhand anderer als den vorgeschriebenen Anleitungen durchgeführt werden; andernfalls kann es zu einer Schädigung Exposition durch Laserstrahlung kommen.
  Die Lasereinheit ist vollständig mit einer Schutzabdeckung versiegelt. Solange ausschließlich die Arbeitsschritte der vorgeschriebenen Anleitungen durchgeführt werden, tritt der Laserstrahl nicht aus, und es besteht keine Gefahr, der Laserstrahlung ausgesetzt zu werden.

  Das folgende Laser-Warnetikett ist an der Abdeckung vorne rechts angebracht.
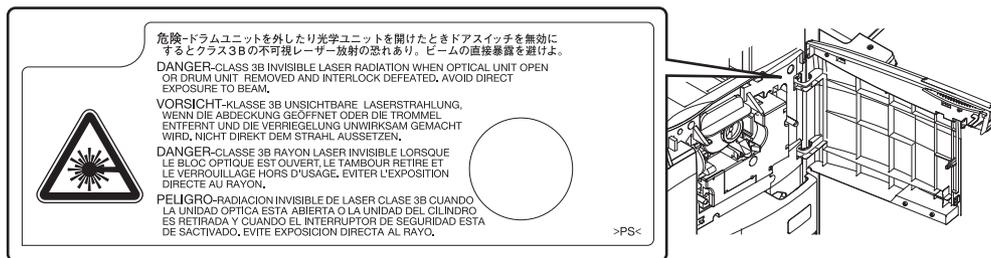
- Warnhinweise:
  - Setzen Sie sich während der Wartungsarbeiten nicht dem Laserstrahl aus.
    Dieses Gerät ist mit einer Laserdiode ausgestattet. Es ist unbedingt zu vermeiden, direkt in den Laserstrahl zu blicken. Keine reflektierenden Teile oder Werkzeuge, wie z. B. Schraubendreher, in den Pfad des Laserstrahls halten. Vor den Wartungsarbeiten sämtliche reflektierenden Metallgegenstände, wie Uhren, Ringe usw., entfernen.
  - Bei Wartungsarbeiten am eingeschalteten Gerät dürfen keine unter Strom stehenden, drehbaren oder betriebsrelevanten Bereiche berührt werden. Nicht direkt in den Laserstrahl blicken.
  - Im Rahmen der Wartung unbedingt das Leistungsschild und die Etiketten mit Warnhinweisen überprüfen [z. B. „Unplug the power cable during service" („Netzkabel vor Beginn der Wartungsarbeiten abziehen"), „CAUTION. HOT" („VORSICHT, HEISS"), „CAUTION. HIGH VOLTAGE" („VORSICHT, HOCHSPANNUNG"), „CAUTION. LASER BEAM" („VORSICHT, LASER") usw.], um sicherzustellen, dass sie nicht verschmutzt sind und korrekt am Gerät angebracht sind.

CONTENTS

1. FEATURES

1.1   Main Features of e-STUDIO206L/256/306/356/456/506

- The customizing ability is improved and high security performance is given by adopting a new OS. (New standard IEEE2600 embedded)

- The open platform interface using Web Service is embedded.

- The Inner finisher and Saddle stitch finisher (optional) are adopted.

Item	Model name
Inner finisher	MJ-1032
Saddle stitch finisher	MJ-1033

1.2   Main Features of e-STUDIO207L/257/307/357/457/507

- A toner dedicated for e-STUDIO207L/257/307/357/457/507 is used.

- The SYS board, LGC board, MOT2 board, CTIF board and CTRG board differ from the ones used for e-STUDIO206L/256/306/356/456/506.

- The laser optical unit differs from the one used for e-STUDIO206L/256/306/356/456/506.

- The attachment direction of the HDD differs from the one for e-STUDIO206L/256/306/356/456/506.
  e-STUDIO206L/256/306/356/456/506: Vertical
  e-STUDIO207L/257/307/357/457/507: Horizontal

- The SLG board was removed since its function has been integrated into the SYS board.

- The scanner unit and the control panel are used in common for the e-STUDIO5055C series.

2. SPECIFICATIONS / ACCESSORIES / OPTIONS / SUPPLIES

2.1 Specifications

2.1.1 General

- Type .... Desktop type (console type: when paper feed pedestal (PFP) and large capacity feeder (LCF) are installed)

- Original glass .... Fixed type (the left rear corner used as guide to place originals)

- Copy process .... Indirect electrophotographic process (dry)

- Fixing method .... Halogen lamp (2 pieces) <Halogen lamp (3 pieces)>

- Photosensor type .... OPC

- Original scanning sensor .... Linear CCD sensor

- Scanning light source .... e-STUDIO206L/256/306/356/456/506: Xenon lamp / LED
  e-STUDIO207L/257/307/357/457/507: LED

- Reproduction ratio .... Actual ratio: 100±0.5%
  Zooming: 25 to 400% in increments of 1%
  (25 to 200% when using RADF)

- Resolution .... Scanning: 600 dpi x 600 dpi
  Printing: Equivalent to 2400 dpi x 600 dpi

- Gradation .... 256 steps

- Paper feeding .... 2 drawers + Bypass feeding + LCF (optional)
  2 drawers + Bypass feeding + 2 PFP (optional)

- Paper supply .... Standard drawers:

  Stack height 60.5 mm, equivalent to 550 sheets; 80 g/m^2 (20 lb. Bond)): Depends on destinations or versions.

  Bypass feeding:

  Stack height 11 mm: equivalent to 100 sheets; 80 g/m^2 (20 lb. Bond)

  PFP:(Option):

  Two drawer: stack height 60.5 mm, 550 sheets; 80 g/m^2 (20 lb. Bond)

  LCF:(Option)

  Stack height 110 mm x 2: equivalent to 1000 sheets; 80 g/m^2 (20 lb. Bond)

•paper

Paper size	Drawers	A3, A4, A4-R, A5-R, B4, B5, B5-R, FOLIO, 8K, 16K, 16K-R, LD, LG, LT, LT-R, ST-R, COMPUTER, 13"LG, 8.5" x 8.5" (Non-standard sizes are not available)
	Bypass feeding	A3, A4, A4-R, A5-R, B4, B5, B5-R, FOLIO, 8K, 16K, 16K-R, LD, LG, LT, LT-R, ST-R, COMPUTER, 13"LG, 8.5" x 8.5", Envelope (DL, COM10, Monarch, CHO-3, YOU-4)
	LCF (optional)	A4, LT (Non-standard sizes are not available)
Paper type	Drawers/LCF (optional)	Plain paper (Tracing paper, OHP films, sticker labels, envelopes and punched paper are not available)
	Bypass feeding	Plain paper, Tracing paper, OHP film, Sticker labels, Tab paper, Envelope (DL, COM10, Monarch, CHO-3, YOU-4)
Paper weight	Drawers/LCF (optional)	64 - 105 g/m^2 (17 - 28 lb. Bond)
	Bypass feeding	52 - 209 g/m^2 (14 lb. Bond - 110 lb. Index) (for single feed) Plain paper: 64 - 80 g/m^2 (17 - 20 lb. Bond) Thin paper: 52 - 63 g/m^2 (14 - 17 lb. Bond) Thick 1: 81 - 105 g/m^2 (21 - 28 lb. Bond) Thick 2: 106 - 163 g/m^2 (29 lb. Bond - 90 lb. Index) Thick 3: 164 - 209 g/m^2 (91 - 110 lb. Index)
		64 - 209 g/m^2 (17 lb. Bond - 110 lb. Index) (for continuous feed)
	ADU	64 - 105 g/m^2 (17 - 28 lb. Bond)

•Automatic duplexing unit .... Stackless, Switchback type
e-STUDIO206L/256/306 / 207L/257/307: No exclusive switchback mechanism
e-STUDIO356/456/506 / 357/457/507: Uses an exclusive switchback mechanism

Acceptable paper size
A3, A4, A4-R, A5-R, B4, B5, B5-R, FOLIO, 8K, 16K, 16K-R, LD, LG, LT, LT-R, ST-R, COMPUTER, 13"LG, 8.5" x 8.5"

Acceptable paper weight
64 - 105 g/m^2 (17 - 28 lb. Bond)

•Offset mechanism .... e-STUDIO206L/256/306 / 207L/257/307: No exclusive offset mechanism
e-STUDIO356/456/506 / 357/457/507: Uses an exclusive offset mechanism
Offsetting mechanism with movable exit roller
(Shift amount: 30 mm, Stack height: 40 mm (250 sheets))

•Interface .... Standard:
USB 2.0 (High Speed),
Ethernet (10BASE-T/100BASE-TX/1000BASE-T)
Optional:
Wireless LAN (IEEE 802.11b/g),
Bluetooth (HCRP and BIP): e-STUDIO206L/256/306/356/456/ 506 only

•Toner supply .... Automatic toner density detection/supply
Toner cartridge replacing method (There is a recovered toner supply mechanism.)

•Toner density control .... Automatic density mode and manual density mode selectable in 11 steps

•Memory (RAM) .... Main memory: 2 GB (Incl. page memory)

•HDD....................................... e-STUDIO206L/256/306/356/456/506: 320 GB
e-STUDIO207L/257/307/357/457/507: 320 GB

•Account Codes .... 10,000 codes

•Department Codes .... 1,000 codes

•Warming-up time .... Normal start-up: Approx. 20 sec. (temperature: 20°C)
Start-up with hibernation: Approx. 20 sec. (temperature: 20°C)

•Power requirements .... AC 110 V / 13.2 A, 115 V or 127 V / 12 A
220-240 V or 240 V / 8 A (50/60 Hz)
   *   The acceptable value of each voltage is ±10%.

•Power consumption................. 1.5 kW or less (115 V series, 200 V series)
Super Sleep mode: 1.0 W or less (When the damp heater switch is set to OFF, and only 1 FAX line is used)
Approx. 1.0 W (LAN connection, LAN connection and only 1 FAX line is used)
   *   The electric power is supplied to the RADF, (ADU), Finisher, Job Separator, Offset Tray, PFP and LCF through the equipment.

•Total counter .... Electronical counter

• Dimensions of the equipment............ See the figure below (W 575 x D 586 x H 756 (mm))
* The height includes the surface of the original glass.
* When the tilt angle of the control panel is 7 to 84 degrees.
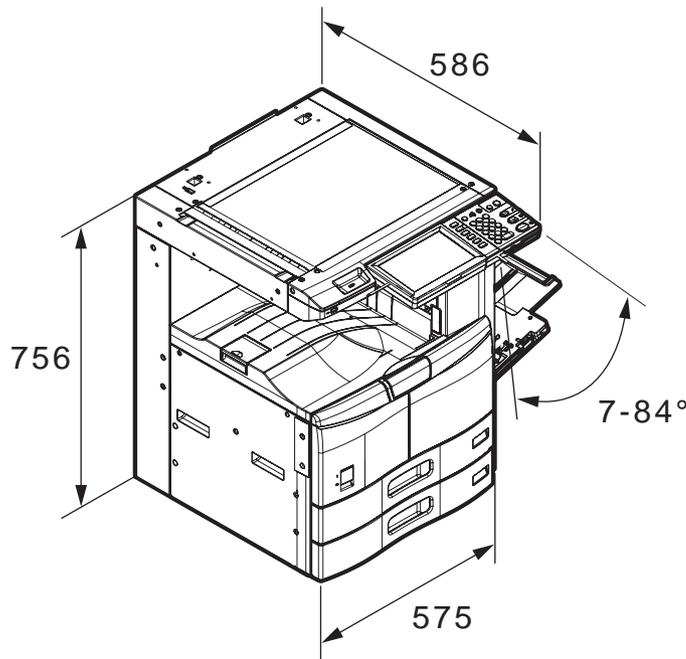
Fig. 2-1

• Weight .... e-STUDIO206L/256/306: Approximately 58 kg (127.87 lb.)
e-STUDIO356/456/506: Approximately 61 kg (134.48 lb.)
e-STUDIO207L/257/307: Approximately 54.5 kg (120.17 lb.)
e-STUDIO357/457/507: Approximately 56.5 kg (124.58 lb.)
(include the developer material and drum)

2.1.2   Copy

• Reversing automatic document feeder (Option)

Original scanning system:
Fixed scanning system by feeding the original
(the center used as guide to place originals)

Original type:
Sheets (carbon, bounded or stapled originals cannot be accepted)

Original size:
A3, A4, A4-R, A5-R, B4, B5, B5-R, LD, LG, LT, LT-R, ST-R

Original paper weight:
Single-sided copy: 35 - 157 g/m^2 (9.3 - 41.8 lb. Bond)
Double-sided copy: 50 - 157 g/m^2 (13.3 - 41.8 lb. Bond)

Original capacity
Max. 100 sheets (80 g/m^2) (Stack height 16 mm)

•Accepted originals .... Sheet, book and 3-dimensional object. The reversing automatic document feeder (RADF) only accepts paper which are not pasted or stapled. Carbon paper are not acceptable either.
Maximum size: A3/LD

Single - sided original	Double - sided original
35 - 157 g/m^2 (9.3 - 41.8 lb. Bond)	50 - 157 g/m^2 (13.3 - 41.8 lb. Bond)

•Eliminated portion .... Leading edges: 3.0±2.0 mm, Side/trailing edges: 2.0±2.0 mm (copy)
Leading / trailing edges: 4.2±2.0 mm, Side edges: 4.2±2.0 mm (print)

•Multiple copying .... Up to 999 copies; Key in set numbers

•First copy time .... e-STUDIO206L / 207L: Approx. 4.7 sec. or less
e-STUDIO256 / 257: Approx. 4.7 sec. or less
e-STUDIO306 / 307: Approx. 4.7 sec. or less
e-STUDIO356 / 357: Approx.3.7 sec. or less
e-STUDIO456 / 457: Approx.3.7 sec. or less
e-STUDIO506 / 507: Approx.3.7 sec. or less
(A4/LT, upper drawer, 100%, original placed manually)

•Copy speed (Copies/min.)
e-STUDIO206L / 207L

Paper size	Drawer	Bypass feed		PFP	LCF
		Size specified	Size not specified		
A4, LT, B5, A5-R, ST-R	20.3	20.3	13.2	20.3	20.3
A4-R, B5-R, LT-R	16.9	16.9	13.2	16.9	–
B4, LG	14.8	14.8	13.2	14.8	–
A3, LD	13.2	13.2	13.2	13.2	–

e-STUDIO256 / 257

Paper size	Drawer	Bypass feed		PFP	LCF
		Size specified	Size not specified		
A4, LT, B5, A5-R, ST-R	25.3	25.3	16.8	25.3	25.3
A4-R, B5-R, LT-R	23.3	23.3	16.8	23.3	–
B4, LG	19.5	19.5	16.8	19.5	–
A3, LD	16.8	16.8	16.8	16.8	–

e-STUDIO306 / 307

| Paper size | Drawer | Bypass feed | | PFP | LCF |
		Size specified	Size not specified		
A4, LT, B5, A5-R, ST-R	30.3	30.3	16.8	30.3	30.3
A4-R, B5-R, LT-R	23.3	23.3	16.8	23.3	–
B4, LG	19.5	19.5	16.8	19.5	–
A3, LD	16.8	16.8	16.8	16.8	–

e-STUDIO356 / 357

| Paper size | Drawer | Bypass feed | | PFP | LCF |
		Size specified	Size not specified		
A4, LT, B5, A5-R, ST-R	35.3	35.3	25.4	35.3	35.3
A4-R, B5-R, LT-R	35.0	35.0	25.4	35.0	–
B4, LG	29.5	29.5	25.4	29.5	–
A3, LD	25.4	25.4	25.4	25.4	–

e-STUDIO456 / 457

| Paper size | Drawer | Bypass feed | | PFP | LCF |
		Size specified	Size not specified		
A4, LT, B5, A5-R, ST-R	45.3	45.3	25.4	45.3	45.3
A4-R, B5-R, LT-R	35.0	35.0	25.4	35.0	–
B4, LG	29.5	29.5	25.4	29.5	–
A3, LD	25.4	25.4	25.4	25.4	–

e-STUDIO506

| Paper size | Drawer | Bypass feed | | PFP | LCF |
		Size specified	Size not specified		
A4, LT	50.3	45.3	25.4	45.3	45.3
B5, A5-R, ST-R	50.3	45.3	25.4	45.3	–
A4-R, B5-R, LT-R	35.0	35.0	25.4	35.0	–
B4, LG	29.5	29.5	25.4	29.5	–
A3, LD	25.4	25.4	25.4	25.4	–

e-STUDIO507

| Paper size | Drawer | Bypass feed | | PFP | LCF |
		Size specified	Size not specified		
A4, LT	50.3	45.3	25.4	50.3	50.3
B5, A5-R, ST-R	50.3	45.3	25.4	50.3	–
A4-R, B5-R, LT-R	35.0	35.0	25.4	35.0	–
B4, LG	29.5	29.5	25.4	29.5	–
A3, LD	25.4	25.4	25.4	25.4	–

* "–" means "Not acceptable".
* The copy speed in the above table are available when originals are manually placed for single side, multiple copying.

Copy speed for thick paper (Copies/min.)

Thick 1 (81 - 105 g/m^2, 21 - 28 lb. Bond)

| Paper size | e-STUDIO | Drawer | Bypass feed | | PFP | LCF |
			Size specified	Size not specified		
A4, LT, B5, A5-R, ST-R	206L/207L	19.7	19.7	12.9	19.7	19.7
	256/257	25.3	25.3	16.4	25.3	25.3
	306/307	29.0	29.0	16.4	29.0	29.0
	356/357	35.3	35.3	24.8	35.3	35.3
	456/457	43.4	43.4	24.8	43.4	43.4
	506/507	43.4	43.4	24.8	43.4	43.4
A4-R, B5-R, LT-R	206L/207L	16.5	16.5	12.9	16.5	–
	256/257	22.5	22.5	16.4	22.5	–
	306/307	22.5	22.5	16.4	22.5	–
	356/357	33.9	33.9	24.8	33.9	–
	456/457	33.9	33.9	24.8	33.9	–
	506/507	33.9	33.9	24.8	33.9	–
B4, LG, FOLIO, COMPUTER	206L/207L	14.5	14.5	12.9	14.5	–
	256/257	19.0	19.0	16.4	19.0	–
	306/307	19.0	19.0	16.4	19.0	–
	356/357	28.7	28.7	24.8	28.7	–
	456/457	28.7	28.7	24.8	28.7	–
	506/507	28.7	28.7	24.8	28.7	–
A3, LD	206L/207L	12.9	12.9	12.9	12.9	–
	256/257	16.4	16.4	16.4	16.4	–
	306/307	16.4	16.4	16.4	16.4	–
	356/357	24.8	24.8	24.8	24.8	–
	456/457	24.8	24.8	24.8	24.8	–
	506/507	24.8	24.8	24.8	24.8	–

Thick 2 (106 - 163 g/m2, 29 lb. Bond - 90 lb. Index)

| Paper size | e-STUDIO | Drawer | Bypass feed | | PFP | LCF |
			Size specified	Size not specified		
A4, LT, B5, A5-R, ST-R	206L/207L	–	19.7	12.9	–	–
	256/257	–	25.3	16.4	–	–
	306/307	–	29.0	16.4	–	–
	356/357	–	35.3	24.8	–	–
	456/457	–	43.4	24.8	–	–
	506/507	–	43.4	24.8	–	–
A4-R, B5-R, LT-R	206L/207L	–	16.5	12.9	–	–
	256/257	–	22.5	16.4	–	–
	306/307	–	22.5	16.4	–	–
	356/357	–	33.9	24.8	–	–
	456/457	–	33.9	24.8	–	–
	506/507	–	33.9	24.8	–	–
B4, LG, FOLIO, COMPUTER	206L/207L	–	14.5	12.9	–	–
	256/257	–	19.0	16.4	–	–
	306/307	–	19.0	16.4	–	–
	356/357	–	28.7	24.8	–	–
	456/457	–	28.7	24.8	–	–
	506/507	–	28.7	24.8	–	–
A3, LD	206L/207L	–	12.9	12.9	–	–
	256/257	–	16.4	16.4	–	–
	306/307	–	16.4	16.4	–	–
	356/357	–	24.8	24.8	–	–
	456/457	–	24.8	24.8	–	–
	506/507	–	24.8	24.8	–	–

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
SPECIFICATIONS / ACCESSORIES / OPTIONS / SUPPLIES

Thick 3 (164 - 209 g/m^2, 91 - 110 lb. Index)

| Paper size | e-STUDIO | Drawer | Bypass feed | | PFP | LCF |
			Size specified	Size not specified		
A4, LT, B5, A5-R, ST-R	206L/207L	–	19.7	12.9	–	–
	256/257	–	25.3	16.4	–	–
	306/307	–	29.0	16.4	–	–
	356/357	–	35.3	24.8	–	–
	456/457	–	43.4	24.8	–	–
	506/507	–	43.4	24.8	–	–
A4-R, B5-R, LT-R	206L/207L	–	16.5	12.9	–	–
	256/257	–	22.5	16.4	–	–
	306/307	–	22.5	16.4	–	–
	356/357	–	33.9	24.8	–	–
	456/457	–	33.9	24.8	–	–
	506/507	–	33.9	24.8	–	–
B4, LG, FOLIO, COMPUTER	206L/207L	–	14.5	12.9	–	–
	256/257	–	19.0	16.4	–	–
	306/307	–	19.0	16.4	–	–
	356/357	–	28.7	24.8	–	–
	456/457	–	28.7	24.8	–	–
	506/507	–	28.7	24.8	–	–
A3, LD	206L/207L	–	12.9	12.9	–	–
	256/257	–	16.4	16.4	–	–
	306/307	–	16.4	16.4	–	–
	356/357	–	24.8	24.8	–	–
	456/457	–	24.8	24.8	–	–
	506/507	–	24.8	24.8	–	–

*   "–" means "Not acceptable".
*   Only A4/LT size is available for the LCF.
*   The tolerance is within ±2.

*   System copy speed A4 (Unit: Second)

| | | A4 (Reproduction ratio 100%) | | | |
		1 sheet	5 sheets	10 sheets	20 sheets
e-STUDIO206L / 207L	Single-sided originals ↓ Single-sided copies	92	97	99	100
	Single-sided originals ↓ Double-sided copies	83	97	99	100
	Double-sided originals ↓ Double-sided copies	88	99	100	100
	Double-sided originals ↓ Single-sided copies	93	99	100	100

		A4 (Reproduction ratio 100%)			
		1 sheet	**5 sheets**	**10 sheets**	**20 sheets**
e-STUDIO256 / 257	Single-sided originals ↓ Single-sided copies	89	96	98	99
	Single-sided originals ↓ Double-sided copies	78	95	98	99
	Double-sided originals ↓ Double-sided copies	80	97	99	100
	Double-sided originals ↓ Single-sided copies	87	98	99	100
e-STUDIO306 / 307	Single-sided originals ↓ Single-sided copies	85	94	97	99
	Single-sided originals ↓ Double-sided copies	72	93	96	98
	Double-sided originals ↓ Double-sided copies	67	96	98	99
	Double-sided originals ↓ Single-sided copies	72	97	99	100
e-STUDIO356 / 357	Single-sided originals ↓ Single-sided copies	88	96	97	99
	Single-sided originals ↓ Double-sided copies	72	93	96	98
	Double-sided originals ↓ Double-sided copies	60	96	97	99
	Double-sided originals ↓ Single-sided copies	64	97	99	100
e-STUDIO456 / 457	Single-sided originals ↓ Single-sided copies	83	92	96	98
	Single-sided originals ↓ Double-sided copies	61	90	94	97
	Double-sided originals ↓ Double-sided copies	47	94	97	98
	Double-sided originals ↓ Single-sided copies	49	96	98	99

2

		A4 (Reproduction ratio 100%)			
		1 sheet	**5 sheets**	**10 sheets**	**20 sheets**
e-STUDIO506 / 507	Single-sided originals ↓ Single-sided copies	83	92	96	98
	Single-sided originals ↓ Double-sided copies	61	90	94	97
	Double-sided originals ↓ Double-sided copies	47	94	97	98
	Double-sided originals ↓ Single-sided copies	49	96	98	99

* The system copy speed, including scanning time, is available when 10 sheets of A4/LT size original are set on RADF and one of the copy modes in the above table is selected. The period of time from pressing [START] to the paper exit completely out of the equipment based on the actually measured value.
* Upper drawer is selected and copying is at the non-sort mode.
* Automatic copy density, APS/AMS are turned off.
* Finisher is not installed.

2.1.3 Print

Page Description Language (Printer Driver)	PCL6, PostScript 3 emulation, XPS
Page Description Language (RIP)	PCL6, PostScript 3 emulation, XPS, PCL5e, PDF (emulation)
Supported OS	Windows XP / Vista / 7 / 8 / Server 2003 / Server 2003 R2 / Server 2008 / Server 2008 R2 / Server 2012 Mac OS X (Ver.10.4 or higher) Solaris (SUN) / HP-UX / AIX (IBM) / Linux / SCO
Resolution	600 x 600 dpi
Eliminated portion	Leading edges / Trailing edges / Side edges: 4.2 (±2.0) mm
Interface	Standard	USB 2.0 (High Speed), Ethernet (10BASE-T/100BASE-TX/1000BASE-T)
	Optional	Wireless LAN (IEEE 802.11b/g), Bluetooth (e-STUDIO206L/256/306/ 356/456/506 only)

2.1.4 Scan

e-STUDIO206L/256/306/356/456/506

Scanning speed (Black)	45 sheets/min
Resolution	600 x 600 dpi
Original mode	[TEXT], [TEXT/PHOTO], [PHOTO], [Printed Image]
File formats	JPEG (Gray/Color), Multi/Single page TIFF, Multi/Single page PDF, Multi/Single page XPS

e-STUDIO257/257P/357/457/507

Scanning speed (Black)	50 spm
Resolution	600 x 600 dpi
Original mode	BLACK: [TEXT], [TEXT/PHOTO], [PHOTO] GRAY CSCALE COLOR: [TEXT], [TEXT/PHOTO], [PHOTO]
File formats	JPEG (Gray/Color), TIFF-Multi/Single page, PDF-Multi/Single Page, XPS-Multi/Single Page

*   Measuring condition of the scanning speed: Scanning single-sided A4/LT originals in the Text/Photo mode with 100% reproduction ratio using the RADF

2.1.5　e-Filing

Number of Boxes	Public Box	1
	User Box	200
Number of Folder		100 folders per box
Number of Document		400 documents per box/folder
Number of Page		200 pages per document
Capacity of HDD	e-Filing	9.5 GB

2.1.6　Internet Fax

[1]　Internet FAX transmission

Resolution	TX Resolution < dots/mm >	Standard (8 x 3.85), Fine (8 x 7.7), U-Fine (16 x 15.4)* *　If U-Fine is selected in TX resolution, data is converted to Fine resolution in RX.
Scanning	Original Document Size	A3, B4, A4, A4-R, A5, B5, B5-R, A5-R, LT, LT-R, LG, LD, ST, ST-R, Computer, FOLIO
	Speed	0.7sec. (per page/A4) Max.50 spm (ITU-T No.1, A4, 8 x 3.85,Text mode)
	Gray scale	256 levels (Error Diffusion)
Address book	Address Book	1000 stations
	Group	Max. 200 stations
Transmission Features	Broadcast transmission	Max. 400 destinations/job. (Fax number and E-mail address are available to registered in same job.)
	Message size limitation	Max. 30M Byte
	Message division	Page by page

[2]　Internet FAX receiving

Format of receive attachment	TIFF-FX (Profile S, F, J)

2.1.7   Network Fax

Compatibility		Super G3, G3 (ITU-T.30) Internet Fax (Simple mode) (ITU-T.37)
TX Resolution	PSTN	Standard: 200 x 100 dpi, Fine: 200 x 200 dpi, Super Fine: 200 x 400 dpi, Ultra Fine: 400 x 400 dpi
	Internet Fax	200 dpi x 200 dpi
Original Document Size		A3, B4, A4, B5, A5, LT, LG, LD, ST, FOLIO, Computer
Mail Box	User defined	Max. 300 boxes
Data transfer format	Send to e-Filing	MMR
	Send to File (SMB)	Single TIFF, Multi-TIFF, Single PDF, Multi PDF
	Send to FTP	Single TIFF, Multi-TIFF, Single PDF, Multi PDF
	Send to E-mail	Single TIFF, Multi-TIFF, Single PDF, Multi PDF
	Send to I-Fax	TIFF-S
	Send to PSTN-FAX	MMR

2.2 Accessories

Unpacking/setup instruction	1 set
Operator's manual	1 set (except for MJD) - Safety Information: 1 manual (SYS V1.0) - Quick Start Guide: 1 manual (SYS V1.0)
Operator's manual pocket	1 pc. (for AUD)
Power cable	1 pc.
Warranty sheet	1 pc. (for NAD)
Setup report	1 set (for NAD and MJD, CND)
Drum (installed inside of the equipment)	1 pc.
Toner cartridge	1 pc. (except for NAD, MJD)
Developer material	1 pc. (except for NAD, MJD)
Rubber plug	6 pcs.
CD-ROM	1 set - User Document CS: 1 pc. (SYS V1.0) - Client Utilities CD-ROM: 1 pc. (SYS V1.0)

Machine version
- NAD: North America
- ARD: Argentina and 220-volt South America
- ASD: Hong Kong
- AUD: Australia
- MJD: Europe
- ASU: Asia
- SAD: Saudi Arabia
- CND: China
- TWD: Taiwan
- JPD: Japan

Notes:
Check that the above accessories are correctly co-packed at the time of unpacking.

2.3 Options

Option	Model	e-STUDIO 206L	256	306	356	456	506	e-STUDIO 207L	257	307	357	457	507
Reversing Automatic Document Feeder (RADF)	MR-3021	Yes	Yes	Yes									
	MR-3022				Yes	Yes	Yes						
	MR-3028							Yes	Yes	Yes	Yes	Yes	Yes
Original Cover	KA-1640PC/ 1640PC-C	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Paper Feed Pedestal (PFP)	KD-1025	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Large Capacity Feeder (LCF)	KD-1026A4/LT/ A4-C	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Drawer Module	MY-1033/1033-C	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Desk	MH-2520	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Operator's manual pocket	KK-1660/1660-C							Yes	Yes	Yes	Yes	Yes	Yes
Work Table	KK-4550/4550-C	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Accessible Arm	KK-2550	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Job Separator	MJ-5004	Yes	Yes	Yes				Yes	Yes	Yes			
	MJ-5006/5006-C				Yes	Yes	Yes				Yes	Yes	Yes
Offset Tray	MJ-5005/5005-C	Yes	Yes	Yes				Yes	Yes	Yes			
Inner Finisher	MJ-1032/1032-C	Yes	Yes	Yes	Yes	Yes							
	MJ-1032N/ 1032N-C							Yes	Yes	Yes	Yes	Yes	Yes
Saddle Stitch Finisher	MJ-1033/ 1033C	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	
Finisher	MJ-1101/1101-C				Yes	Yes	Yes						
	MJ-1107/1107-C										Yes	Yes	Yes
Saddle Stitch Finisher	MJ-1106				Yes	Yes	Yes						
	MJ-1108N/ 1108N-C										Yes	Yes	Yes
Hole Punch Unit	MJ-6007E/N/F/ S/E-C	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes
	MJ-6008E/N/F/ S/E-C	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	
	MJ-6103E/N/F/ S/E-C				Yes	Yes	Yes						
	MJ-6104E/N/F/ S/E-C										Yes	Yes	Yes
Staple Cartridge	STAPLE-2000	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes
	STAPLE-3100	Yes	Yes	Yes	Yes	Yes	Yes				Yes	Yes	Yes
	STAPLE-2400				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Option	Model	e-STUDIO						e-STUDIO					
		206L	256	306	356	456	506	207L	257	307	357	457	507
Bridge Kit	KN-2520/2520-C	Yes	Yes	Yes	Yes	Yes	Yes						
	KN-2520N/2520N-C							Yes	Yes	Yes	Yes	Yes	Yes
Fax Unit	GD-1250NX/EU/AU/AS/C/TW	Yes	Yes	Yes	Yes	Yes	Yes						
	GD-1350NX/EU/AU/AS/C/TW							Yes	Yes	Yes	Yes	Yes	Yes
2nd Line for Fax Unit	GD-1260NA/EU-N/AU/C/TW	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HDD	GE-1230							Yes	Yes	Yes	Yes	Yes	Yes
Bluetooth Module	GN-2020	Yes	Yes	Yes	Yes	Yes	Yes						
Wireless LAN Module	GN-1060/1060C	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Antenna	GN-3010/3010C	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e-BRIDGE ID Gate	KP-2005/2005C	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	KP-2004	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Harness Kit	GQ-1180	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	GQ-1220	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	GQ-1230	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Damp Heater Kit	MF-4550U/4550E	Yes	Yes	Yes	Yes	Yes	Yes						
	MF-5070U/5070E							Yes	Yes	Yes	Yes	Yes	Yes
Meta Scan Enabler	GS-1010	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
External Interface Enabler	GS-1020	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IPSec Enabler	GP-1080	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Data Overwrite Enabler	GP-1070	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Unicode Font Enabler	GS-1007	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Printer Kit	GM-1230/C	Yes	Yes	Yes				Yes	Yes	Yes			
	GM-1240/C				Yes	Yes	Yes				Yes	Yes	Yes
Printer/Scanner Kit	GM-2250/C	Yes	Yes	Yes				Yes	Yes	Yes			
	GM-2260/C				Yes	Yes	Yes				Yes	Yes	Yes
Scanner Kit	GM-4230/C	Yes	Yes	Yes				Yes	Yes	Yes			
	GM-4240/C				Yes	Yes	Yes				Yes	Yes	Yes

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
SPECIFICATIONS / ACCESSORIES / OPTIONS / SUPPLIES

2.4 System List

2.4.1 e-STUDIO206L/256/306
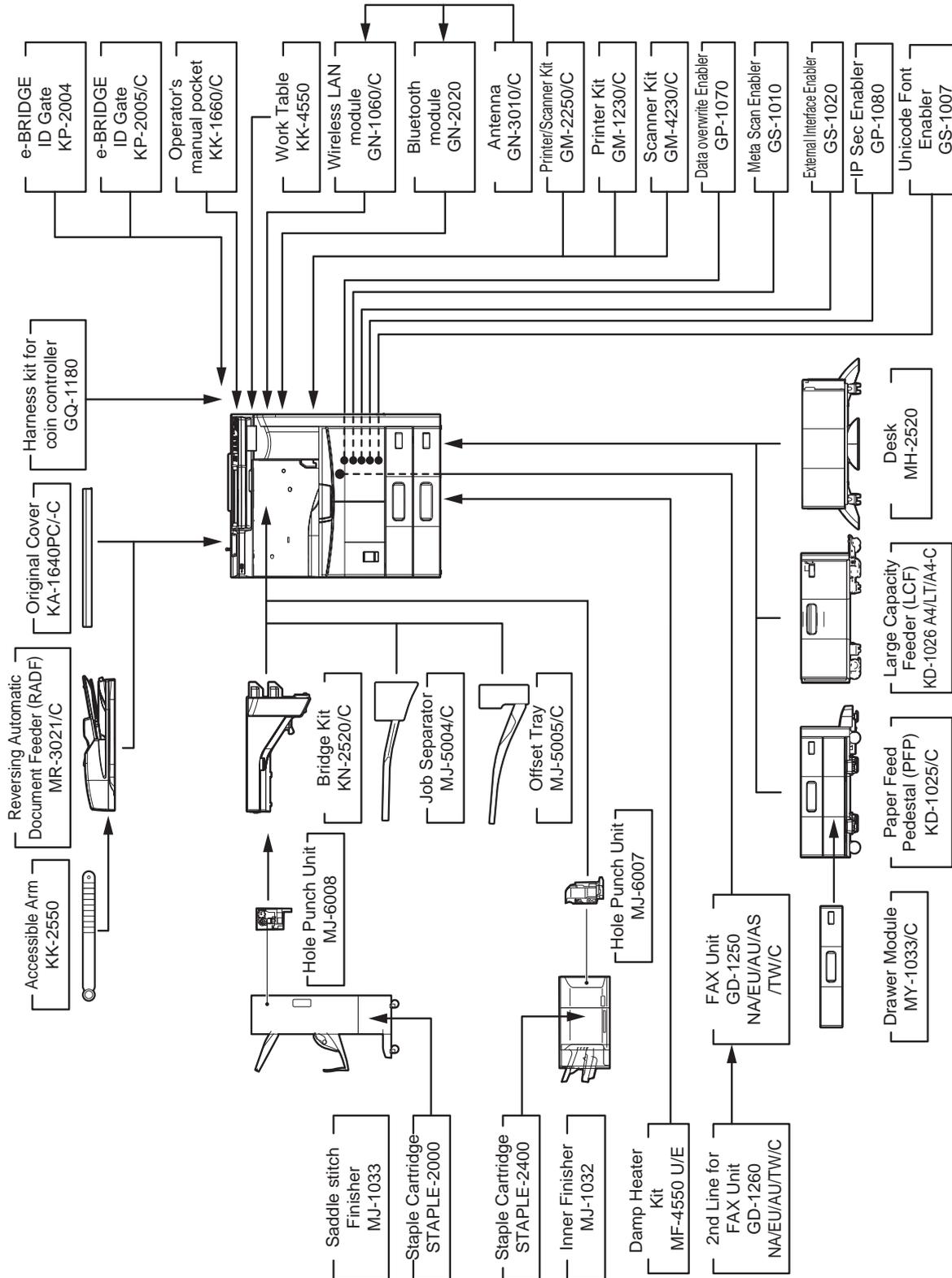
Fig. 2-2

2.4.2　e-STUDIO356/456
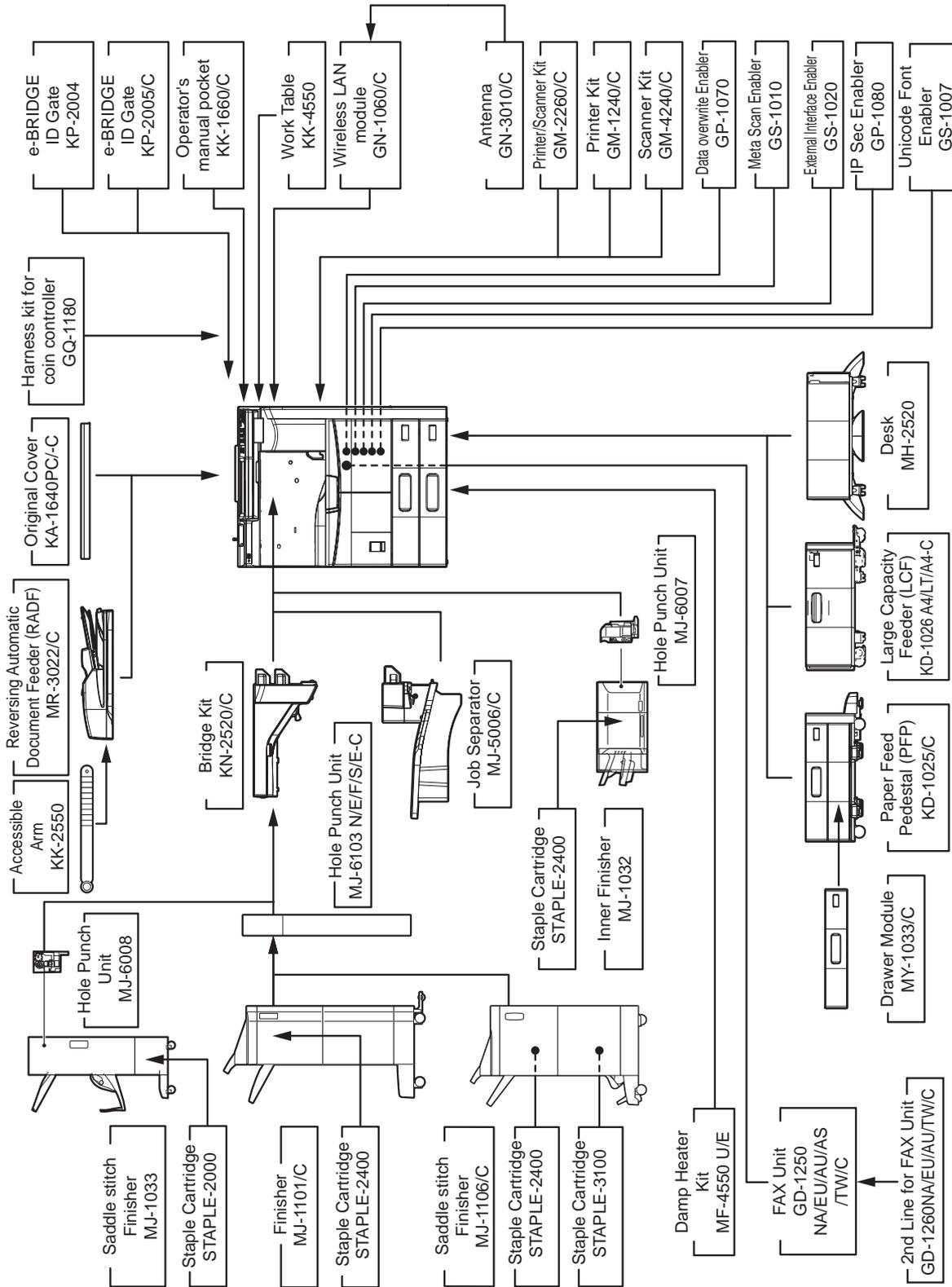
Fig. 2-3

2.4.3　e-STUDIO506
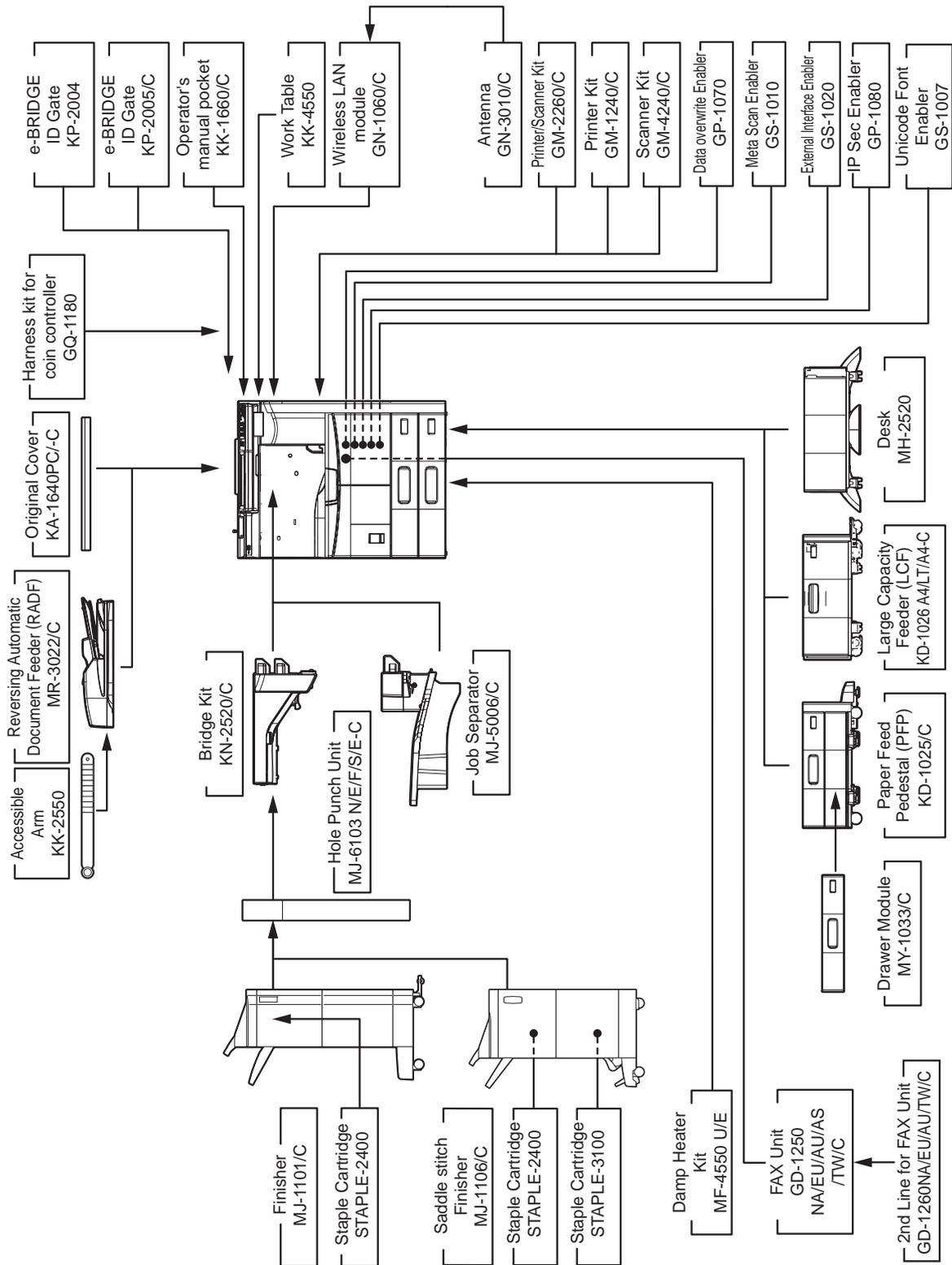
Fig. 2-4

Notes:

- "-" means "Not acceptable".
- The bridge unit (KN-2520) is necessary for installation of the finisher (MJ-1033, MJ-1101, MJ-1106).
- The finisher (MJ-1101/1106) is necessary for installation of the hole punch unit (MJ-6103N/E/F/S).
- The finisher (MJ-1032) is necessary for installation of the hole punch unit (MJ-6007N/E/F/S).
- The finisher (MJ-1033) is necessary for installation of the hole punch unit (MJ-6008N/E/F/S).
- The antenna (GN-3010) is necessary to enable the wireless LAN Module (GN-1060) and Bluetooth module (GN-2020).
- Only one Antenna (GN-3010) can be installed in the Bluetooth Module (GN-2020), while up to two can be installed in the Wireless LAN Module (GN-1060).
- The Work Table (KK-4550) and the e-BRIDGE ID Gate (KP-2004/2005) cannot be installed together.

2

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
SPECIFICATIONS / ACCESSORIES / OPTIONS / SUPPLIES

2.4.4　e-STUDIO207L/257/307
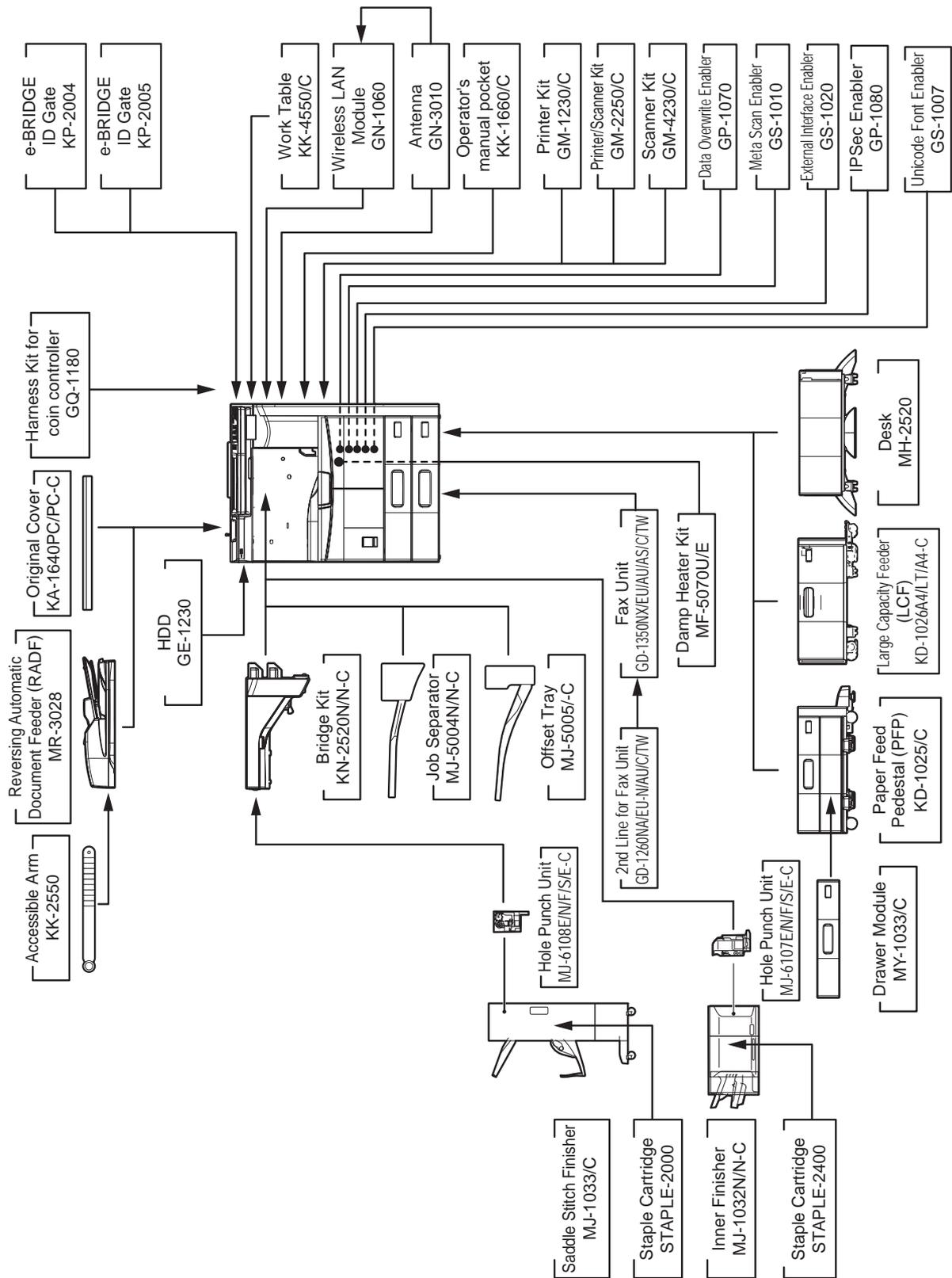
Fig. 2-5

2.4.5 e-STUDIO357/457/507
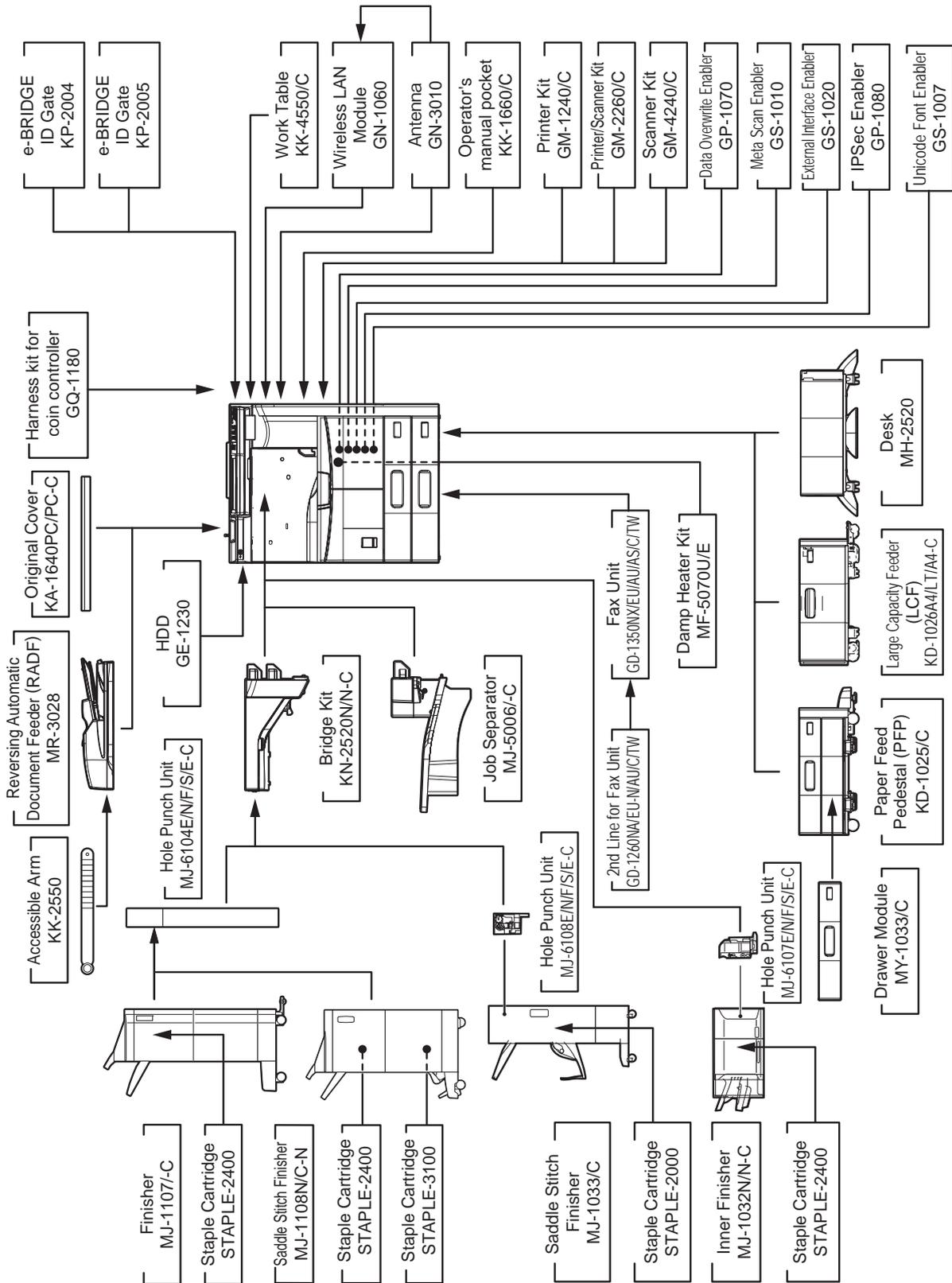
Fig. 2-6

Notes:

- "-" means "Not acceptable".
- The bridge unit (KN-2520N) is necessary for installation of the finisher (MJ-1033, MJ-1107, MJ-1108).
- The finisher (MJ-1107/1108) is necessary for installation of the hole punch unit (MJ-6103N/E/ F/S).
- The finisher (MJ-1032N) is necessary for installation of the hole punch unit (MJ-6007N/E/F/ S).
- The finisher (MJ-1033) is necessary for installation of the hole punch unit (MJ-6008N/E/F/S).
- The antenna (GN-3010) is necessary to enable the wireless LAN Module (GN-1060).
- Two Antenna (GN-3010) can be installed in the Wireless LAN Module (GN-1060).
- The Work Table (KK-4550) and the e-BRIDGE ID Gate (KP-2004/2005) cannot be installed together.
- If MJ-1032N is installed in the 50-cpm model, the performance speed other than that or the non-sort mode will be equivalent to the one when installed in the 45-cpm model.
- If MJ-1033 is installed in the 50-cpm model, the performance speed will be equivalent to the one when it is installed in the 45-cpm model.

2.5 Supplies

	e-STUDIO206L	e-STUDIO256/306	e-STUDIO356/456/506
Drum	OD-4530 /C	OD-4530 /C	OD-4530 /C
Toner cartridge	PS-ZT4590(1) /T/D/C/E/A/U[*1] PS-ZT4590C10K(1)	PS-ZT4590(1) /T/D/C/E/A/U[*1] PS-ZT4590C10K(1)	PS-ZT4590(1) /T/D/C/E/A/U[*1] PS-ZT4590C10K(1)
Developer	D-4530 /C	D-4530 /C	D-4530 /C

* 1) T: Taiwan D: Asia C: China E: Europe A: Argentina/220-volt South America U: North America

	e-STUDIO207L	e-STUDIO257/307	e-STUDIO357/457/507
Drum	OD-4530 /C		
Toner cartridge	PS-ZT5070U(1), PS-ZT5070A(1), PS-ZT5070C(1), PS-ZT5070D(1), PS-ZT5070T(1), PS-ZT5070P(1), PS-ZT5070E(1), PS-ZT5070CM(1) [*2]		
Developer	D-5070		

* 2) T: Taiwan P: Asia D: Australia C: China E: Europe A: Argentina/220-volt South America U: North America

2 - 24

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
SPECIFICATIONS / ACCESSORIES / OPTIONS / SUPPLIES

3. OUTLINE OF THE MACHINE

3.1 Sectional View

e-STUDIO206L/256/306/356/456/506
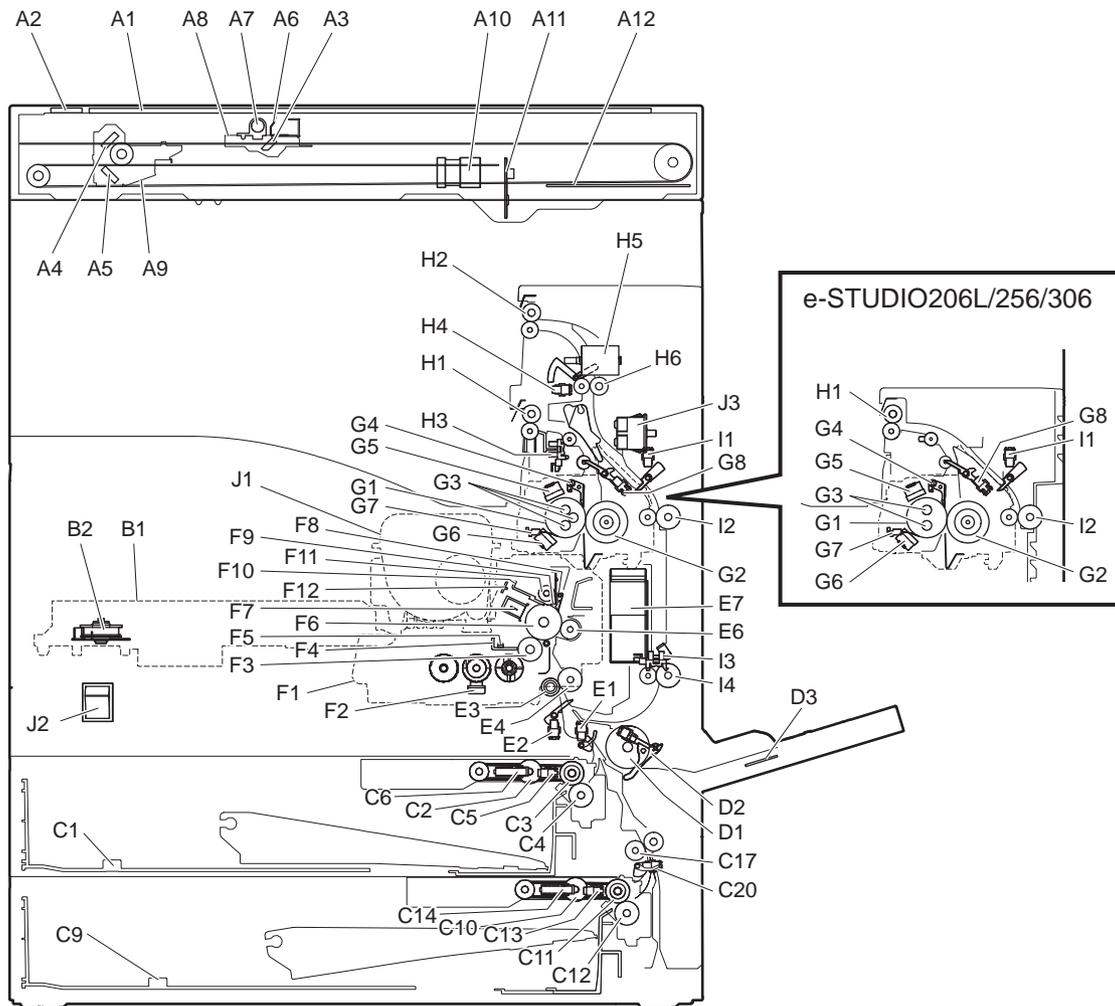
Fig. 3-1 Front side view

Fig. 3-2 Rear side view

Labels on figure: A13, A16, A14, A15, H8, H7, I5, I6, I7, E5, F14, F13, J4, D4, C8, C7, C19, C16, C18, C15

Inset box: e-STUDIO206L/256/306 — I5, H7

3

e-STUDIO207L/257/307
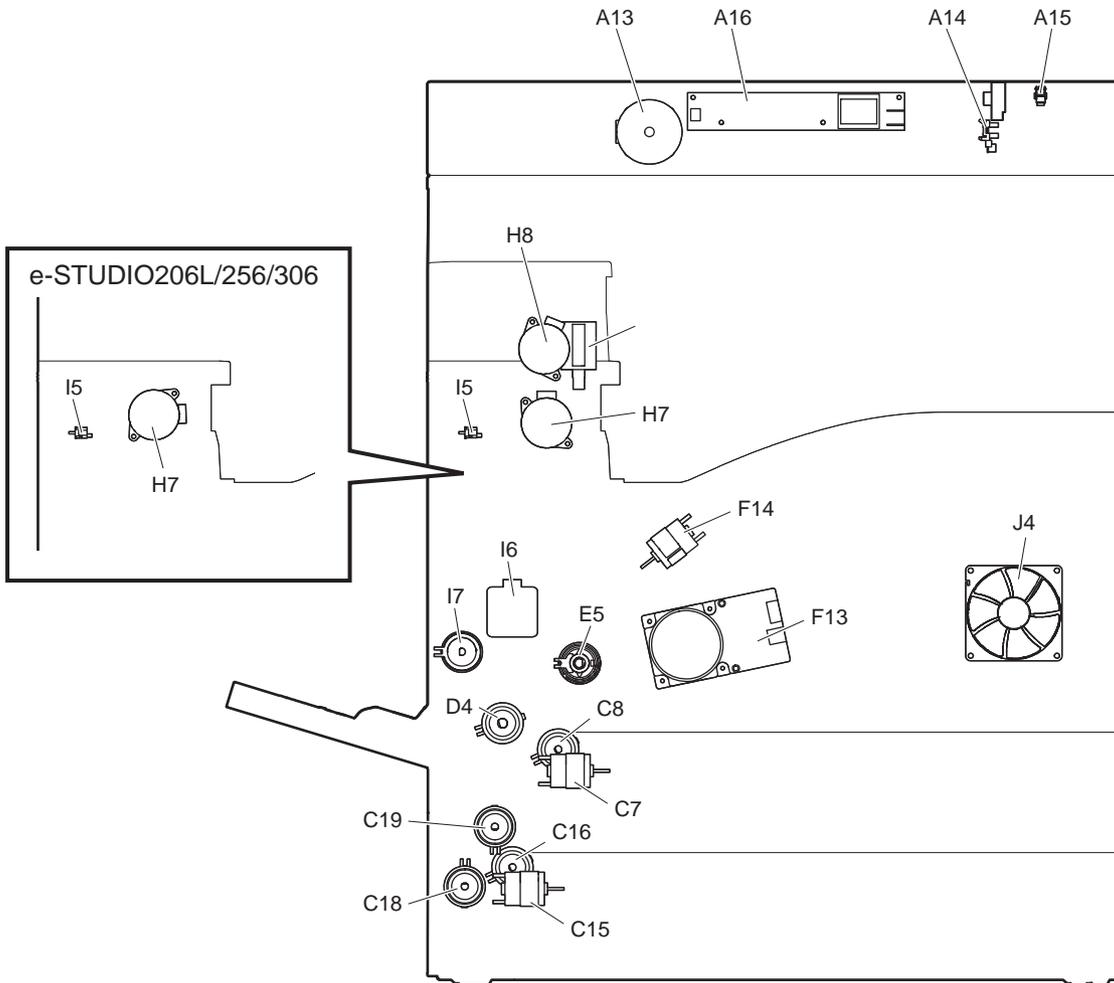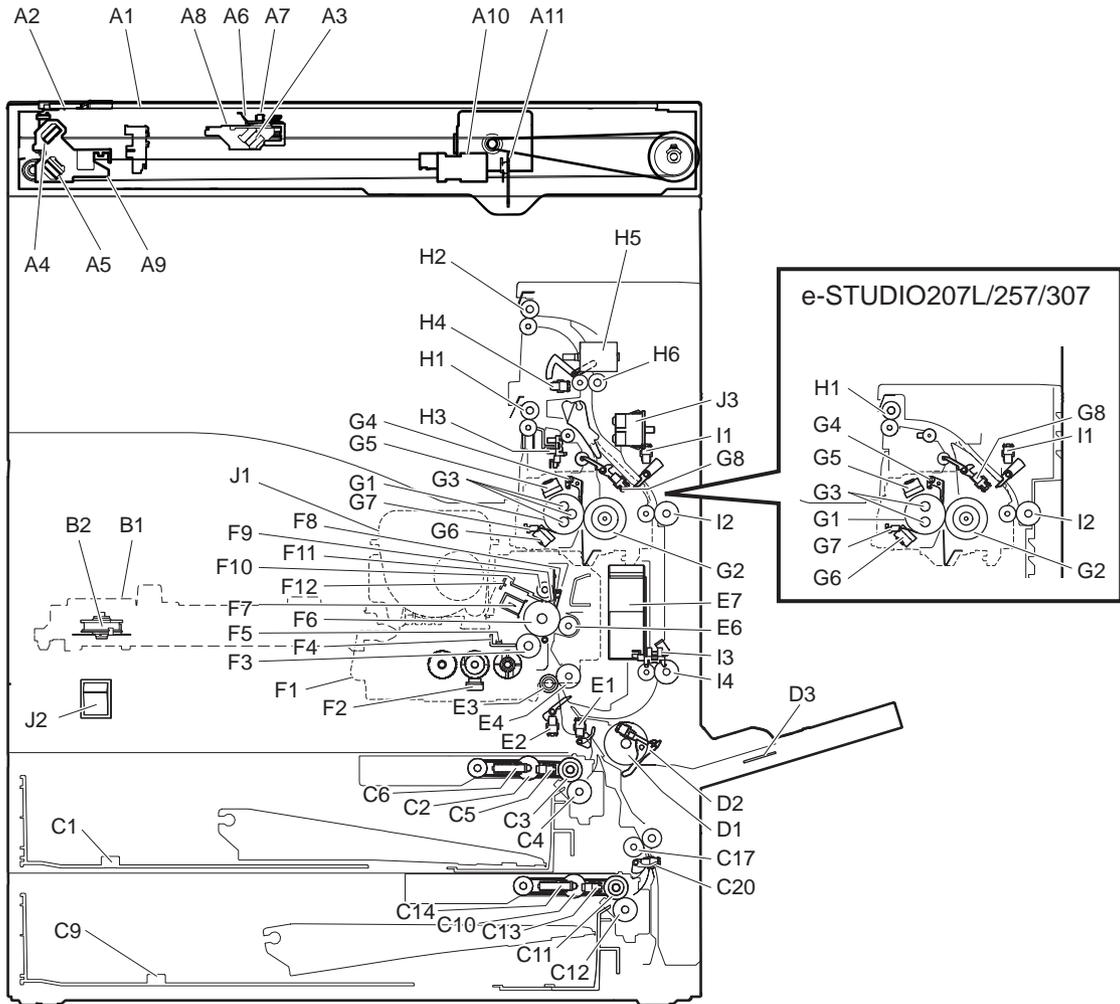
Fig. 3-3
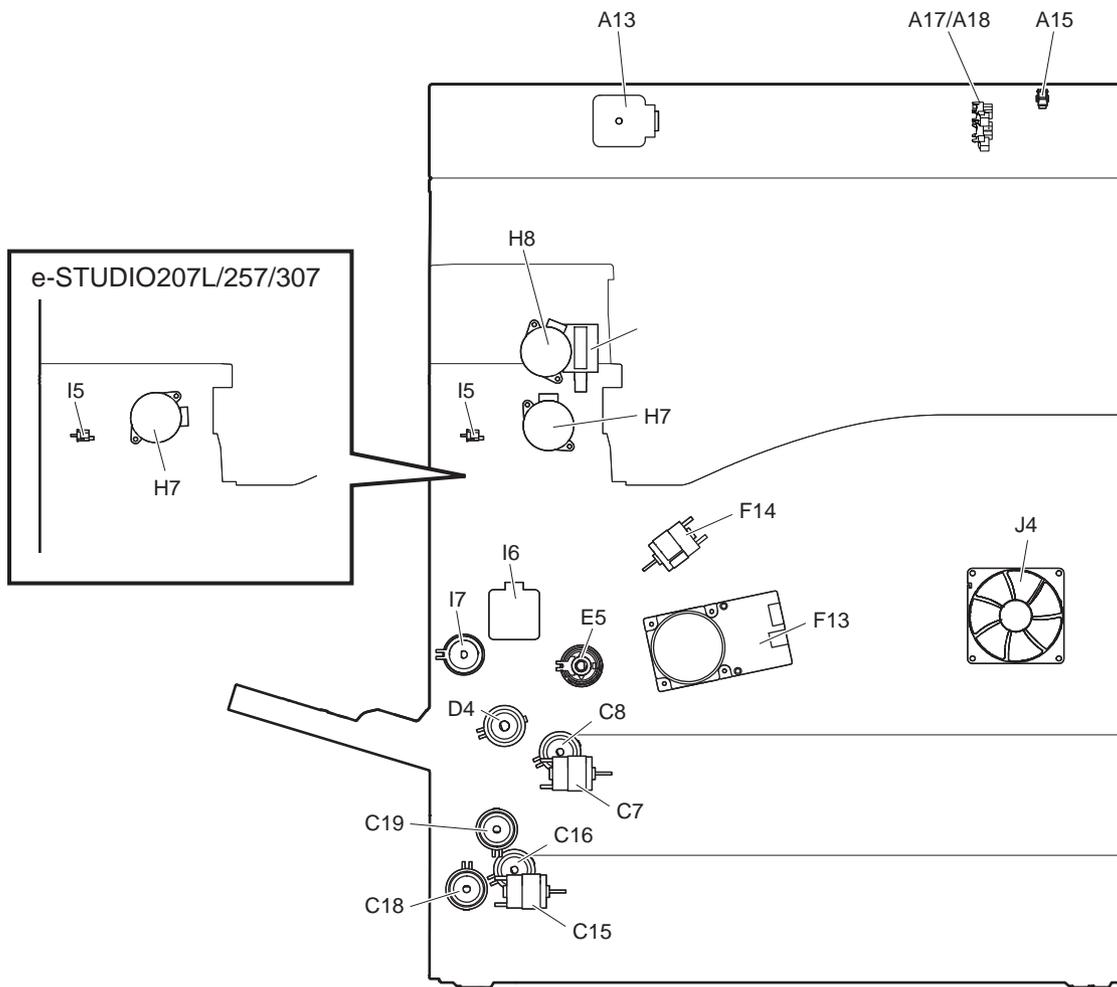
Fig. 3-4

A1	Original glass	E4	Registration roller (metal)
A2	RADF original glass	E5	Registration roller clutch
A3	Mirror-1	E6	Transfer roller
A4	Mirror-2	E7	TRU fan
A5	Mirror-3	F1	Developer unit
A6	Reflector	F2	Auto-toner sensor
A7	Exposure lamp	F3	Developer sleeve (magnetic roller)
A8	Carriage-1	F4	Doctor blade
A9	Carriage-2	F5	Drum thermistor
A10	Lens	F6	Drum
A11	CCD driving PC board (CCD board)	F7	Main charger
A12	Scanning section control PC board (SLG board)	F8	Separation finger for drum
A13	Scan motor	F9	Recovery blade
A14	Platen sensor	F10	Cleaning blade
A15	Carriage home position sensor	F11	Toner recovery auger
A16	Inverter board / LED board	F12	Discharge LED
A17	Platen sensor-1	F13	Main motor
A18	Platen sensor-2	F14	Toner motor
B1	Laser optical unit	G1	Heat roller
B2	Polygonal motor	G2	Pressure roller
C1	Upper drawer	G3	Heater lamp (center/side)
C2	Upper drawer pickup roller	G4	Separation finger for heat roller
C3	Upper drawer feed roller	G5	Fuser center thermostat
C4	Upper drawer separation roller	G6	Fuser front thermostat
C5	Upper drawer tray-up sensor	G7	Center/side/edge thermistor
C6	Upper drawer empty sensor	G8	Exit sensor
C7	Upper tray-up motor	H1	Exit roller
C8	Upper drawer feed clutch	H2	Reverse exit roller
C9	Lower drawer	H3	Offset gate home position sensor
C10	Lower drawer pickup roller	H4	Reverse sensor
C11	Lower drawer feed roller	H5	Offset gate motor
C12	Lower drawer separation roller	H6	Upper transport roller
C13	Lower drawer tray-up sensor	H7	Exit motor
C14	Lower drawer empty sensor	H8	Reverse motor
C15	Lower tray-up motor	H9	Reverse gate solenoid
C16	Lower drawer feed clutch	I1	ADU entrance sensor
C17	transport roller	I2	ADU upper transport roller
C18	Low speed transport clutch	I3	ADU exit sensor
C19	High speed transport clutch	I4	ADU lower transport roller
C20	2nd transport sensor	I5	ADU opening/closing switch
D1	Bypass feed roller	I6	ADU motor
D2	Bypass paper sensor	I7	ADU clutch
D3	Paper size detection board	J1	Toner cartridge
D4	Bypass feed clutch	J2	Main power switch
E1	1st transport sensor	J3	ADU interlock switch
E2	Registration sensor	J4	Switching regulator cooling fan
E3	Registration roller (rubber)		

3.2 Electric Parts Layout

1. Scanner unit, control panel
   e-STUDIO206L/256/306/356/456/506

Fig. 3-5

e-STUDIO207L/257/307/357/457/507
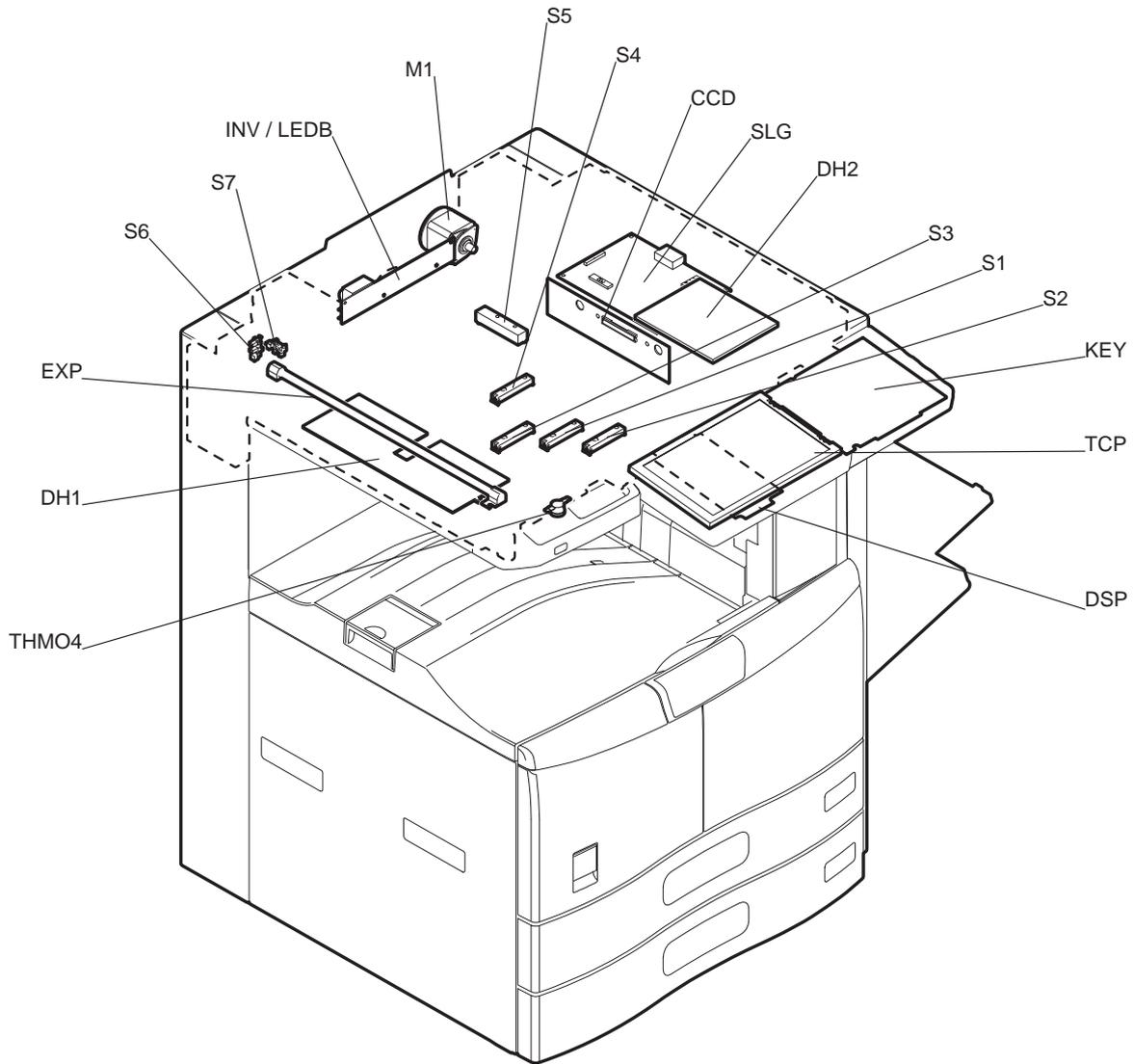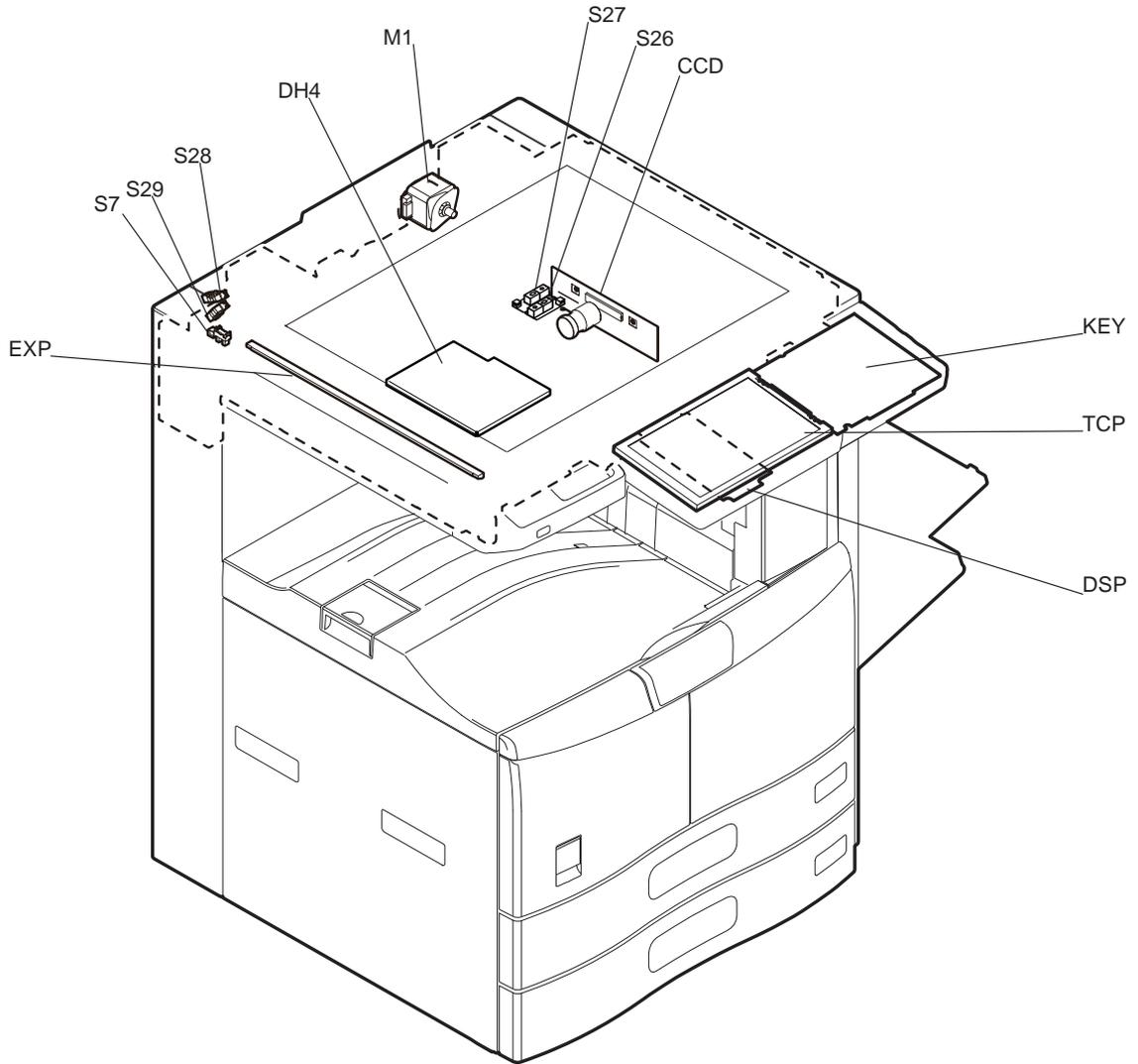
Fig. 3-6

2. Power supply, developer unit
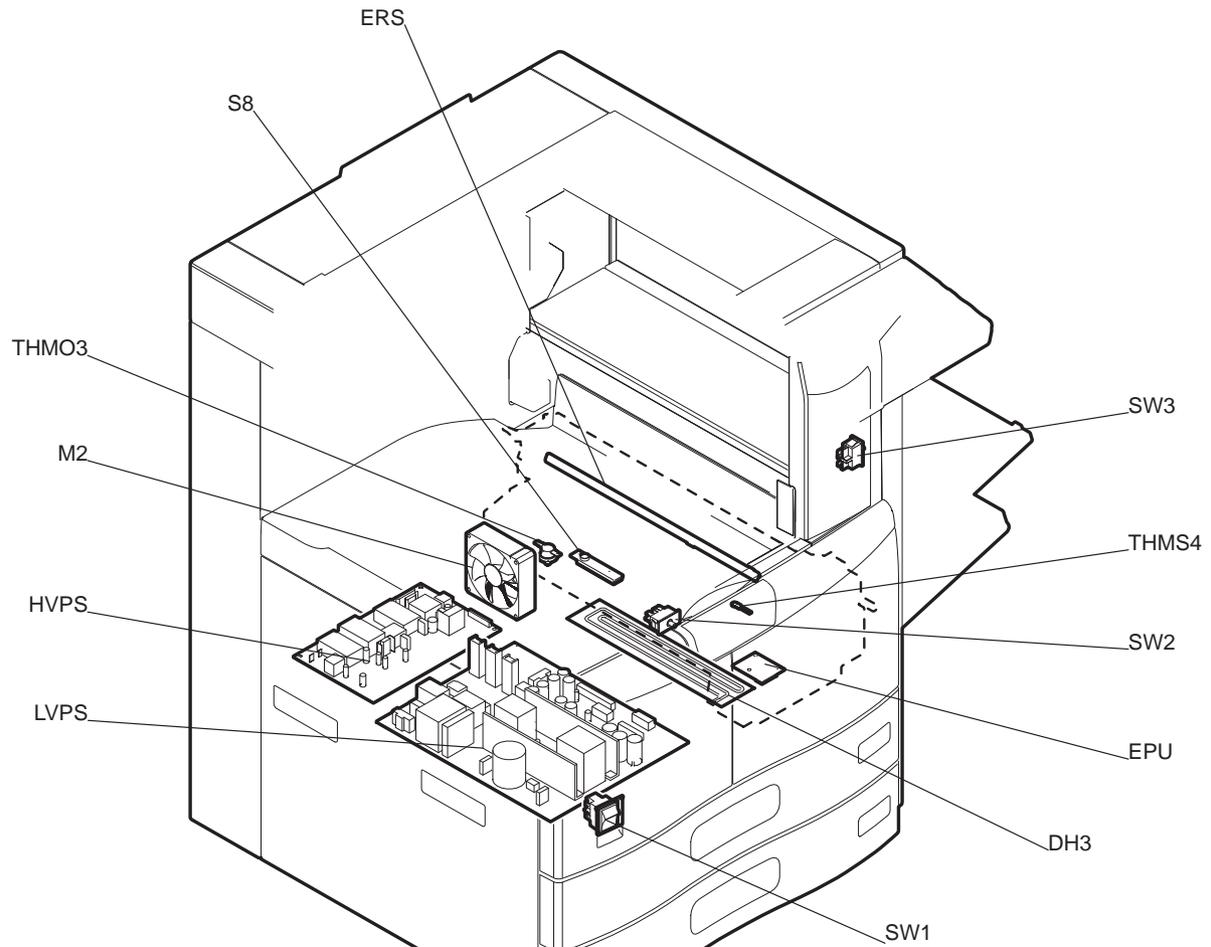
Fig. 3-7

3. Laser unit, fuser unit, toner cartridge
   e-STUDIO206L/256/306/356/456/506

Fig. 3-8

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
OUTLINE OF THE MACHINE

3 - 9
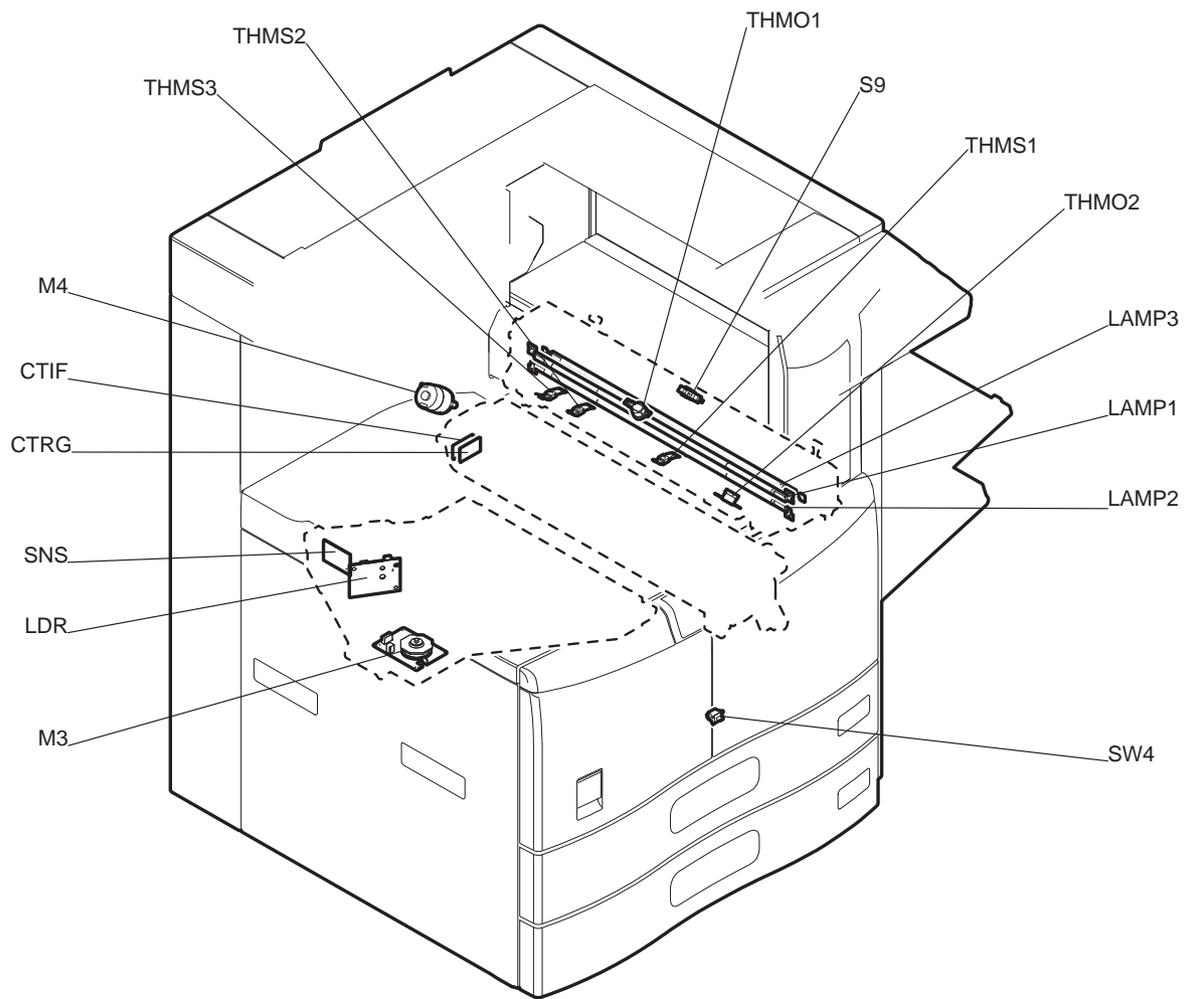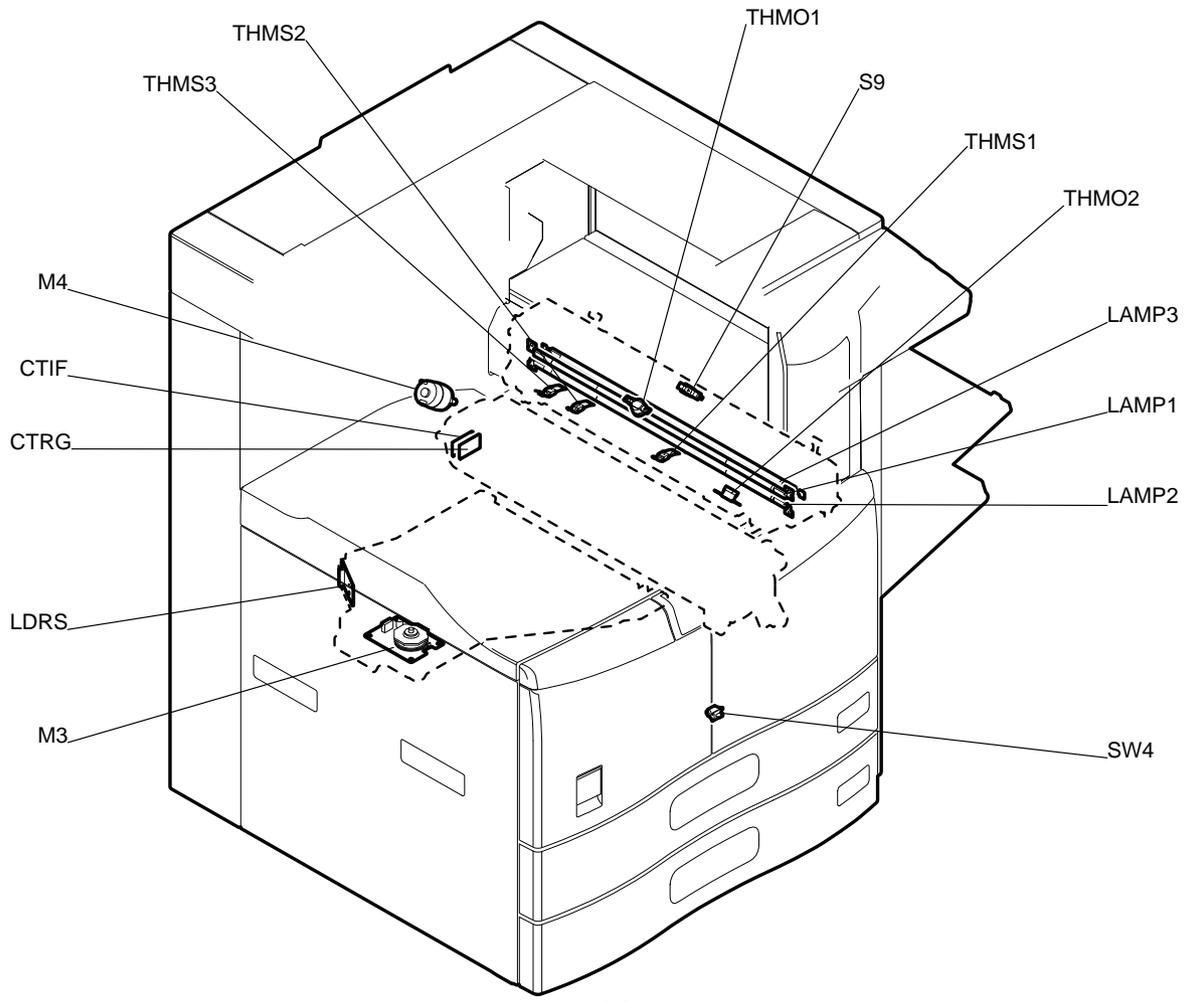
Fig. 3-9

4. Drive unit
   e-STUDIO206L/256/306

Fig. 3-10

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
OUTLINE OF THE MACHINE

e-STUDIO356/456/506

SYS

HDD

MOT2

M6

M5

LGC

M8

S25

M7

FUS

Fig. 3-11

e-STUDIO207L/257/307

SYS

M6

MOT

LGC

M5

HDD

M8

S25

M7

FUS

Fig. 3-12

3

e-STUDIO357/457/507

SYS

M6

LGC

HDD

M8

S25

MOT2

M5

M7

FUS
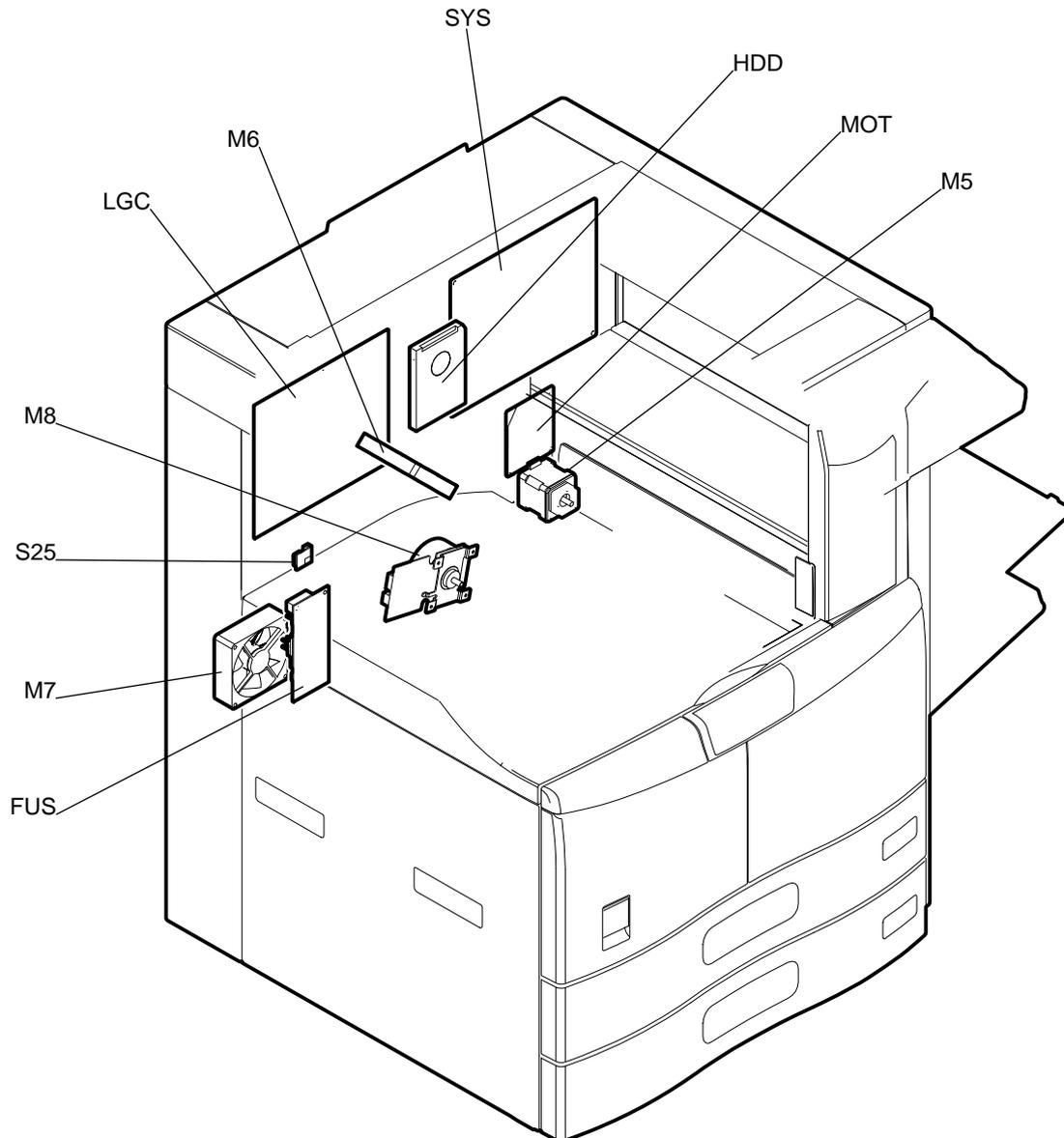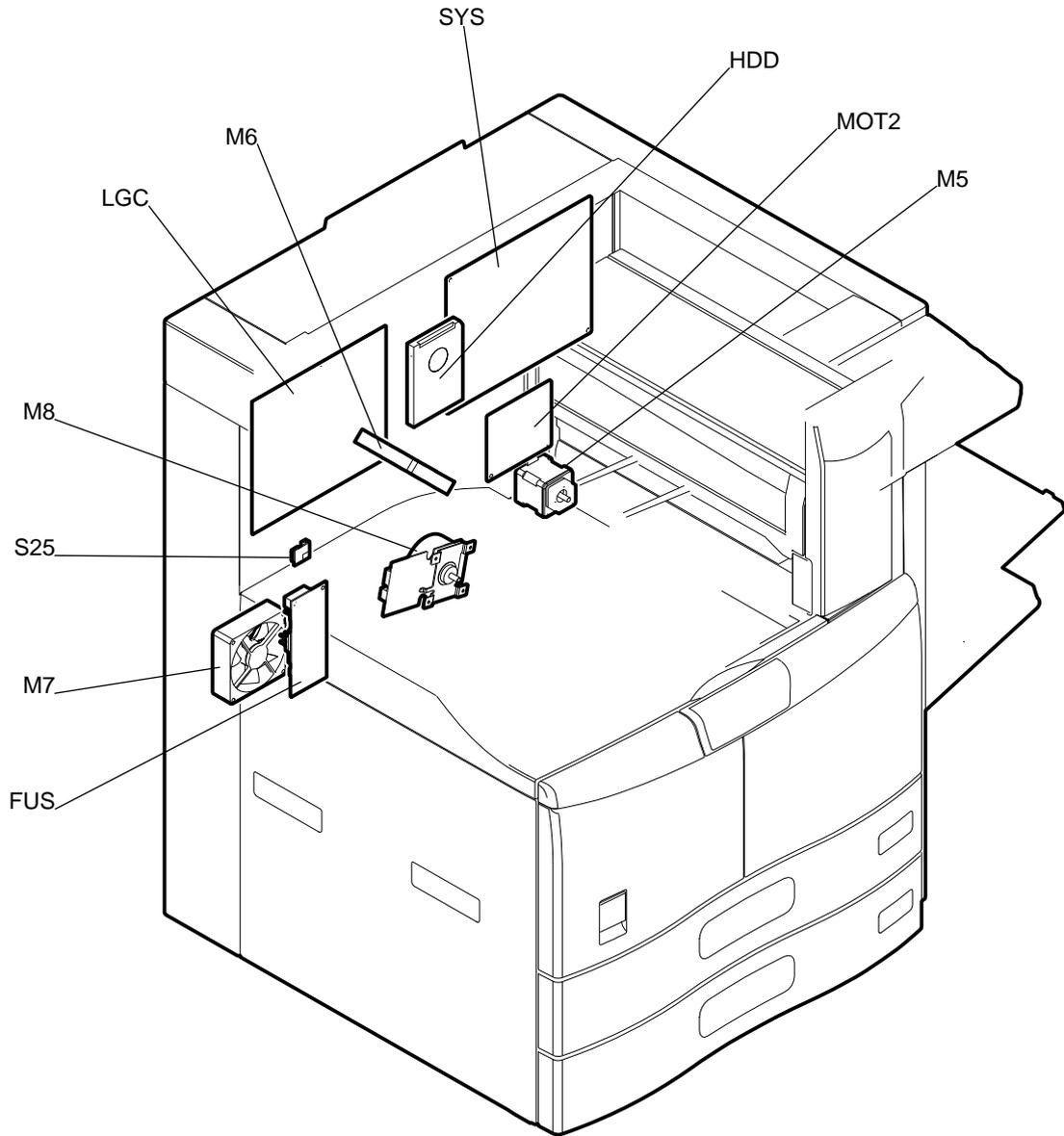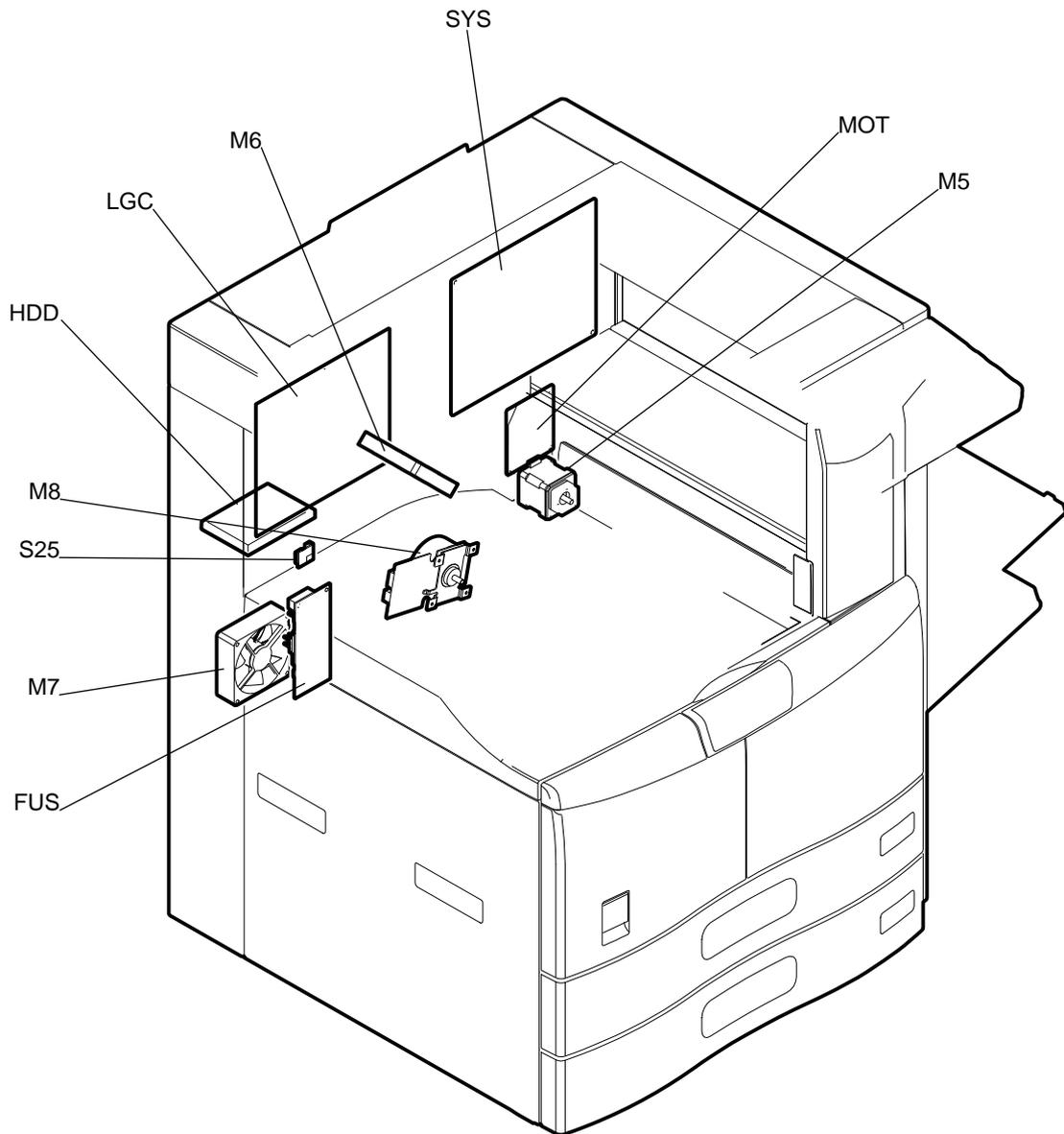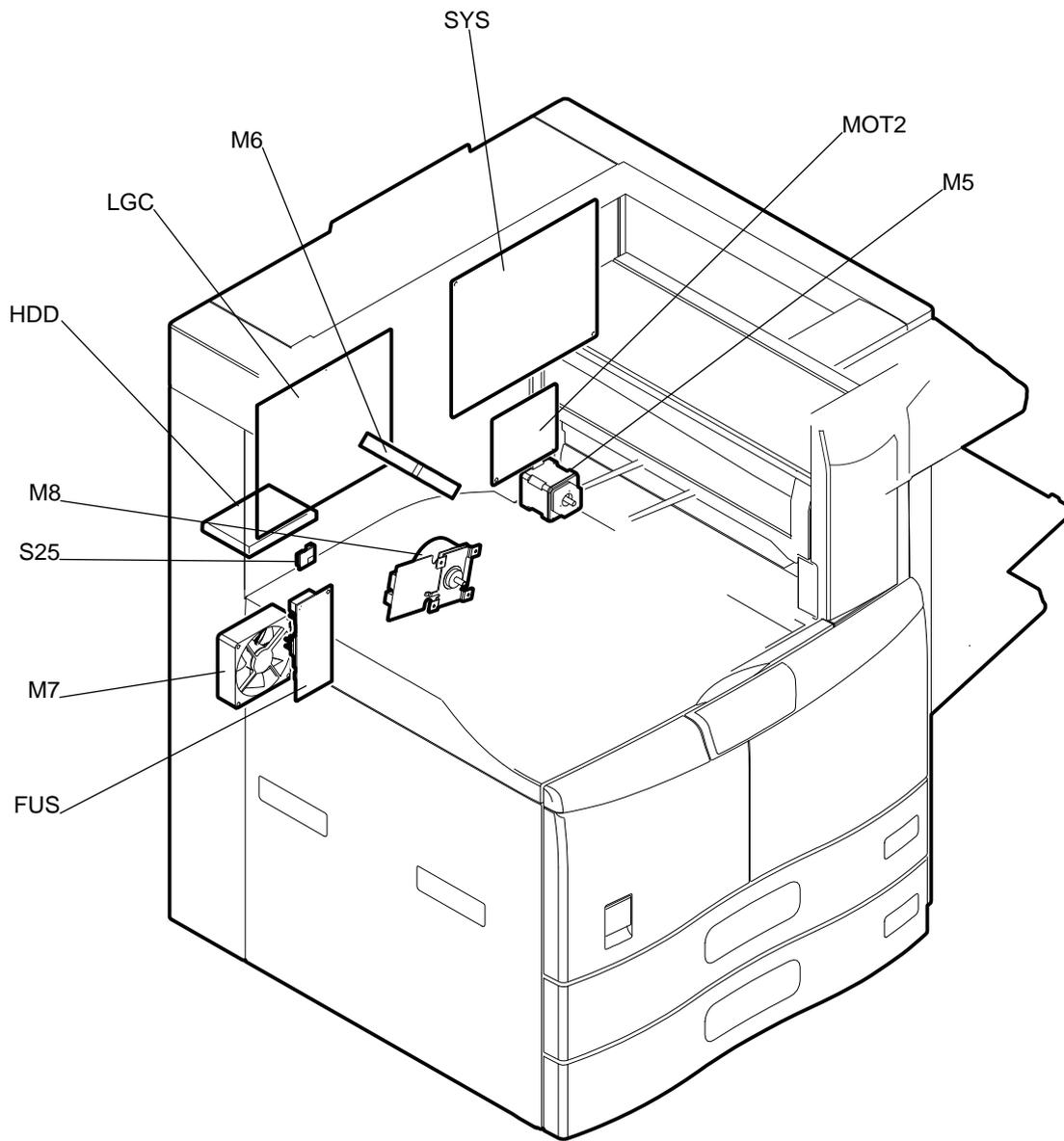
Fig. 3-13

5. Automatic duplexing unit, transfer unit, exit unit
   e-STUDIO206L/256/306 / 207L/257/307

Fig. 3-14

e-STUDIO356/456/506 / 357/457/507

SW5

SOL1

M14

M10

S11

S24

S23

M9

CLT1

CLT2

M13

S21

S10

S22
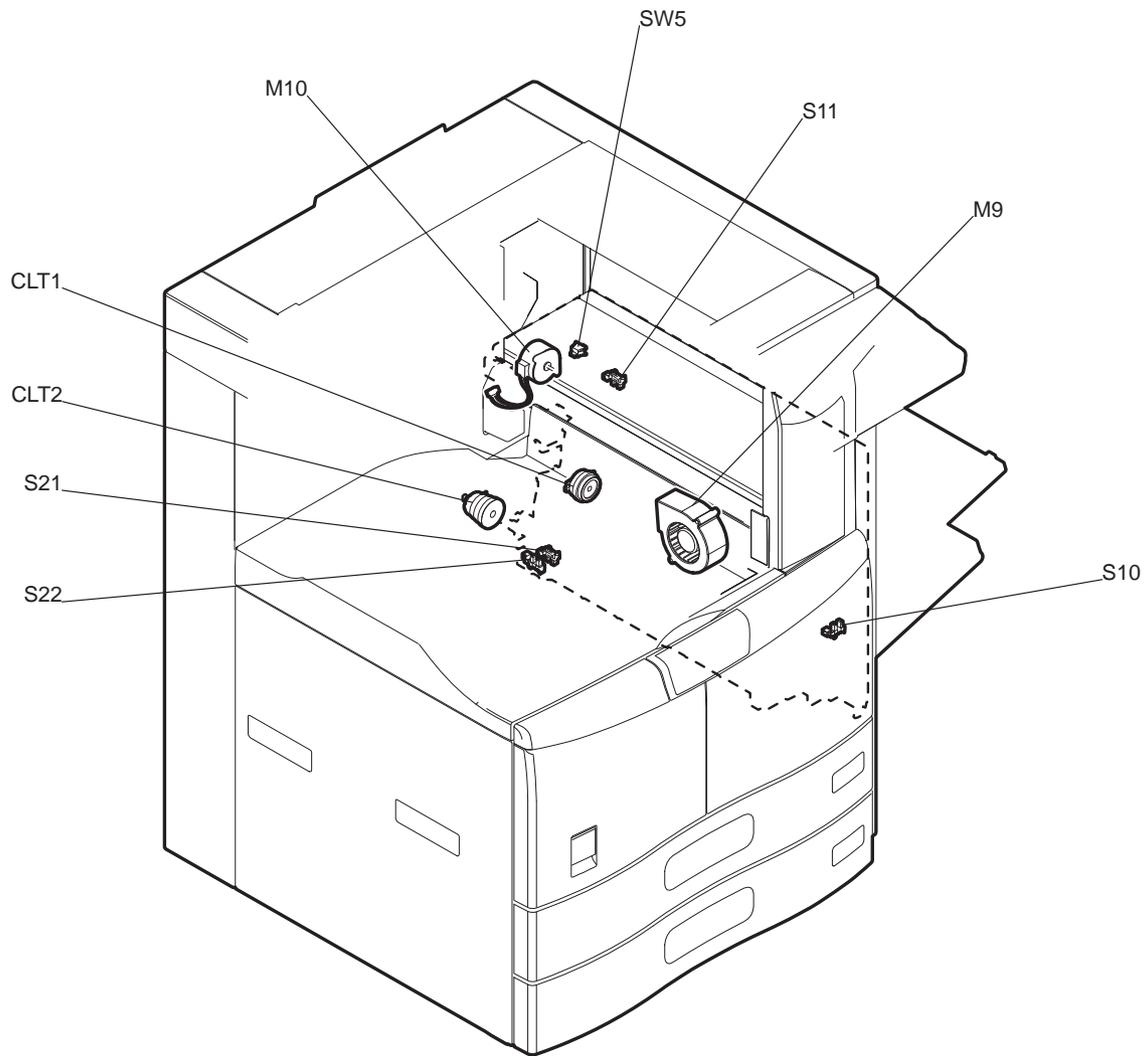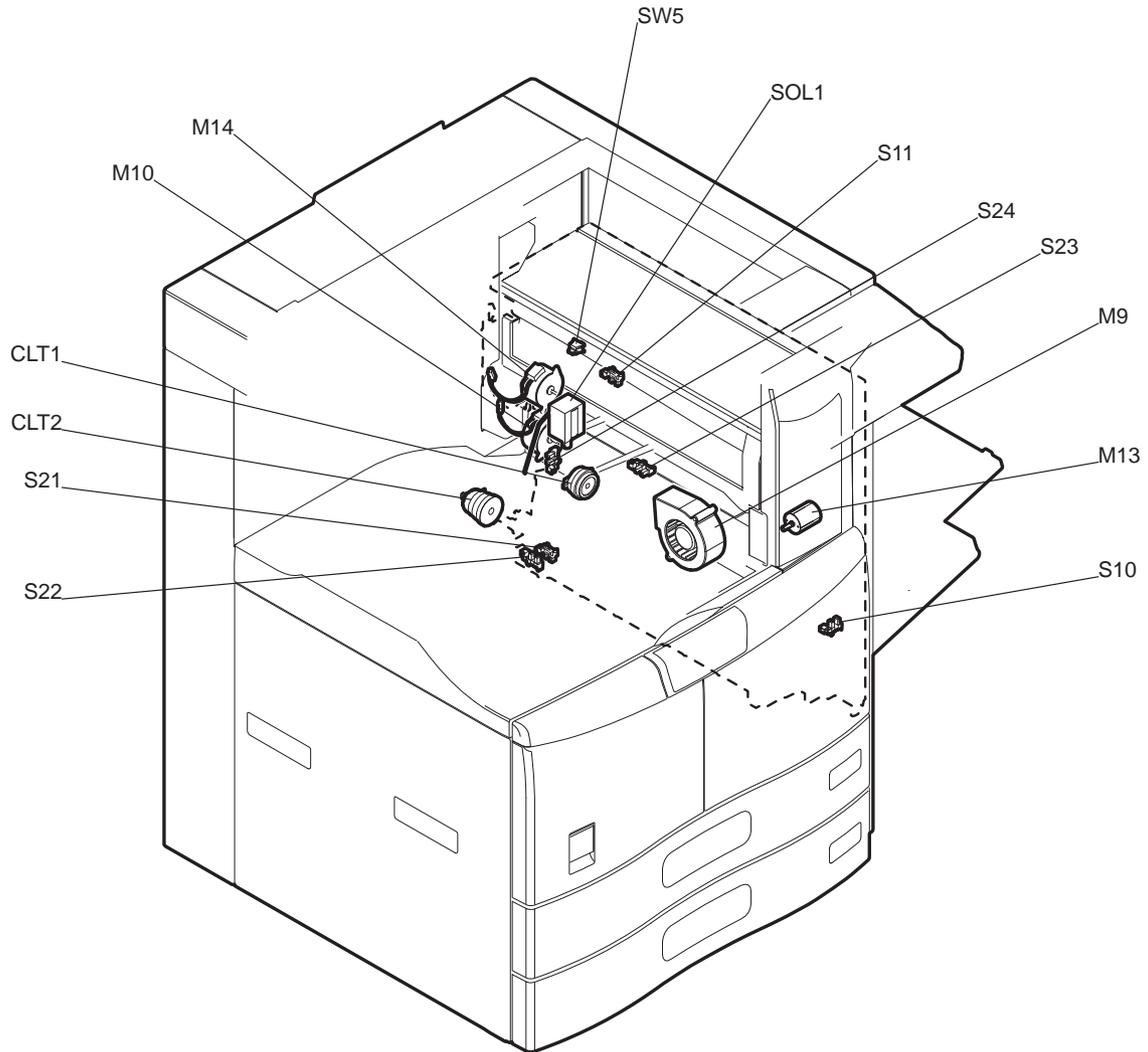
Fig. 3-15

6. Bypass feed unit

CLT3

SFB

S12
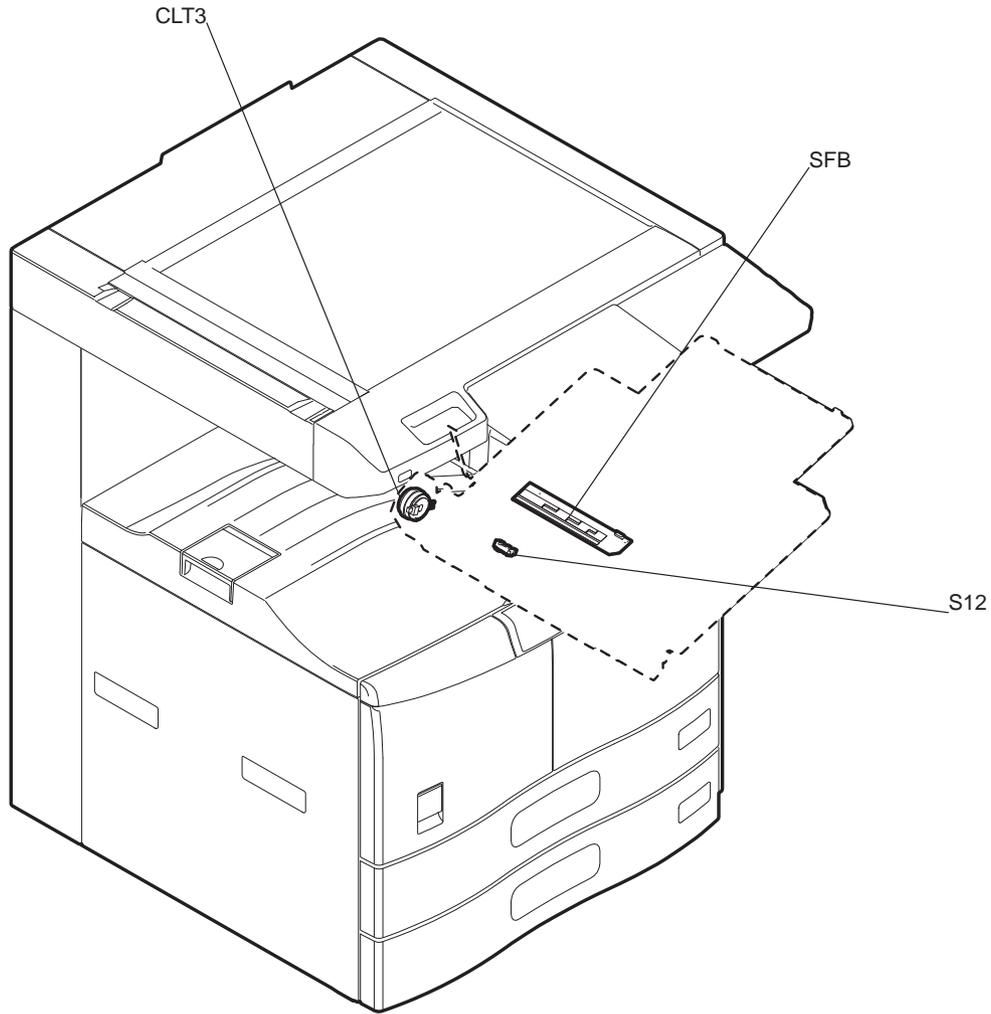
Fig. 3-16

7. Drawer unit
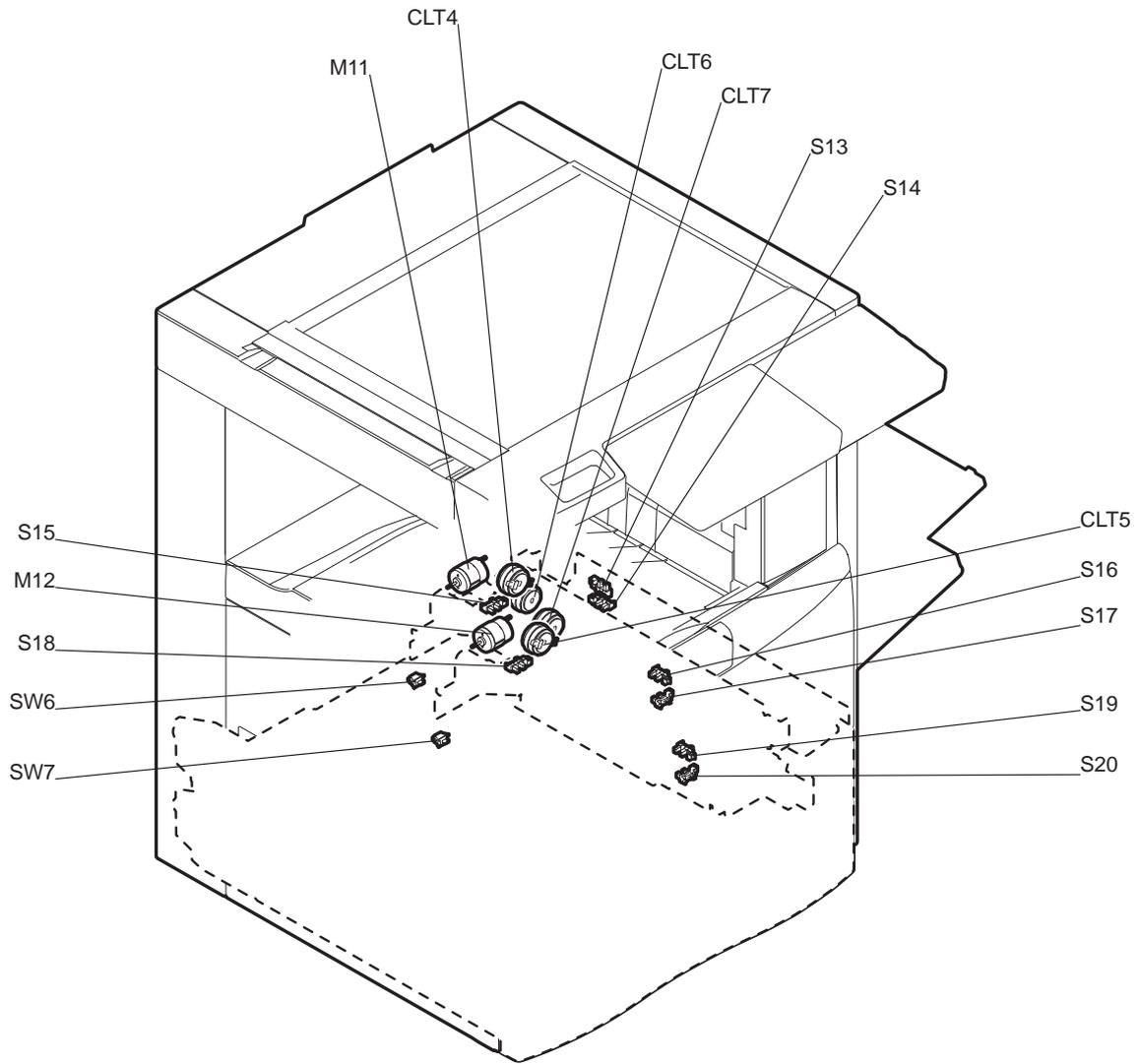
Fig. 3-17

3.3   Symbols and Functions of Various Components

The column "P-I" shows the page and item number in the parts list.

3.3.1   Motors

Symbol	Name	Function	Remarks	P-I
M1	SCAN-MOT Scan motor	Driving the carriages	Fig. 3-5	15-14
M2	PU-FAN Process unit fan	Cooling down the process unit	Fig. 3-7	1-25
M3	POL-MOT Polygonal motor	Driving the polygonal mirror	Fig. 3-8	11-1
M4	TNR-MOT Toner motor	Transporting toner from the toner cartridge to the developer unit	Fig. 3-8	14-29
M5	ADU-MOT ADU motor	Driving the automatic duplexing unit	Fig. 3-10 Fig. 3-11	8-1
M6	SYS-FAN-MOT SYS/HDD cooling fan	Cooling down the SYS board and hard disk	Fig. 3-10 Fig. 3-11	9-3
M7	POW-FAN Switching regulator cooling fan	Cooling down the High-voltage transformer and switching regulator	Fig. 3-10 Fig. 3-11	4-14
M8	MAIN-MOT Main motor	Driving the drum, developer unit, fuser unit, registration roller, transport rollers, feed rollers and pickup rollers	Fig. 3-10 Fig. 3-11	14-21
M9	TRU-FAN TRU fan	Assisting the paper separation process	Fig. 3-14 Fig. 3-15	13-9
M10	EXIT-MOT Exit motor	Driving the exit roller	Fig. 3-14 Fig. 3-15	33-18
M11	TRAY-U-MOT Upper tray-up motor	Driving the lifting movement of trays in upper drawer	Fig. 3-17	7-18
M12	TRAY-L-MOT Lower tray-up motor	Driving the lifting movement of trays in lower drawer	Fig. 3-17	7-18
M13	OCT-GT-MOT offset gate motor	Driving the offset gate * e-STUDIO356/456/ 506 / 357/457/ 507 only	Fig. 3-15	34-24
M14	REV-MOT Reverse motor	Driving the reverse roller * e-STUDIO356/456/506 / 357/457/ 507 only	Fig. 3-15	34-22

3.3.2   Sensors and switches

Symbol	Name	Function	Remarks	P-I
S1-5	APS1-3, APS-C, APS-R Automatic original detection sensor	Original size detection * e-STUDIO206L/256/356/456/506 only	Fig. 3-5	S1-4: 12-16 S5: 12-17
S6	PLTN-SNR Platen sensor	Opening/closing detection of original cover or RADF * e-STUDIO206L/256/356/456/506 only	Fig. 3-5	15-31
S7	HOME-SNR Carriage home position sensor	Carriage home position detection	Fig. 3-5	12-25

Symbol	Name	Function	Remarks	P-I
S8	ATTNR-SNR Auto-toner sensor	Detecting the density of toner in the developer unit	Fig. 3-7	28-20
S9	EXIT-SW Exit sensor	Detecting the transporting paper at the exit section	Fig. 3-8	31-27
S10	ADU-TR1-SNR ADU exit sensor	Detecting the transporting paper in automatic duplexing unit	Fig. 3-14 Fig. 3-15	35-15
S11	ADU-TR2-SNR ADU entrance sensor	Detecting the transporting paper at automatic duplexing unit entrance section	Fig. 3-14 Fig. 3-15	35-15
S12	SFB-EMP-SNR Bypass paper sensor	Detecting presence/absence of paper on the bypass tray	Fig. 3-16	35-15
S13	FEED-COV-SNR Feed cover opening/closing sensor	Feed cover opening/closing detection	Fig. 3-17	18-6
S14	2ND-FEED-SNR 2nd transport sensor	Detecting the transport paper and jamming fed from the lower drawer or PFP/LCF	Fig. 3-17	18-6
S15	NEAR-EMP-U-SNR Upper drawer paper stock sensor	Paper amount detection in the upper drawer	Fig. 3-17	16-18
S16	TOP-U-SNR Upper drawer tray-up sensor	Position detection of the lifting tray of the upper drawer	Fig. 3-17	16-18
S17	EMP-U-SNR Upper drawer empty sensor	Paper presence/absence detection in the upper drawer	Fig. 3-17	16-18
S18	NEAR-EMP-L-SNR Lower drawer paper stock sensor	Paper amount detection in the lower drawer	Fig. 3-17	16-18
S19	TOP-L-SNR Lower drawer tray-up sensor	Position detection of the lifting tray of the lower drawer	Fig. 3-17	16-18
S20	EMP-L-SNR Lower drawer empty sensor	Paper presence/absence detection in the lower drawer	Fig. 3-17	16-18
S21	1ST-FEED-SNR 1st transport sensor	Detecting the transporting paper and jamming fed from the bypass, drawer, ADU	Fig. 3-14 Fig. 3-15	21-14
S22	RGST-SNR Registration sensor	Detecting the paper transport at the registration roller section	Fig. 3-14 Fig. 3-15	21-14
S23	REV-SNR Reverse sensor	Detecting the transporting paper at the reverse section * e-STUDIO356/456/506 / 357/457/507 only	Fig. 3-15	34-2
S24	OCT-HOME-SNR Offset gate home position sensor	Offset gate home position detection * e-STUDIO356/456/506 / 357/457/507 only	Fig. 3-15	33-25
S25	TEMP/HUMI-SNR Temperature/humidity sensor	Detecting the temperature and humidity of the outside air taken into the equipment	Fig. 3-10 Fig. 3-11	4-16
S26	APS1 Automatic original detection sensor-1	Detecting original size * e-STUDIO207L/257/357/457/507 only	Fig. 3-10 Fig. 3-11	-
S27	APS2 Automatic original detection sensor-2	Detecting original size (for LT size) * e-STUDIO207L/257/357/457/507 only	Fig. 3-10 Fig. 3-11	-

Symbol	Name	Function	Remarks	P-I
S28	PLTN-SNR1 Platen sensor-1	Detecting the opening/closing status of the platen cover or RADF * e-STUDIO207L/257/357/457/507 only	Fig. 3-10 Fig. 3-11	-
S29	PLTN-SNR2 Platen sensor-2	Detecting the opening/closing status of the platen cover or RADF * e-STUDIO207L/257/357/457/507 only	Fig. 3-10 Fig. 3-11	-
SW1	MAIN-SW Main power switch	Turning ON/OFF of the equipment	Fig. 3-7	4-3
SW2	FRNT-COV-INTLCK-SW Front cover interlock switch	Supplying or shutting off AC power to the switching regulator (voltage-generating circuit interlocked with these covers) according to the opening/closing status of the front cover (Cover open: Shut off)	Fig. 3-7	1-11
SW3	ADU-INTLCK-SW ADU interlock switch	Supplying or shutting off AC power to the switching regulator (voltage-generating circuit interlocked with these covers) according to the opening/closing status of the automatic duplexing unit (Cover open: Shut off)	Fig. 3-7	5-18
SW4	FRONT-COV-SW Front cover switch	Detecting opening/closing of the front cover	Fig. 3-8	1-4
SW5	ADU-COV-SW ADU opening/closing switch	Detecting opening/closing of the automatic duplexing unit	Fig. 3-14 Fig. 3-15	8-31
SW6	CST-U-SW Upper drawer detection switch	Detecting presence/absence of the upper drawer	Fig. 3-17	9-33
SW7	CST-L-SW Lower drawer detection switch	Detecting presence/absence of the lower drawer	Fig. 3-17	9-33

3.3.3 Electromagnetic clutches

Symbol	Name	Function	Remarks	P-I
CLT1	ADU-CLT ADU clutch	Driving the transport roller of the automatic duplexing unit	Fig. 3-14 Fig. 3-15	35-9
CLT2	RGST-CLT Registration roller clutch	Driving the registration roller	Fig. 3-14 Fig. 3-15	21-17
CLT3	SFB-CLT Bypass feed clutch	Driving the bypass feed roller	Fig. 3-16	20-7
CLT4	CST-U-FEED-CLT Upper drawer feed clutch	Driving the upper drawer pickup roller	Fig. 3-17	16-5
CLT5	CST-L-FEED-CLT Lower drawer feed clutch	Driving the lower drawer pickup roller	Fig. 3-17	16-5
CLT6	TR-U-CLT High speed transport clutch	Driving with high speed for the transport roller	Fig. 3-17	7-21
CLT7	TR-M-CLT Low speed transport clutch	Driving with low speed for the transport roller	Fig. 3-17	7-21

3.3.4 Solenoids

Symbol	Name	Function	Remarks	P-I
SOL1	REV-SOL Reverse gate solenoid	Changing the paper transport route at the exit section * e-STUDIO356/456/506 / 357/457/507 only	Fig. 3-15	34-28

3.3.5 PC boards

Symbol	Name	Function	Remarks	P-I
CCD	PWA-F-CCD CCD driving PC board (CCD board)	Controlling CCD and outputting the analog signal	Fig. 3-5	12-13
CTIF	PWA-F-CTIF Toner cartridge interface PC board (CTIF board)	Interface for detecting the toner cartridge (Detecting the CTRG board)	Fig. 3-8	---
CTRG	PWA-F-CTRG Toner cartridge PC board (CTRG board)	Storing the status of the toner cartridge	Fig. 3-8	---
DSP	PWA-F-DSP Display PC board (DSP board)	Controlling the whole control panel	Fig. 3-5	3-24
EPU	PWA-F-EPU EPU memory board (EPU board)	Determining the used status of the developer unit (EPU) (Determining whether a unit is new or used) (Service management required)	Fig. 3-7	28-21
FUS	PWA-F-FUS Fuse PC board (FUS board)	Supplying the power to each damp heater	Fig. 3-10 Fig. 3-11	10-1
KEY	PWA-F-KEY Key control PC board (KEY board)	Controlling the key switches and LEDs	Fig. 3-5	3-25
LDR	PWA-F-LDR Laser driving PC board (LDR board)	Driving the laser diode * e-STUDIO206L/256/306/356/456/506 only	Fig. 3-8	11-1
LGC	PWA-F-LGC Logic PC board (LGC board)	Controlling the print engine section	Fig. 3-10 Fig. 3-11	9-13
MOT	PWA-F-MOT MOT board	Driving the automatic duplexing unit and exit section * e-STUDIO206L/256/306 / 207L/257/307 only	Fig. 3-10	14-22
MOT2	PWA-F-MOT2 MOT2 board	Driving the automatic duplexing unit, exit section, and paper handling option * e-STUDIO356/456/506 / 357/457/507 only	Fig. 3-11	14-22
SFB	PWA-F-SFB Paper size detection board	Detecting the width of paper on the bypass tray	Fig. 3-16	19-13
SLG	PWA-F-SLG Scanning section control PC board (SLG board)	Controlling the original scanning section * e-STUDIO206L/256/306/356/456/506 only	Fig. 3-5	12-12
SNS	PWA-F-SNS H-sync signal detection PC board (SNS board)	Detection of the laser beam position * e-STUDIO206L/256/306/356/456/506 only	Fig. 3-8	11-1
SYS	PWA-F-SYS System control PC board (SYS board)	Controlling the whole system and image processing	Fig. 3-10 Fig. 3-11	9-10

Symbol	Name	Function	Remarks	P-I
LDRS	PWA-F-LDRS Laser driving / H-sync signal detection PC board (LDRS board)	Driving the laser diode, and Detection of the laser beam position * e-STUDIO207L/257/307/357/457/507 only	Fig. 3-**	9-**

3.3.6　Lamps and heaters

Symbol	Name	Function	Remarks	P-I
DH1	SCN-L-DH Scanner damp heater (Left)	Preventing condensation of the mirrors of the carriages * e-STUDIO206L/256/306/356/456/506 only	Fig. 3-5	12-20
DH2	SCN-R-DH Scanner damp heater (Right)	Preventing condensation of the lens * e-STUDIO206L/256/306/356/456/506 only	Fig. 3-5	12-18
DH3	DRM-DH Drum damp heater	Preventing condensation of the drum	Fig. 3-7	5-20
DH4	SCN-DH Scanner damp heater	Preventing condensation of the mirrors of the carriages * e-STUDIO207L/257/307/357/457/507 only	Fig. 3-6	
ERS	LP-ERS Discharge LED	Removing the residual charge from the drum surface	Fig. 3-7	27-32
EXP	LP-EXPO Exposure lamp	Exposing the original to the light (Xenon lamp / LED) * e-STUDIO206L/256/306/356/456/506: There are xenon lamp model and LED model. * e-STUDIO207L/257/307/357/457/507: LED model only	Fig. 3-5	23-3
LAMP1	CNTR-LAMP Center heater lamp	Heating the center section of fuser roller	Fig. 3-8	31-19
LAMP2	SIDE-LAMP Side heater lamp	Heating the section of both sides of fuser roller	Fig. 3-8	31-20
LAMP3	LAMP-TRIPLE Sub heater lamp	Sub heating of the fuser roller * e-STUDIO356/456/506 / 357/457/507 only	Fig. 3-8	31-21

3.3.7　Thermistors and thermostats

Symbol	Name	Function	Remarks	P-I
THMO1	THERMO-FSR-C Fuser center thermostat	Preventing overheating in the fuser unit	Fig. 3-8	31-13
THMO2	THERMO-FSR-F Fuser front thermostat	Preventing overheating in the fuser unit	Fig. 3-8	31-26
THMO3	THERMO-DRM-DH Drum damp heater thermostat	Controlling the temperature of the drum damp heater	Fig. 3-7	5-21
THMO4	THERMO-SCN-DH Scanner damp heater thermostat	Controlling the temperature of the scanner damp heater	Fig. 3-5	12-22
THMS1	THMS-C-HTR Center thermistor	Detecting the surface temperature at fuser roller center (for controlling the temperature of the center heater lamp)	Fig. 3-8	31-31

Symbol	Name	Function	Remarks	P-I
THMS2	THMS-S-HTR Side thermistor	Detecting the surface temperature at the rear side of the fuser roller (for controlling the temperature of the side heater lamp)	Fig. 3-8	31-31
THMS3	THMS-EDG-HTR Edge thermistor	Detecting the surface temperature at the edge of the fuser roller (for preventing overheating)	Fig. 3-8	31-31
THMS4	THMS-DRM Drum thermistor	Detecting the temperature at the drum surface	Fig. 3-7	28-22

3.3.8 Transformer

Symbol	Name	Function	Remarks	P-I
HVPS	PS-HVT High-voltage transformer	Generating high-voltage and supplying it to the following sections • Needle electrode • Main charger grid • Developer bias • Transfer bias	Fig. 3-7	10-2

3.3.9 Others

Symbol	Name	Function	Remarks	P-I
TCP	TCP Touch panel	Displaying and entering various kinds of information	Fig. 3-5	3-22 3-23
HDD	HDD Hard disk	Storing the program data and image data	Fig. 3-10 Fig. 3-11	9-6
INV	INV-EXP Inverter board	Controlling the exposure lamp (Xenon lamp) * e-STUDIO206L/256/306/356/456/506 only	Fig. 3-5	15-17
LVPS	PS-ACC Switching regulator	Generating DC voltage and supplying it to each section of the equipment	Fig. 3-7	10-7
LEDB	PWA-LED LED board	Controlling the exposure lamp (LED) * e-STUDIO206L/256/306/356/456/506 only	Fig. 3-5	15-34

3.4 COPY PROCESS

3.4.1 General Description of Copying Process
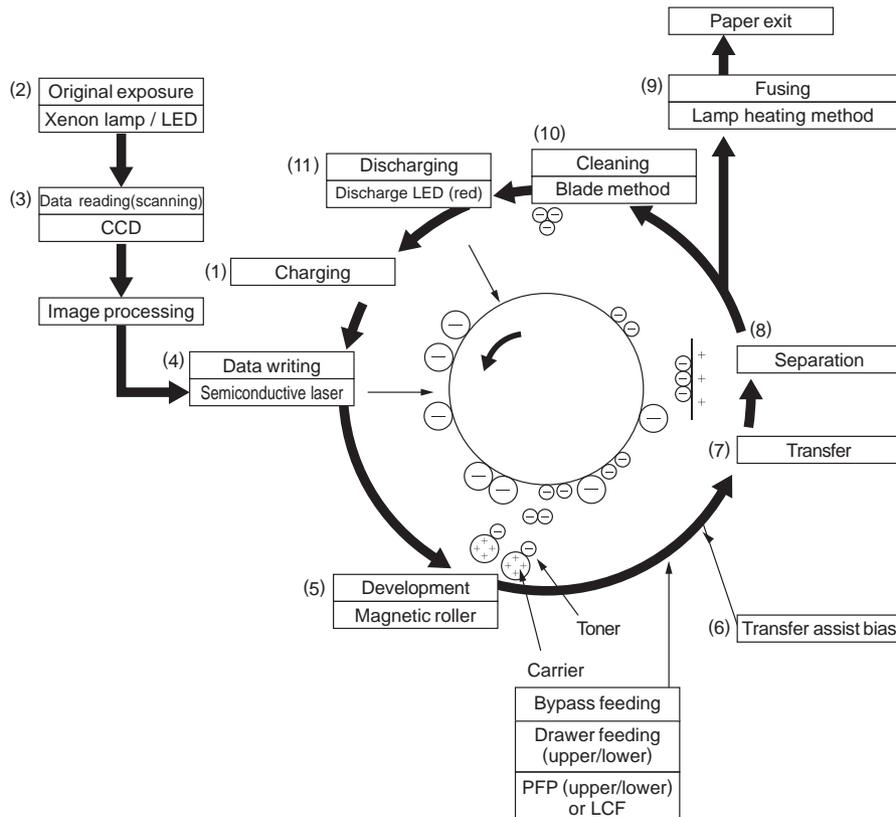
Fig. 3-18

(1) Charging: Applies negative charge on the surface of the photoconductive drum.
↓
(2) Original exposure: Converts images on the original into optical signals.
↓
(3) Data reading: The optical signals are converted into electrical signals.
↓
(4) Data writing: The electrical signals are converted into light signal (laser emission) which exposes the surface of the photoconductive drum.
↓
(5) Development: Negatively-charged toner adheres to the photoconductive drum and forms visible image.
↓
(6) Transfer assist bias: Improves transfer efficiency.
↓

(7) Transfer: Transfers the visible toner image on the photoconductive drum onto paper.
↓
(8) Separation: Separates paper with the toner image from the photoconductive drum.
↓
(9) Fusing: Fuses the toner image onto the paper by applying heat and pressure.
↓
(10) Cleaning: Scrapes off the residual toner from the drum.

↓
(11) Discharging: Eliminates the residual negative charge from the surface of the photoconductive drum.

3.5 Comparison with e-STUDIO205L/255/305/355/455

Process	e-STUDIO205L/255/305/355/455		e-STUDIO206L/256/306/356/456/506	
	e-STUDIO205L/255/305	e-STUDIO355/455	e-STUDIO206L/256/306	e-STUDIO356/456/506
1. Photoconductive drum	OD-4530, OD-4530C (OPC ø30)	← ←	← ←	← ←
• Sensitivity	Highly sensitized/ durable drum	←	←	←
• Surface potential	-508V (Adjustment not required)	←	←	←
2. Charging	Scorotron method (Needle electrode)	←	←	←
• Grid voltage	-502 V (Adjustment not required)	-516 V (Adjustment not required)	-502 V (Adjustment not required)	-516 V (Adjustment not required)
3. Data writing • Light source	Semiconductor laser (Adjustment not required)	←	←	←
• Light amount	4.0nJ/mm^2	4.5nJ/mm^2	4.0nJ/mm^2	4.5nJ/mm^2
4. Development • Magnetic roller	One magnetic roller	←	←	←
• Auto-toner	Magnetic bridge-circuit method	←	←	←
• Toner supply	Toner cartridge	←	←	←
• Toner-empty detection	Density detection method	←	←	←
• Toner	PS-ZT4530 PS-ZT4530A PS-ZT4530C PS-ZT4530D PS-ZT4530T PS-ZT4530E PS-ZT4530C10K	← ← ← ← ← ← ←	PS-ZT4590U PS-ZT4590A PS-ZT4590C PS-ZT4590D PS-ZT4590T PS-ZT4590E PS-ZT4590C10K	← ← ← ← ← ← ←
• Developer material	PS-ZD4530, D-4530C	← ←	← ←	← ←
• Developer bias	DC-377 V Adjustable output AC 1100 V No reverse bias output	← ← ←	← ← ←	← ← ←
5. Transfer • Transfer method • Transfer output	Transfer roller output Adjustable output (Constant current)	← ←	← ←	← ←
• Transfer assist bias	+250V	←	←	←
6. Separation • Separation method	Needle separation method	←	←	←
• Separation output	Adjustable output (Constant current)	←	←	←

OUTLINE OF THE MACHINE

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Process	e-STUDIO205L/255/305/355/455		e-STUDIO206L/256/306/356/456/506	
	e-STUDIO205L/255/305	e-STUDIO355/455	e-STUDIO206L/256/306	e-STUDIO356/456/506
7. Discharge • Discharging position • Discharge LED	Exposure after cleaning 10 red LED's	← 14 red LED's	← 10 red LED's	← 14 red LED's
8. Cleaning • Method • Recovered toner	Cleaning blade Reuse (There is the recovered toner supply mechanism.)	← ←	← ←	← ←
9. Fusing • Method	Long-life fuser roller method • Fuser roller: Thin roller coated with fluoroplastic (ø35) • Pressure roller: PFA tube roller (ø30)	← ← • Pressure roller: PFA tube roller (ø35)	← ← • Pressure roller: PFA tube roller (ø30)	← ← • Pressure roller: PFA tube roller (ø35)
• Cleaning	-	-	-	-
• Heater	Heater lamp (600W x 2) Turned ON/OFF by thermistor	← (600W x 2 + 300W x 1) ←	← (600W x 2) ←	← (600W x 2 + 300W x 1) ←

3

3.6   Comparison with e-STUDIO206L/256/306/356/456/506

Process	e-STUDIO206L/256/306/356/456/506		e-STUDIO207L/257/307/357/457/507	
	e-STUDIO206L/256/306	e-STUDIO356/456/506	e-STUDIO207L/257/307	e-STUDIO357/457/507
1. Photoconductive drum	OD-4530, OD-4530C (OPC ø30)	← ←	← ←	← ←
• Sensitivity	Highly sensitized/ durable drum	←	←	←
• Surface potential	-508V (Adjustment not required)	←	←	←
2. Charging	Scorotron method (Needle electrode)	←	←	←
• Grid voltage	-502 V (Adjustment not required)	-516 V (Adjustment not required)	-547 V (Adjustment not required)	-558 V (Adjustment not required)
3. Data writing • Light source	Semiconductor laser (Adjustment not required)	←	←	←
• Light amount	$4.0nJ/mm^2$	$4.5nJ/mm^2$	$4.25nJ/mm^2$	$4.75nJ/mm^2$
4. Development • Magnetic roller	One magnetic roller	←	←	←
• Auto-toner	Magnetic bridge-circuit method	←	←	←
• Toner supply	Toner cartridge	←	←	←
• Toner-empty detection	Density detection method	←	←	←
• Toner	PS-ZT4590U PS-ZT4590A PS-ZT4590C PS-ZT4590D PS-ZT4590T PS-ZT4590E PS-ZT4590C10K	← ← ← ← ← ← ←	PS-ZT5070U(1) PS-ZT5070A(1) PS-ZT5070C(1) PS-ZT5070D(1) PS-ZT5070T(1) PS-ZT5070E(1) PS-ZT5070P(1) PS-ZT5070CM(1)	← ← ← ← ← ← ← ←
• Developer material	PS-ZD4530, D-4530C	← ←	D-5070	←
• Developer bias	DC-377 V Adjustable output AC 1100 V	← ←	DC-427 V Adjustable output ←	← ←
	No reverse bias output	←	←	←
5. Transfer • Transfer method	Transfer roller	←	←	←
• Transfer output	output Adjustable output	←	←	←
• Transfer assist bias	(Constant current) +250V	←	←	←
6. Separation • Separation method	Needle separation method	←	←	←
• Separation output	Adjustable output (Constant current)	←	←	←

Process	e-STUDIO206L/256/306/356/456/506		e-STUDIO207L/257/307/357/457/507	
	e-STUDIO206L/256/306	e-STUDIO356/456/506	e-STUDIO207L/257/307	e-STUDIO357/457/507
7. Discharge • Discharging position • Discharge LED	Exposure after cleaning 10 red LED's	← 14 red LED's	← 10 red LED's	← 14 red LED's
8. Cleaning • Method • Recovered toner	Cleaning blade Reuse (There is the recovered toner supply mechanism.)	← ←	← ←	← ←

9. Fusing
• Method
 	
  • Fuser roller: Thin roller coated with fluoroplastic (ø35)
 	
  • Pressure roller: PFA tube roller (ø30)
 	
• Cleaning
 	
• Heater
	Long-life fuser roller method
	
	←
	
	• Pressure roller: PFA tube roller (ø30)
	
	-
	
	Heater lamp (600W x 2)
	
	Turned ON/OFF by thermistor
		←
		
		←
		
		• Pressure roller: PFA tube roller (ø35)
		
		-
		
		← (600W x 2 + 300W x 1)
		
		←
			←
			
			←
			
			• Pressure roller: PFA tube roller (ø30)
			
			-
			
			← (600W x 2)
			
			←
				←
				
				←
				
				• Pressure roller: PFA tube roller (ø35)
				
				-
				
				← (600W x 2 + 300W x 1)
				
				←

3.7 GENERAL OPERATION

3.7.1 Overview of Operation

Operation of equipment ─┬─ Operation during initializing, pre-running and ready
                        │   ┌─ Drawer feed copying by [START] button
                        └─ Copying operation ─┼─ Bypass feed copying
                                                  └─ Interrupt copying
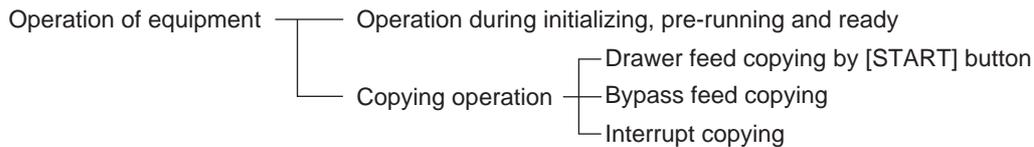
3.7.2 Description of Operation

[1] Warming-up

1. Initialization
   Power ON
   → Heater lamp ON
   → Set number "1" reproduction ratio "100%" and "WAIT WARMING UP" are displayed
   → Fan motors ON
   → Initialization of scanning system
   - The carriage moves to the home position.
   - The carriage moves to the peak detection position.
   - The exposure lamp is turned ON.
   - Peak detection (white color is detected by the shading correction plate)
   - The exposure lamp is turned OFF.
   → "READY (WARMING UP)" is displayed

2. Pre-running operation
   The pre-running operation is started when the temperature of the fuser roller surface reaches a certain temperature.
   → The main motor is turned ON.
   - Fuser roller rotated
   - Drum rotated
   → Initialization of feeding system
   - Each drawer tray goes up.
   → Pre-running operation stops after three seconds.

3. When the surface temperature of the fuser roller becomes sufficient for fusing,
   → "READY" is displayed.

[2] Ready state (ready for copying)

   Buttons on the control panel enabled
   → When no button is pressed for a certain period of time,
     - Set number "1" and reproduction ratio "100%" are displayed. Equipment returns to the normal ready state.

[3] Drawer feed copying (Upper drawer paper feeding)

1. Press the [START] button
   → "READY" changes to "COPYING"
   → Exposure lamp ON
   → Scan motor ON → carriages -1 and -2 move forward
   → Polygonal motor rotates in high speed
   → Main motor and exit motor ON
   - The drum, fuser unit, developer unit and exit roller are driven.

2. Drawer paper feeding
   → Main charger, developer bias and discharge LED ON. Fans are rotated in high speed. Drawer feed clutch ON.
   - The pickup roller, feed roller and separation roller start to rotate.
   → Paper reaches the 1st transport sensor
   - The 1st transport sensor is turned ON.
   → Paper reaches the registration roller.
   - The registration sensor is turned ON and aligning is performed.
   → Drawer feed clutch OFF after a certain period of time

3. After the carriage operation:
   → Registration clutch ON after a certain period of time → paper is transported to the transfer area.
   → Copy counter operates

4. After the registration clutch is turned ON:
   → Transfer charger ON after a certain period of time
   → Copy counter operates

5. Completion of scanning
   → Scan motor OFF
   → Exposure lamp OFF
   → Registration clutch OFF (after the trailing edge of the paper passed the registration roller)
   → "READY (PRINTING)" is displayed
   → "WAIT" is displayed

6. Paper exit
   → Exit sensor detects the trailing edge of the paper
   → Main charger, developer bias and discharge LED OFF
   → Polygonal motor, main motor and exit motor OFF
   → Drum, fuser unit and developer unit stop
   → Fans return to the ready rotation
   → "READY" is displayed and the equipment enters the ready mode

[4] Bypass feed copying

1. Insert a sheet of paper into the bypass tray.
    → Bypass paper sensor ON
    - "Ready for bypass feeding" is displayed.

2. Press the [START] button
    → "Ready for bypass feeding" changes to "COPYING"
    → Exposure lamp ON
    → Scan motor ON → Carriages -1 and -2 move forward
    → Polygonal motor rotates in high speed
    → Main motor and exit motor ON
    - The drum, fuser unit, developer unit and exit roller are driven.

3. Bypass feeding
    → Main charger, developer bias and discharge LED ON. Fans are rotated in high speed.
    → Bypass feed clutch ON
    - The bypass feed roller start to rotate.
    → Aligning operation
    → Paper reaches the registration roller
    → After a certain period of time, the bypass feed clutch OFF

4. Hereafter, the operation 3) through 6) of ▯ P. 3-31 "[3] Drawer feed copying (Upper drawer paper feeding)" is repeated.

[5] Interruption copying

1. Press the [INTERRUPT] button
    → LED "INTERRUPT" ON
    → Copying operation in progress is temporarily stopped. Carriages -1 and -2 return to appropriate positions.
    → "Job interrupted job 1 saved" is displayed.
    → Automatic density and reproduction ratio 100% are set (The set number remains the same)

2. Select the desired copy condition

3. After the interruption copying is finished:
    → LED "INTERRUPT" OFF by pressing the [INTERRUPT] button
    → Equipment returns to the status before the interruption
    → "Ready to resume job 1" is displayed

4. Press the [START] button
    → The copying operation before the interruption is resumed.

3.7.3   Detection of Abnormality

When something abnormal has occurred in the equipment, the symbols corresponding to the type of abnormality are displayed.

[1]   Types of abnormality

1. Abnormality cleared without turning OFF the door switch
   - (A) Add paper
   - (B) Pick-up failure in bypass
   - (C) Set key copy counter

2. Abnormality not cleared without turning OFF the door switch
   - (D) Misfeed in equipment
   - (E) Replace the toner cartridge
   - (F) EPU not installed properly

3. Abnormality not cleared without turning OFF the main power switch
   - (G) Call for service

[2]   Description of abnormality

(A) Add paper

- Drawer empty sensor detects the presence or absence of paper.

> [When drawer is not installed]
> No drawer detected
>
> ↓
>
> Tray not going up (drawer empty sensor OFF)
>
> ↓
>
> "Add paper" displayed
>
> ↓
>
> [START] button disabled
>
>
> [When drawer is installed]
>
> ↓
>
> Drawer detected
>
> ↓
>
> Tray going up (drawer empty sensor OFF)
>
> ↓
>
> "Add paper" displayed
>
> ↓
>
> [START] button disabled

- When the power is turned ON or the LCF drawer is inserted (when the power is turned ON or equipment drawer / PFP drawers are inserted), LCF (PFP/equipment) performs initialization.

    ↓

    Detects the presence of paper
    Tray-up motor ON – The tray goes up

        At this time, the tray-up sensor and empty sensor are OFF.
        → When the tray-up sensor is not turned ON in a fixed period of time, it means that the tray is in abnormal condition.
            → "Add paper" is displayed regardless of presence/absence of paper.

                → Cleared by turning the drawer open/close

        → Tray-up sensor is turned ON in a fixed period of time.
            - The tray motor stops.

            At this time, if the empty sensor is   ON: It is judged that there is paper.

                                                  OFF: It is judged that there is no paper.

                                                                        ↓

            Drawer area of the LCD panel blinks (When the drawer is selected)

- When the paper in the drawer runs out during copying,

        → The tray-up sensor turned OFF

        → The tray-up motor turned ON   →   Tray goes up

        The tray-up sensor turned ON   →   Tray-up motor stopped.

- Empty sensor turned OFF during the copying in spite of the tray-up sensor is ON

                                    ↓

                It is judged that there is no paper.

                                    ↓

        Drawer area of the LCD panel blinks (When the drawer is selected)

                                    ↓

                The copying operation is stopped.

(B) Pick-up failure in bypass ([8/v])

- During bypass feeding
    Bypass feed clutch ON

            ↓

    1st transport sensor is not turned ON in a fixed period of time

            ↓

Clear paper symbol is displayed (🔲): E120

↓

Copying operation is disabled

↓

Solution: The bypass paper sensor is turned OFF by removing the paper from the bypass tray.

(C) Set key copy counter

- When the key copy counter (optional) is pulled out from the equipment which installs it:

    "Set key copy counter" displayed

    ↓

    Copying operation disabled

- When the counter is pulled out during copying:

    Copying is stopped when the key copy counter is pulled out.

    ↓

    "Set key copy counter" displayed

    ↓

    Copying operation disabled

(D) Misfeed in equipment (🔲)

- Exit sensor detects jamming of the leading edge of paper.

    ↓

    Registration clutch ON

    ↓   Less than regulation time

    Exit sensor ON
    If the exit sensor is not turned ON after the
    regulation time

    ↓

    Paper jam (E010)   → The copying operation
    is stopped

Fig. 3-19

- Exit sensor detects jamming of the tailing edge of paper

    ↓

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
OUTLINE OF THE MACHINE
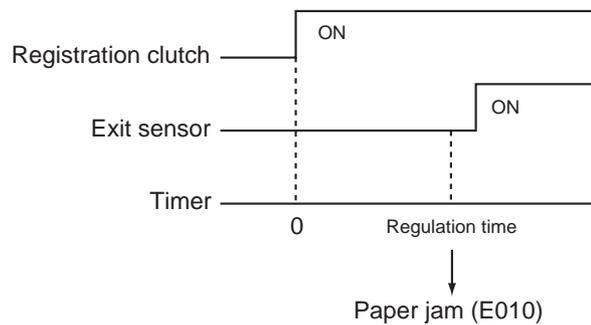
Registration clutch OFF

     ↓   Less than regulation time

Exit sensor OFF
If the exit sensor is not turned OFF after the
regulation time

     ↓

Paper jam (E020) → The copying operation
is stopped
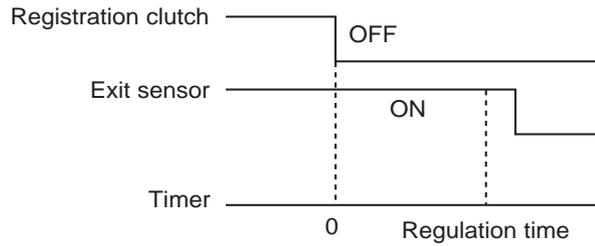
Fig. 3-20

- Reverse sensor detects jamming of the leading edge of paper: e-STUDIO356/456/506 / 357/457/507

Exit sensor ON

     ↓   Less than regulation time

Reverse sensor ON
If the reverse sensor is not turned ON after the
regulation time

     ↓

Paper jam (E570) → The copying operation
is stopped.

- Reverse sensor detects jamming of the tailing edge of paper: e-STUDIO356/456/506 / 357/457/507

     ↓

Exit sensor OFF

     ↓   Less than regulation time

Reverse sensor OFF
If the reverse sensor is not turned OFF after
the regulation time

     ↓

Paper jam (E580) → The copying operation
is stopped.

- Immediately after the power ON

     ↓

Any of all sensors on paper transport path detects paper (ON)

     ↓

Paper jam (E030)

- Front cover is opened during copying

     ↓

Paper jam (E410)

- Registration sensor detects jamming of the leading edge of paper:
  Registration sensor is not turned ON in a fixed period of time after the leading edge of paper passed the 1st transport sensor.

  ↓

  Paper jam (E200, E210, E270, E300, E330 and E3C0)

- During paper feeding from ADU:
  Registration sensor is not turned ON in a fixed period of time after the ADU motor is turned ON.

  ↓

  Paper jam (E110)

- During paper transporting from ADU:
  ADU entrance/exit sensors do not detect the paper at the fixed timing

  ↓

  Paper jam (E510 or E520)

- The 1st/2nd transport sensor and each sensors of PFP/LCF are not turned ON in a fixed period of time after the feed clutch is turned ON

  ↓

  Paper jam (E220, E310, E320, E340–E360, E3D0 and E3E0: Error code differs depending on the paper source.) Refer to the error code table in the Service Handbook.

(E) Replace the toner cartridge ([🔲])

- Toner density becomes low

  ↓

  Auto-toner sensor detects the absence of the toner

  ↓

  Control circuit → "Install new toner cartridge" displayed: the copying operation disabled

  Solution: Open the front cover and replace the toner cartridge with a new one.
             Toner is supplied → copying operation enabled.

(F) EPU not installed properly

- EPU not installed properly

  ↓

  "EPU not installed" is displayed.

  Solution: Check if the connector between the EPU drawer and the developer unit is connected.
             Then check if the EPU is installed in the equipment properly and close the front cover.

(G) Call for service
    Error code is displayed instead of the set number by pressing the [CLEAR] button and [8] button simultaneously when the "Call for service" is blinking.
    Refer to the error code table in the Service Handbook.

3.7.4   Hibernation function

A hibernation function is embedded in this equipment. This function allows the equipment to store the last status of the system in the HDD immediately before the power is turned OFF, and to restart from this stored status at the next boot-up. The equipment starts up in the specified time described in the warmup time after the execution of the 2nd hibernation when the power is turned OFF and then back ON correctly. *
For warming-up time, refer to 📖 P. 2-1 "2.1.1 General"

It is recommended to shut down the equipment while pressing the [ACCESS] button and the [POWER] button simultaneously before maintenance. However, warming-up takes longer when the equipment boots up next time since no hibernation is executed. The equipment therefore boots up in the initialization status. "Checking" is displayed on the LCD screen when the equipment boots up normally (without hibernation), and "Checking" is not displayed when hibernation is executed.

If hibernation is not performed when the power is turned OFF or the equipment boots up immediately after the settings, warming-up takes longer. It differs depending on the usage conditions; warming-up will take approx. 30 to 150 sec, though it takes approx. 20 sec. if hibernation is performed (normal situation).

The following are the conditions which necessitate a longer warming-up time.
*   Rebooting from TopAccess
*   First booting after power interruption
*   First booting after a self-diagnosis code is changed in the Service UI
*   First booting after the power is turned OFF with the main power switch during the super sleep mode
*   Installing options or finishers
*   First booting after an option or a finisher is removed
*   During toner supply
*   Operating while "READY (WARMING UP)" is still on the control panel
*   First booting after the [ACCESS] and [POWER] buttons are pressed and held until the power is shut down
*   First booting after the power is turned OFF in a procedure other than the correct one described in the Quick Start Guide

* How to turn the power OFF correctly
Press the [POWER] button on the control panel to shut down the equipment. Be sure to check that the ON/OFF lamp (green) has stopped blinking and the touch panel screen and the lamp (green) have gone off. Then turn the power OFF with the main power switch.

3.8 CONTROL PANEL

3.8.1 General Description

The control panel consists of button switches and touch-panel switches to operate the equipment and select various modes, and LEDs and an LCD to display the state of the equipment or the messages. When the operator's attention is required, graphic symbols light or blink with messages explaining the condition of the equipment in the LCD panel. When paper jams and "Call for service" occur, error codes are also displayed to notify users of the problem.

This equipment has a control panel that contains a color LCD. This movable control panel enables the up-down angular adjustment of itself so its visibility and operability have been upgraded.

The [ON/OFF] button is placed on the control panel of this equipment. Use this button instead of the main power switch to turn ON/OFF the power.

Press the [ON/OFF] button for 1 second or more to turn ON/OFF the power of the equipment.

e-STUDIO206L/256/306/356/456/506
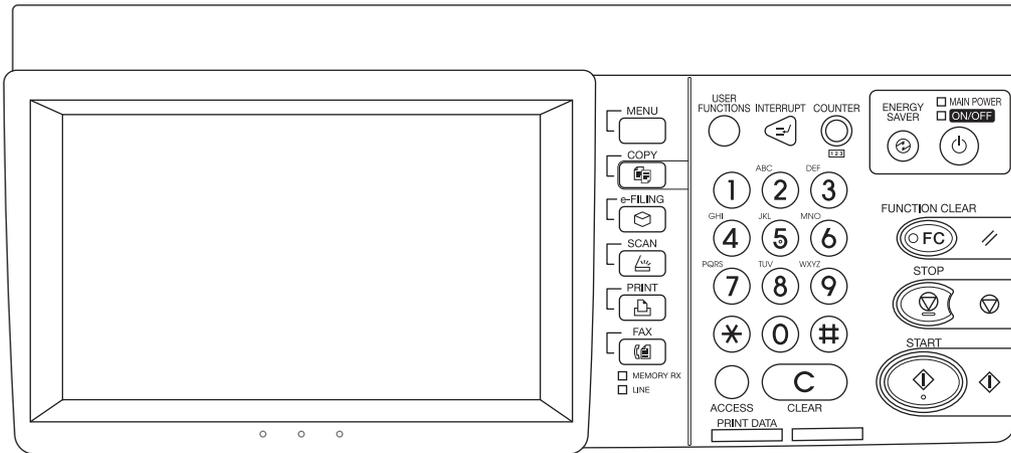
Fig. 3-21

e-STUDIO207L/257/307/357/457/507
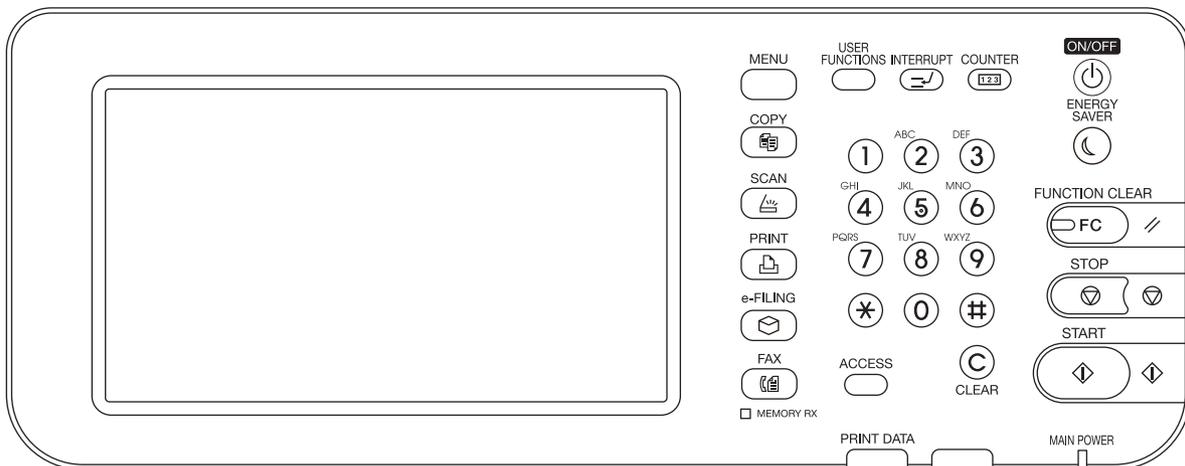
Fig. 3-22

3.8.2 Description of Operation

[1] Dot matrix LCD circuit

1. Structure
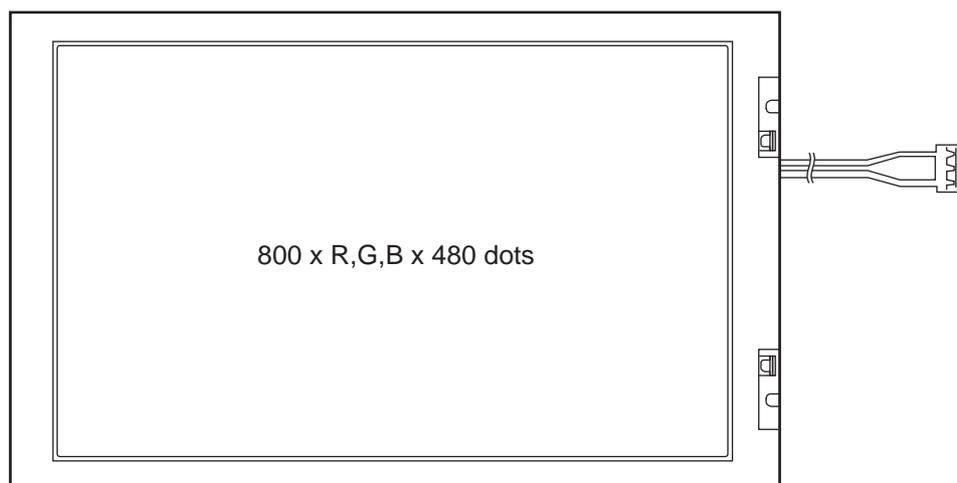
Fig. 3-23

3.9 SCANNER

3.9.1 General Description

In the scanning section of this equipment, the surface of an original is irradiated with a direct light and the reflected light is led through mirrors, a lens and a slit to CCD where optical-to-electrical conversion is performed, converting the optical image data into an electrical (analog) signal. This analog signal is changed to a digital signal, which then undertakes various corrective processes necessary for image formation. After that, arithmetic operation is performed on the digital signal, which is then transmitted to the data writing section.

e-STUDIO206L/256/306/356/456/506; Depending on the production period, the machine is equipped with a 4-line CCD or a 3-line CCD. Therefore, be sure to perform the appropriate service for the actually equipped CCD. In addition, an LED is used as the light source for the 4-line CCD and a xenon lamp is used as the light source for the 3-line CCD.

e-STUDIO206L/256/306/356/456/506
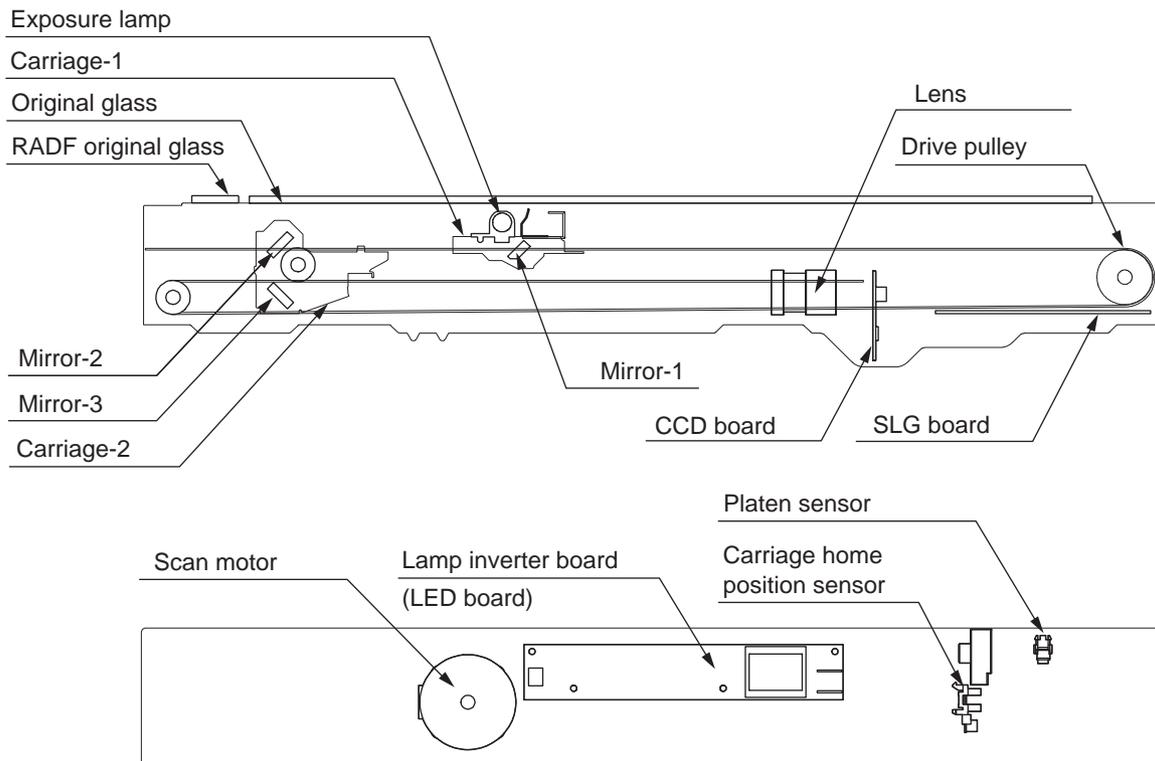
Fig. 3-24

A reduction-type 3-line CCD for color processing is used for e-STUDIO207L/257/307/357/457/507. An LED is adopted for the exposure lamp. The SYS board supplies power to the exposure lamp and controls the entire scanner unit. Therefore, no SLG board and LED board are embedded.
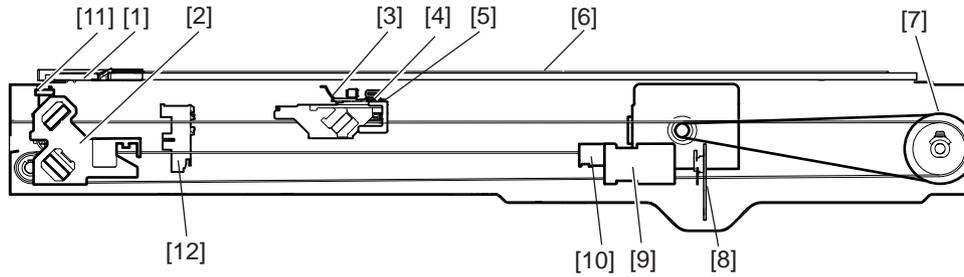
Fig. 3-25

[1] RADF original glass
[2] Carriage-2
[3] Reflector
[4] Exposure lamp
[5] Carriage-1
[6] Original glass
[7] Drive pulley
[8] CCD board
[9] Lens
[10] Automatic original detection sensor
[11] Carriage home position sensor
[12] Platen sensor

3.9.2 Construction

Scanner		e-STUDIO206L/256/306/356/456/506	e-STUDIO207L/257/307/357/457/507
Original glass	Original glass		
	RADF original glass		
Carriage-1	Exposure lamp (EXP)	Xenon lamp / LED	LED
	Reflector		
	Mirror-1		
Carriage-2	Mirror-2		
	Mirror-3		
Lens unit			
CCD driving PC board (CCD)			
Scanning section control PC board (SLG)		Applicable	N/A
Automatic original detection sensor (S1-5)		5 sensors (S1-5)	1 sensor (A4 series) / 2 sensors (LT series)
Lamp inverter board (INV) / LED board (LEDB)		Applicable	N/A
Driving section	Scan motor (M1)	• 2-phase stepping motor • Wire drive • Driving the carriage-1 and carriage-2	←
Other	Carriage home position sensor (S7)		
	Platen sensor	S6	S28, S29
	Rubber damper	Applicable	N/A

CCD sensor and exposure lamp combinations

	Lens unit	Exposure lamp	Exposure lamp control PC board	SYS board
e-STUDIO206L/256/ 306/356/456/506	4-line CCD	LED	LED board	For 4-line CCD
	3-line CCD	Xenon lamp	Lamp inverter board	For 3-line CCD
e-STUDIO207L/257/ 307/357/457/507	3-Line CCD	LED	SYS board	For e-STUDIO207L/ 257/307/357/457/ 507

3.9.3 Functions

The following shows the construction and purpose of the scanning system:

1. Original glass

   This is a glass for placing original. The light from the exposure lamp (EXP) is irradiated to the original through this glass.

   The RADF original glass is used when original is read with the Automatic Document Feeder. Original is transported on the RADF original glass by the Automatic Document Feeder, and the transported original is read under the ADF original glass by the carriage. Do not use such solvents as alcohol when cleaning the surface of the RADF original glass, because it is coated so as not to be scratched by originals.

2. Carriage-1

   Carriage-1 consists of the exposure lamp (EXP), reflector, mirror-1, etc. It is driven by the scan motor (M1) and scans an original on the glass.
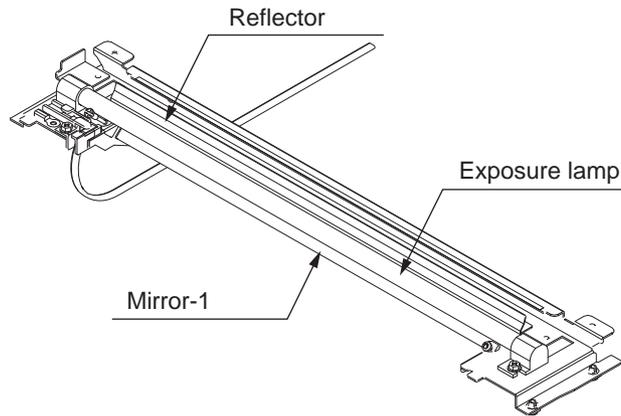
Fig. 3-26

- Exposure lamp (EXP)

  This lamp is the light source to irradiate the original on the glass. There are two types of light sources for e-STUDIO207L/257/307/357/457/507: a xenon lamp and an LED. The xenon lamp is used with the 4-line CCD and the LED is used with the 3-line CCD. The light source for e-STUDIO207L/257/307/357/457/507 is an LED and is used with the 3-line CCD.

- Reflector

  This is a plate to efficiently direct the light from the exposure lamp (EXP) to the surface of the original on the glass. (The LED consists of the LED and the reflector combined with the LED.)

- Mirror-1

  This mirror directs the light reflected from the original to the mirror-2 described later.
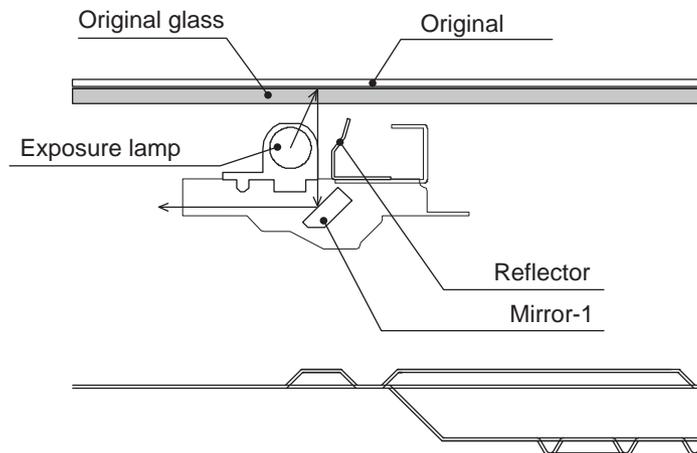
Fig. 3-27

The configuration of carriage-1 for e-STUDIO207L/257/307/357/457/507 is as shown below.
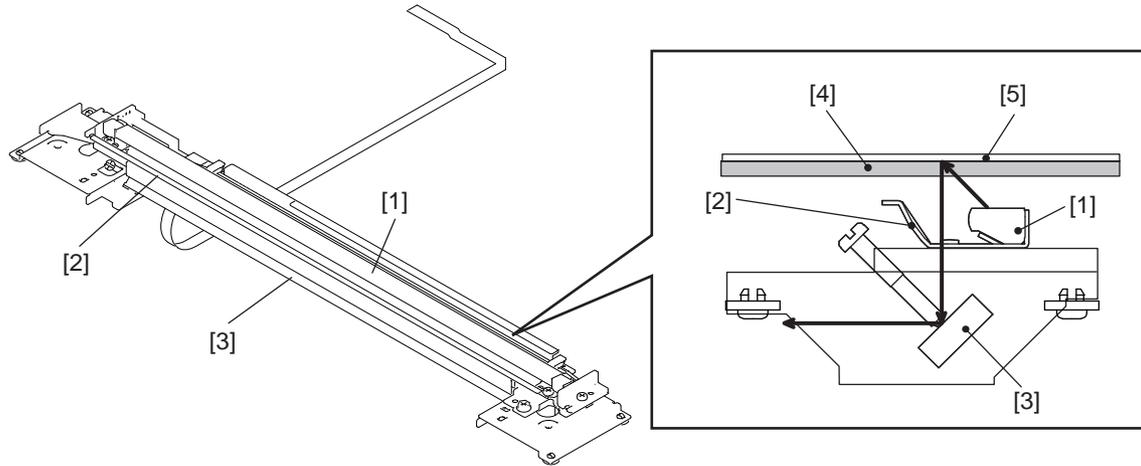
Fig. 3-28

[1] Exposure lamp
[2] Reflector
[3] Mirror-1
[4] Original glass
[5] Original

3. Carriage-2
Carriage-2 mainly consists of the mirror-2, mirror-3, etc. and directs the reflected light from the mirror-1 through the mirrors-2 and -3 to the lens.
This carriage is driven by the same scan motor (M1) as that for the carriage-1 at half the scanning speed of the carriage-1 (The scanning distance is also half that of the carriage-1).

e-STUDIO206L/256/306/356/456/506
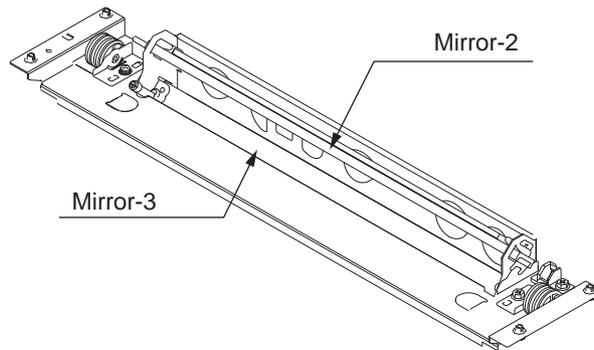
Fig. 3-29
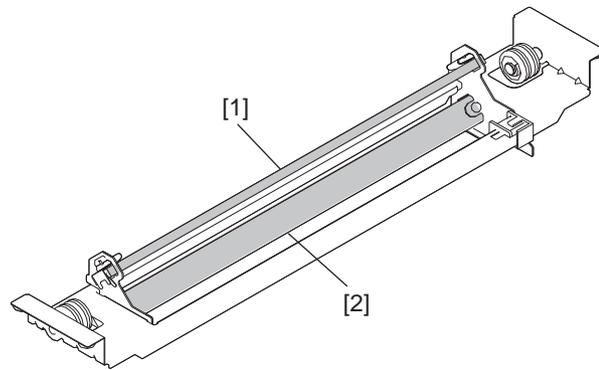
Fig. 3-30

4. Lens unit
The light reflected from the mirror-3 is led to the CCD placed at the focal point of the lens which is fixed in a position.

5. CCD driving PC board (CCD)
Processes such as signal amplification and A/D conversion are applied on the electrical signal which was converted by CCD.
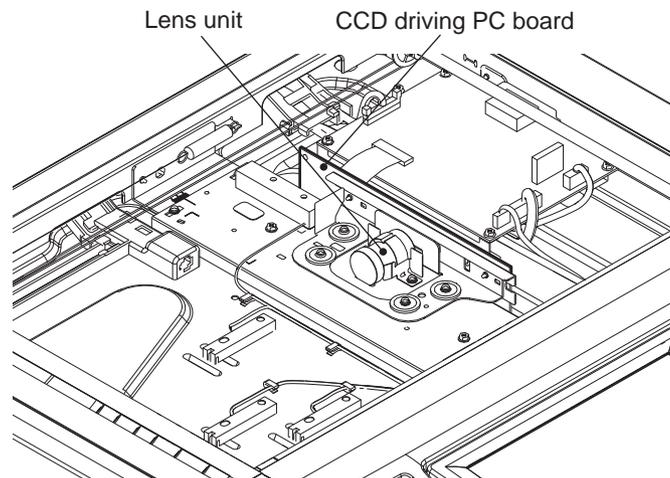
Fig. 3-31

6. Scanning section control PC board (SLG) (e-STUDIO206L/256/306/356/456/506)
This is a board to perform the image correction, such as the shading correction and 3-line correction, and control the scan motor (M1).

7. System control PC board (SYS board) (e-STUDIO207L/257/307/357/457/507)
This is a board to control the above SLG board (described in No. 6) in e-STUDIO207L/257/307/357/457/507.

8. Automatic original detection sensor (S1-5)
The size of an original placed on the glass is instantly detected using the automatic original detection sensors (S1-5) fixed on the base frame without moving the carriage-1.
In e-STUDIO207L/257/307/357/457/507, the size of an original is detected using the automatic original detection sensors (S26-S27).

9. Lamp inverter board (INV) / LED board (LEDB) (e-STUDIO206L/256/306/356/456/506)
   Controls lighting of the exposure lamp (EXP). The control PC board is different depending on the light source. The xenon lamp is controlled by the lamp inverter board and the LED is controlled by the LED board.
   It is installed on the rear side since the scanner thickness is reduced. The lamp inverter board is shown in the figure.
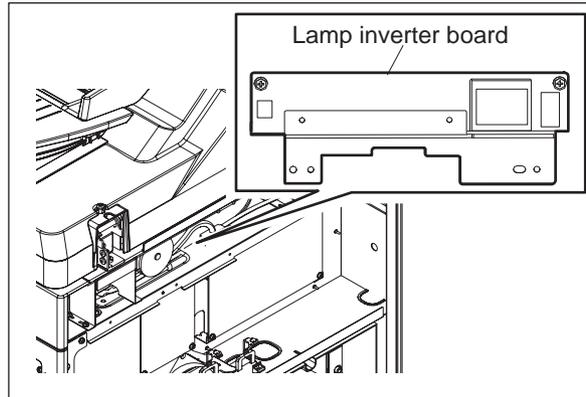
Fig. 3-32

3.9.4　Description of Operation

[1]　Scanning operation
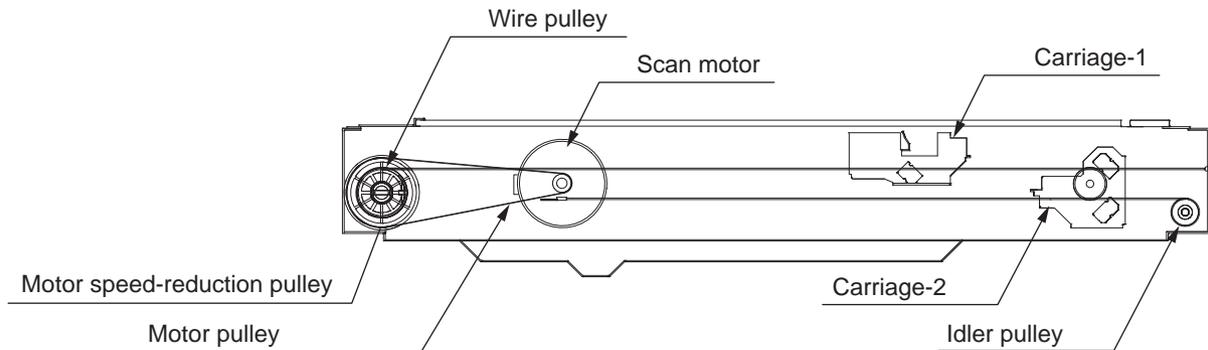
Fig. 3-33

- Scanning of an original placed on the original glass
  This motor drives the carriages-1 and -2 through the timing belt and carriage wire. First, the scan motor drives the carriages-1 and -2 to their respective home positions. The home positions are detected when the carriage-1 passes the carriage home position sensor (S7). When the [START] button is pressed, the both carriages start to move and scan the original on the glass.

- Scanning of an original placed on the RADF
  It stops at the scanning position and starts scanning, and performs shading correction before scanning and at constant intervals during scanning.

- Scanning speed
  In case of the 4-line CCD, the carriage speed of the original in the color scanning mode is half of that in the black and white scanning mode. In case of the 3-line CCD, it becomes the same speed.

3.9.5　Process of detection of original size

[1]　e-STUDIO206L/256/306/356/456/506

Reflection type photosensors are placed on the base frame of the scanner unit as shown in the figure below. Each sensor consists of an infrared Light Emitting Diode (LED) on the light-emitting side and a phototransistor on the light-receiving side.
When there is an original on the original glass, light beams from the LEDs are reflected by the original and led to the phototransistors. This means that the presence/absence of an original is detected by whether there is a reflection or not (when a black image is scanned).

Sensor detection points
[A4 Series]

Fig. 3-34

[LT Series]

Fig. 3-35

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
OUTLINE OF THE MACHINE
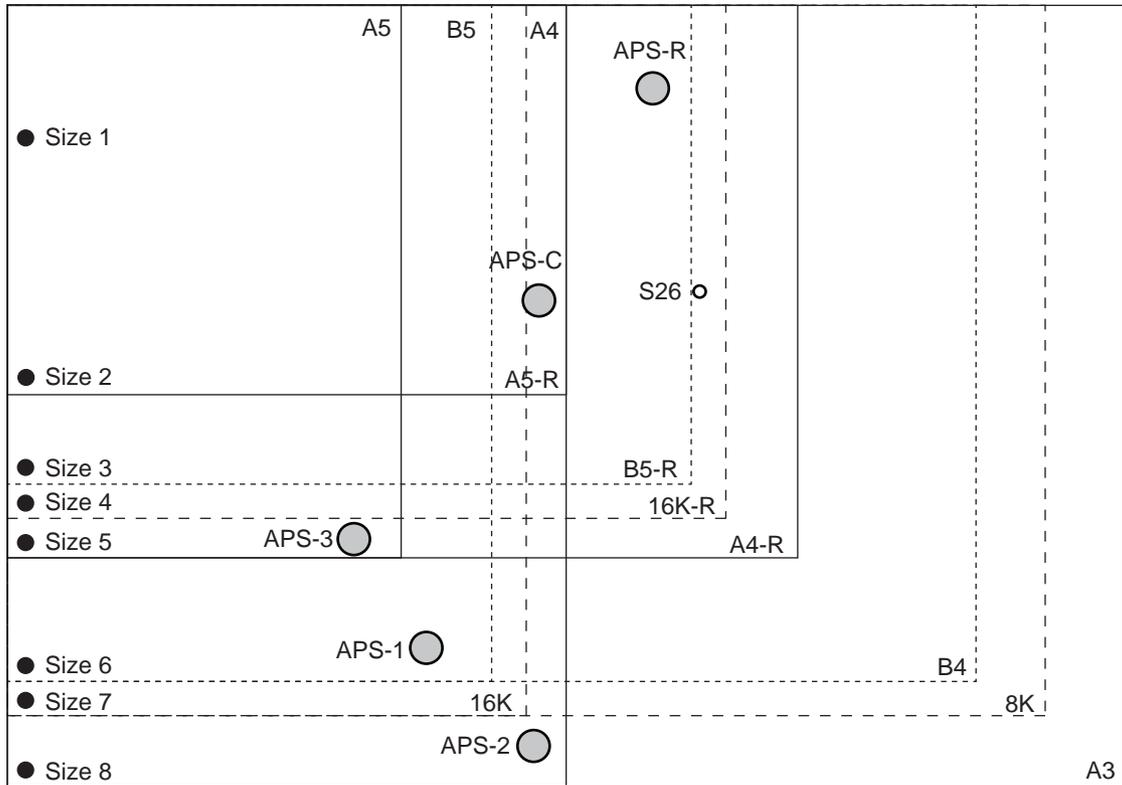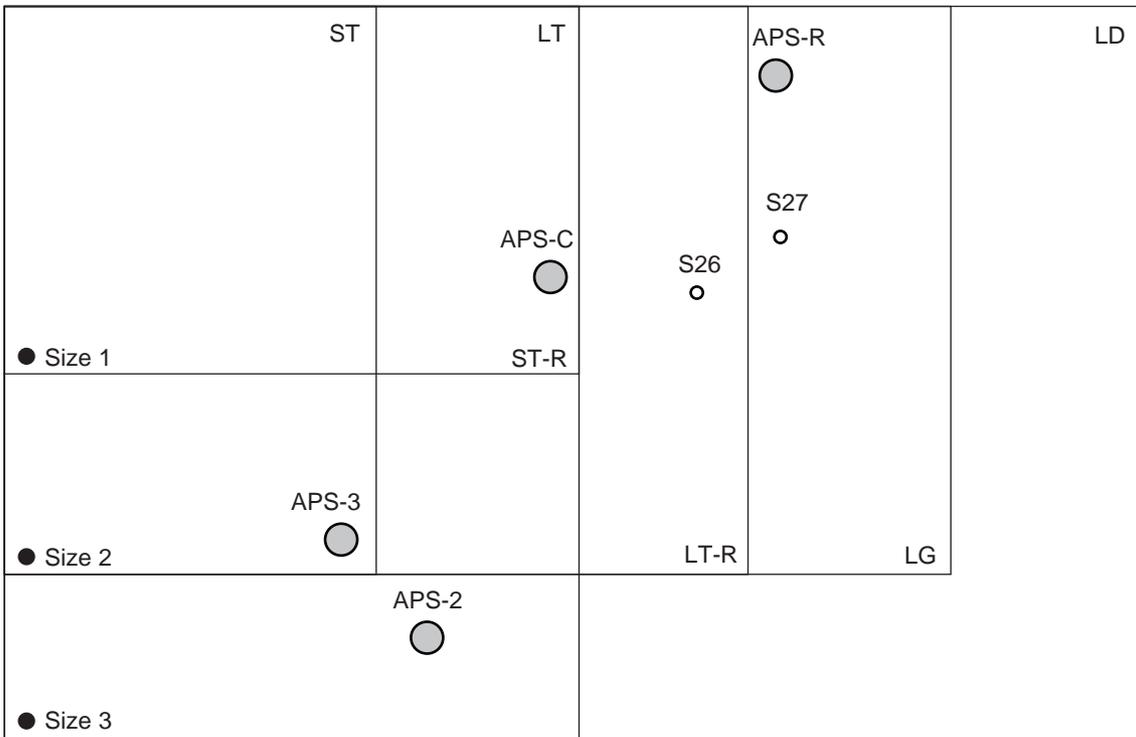
[2] e-STUDIO207L/257/307/357/457/507

Original sizes are detected with the combination of a CCD and the automatic original detection sensors. A size in the primary scanning direction is detected by the CCD while that in the secondary one is detected by the sensors. 2 platen sensors (S28 and S29) serve to detect the platen cover (or the RADF) position.
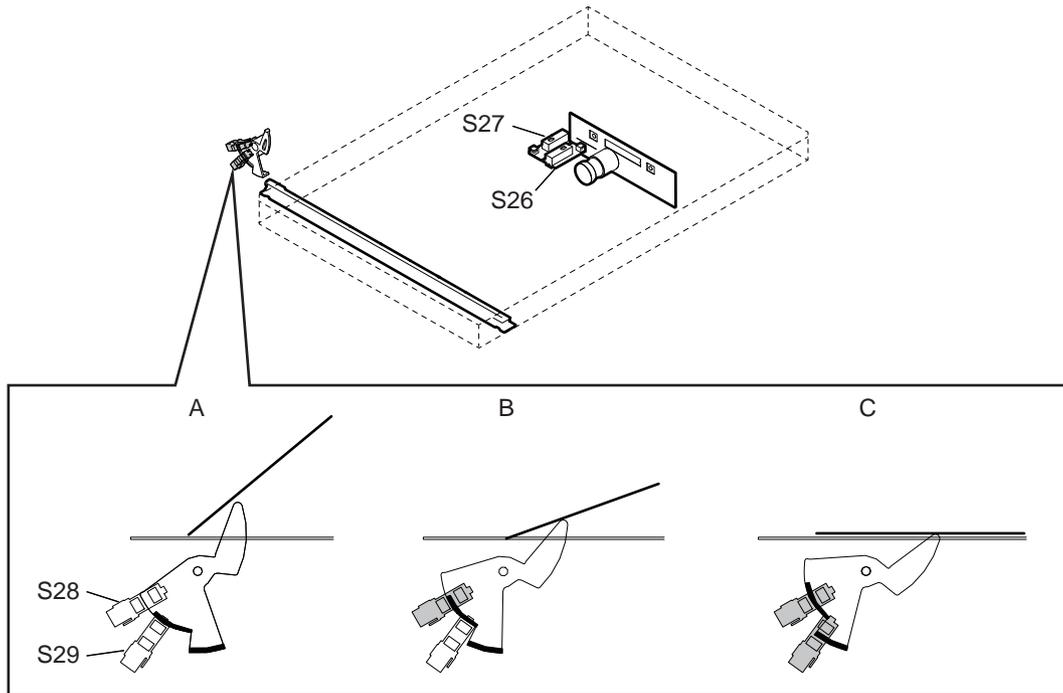
Fig. 3-36

A: Platen cover (or RADF) fully opened
When the platen cover is fully opened, an original size is not detected.

B: Platen cover (or RADF) opened by 20 degrees – Detected by platen sensor-1 (S28)
When this status is detected, the exposure lamp of the scanner emits light. This emitted light is reflected by the original and read to the CCD as original size data. A size in the primary scanning direction can be detected by the intensity of the reflected light.

C: Platen cover (or RADF) closed – Detected by platen sensors-1 and -2 (S28 and S29)
When the platen cover is fully closed, this situation is detected by platen sensor-2.Then automatic original detection sensors-1 and 2 detect a size in the secondary scanning direction (and the presence/absence of an original by their positions).
As for the LT series, two automatic original detection sensors detect a size in the secondary scanning direction due to the original size.

3.10　LASER OPTICAL UNIT

3.10.1　General Description

The laser optical unit radiates the laser beam onto the photoconductive drum responding to the digital image signals transmitted from the LGC board. to create the latent image. Image signal is converted into the light emission signal of the laser diode on the laser driving PC board (LDR), then radiated on the drum through the optical elements such as cylinder lenses, polygonal mirror and fθ lens.
The unit must not be disassembled in the field as they are very sensitive to dust and finely adjusted at the factory.

e-STUDIO206L/256/306/356/456/506
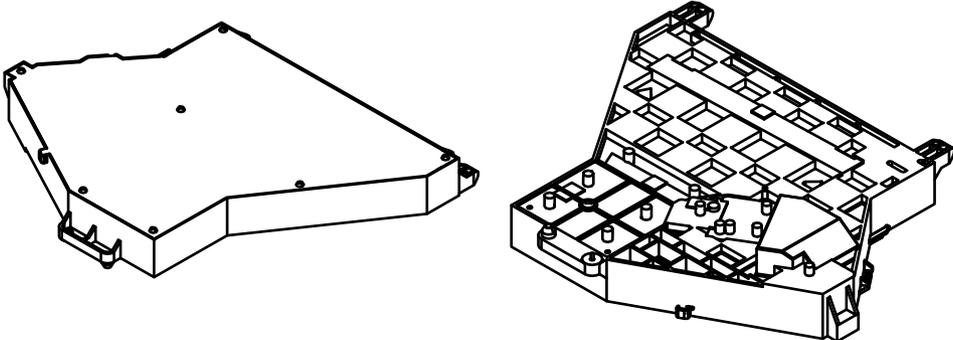
Fig. 3-37

e-STUDIO207L/257/307/357/457/507
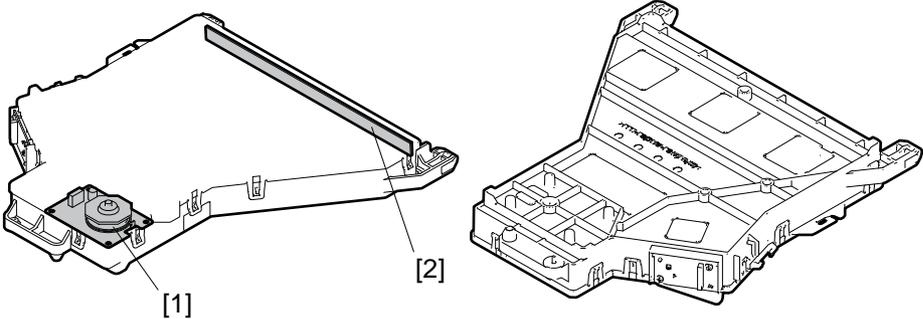
Fig. 3-38

[1] Polygonal motor
[2] Slit glass

3.10.2 Laser precautions

- Laser precautions

  A laser diode is used for this equipment and radiates an invisible laser beam.

  Since it is not visible, be extremely careful when handling the laser optical unit components, performing operations or adjusting the laser beam. Also never perform the procedure with other than the specified manuals because you could be exposed to the laser radiation.

  The laser optical unit is completely sealed with a protective cover. As long as only the operations of specified manuals are performed, the laser beam is not leaked and you are in no danger of being exposed to laser radiation.

  The following cautionary label for the laser is attached to the right front cover.
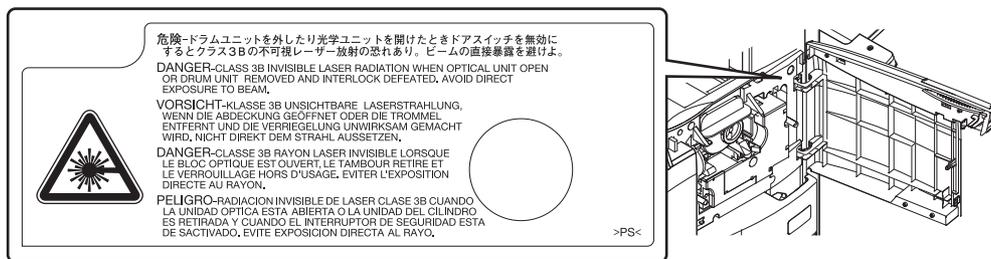
Fig. 3-39

Cautions:
- Avoid expose to laser beam during service. This equipment uses a laser diode. Be sure not to expose your eyes to the laser beam. Do not insert reflecting parts or tools such as a screwdriver on the laser beam path. Remove all reflecting metals such as watches, rings, etc. before starting service.
- When servicing the equipment with the power turned ON, be sure not to touch live sections and rotating/operating sections. Avoid exposing your eyes to laser beam.
- During servicing, be sure to check the rating plate and cautionary labels such as "Unplug the power cable during service", "CAUTION. HOT", "CAUTION. HIGH VOLTAGE", "CAUTION. LASER BEAM", etc. to see if there is any dirt on their surface and if they are properly stuck to the equipment.

3.11 PAPER FEEDING SYSTEM

3.11.1 General Descriptions

The purpose of this system is to pick up a sheet of paper from the drawer or bypass tray and transport it to the transfer position. The paper feeding system mainly consists of the pickup roller, feed roller, separation roller, transport roller, registration roller, bypass paper sensor, drawer empty sensor, drawer paper stock sensor, registration sensor and the drive system for these components.

Sectional view of paper feeding section (Front side)
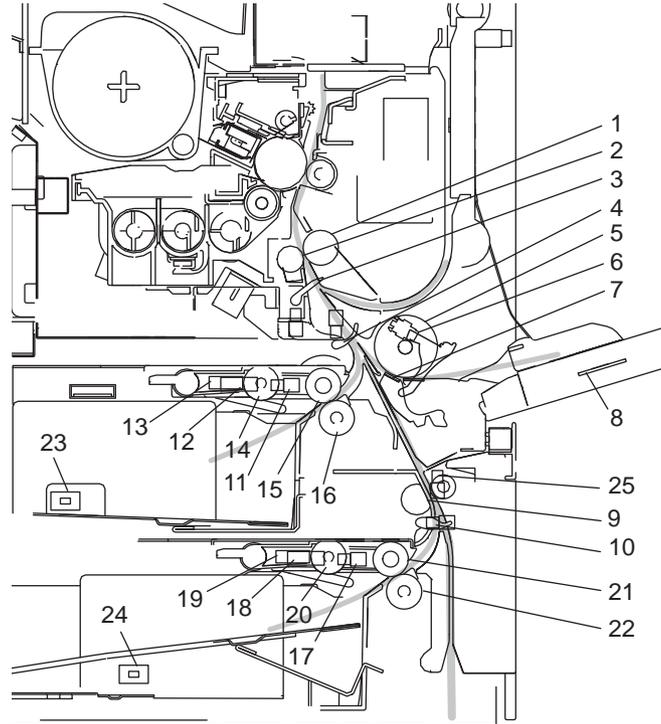
Fig. 3-40

No.	Name	No.	Name
1	Registration roller (rubber)	14	Upper drawer pickup roller
2	Registration roller (metal)	15	Upper drawer feed roller
3	Registration sensor (S22)	16	Upper drawer separation roller
4	1st/2nd transport sensor (S21)	17	Lower drawer tray-up sensor (S19)
5	Bypass feed roller	18	Lower drawer empty sensor (S20)
6	Bypass paper sensor (S12)	19	Lower drawer paper stock sensor (S18)
7	Bypass separation pad	20	Lower drawer pickup roller
8	Paper width detection PC board (SFB)	21	Lower drawer feed roller
9	Transport roller	22	Lower drawer separation roller
10	1st transport sensor (S14)	23	Upper drawer detection switch (SW6)
11	Upper drawer tray-up sensor (S16)	24	Lower drawer detection switch (SW7)
12	Upper drawer empty sensor (S17)	25	Feed cover opening/closing detection sensor (S13)
13	Upper drawer paper stock sensor (S15)		

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
OUTLINE OF THE MACHINE

Paper feeding section drive system (Rear side)
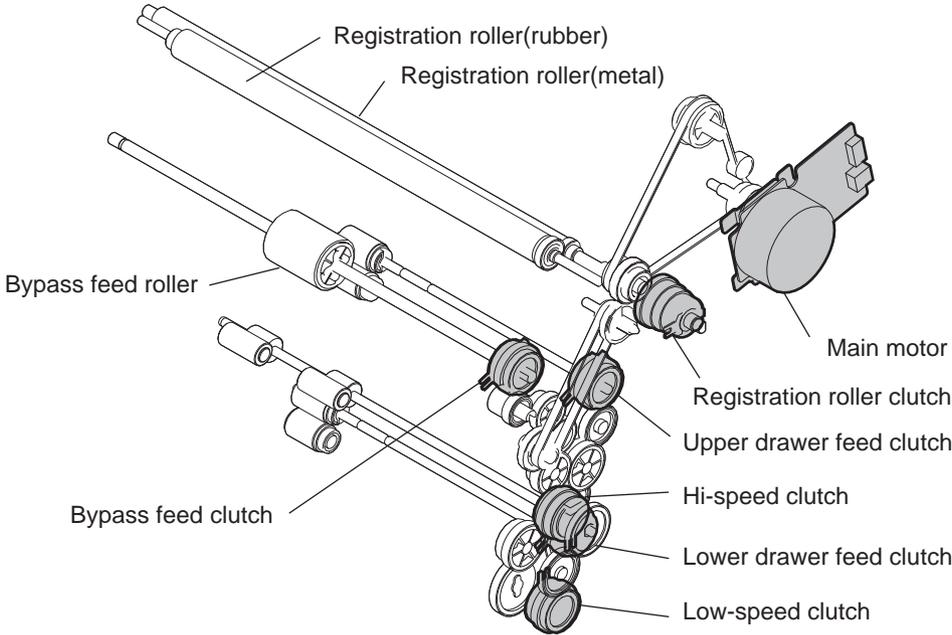
Fig. 3-41

3.11.2 Composition

Paper feed		
Upper/Lower drawer feed unit	Upper/Lower drawer pickup roller	PM parts
	Upper/Lower drawer feed roller	PM parts
	Upper/Lower drawer separation roller	PM parts
	Upper/Lower drawer paper stock sensor	S15/S18
	Upper/Lower drawer tray-up sensor	S16/S19
	Upper/Lower drawer empty sensor	S17/S20
	Upper/Lower drawer feed clutch	CLT4/CLT5
Bypass unit	Bypass feed roller	PM parts
	Bypass separation pad	PM parts
	Bypass paper sensor	S12
	Bypass feed clutch	CLT3
	Paper width detection PC board	SFB
Transport section, other	Upper/Lower drawer tray-up motor	M11/M12
	Upper/Lower drawer detection switch	SW6/SW7
	Registration sensor	S22
	Registration roller (rubber)	
	Registration roller (metal)	
	1st/2nd transport sensor	S21/S14
	Transport roller	
	Registration roller clutch	CLT2
	Hi-speed clutch	CLT6
	Low-speed clutch	CLT7
	Feed cover opening/closing detection sensor	S13

3

3.11.3 Functions

1. Pickup roller
   This roller moves up and down to draw out a sheet of paper from the drawer, and transport it to the feed roller.

2. Feed roller
   This roller transports the paper from the pickup roller to the registration roller.

3. Separation roller
   This roller is mounted against the feed roller. When two sheets of paper or more are transported from the pickup roller, the load of the torque limiter (spring) of the separation roller is greater than the frictional force between the sheets. As the result, the separation roller is stopped and the lower sheet of paper is not transported any further. When only one sheet of paper is transported from the pickup roller, the separation roller is forced to rotate following the feed roller.

4. Transport roller
   This roller transports the paper from the lower drawer or PFP/LCF to the 1st transport roller.

5. Registration roller
   Paper transported from the 1st transport roller is pushed against the registration rollers, which aligns the leading edge of paper. The registration roller then rotates to transport the paper to the transfer section.

6. Bypass feed roller
   This roller picks up and feeds paper from the bypass unit.

7. Bypass separation pad
   This pad is located under the bypass feed roller and pressed to this roller with spring force. This pad prevents more than one sheet of paper from being fed simultaneously with its frictional surface.

8. Bypass paper sensor(S12)
   This sensor detects whether paper is set in the bypass tray or not. If it is, bypass feeding is performed in preference to drawer feeding. And also detects whether paper has been transported from the bypass tray or not. In other words, whether the leading/trailing edge of paper has passed the feed sensor or not. This sensor is utilized to detect the jams such as paper misfeeding in the bypass unit.

9. Upper/Lower drawer empty sensor (S17/S20)
   This is a transmissive-type sensor which detects the presence/absence of paper in the drawer using an actuator. When there is no paper in the drawer, the actuator blocks the light path of the sensor. Then the sensor determines that there is no paper.

10. Upper/Lower drawer paper stock sensor (S15/S18)
    This is a transmissive-type sensor which detects the amount of paper remaining in the drawer using an actuator. When the remaining paper has become around 100 sheets, the actuator blocks the light path of the sensor to notify that the paper quantity is getting less.

11. Registration sensor (S22)
    This sensor detects whether the leading edge of the paper has reached the registration roller or not, and the trailing edge of paper has passed the registration roller or not.

12. 1st transport sensor (S21)
    This sensor detects whether paper from each paper source is being transported or not.

13.2nd transport sensor (S14)
This sensor detects whether paper from the lower drawer, PFP or LCF (both optional) is being transported or not.

14.Upper/Lower drawer feed clutch (CLT4/CLT5)
These clutches drive the upper and lower drawer pickup rollers. When these clutches are turned ON while the main motor (M8) is being rotated, the drive from these clutches rotates the pickup rollers so as to pick up paper.

15.Hi-speed clutch (CLT6)
Drives the Transport roller at high speed by transmitting the drive from the main motor.

16.Low-speed clutch (CLT7)
Drives the Transport roller at low speed by transmitting the drive from the main motor.

17.Registration roller clutch (CLT2)
Drives the registration roller.

18.Bypass feed clutch (CLT3)
This clutch drives the rotation of the bypass feed roller. When this clutch is turned ON while the main motor (M8) is being rotated, the drive from this clutch feeds and transports paper on the bypass tray to the inside of this equipment.

3.11.4   Operation

[1]   Bypass feeding mechanism

Paper on the bypass tray becomes ready for being fed when the paper holding lever is laid down to a side on which paper is placed (the equipment side).

When the paper holding lever is laid down to the equipment side, the paper holding guide lifts up the paper as shown in the figure so as to contact the paper with the bypass feed roller.

Then the paper is fed along with the rotation of the bypass feed roller.

The bypass separation pad prevents more than one sheet of paper from being fed simultaneously.
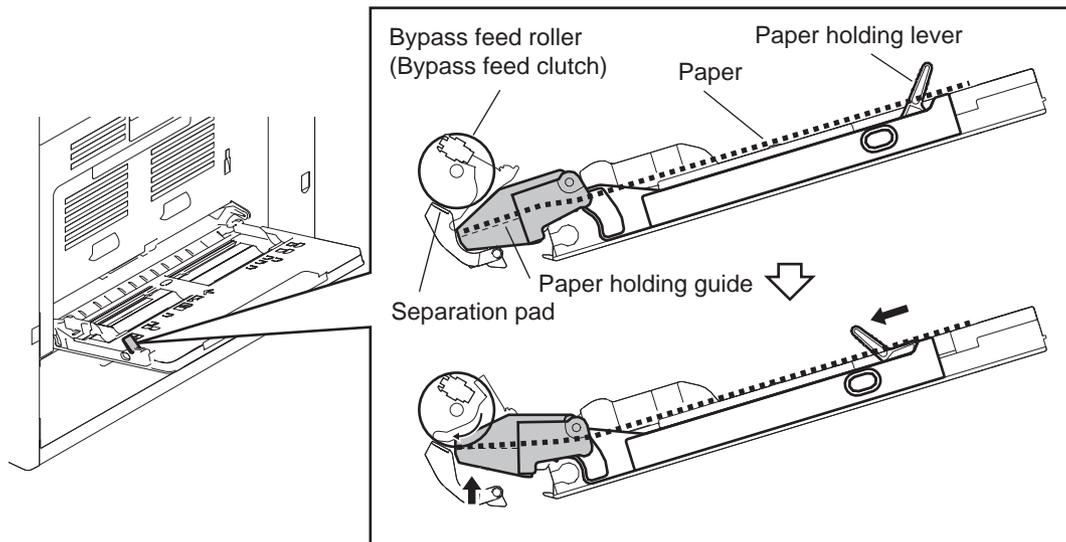
Fig. 3-42

[2]   Operation of drawer pickup roller

When the drawer is inserted, the pickup roller and roller holder fall by the tray-up motor driving force. Then the drawer tray lifts up and paper feeding is enabled.

When the drawer feed clutch is turned ON, the drive from the main motor is transmitted. Then the feed roller and pickup roller rotate to transport the paper from the drawer.

The separation roller under the feed roller prevents multiple transporting of paper.
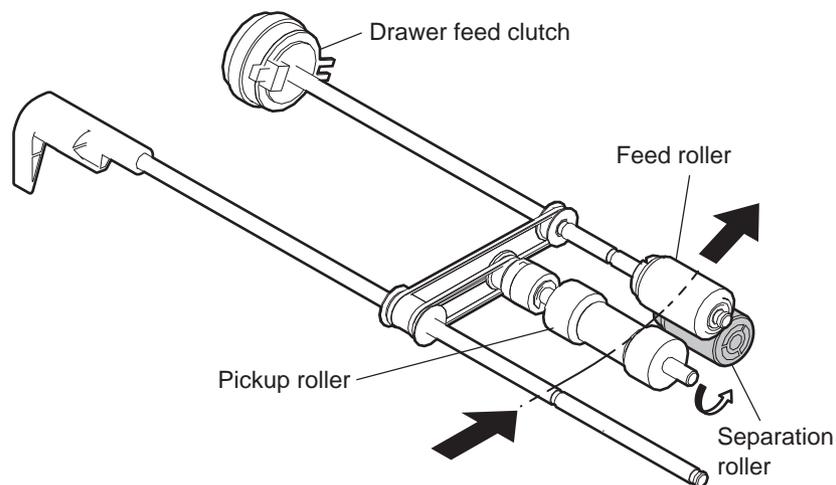
Fig. 3-43

[3] Separation of paper

The separation roller in this equipment works to separate the sheets of paper being fed. The separation roller section consists of the feed roller, separation roller, spring joint, etc. The feed roller rotates in the direction of the white arrow (shown below in the figure at right) at the same timing as the pickup roller rotation when the feed clutch is turned ON.
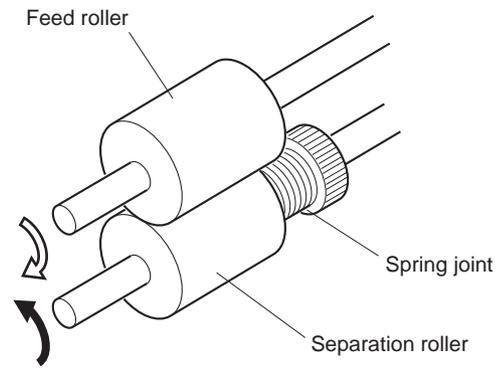
Fig. 3-44

When two sheets of paper are transported (shown in the figure at right), the lower sheet is braked by the separation roller and not transported any further and the upper sheet is transported in the direction of black arrow since the frictional force between two sheets is small.
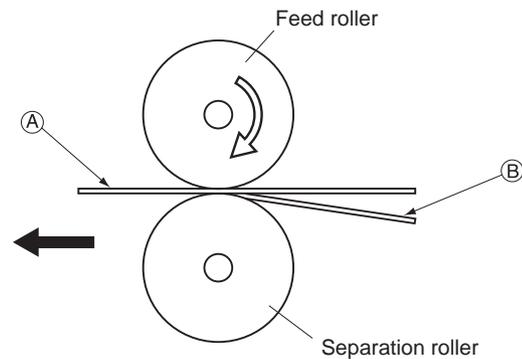
(Example)
When only one sheet enters into the separation roller section:
Since the transporting force of the feed roller is greater than the braking force of the separation roller, these two rollers rotate together to transport the sheet to the registration roller.

Fig. 3-45

When two sheets enter into the separation roller section:
Since the transporting force of the feed roller and the breaking force of the separation roller are greater than the frictional force between two sheets, the sheet A is transported in the direction of the black arrow and the sheet B is braked by the separation roller and is not transported any further.

[4] Operation of clutch
The power ON/OFF of transport clutch and the operation of transport roller are as follows.

Transport roller	High-speed clutch	Low-speed clutch
Low speed	OFF	ON
High speed	OFF	ON
Stop	OFF	OFF

[5] General operation

[A] From power-ON to ready status
- When the equipment is turned ON, the tray-up motor starts to rotate forward and the upper/lower drawer trays starts to rise. When the tray has risen and the tray-up sensor is turned ON, the tray-up motor is turned OFF, then the tray stops to rising. At this time, if the empty sensor is OFF, it is judged that there is no paper in the drawer. If the empty sensor is ON, there is paper in the drawer. The tray stops at raised position regardless of the presence/absence of paper.

- If the drawer is not completely inserted when the equipment is turned ON, the tray in that drawer does not rise. When the drawer is inserted completely, the tray is raised and checks the presence/absence of paper.

- If either of the feed sensors is ON (= there is paper on the transport path) at power-ON, it is determined that a paper jam has occurred and no operation is enabled until the jammed paper is removed.

[B] Ready status
- After the tray is moved up to check the presence/absence of paper as described above, the equipment enters the ready state. During the ready mode, the tray stays at the raised position.

- When a drawer is inserted or removed in the ready state, the tray is raised again and checks the presence/absence of paper.

[C] Bypass feeding
- The bypass feed sensor detects the passing of paper.

- The bypass feed clutch is turned ON, and the bypass feed roller is rotated to start feeding.

- Paper feeding is started and the bypass feed sensor detects the passing of paper.

- The leading edge of the paper turns the registration sensor ON, and the paper is aligned with the registration rollers.

- The bypass feed clutch is turned OFF, and the bypass feed roller is stopped.

- The registration clutch is turned ON, and the paper is transported to the transfer unit.

[D] Paper feeding
- Lower drawer
  - The feed clutch and high speed clutch is turned ON, and the pickup roller, feed roller and transport roller rotate to start paper feeding.

  - The leading edge of paper turns the 1st transport sensor ON, and the feed clutch is turned OFF. (Pick-up roller and feed roller stop rotating.)

  - The leading edge of paper turns the registration sensor ON and the paper is aligned by the registration rollers.

  - The high speed clutch is turned OFF, and the transport roller stop rotating.

  - The registration roller clutch and low speed clutch are turned ON, and the paper is transported to the transfer unit.

- Upper drawer
  - The feed clutch is turned ON and the pickup roller and feed roller rotate to start paper feeding.

  - The leading edge of paper turns the registration sensor ON, and the paper is aligned by the registration rollers.

  - The feed clutch is turned OFF and the pickup roller and feed roller to stop rotating.

  - The registration roller clutch is turned ON, and the paper is transported to the transfer unit.

3

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
OUTLINE OF THE MACHINE

3.12 DRIVE SYSTEM

3.12.1 General Description

The drive system drives the drum, developer unit, cleaner unit, fuser unit, transport roller, feed roller (upper/lower drawer and bypass unit) and registration roller.
The drive system is driven by the rotation of the main motor.
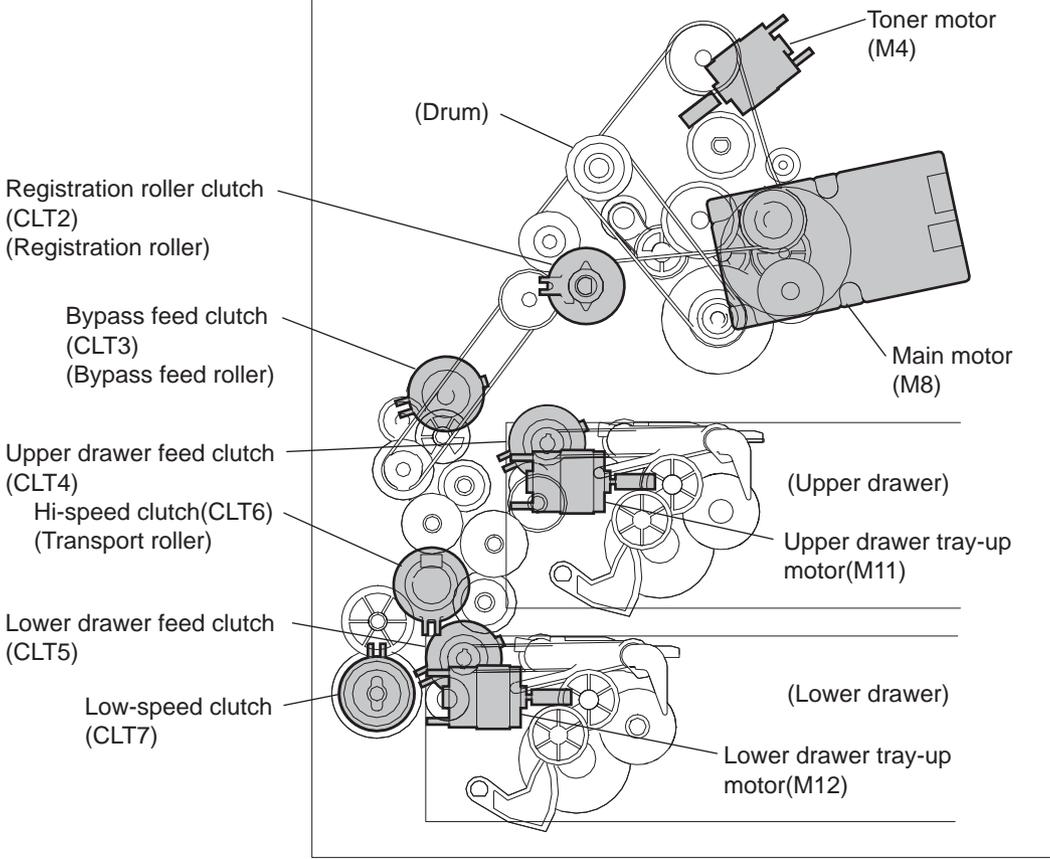
Fig. 3-46

3.12.2 Functions

1. Drum cleaner unit drive
   Drives the drum by transmitting the rotation of the main motor through the gears and the timing belt to the drum flange gear. Also drives the toner recovery auger to transport the used toner to the developer unit.

2. Developer unit drive
   Drives the developer unit by transmitting the rotation of the main motor through the gears to the developer unit gears.

3. Fuser unit drive
   Drives the fuser unit by transmitting the rotation of the main motor through the gears and timing belt to the fuser unit gears. The bridge unit, the job separator and the offset tray are driven by transmitting from the fuser unit.

4. Registration roller drive
   Drives the registration roller by transmitting the rotation of the main motor through the gears, timing belt and clutches.

5. Transport roller drive
   Drives the transport roller by transmitting the rotation of the main motor through the gears, timing belt and clutches.

6. Feed roller drive
   Drives the cassette feed roller by transmitting the rotation of the main motor through the gears and clutches.

7. Drives the paper exit options
   Drives the Bridge Kit, Job Separator and Offset Tray (all optional) by transmitting the rotation of the main motor through the gears and the timing belt to their gears.

3

3.13 DRUM RELATED SECTION

3.13.1 Configuration

This chapter explains about the area around the drum, drum itself, image processing, their parts and control circuits.
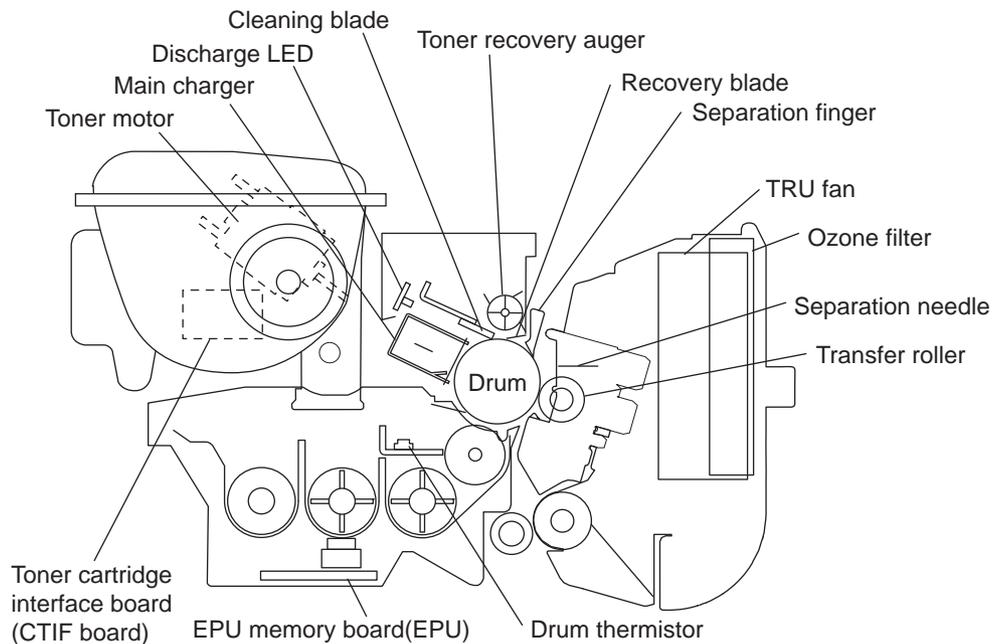
Fig. 3-47

3.13.2 Composition

Drum related section		
Drum cleaner unit	Drum	PM parts
	Main charger	PM parts
	Cleaner	
	Cleaning blade	PM parts
	Recovery blade	PM parts
	Needle electrode	PM parts
	Discharge LED	ERS
Transfer roller unit	Transfer roller	PM parts
	Separation needle	
Other	Drum thermistor	THMS4
	High-voltage transformer	HVT
	Temperature-humidity sensor	S25
	TRU fan	M9
	Process unit fan	M2
	Ozone filter	PM parts

3.13.3 Functions

1. Drum
The drum is made of a cylindrical aluminum base coated with thin film of organic photoconductive substance.
The photoconductive object becomes insulative (the electrical resistance is high) when it is not exposed to the light and electrically conductive (the electrical resistance is low) when it is exposed to the light. This object is called a photoconductor.

2. Main charger
The main charger in this equipment consists of a metal rod with U-shaped section, insulated blocks at both ends of the rod and a needle electrode attached between them.
When a high voltage is applied to the needle electrode, the air around it is charged (ionized). The ionized air then flows into the drum causing it to be charged. This phenomenon is called "corona discharge". At the same time, a control bias is applied to the main charger grid to control the charging amount.
In a dark place, negative charge is evenly applied onto the drum surface by the corona discharge and this grid. In addition, a cleaner is installed to clean up the dust attached on the needle electrode.
   - Needle electrode
   The needle electrode has aligned needles and their points perform the corona discharge. These points (electrodes) discharge toward the drum in one direction to realize the more efficient discharging comparing to the charger wire which discharges in a radial direction. Therefore, the needle electrode enables to reduce the ozone amount.
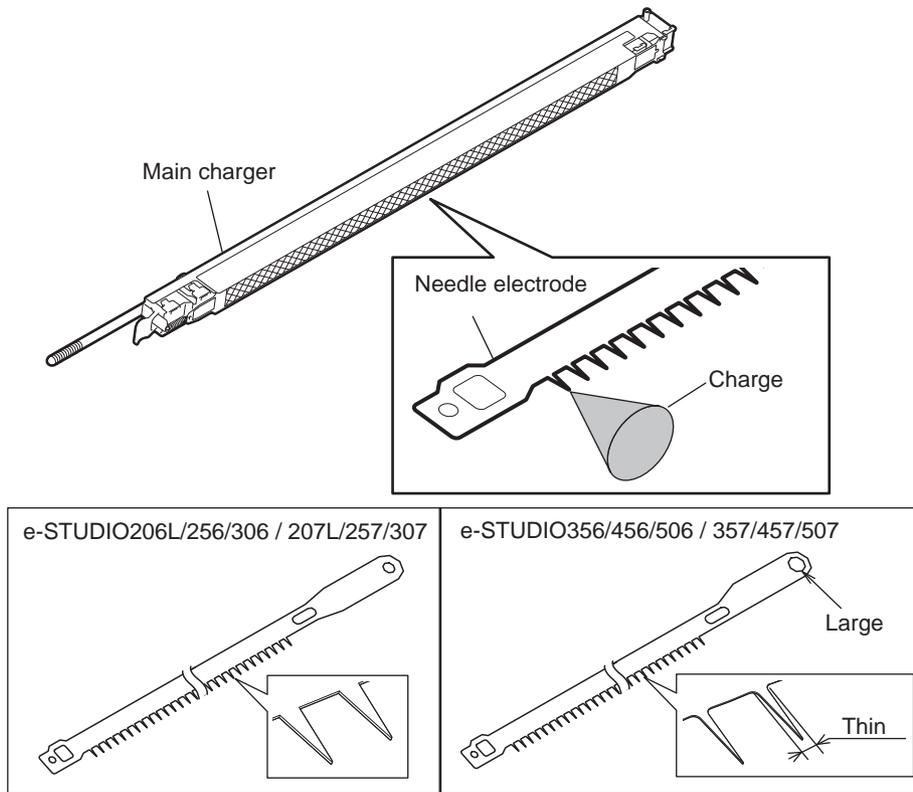
Fig. 3-48

3. Drum cleaner
   - Cleaning blade
   This blade is pressed against the drum surface and scrapes off the residual toner from the drum surface.
   - Recovery blade
   This blade catches the toner scraped off by the cleaning blade.

- Toner recovery auger
  This auger carries the residual toner scraped off to the developer unit and reuses the toner.

4. Transfer roller unit
   - Transfer supporting bias
     Positive bias is applied to the registration rollers and the pressure roller in the fuser unit so as to prevent the transfer ability from lowering under high humidity environments.
   - Transfer roller (transfer charger)
     A transfer roller is used as the transfer charger for this equipment.
     With the transfer roller, dots are reproduced more clearly because the electric charge is concentrated on a contact point between the paper and the drum surface, and thus toner is less scattered at the time of transfer. Therefore user maintenance such as the cleaning of the main charger wire of the existing models adopting the corona discharge method can be omitted.
   - Separation needle (separation charger)
     This needle requires a smaller capacity of the high-voltage transformer than the existing charger wire does. This needs to be cleaned with a brush at PM.

5. Discharge LED
   Discharging is a process to decrease or eliminate the electrical potential of the drum surface.
   The electrical resistance of the photosensitive layer is decreased by the light irradiation, and the residual charge on the drum surface is neutralized and eliminated. The electrical potential of the drum surface is fixed to a certain amount before the drum is charged.
   The number of the discharge LEDs for the e-STUDIO206L/256/306 / 207L/257/307 differs from that for the e-STUDIO356/456/506 / 357/457/507 because the discharging amount differs depending on the copy speed.
   Therefore, be sure to install discharge LEDs in a correct model.
   e-STUDIO206L/256/306 / 207L/257/307: 10 LEDs
   e-STUDIO356/456/506 / 357/457/507: 14 LEDs

6. Drum thermistor
   The drum thermistor detects the drum surface temperature, and thus each rotation speed of the exhaust fan and internal cooling fan-1 is controlled when the equipment is in the ready status.

7. High-voltage transformer
   This is a board to generate the output control voltage of the main charger, main charger grid, transfer charger, separation charger, developer bias and transfer supporting bias.

8. Temperature/Humidity sensor (S25)
   This sensor and drum thermistor detect the temperature and humidity inside of the equipment since the drum, developer material and paper are affected by environmental elements such as temperature or humidity. Thus the main charger grid, transfer/separation output, transfer guide bias, developer bias, laser output and auto-toner output are controlled to be at their optimum states.

9. Process unit fan (M2)
   This fan cools down the inside of the equipment, drum cleaning unit and developer unit.

10. TRU fan (M9)
    The TRU fan cools down the inside of the equipment. The air to exhaust includes the ozone generated by the corona discharge, and this ozone is removed by the ozone filter. The exhaust fan also helps the paper separation by absorbing the paper to post-transfer guide.

3.14 DEVELOPMENT SYSTEM

3.14.1 Configuration

The developer unit in this equipment has a recovered toner supply mechanism which recovers the recovered toner scraped off by the drum cleaning blade and recycles the recovered toner. The developer unit is driven by the main motor to rotate the mixers and developer sleeve.
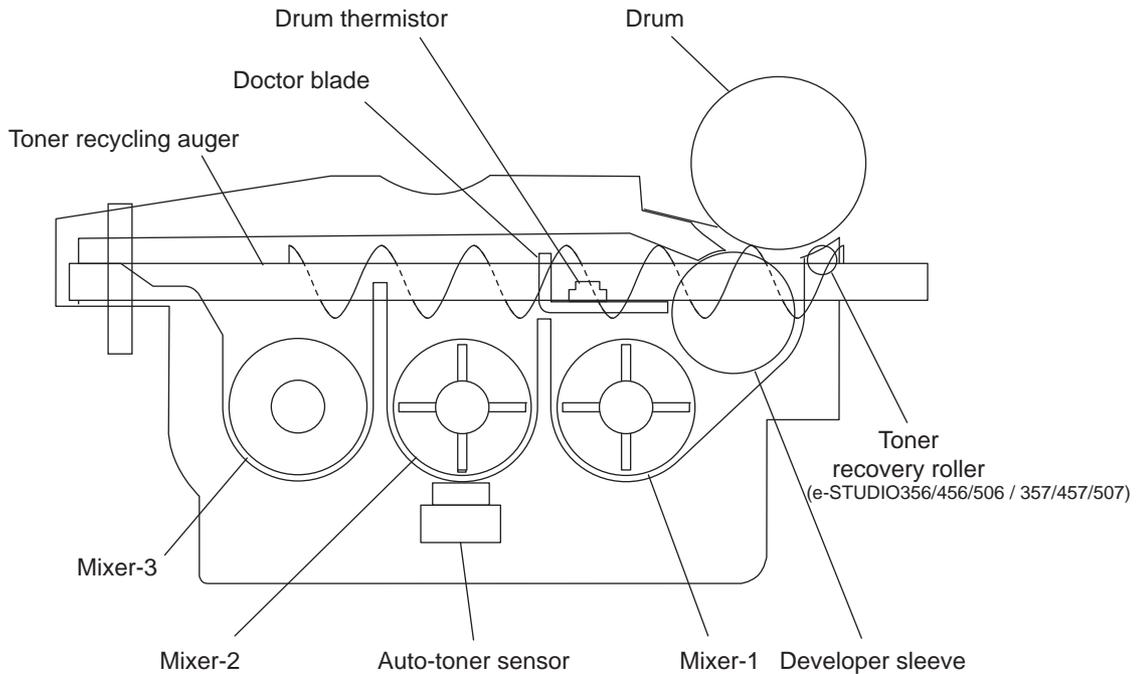
Fig. 3-49

3.14.2 Construction

Developer unit	Developer material	PM parts
	Mixers-1, -2 and -3	
	Developer sleeve (Magnet roller)	
	Doctor blade	
	Auto-toner sensor	S8
	Drum thermistor	THMS4
	EPU memory board	EPU
	Recovered toner supply mechanism (Toner recycling auger)	
Toner cartridge	Toner cartridge PC board	CTRG
	Toner cartridge interface PC board	CTIF
Toner motor		M4

3.14.3 Functions

[1] General description

1. Toner cartridge drive unit / Toner cartridge installation detection mechanism (IC chip)
   The toner cartridge is filled with toner. The toner motor drives the cartridge to supply the toner to the developer unit.
   The IC chip detects whether a toner cartridge is installed.

2. Developer unit
   - Developer material
     The developer material is made of a mixture of the carrier and toner.
     The carrier is an electrical conductive ferrite whose size is approx 44 μm. The toner is a resin particle whose size is approx 8.5 μm.
     The developer material needs periodic replacement since its quality is deteriorated by long use.

   - Mixers-1, -2 and -3
     Friction is generated by mixing the developer material. The carrier is charged to (+) and the toner to (–), and the image is formed on the drum surface by the static electricity caused by the friction. The mixer-3 is mounted exclusively for the recovered toner to mix it with sufficient time.

   - Developer sleeve (Magnetic roller)
     This is an aluminum roller with a magnet inside. The magnet works to absorb the developer material and forms the magnetic brush. The magnet is fixed and only the sleeve around is rotated. This rotation makes the magnetic brush of the developer sleeve sweep over the drum surface and perform development.

   - Doctor blade
     Doctor blade controls the amount of the developer material transported by the developer sleeve so that the magnetic brush of the developer material contacts with the drum surface properly.

   - Auto-toner sensor
     The carrier and the toner (toner density) in the developer material should be always fixed to a certain ratio to output normal images. The auto-toner sensor detects the inclusion ratio of the toner in the developer material by using a magnetic bridge circuit. When the quantity of toner becomes insufficient, the toner motor is driven to supply the toner from the toner cartridge.

   - Recovered toner supply mechanism
     The recovered toner transported from the drum cleaner is transported into the developer unit by the toner recycling auger on the front side of the developer unit. The drive of the toner recycling auger is transmitted by the mixer-3.

[2] Recovered process unit mechanism

The process unit of this equipment has two types; one is for the e-STUDIO206L/256/306 / 207L/257/307 and another is for the e-STUDIO356/456/506 / 357/457/507.
The differences between two are shown below.
Be sure not to install the process unit to a wrong model when replacing them because they are incompatible each other.
To distinguish them, check the position of the bracket hole seen from the back side.

Parts	e-STUDIO206L/256/306 / 207L/257/307	e-STUDIO356/456/506 / 357/457/507
Toner recovery roller	Not installed	Installed
Gear, belt	For low speed	For high speed
Discharge LED	10 LEDs	14 LEDs
Needle electrode	For low speed	For high speed
Position of bracket hole (seen from the back side)	Bottom	Top
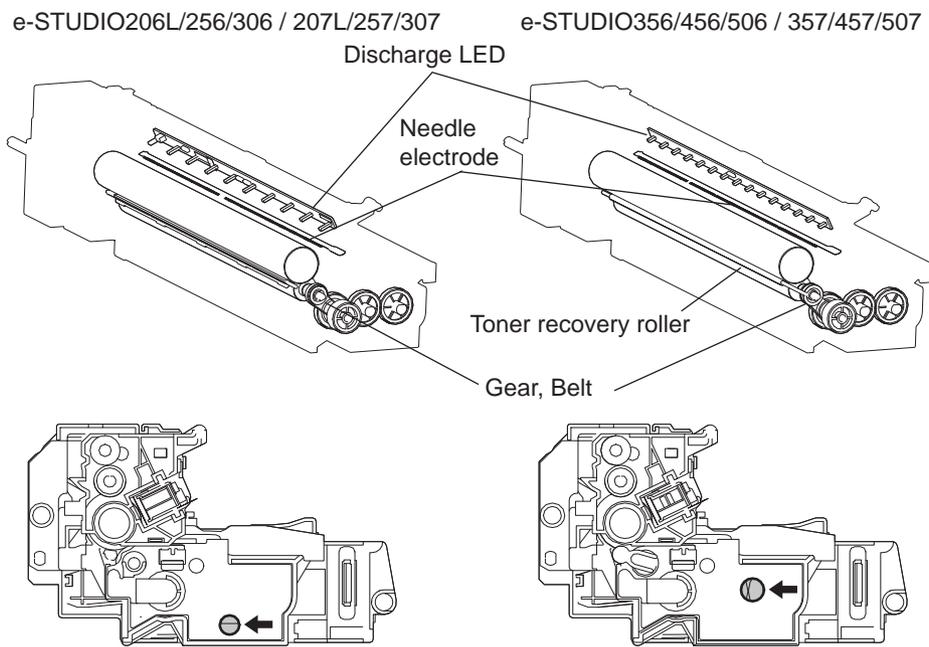
Fig. 3-50

[3] Recovered toner supply mechanism

The toner scraped off by the drum cleaning blade is transported by the toner recovery auger, toner recycling auger to be recycled, and then returned to the developer unit. Then the recovered toner in the developer unit is mixed with developer material by the mixer-3. The mixer-3 is mounted exclusively for the recovered toner to mix it with sufficient time.

On the other hand, the toner (fresh) transported into the developer unit from the toner cartridge is mixed by the mixer-2. Then the toner (fresh) and recovered toner are mixed together and further transported to the mixer-1. They are further mixed and transported to the developer sleeve by the mixer-1.
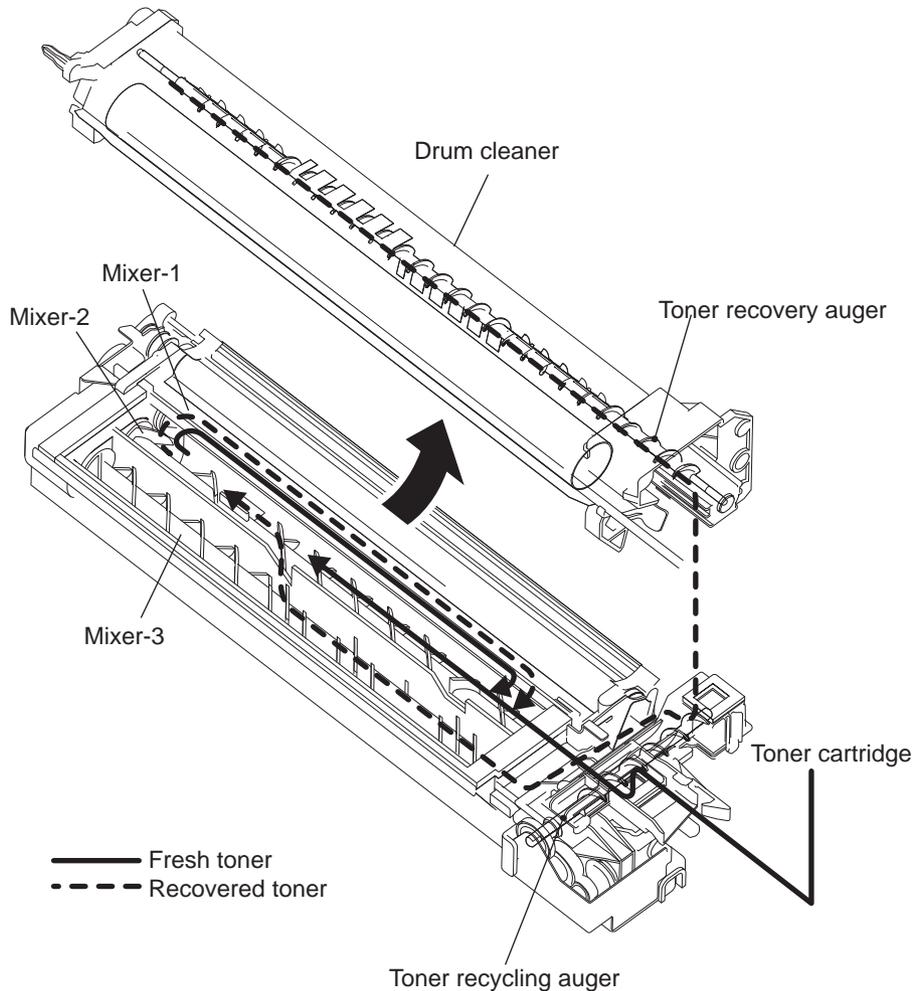
Fig. 3-51

3.15 FUSER UNIT

3.15.1 General Description

In the fuser unit, toner is fused by applying heat and pressure on the transferred image on the transported paper. The paper is then transported to the paper exit section after completion of fusing. The fuser unit consists of the heater lamps, fuser roller, pressure roller, separation fingers, thermistors, thermostat, etc.

[e-STUDIO206L/256/306 / 207L/257/307]   [e-STUDIO356/456/506 / 357/457/507]
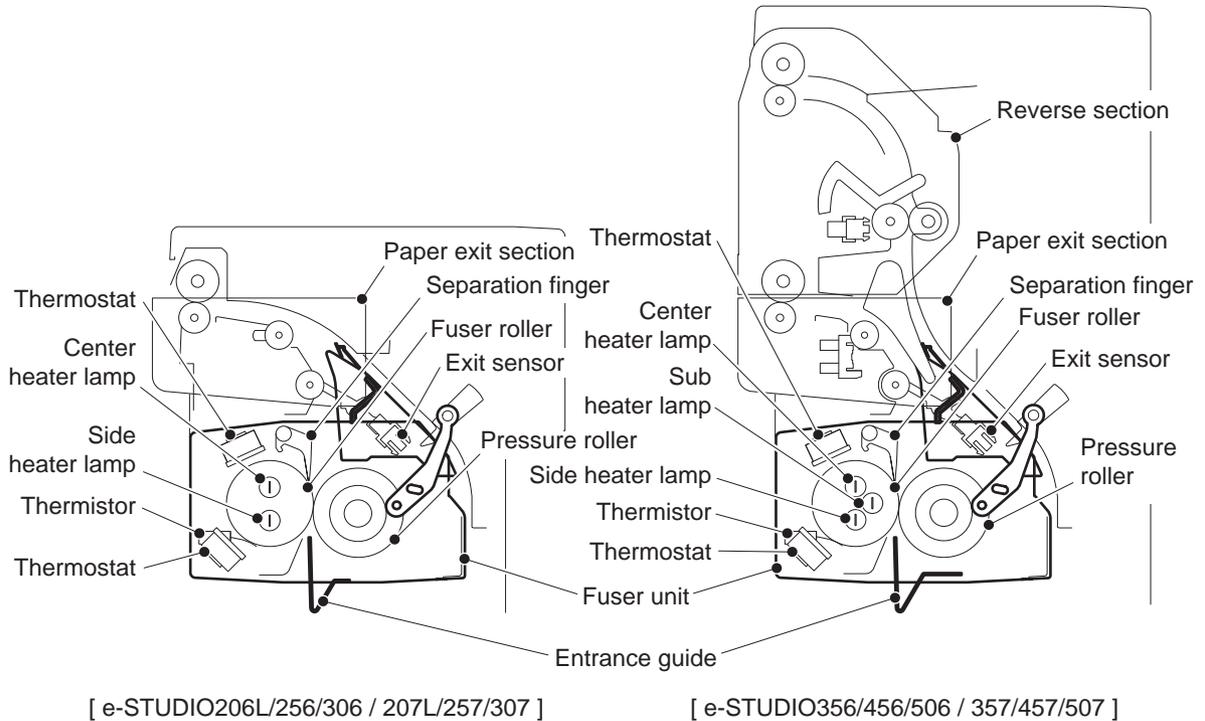
Fig. 3-52

Differences between e-STUDIO206L/256/306 / 207L/257/307 and e-STUDIO356/456/506 / 357/457/507

item	e-STUDIO206L/256/306 / 207L/257/307	e-STUDIO356/456/506 / 357/457/507
Sub heater lamp Pressure roller Connector	Not installed ø30(mm) For e-STUDIO206L/256/306 / 207L/257/307	Installed ø35(mm) For e-STUDIO356/456/506 / 357/457/507

[e-STUDIO206L/256/306 / 207L/257/307]   [e-STUDIO356/456/506 / 357/457/507]

[e-STUDIO206L/256/306 / 207L/257/307] [e-STUDIO356/456/506 / 357/457/507]
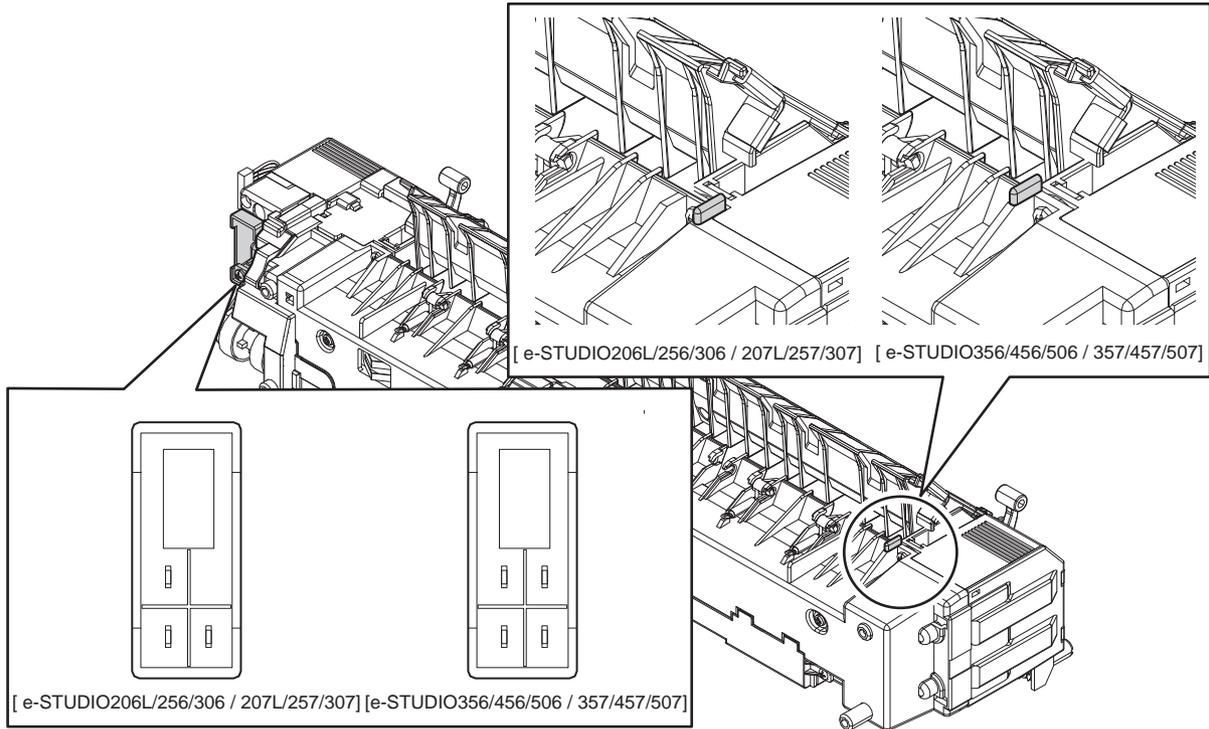
Fig. 3-53

3.15.2 Functions

1. Heater lamp
   The heater lamps are halogen lamps to apply heat to the fuser roller. The fuser unit in this equipment has 3 heater lamps with different functions each other.
   3 heater lamps having different functions are called the center heater lamp, the side heater lamp and the sub heater lamp. The center heater lamp has a coil wound up on its center and this part generates heat. The side heater lamp has coils wound up on its both ends and these parts generate heat. The sub heater lamp has a coil wound up in whole and generates heat to assist the center heater lamp and the side heater lamp.
   For e-STUDIO206L/256/306 / 207L/257/307, the sub heater lamp is not installed.
   The following is the output of each heater lamp.
   Center heater lamp: 600W
   Side heater lamp: 600W
   Sub heater lamp: 300W

2. Fuser roller
   The fuser roller applies heat onto the paper and is heated by the heater lamps installed inside of the fuser roller. The heat from this roller fuses toner onto the paper. The fuser roller in this equipment is a thin roller and the warming-up time is shortened.

3. Pressure roller
   The pressure roller is a sponge roller which assures the nip amount of the fuser roller. The pressure from the spring presses the paper onto the fuser roller to fuse the toner onto the paper efficiently. The pressure roller is electrical conductive, and to improve the transferability and prevent offset, positive (+) bias is applied to the pressure roller and the entrance guide. A sponge roller with a lower hardness is adopted for the pressure roller in this fuser unit to enable envelopes to pass through. The outside diameter of the pressure roller is ø30(mm) for e-STUDIO206L/256/306 / 207L/257/307 and ø35(mm) for e-STUDIO356/456/506 / 357/457/507.

4. Separation fingers
   The separation fingers are installed, five above the pressure roller and five above the fuser roller, in order to separate the paper adhered on each roller.

5. Center thermistor / Side thermistor
   This thermistor detects the temperature of the fuser roller to maintain it in a certain temperature range between the lower limit causing the poor fusing and the upper limit causing the high temperature offsetting. When the temperature of the fuser roller is lower than the preset temperature, it turns ON the power supply to the heater lamps, and when it is higher than the preset temperature, it cuts off the supply.
   The center thermistor detects the temperature of the center part of the fuser roller, and the side thermistor detects the temperature of one side of fuser roller and control the both sides.

6. Edge thermistor
   It detects the temperature abnormality at the both ends of the fuser roller. This area may be overheated without heat absorption by paper since paper does not pass through this area. This thermistor is not related to the temperature control of the fuser roller.

7. Thermostat
   The thermostat cuts off the power supply to the heater lamps by opening itself if the fuser roller becomes abnormally hot as a result of the problem such as thermistor malfunction. The thermostat for this equipment is used to prevent abnormal operation. When the thermostat detects any abnormality, it must be replaced as well as the other damaged parts in the fuser unit.

8. Exit sensor
   The exit sensor detects if the leading edge of the paper or the paper has passed through the fuser unit. This sensor is also used for the detection of a paper jam in the fuser unit and paper exit section.

3.15.3 Operation

The fuser roller is pressed with the spring force from the pressure roller side, and is rotated by the main motor drive. Then the paper transported to the fuser unit is hold between the fuser roller and pressure roller and the toner is fused on the paper with heat and pressure. After this, the separation fingers separate the paper from the fuser roller or pressure roller. Then the paper is transported to the inner tray, paper exiting options or ADU through the exit roller. In addition, the heater lamps in the fuser roller do not structurally rotate.

3 heater lamps having different functions each other are installed; the center heater lamp applies heat to the center part of the fuser roller, the side heater lamp applies heat to both ends of the roller, and the sub heater lamp applies heat to the whole roller and assists the heater lamp and the side heater lamp. For e-STUDIO206L/256/306 / 207L/257/307, the sub heater lamp is not installed.

The thermistors control the temperature of fuser roller and detect temperature abnormalities. If the temperature becomes excessively high, the thermostat is opened to stop the power supply to the heater lamps.

3.15.4 Heater Control Circuit

[1] Configuration

In this equipment, the surface temperature of the fuser roller is controlled by turning ON/OFF 3 heater lamps (center, side and sub) which have different heat-generating positions with the command from the engine-CPU on the LGC board.

The surface temperature of the fuser roller is detected by 3 thermistors (center, side and edge) and then the information of the temperature is transmitted to the engine-CPU and each control circuit. Based on the detected temperature, the engine-CPU transmits the control signal of the heater lamp to the control circuit (TRC: Triac) of each heater lamp on the switching regulator via the temperature control circuit. The power supply to the fuser roller is thus controlled by driving TRC. The temperature control circuit detects the overheating of the fuser roller. In case that the surface temperature of the fuser roller has exceeded the specified temperature, the temperature control circuit turns the heater lamp OFF. If the temperature control circuit does not function for some reason and the fuser roller is abnormally overheated as the result, a relay OFF circuit transmits a relay OFF signal to turn off the relay, and to turn the power OFF forcibly.

If the temperature control circuit does not function for some reason and the fuser roller is abnormally overheated as the result, a forcible power-OFF circuit transmits a reset signal to the power switch to turn the power OFF forcibly. In addition, if these control circuits do not function with thermistor abnormality or other reasons and the fuser roller is abnormally overheated as the result, 2 thermostats (front and center ones in the fuser unit) shut off the power supply to the heater lamps to protect the equipment.

For e-STUDIO206L/256/306 / 207L/257/307, the sub heater lamp is not installed.
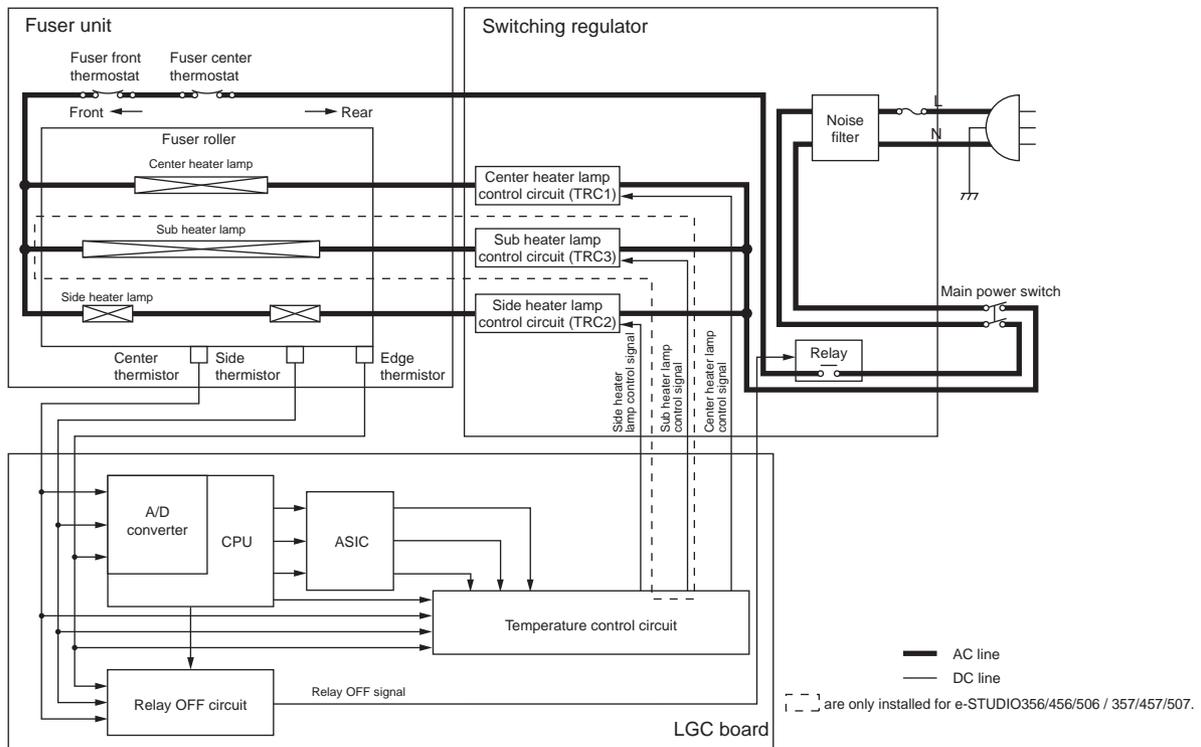
Fig. 3-54

3.16 PAPER EXIT SECTION/REVERSE SECTION

3.16.1 General Description

For e-STUDIO206L/256/306 / 207L/257/307, a sheet of paper with the toner fused on is transported to the inner tray or Automatic Duplexing Unit (ADU) by switchbacking. in the paper exit section.
For e-STUDIO356/456/506 / 357/457/507, a sheet of paper with the toner fused on is transported to the inner tray, but the exit roller does not switchback.
For e-STUDIO356/456/506 / 357/457/507, the exit roller has the offset function and the paper position is shifted apart from one another back and forth.

The reverse section is only installed for e-STUDIO356/456/506 / 357/457/507.
It is a path only for switchbacking to the ADU to enhance the high-speed printing.
The reverse section has the reverse gate which switches the transport path to the paper exit section or the reverse section.
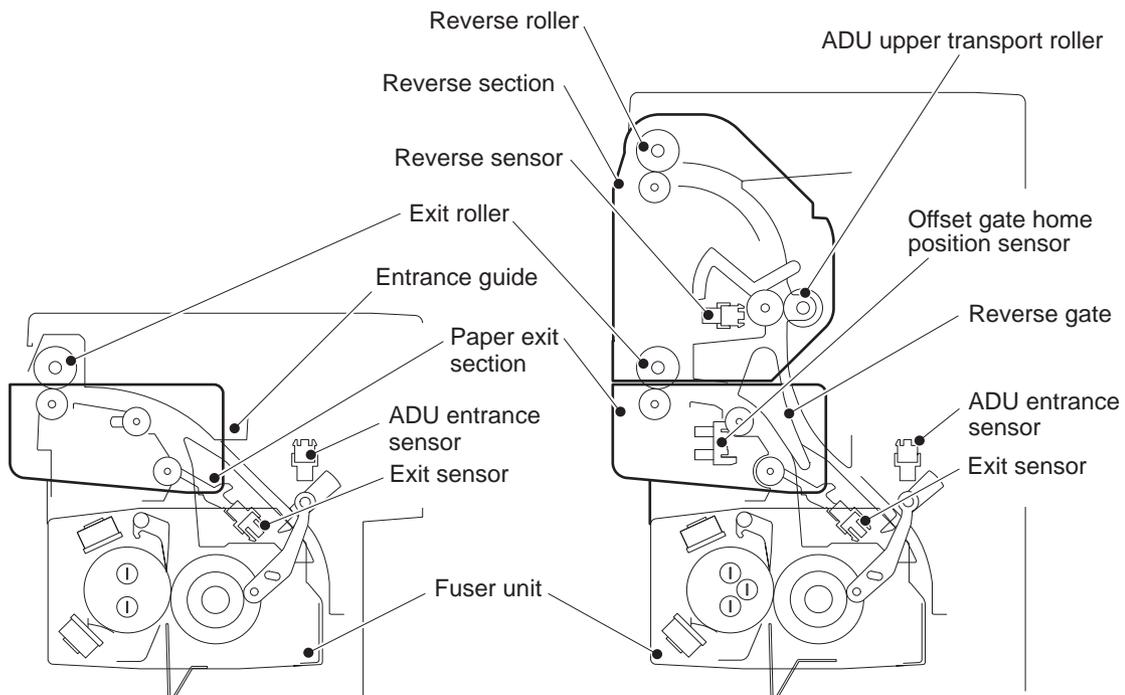
[e-STUDIO206L/256/306 / 207L/257/307]   [e-STUDIO356/456/506 / 357/457/507]

Fig. 3-55

Differences between e-STUDIO206L/256/306 / 207L/257/307 and e-STUDIO356/456/506 / 357/457/507

item	e-STUDIO206L/256/306 / 207L/257/307	e-STUDIO356/456/506 / 357/457/507
Reverse section (Switchback mechanism) Reverse motor Reverse sensor Reverse roller	Not installed	Installed
Offset mechanism Offset motor Offset sensor Offset gate	Not installed	Installed

3.16.2 Functions

1. Exit motor (M10)
   The exit motor is a stepping motor which drives the exit roller. For e-STUDIO206L/256/306 / 207L/257/307, this motor rotates exit roller reversely to switchback when the paper is transported to the ADU.

2. Exit roller
   The exit roller transports the paper from the fuser unit to the inner tray. This roller is driven by the exit motor.
   For e-STUDIO206L/256/306 / 207L/257/307, this roller switchbacks to transport the paper to the ADU.
   For e-STUDIO356/456/506 / 357/457/507, the exit roller has the offset function.

3. Reverse sensor (S23) (only installed for e-STUDIO356/456/506 / 357/457/507)
   The reverse sensor detects if the leading edge of the paper from the paper exit section has reached to the exit roller. This sensor is also used for the detection of a paper jam in the reverse section, and the detection of the trailing edge of the reversed paper at duplex printing as well.

4. Reverse motor (M14) (only installed for e-STUDIO356/456/506 / 357/457/507)
   The reverse motor is a stepping motor which drives the reverse roller, however, this motor rotates reversely to switchback when the paper is transported to the upper exit area.

5. Reverse roller (only installed for e-STUDIO356/456/506 / 357/457/507)
   The reverse roller transports the paper from the paper exit section to the job separator (MJ-5006) or ADU. This roller is driven by the reverse motor.

6. Offset gate motor (M13) (only installed for e-STUDIO356/456/506 / 357/457/507)
   This offset gate motor drives the offset gate and shift the paper exit position back and forth.

7. Offset gate home position sensor (S24) (only installed for e-STUDIO356/456/506 / 357/457/507)
   This offset gate home position sensor detects if the offset gate driven is back in the home position.

8. Reverse gate solenoid (SOL1) (only installed for e-STUDIO356/456/506 / 357/457/507)
   This reverse gate solenoid drives the reverse gate and switches the paper transport path (exit section of reverse section).

3.16.3 Exit Motor / Reverse Motor / Offset Gate Motor Drive

1. Exit Motor
   The figure shown below is the layout of the driving gears of the exit roller.
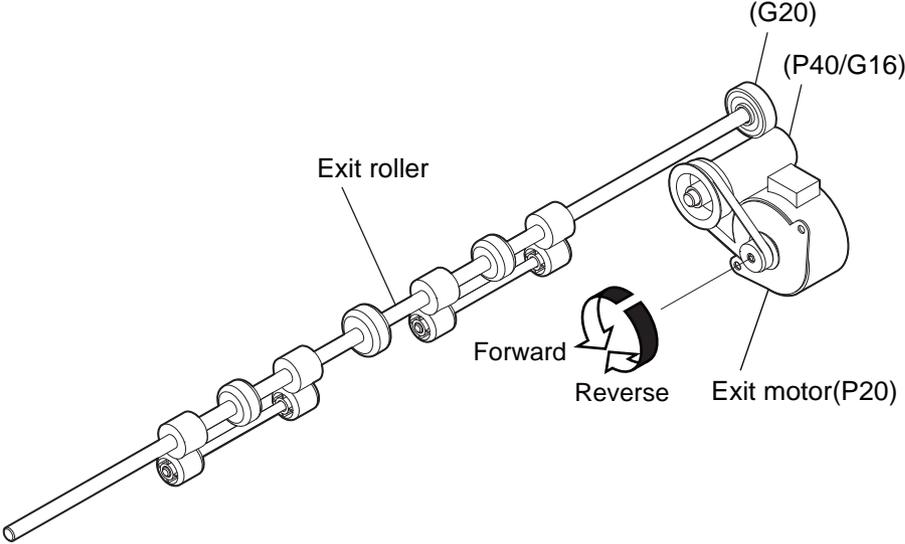
Fig. 3-56

2. Reverse Motor (only installed for e-STUDIO356/456/506 / 357/457/507)
   The figure shown below is the layout of the driving gears of the reverse roller.
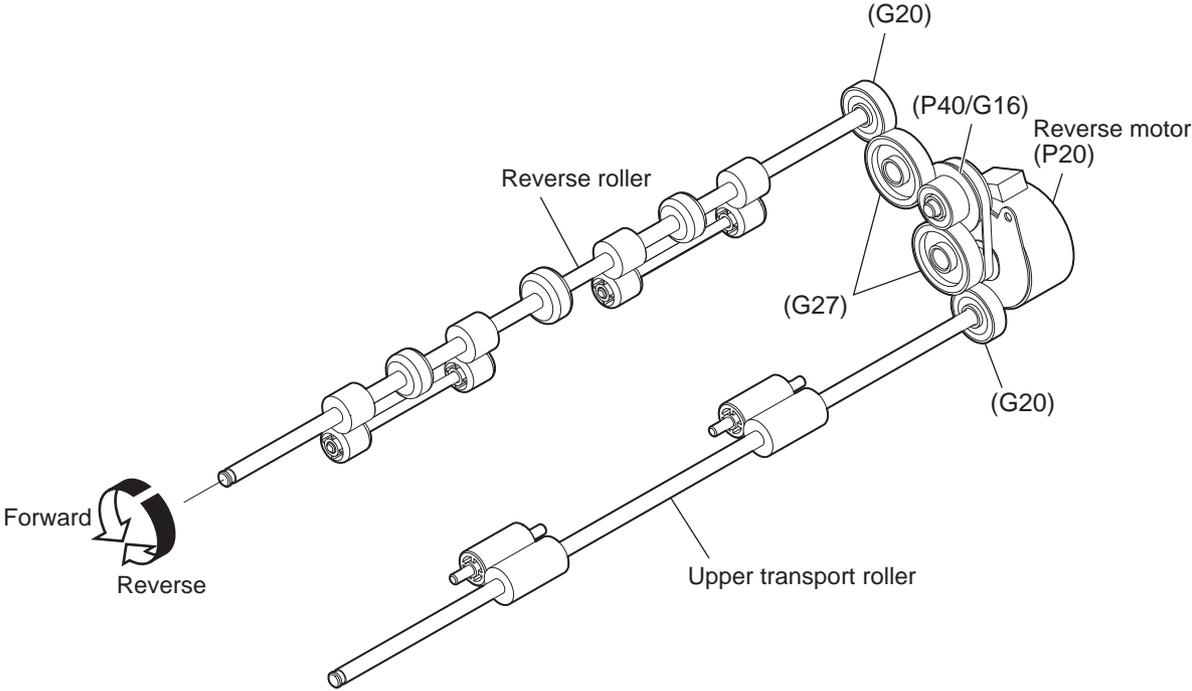
Fig. 3-57

3. Offset gate motor (only installed for e-STUDIO356/456/506 / 357/457/507)
   The figure shown below is the layout of the driving gears of the offset gate.
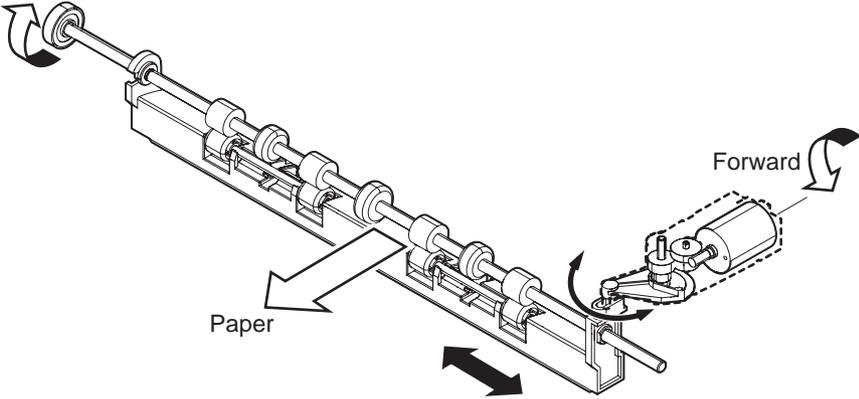
Fig. 3-58

3.17 AUTOMATIC DUPLEXING UNIT (ADU)

3.17.1 General Description

The Automatic Duplexing Unit (ADU) of this equipment is a unit to transport the paper, which is switchbacked at the paper exit section/ reverse section and transported reversed, to the registration roller again.

ADU
Reverse roller
Reverse section
Exit roller
Paper exit section
Fuser section

Exit roller
ADU
Paper exit section
Fuser section

ADU entrance sensor
ADU upper transport roller
ADU opening/closing switch
ADU motor
ADU exit sensor
ADU lower transport roller
ADU clutch
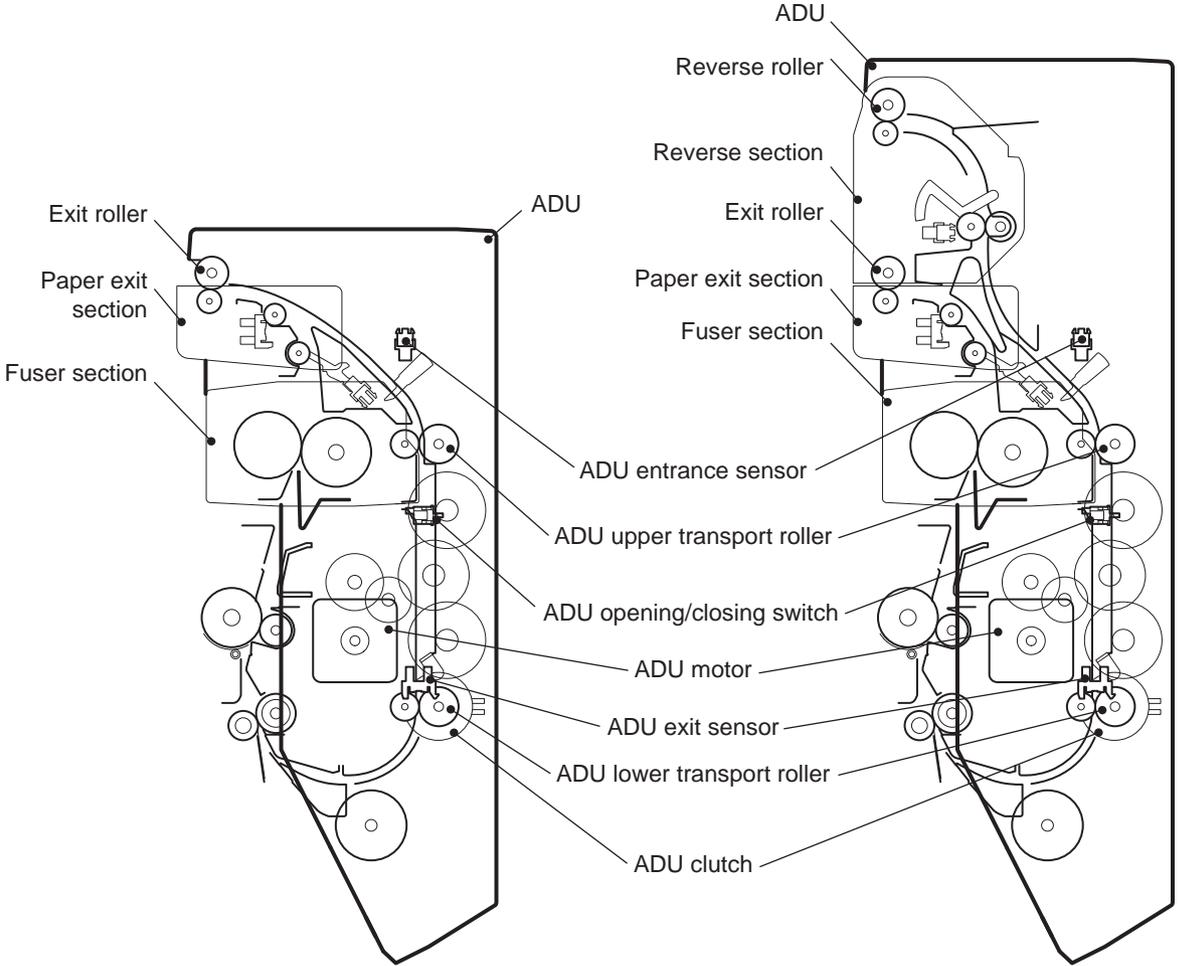
[e-STUDIO206L/256/306 / 207L/257/307]   [e-STUDIO356/456/506 / 357/457/507]

Fig. 3-59

3.17.2 Functions

1. ADU motor (M5)
   Drives the ADU upper transport roller and the ADU lower transport roller. The ADU motor is installed to the rear frame of the equipment.

2. ADU clutch (CLT1)
   Transmits the drive from the ADU motor (M5) to the ADU lower transport roller.

3. ADU entrance sensor (S11)
   Detects the paper transported in the ADU.

4. ADU exit sensor (S10)
   Detects the paper transported in the ADU.

5. ADU opening/closing switch (SW5)
   Detects opening/closing of the ADU.

6. ADU upper transport roller, ADU lower transport roller
   Transports the paper inside the ADU.

3.17.3 Description of Operations

The back side printing (recording data of the back side of paper) is performed first by selecting duplex printing mode and pressing the [START] button.
Then for e-STUDIO356/456/506 / 357/457/507, when the paper passed the reverse sensor, the reverse gate solenoid switches the reverse gate, and the reverse roller switchbacks to transport the paper into the ADU.
For e-STUDIO206L/256/306 / 207L/257/307, when the paper passed the exit sensor, the exit roller switchbacks to transport the paper into the ADU.

The switchbacked paper is transported with acceleration. The transportation decelerates in front of the ADU exit sensor. The front side printing (recording data of the front side of paper) is performed at the registration section. The paper passes through the exit gate again and is transported to the inner tray to complete duplex printing.

There are three methods of judging a paper jam: (1) whether the ADU entrance sensor is turned ON or not in a specified period of time after the switchback to the ADU started (E510). (2) whether the ADU exit sensor is turned ON or not in a specified period of time after the ADU entrance sensor is turned ON (E520). (3) whether the registration sensor is turned ON or not in a specified period of time after the paper feeding from the ADU to the equipment (E110).

If the ADU is opened during duplex printing, the ADU motor and ADU clutch are stopped, namely, ADU open jam occurs (E430).
The equipment is never to be stopped during printing by interruption in any case except paper jam or service call.
The operation of the duplex printing differs depending on the size of the paper; single-paper circulation and alternateness circulation. The figures in the following pages show the circulating operations during duplex copying. The numbers in the figures indicate the page numbers.

3.17.4 Drive of ADU

When the ADU motor rotates in the direction A, the ADU upper transport roller is rotated with the drive of the gears and belt, and thus the paper is transported. When the ADU clutch is turned ON, the ADU lower transport roller is rotated.
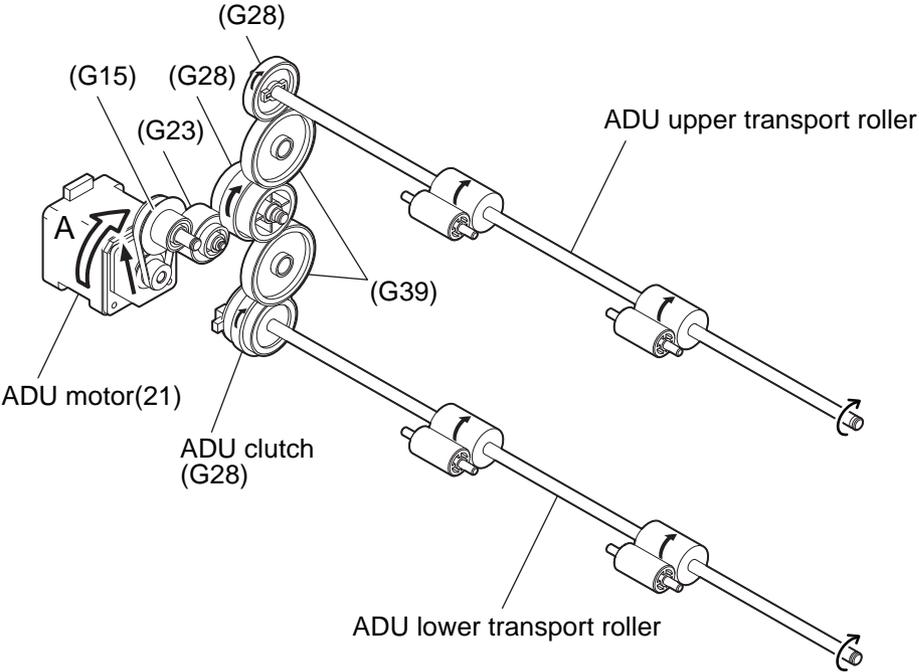
Fig. 3-60

3.18 POWER SUPPLY UNIT

3.18.1 Construction

The power supply unit consists of the AC filter, insulation type DC output circuit, heater lamp control circuit and damp heater power supply circuit.

1. AC filter
   Eliminates noise from the outside and prevents the noise generated by the equipment from leaking to the outside.

2. DC output circuits
   Converts AC voltage input from outside to DC voltage and supplies it to each electric part. The DC voltage is divided into the following two lines.

   a. Main power switch line: Power supply used in the entire equipment during image forming process. Two kinds of voltage (+5V, +12V) are output when the main power switch of the equipment is turned ON.

   b. Door switch line: Power supply used in the entire equipment during image forming process, being supplied via the interlock switch. Two kinds of voltage (+5VD and +24VD) are output only when the main power switch of the equipment is turned ON and two doors (front cover and ADU unit) are closed.

3. Heater lamp control circuit
   TRC (Triac) is driven by the heater control signal (HTR1ON/HTR2ON/HTRASTON) from the LGC board and then AC power is supplied to each heater lamp (center, side and sub) in the fuser unit. For e-STUDIO206L/256/306 / 207L/257/307, the sub heater lamp is not installed and the HTRASTON signal is not supplied.

4. Damp heater power supply circuit
   AC power input from outside is output directly to the FUS board and then supplied to the damp heater in each section in the equipment. The damp heater switch is set to OFF as initial setting for shutting off the power to the damp heater. When using the damp heater, the damp heater switch needs to be turn ON after installing the equipment. The damp heater (including the FUS board) is an option in NAD/MJD model, and is installed as standard device in other models.

3

3.18.2 Operation of DC Output Circuits

1. Starting line output
   When the main power switch of the equipment is turned ON, power starts supplying to all the lines only when two doors (front cover and ADU) are closed.

2. Stopping line output
   When the main power switch of the equipment is turned OFF, PWR-DN signal is output after the instantaneous outage insurance time elapses and then the supply of each voltage stops. If the supply of voltage of the main line (+5VS, +5VA, +12VA) stops earlier than the 24V line does, it may cause the damage of the electron device on each control circuit. To prevent this, the supply of these voltages stops after the PWR-DN signal is output and the minimum retaining time elapses.

3. Output protection
   Each output system includes an overcurrent and overvoltage protection circuits (a fuse and internal protection circuit). This is to prevent the defectives (damage or abnormal operation of the secondary circuit) which may be caused by an overcurrent due to a short circuit or an overvoltage due to a short circuit between different voltages. If the protection circuit is activated (except the case the fuse is blown out), remove the causes such as short-circuit. Turn ON the power again to clear the overcurrent protection.

4. Recovering from super sleep mode (normal starting)
   When the [ON/OFF] button on the control panel is pressed during the super sleep mode, a super sleep mode shifting/recovering signal (SYS-EN) is output from the SYS board and then voltage starts being supplied to all the lines, if no error was detected.

5. Shifting to super sleep mode (normal stopping)
   When the [ON/OFF] button on the control panel is pressed for 1 second or more while the main power switch of the equipment is toggled ON, a super sleep mode shifting/recovering signal (SYS-EN) is output from the SYS board after the initialization is finished and then all lines for output voltage except +5VS are closed.

   The Super sleep mode is disabled under the following conditions.

   - When the Super sleep mode is set to be disabled on the control panel, TopAccess and with the code 08-8543

   - When the Wireless LAN Module, Bluetooth Module, e-BRIDGE ID Gate or Data Overwrite Enabler is installed, or when the IPsec Enabler is installed and its function is set to be enabled

   - When the setting for receiving confidential data on each line (08-3846) is set to ON

   - When operation is being performed in the self-diagnosis mode (Disabled until the main power switch is turned OFF)

   - When 1000BASE-T is selected

6. State of the power supply
   - Power OFF
     The main power switch of the equipment is turned OFF. Since DC voltage is not supplied to each board, the equipment is not operable.

   - Normal state (including Energy saving mode)
     The main power switch of the equipment is turned ON and DC voltage is supplied to each board. When the cover of the equipment is closed, 24V DC voltage is supplied and the equipment enters into the ready/printing state.

- Sleep mode
  Since +5VB, +5VD, +12VB and +24V DC voltages are not supplied but +12VA, +5VA and +5VS
  DC voltages only, the equipment does not enter into the ready state.

- Super Sleep mode
  Only DC voltage and +5VS are output from the power supply unit. The [ON/OFF] button is
  monitored and the LED of the main power switch is lit.

3

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
OUTLINE OF THE MACHINE

3.18.3 Output Channel

The followings are two output channels which are not linked with the door switch.

[A] e-STUDIO206L/256/306/356/456/506
1. +5V
    +5VS   :   CN418   Pins 11 and 12
                Output to the SYS board
    +5VA   :   CN418   Pins 8 and 9
                Output to the SYS board
    +5VB   :   CN418   Pins 1
                Output to the SYS board
    +5VB   :   CN415   Pin 4
                Output to the FUS board
    +5VB   :   CN415   Pins 1, 2 and 3
                Output to the LGC board, PFP/ LCF (via LGC board),
                Bridge unit / Job separator / Offset tray (via LGC board)
    +5VB   :   CN415   Pin 5
                Output to the finisher
    +5VB   :   CN419   Pins 1 and 2
                Output to the SLG board
    +5VB   :   CN419   Pin 4
                Output to the RADF

2. +12V
    +12VA   :   CN418   Pin 5
                Output to the SYS board
    +12VB   :   CN419   Pin 5
                Output to the SLG board

The followings are two output channels which are linked with the door switch.

1. +5V
    +5VD   :   CN415   Pin 14
                Output to the LGC board

2. +24V
    +24VD1 :   CN415   Pins 19, 21, 22 and 24
                Output to the LGC board, High-voltage transformer (via LGC board),
                PFP/LCF (via LGC board), Bridge unit / Job separator / Offset tray (via LGC board)
    +24VD1 :   CN419   Pins 11 and 12
                Output to the SLG board
    +24VD2 :   CN417   Pins 1 and 2
                Output to the MOT/MOT2 board
    +24VD2 :   CN417   Pins 3 and 4
                Output to the main motor
    +24VD3 :   CN419   Pins 15 and 16
                Output to the RADF
    +24VD4 :   CN415   Pin 23
                Output to the finisher

<<Output connector>>
Not linked with the door switch

Connector	Destination	Voltage
CN418	For the SYS board	+5VS, +5VA, +5VB, +12VA
CN415	For the LGC board, FUS board, PFP/LCF (via LGC board), Bridge unit / Job separator / Offset tray (via LGC board), finisher	+5VB
CN419	For the SLG board, RADF	+5VB, +12VB

Linked with the door switch

Connector	Destination	Voltage
CN415	For the LGC board, High-voltage transformer (via LGC board), PFP/LCF (via LGC board), Bridge unit / Job separator / Offset tray (via LGC board), finisher	+5VD, +24VD1, +24VD4
CN417	For the Main motor, MOT/MOT2 board	+24VD2
CN419	For the SLG board, RADF	+24VD1, +24VD3

3

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
OUTLINE OF THE MACHINE

[B] e-STUDIO207L/257/307/357/457/507

1. +5V
+5VS   :   CN418   Pins 11 and 12
            Output to the SYS board
+5VA   :   CN418   Pins 8 and 9
            Output to the SYS board
+5VB   :   CN418   Pins 1
            Output to the SYS board
+5VB   :   CN415   Pin 4
            Output to the FUS board
+5VB   :   CN415   Pins 1, 2 and 3
            Output to the LGC board, PFP/ LCF (via LGC board),
            Bridge unit / Job separator / Offset tray (via LGC board)
+5VB   :   CN415   Pin 5
            Output to the finisher

2. +12V
+12VA   :   CN418   Pins 5 and 6
            Output to the SYS board
+12VB   :   CN418   Pin 2
            Output to the SYS board

The followings are two output channels which are linked with the door switch.

1. +5V
+5VD   :   CN415   Pin 14
            Output to the LGC board

2. +24V
+24VD1 :   CN415   Pins 19, 21, 22 and 24
            Output to the LGC board, High-voltage transformer (via LGC board),
            PFP/LCF (via LGC board), Bridge unit / Job separator / Offset tray (via LGC board)
+24VD1 :   CN419   Pins 11 and 12
            Output to the SYS board
+24VD2 :   CN417   Pins 1 and 2
            Output to the MOT/MOT2 board
+24VD2 :   CN417   Pins 3 and 4
            Output to the main motor
+24VD3 :   CN419   Pins 15 and 16
            Output to the SYS board
+24VD4 :   CN415   Pin 23
            Output to the finisher

[A] e-STUDIO206L/256/306/356/456/506

<<Output connector>>

Not linked with the door switch

Connector	Destination	Voltage
CN418	For the SYS board	+5VS, +5VA, +5VB, +12VA
CN415	For the LGC board, FUS board, PFP/LCF (via LGC board), Bridge unit / Job separator / Offset tray (via LGC board), finisher	+5VB
CN419	For the SLG board, RADF	+5VB, +12VB

Linked with the door switch

Connector	Destination	Voltage
CN415	For the LGC board, High-voltage transformer (via LGC board), PFP/LCF (via LGC board), Bridge unit / Job separator / Offset tray (via LGC board), finisher	+5VD, +24VD1, +24VD4
CN417	For the Main motor, MOT/MOT2 board	+24VD2
CN419	For the SLG board, RADF	+24VD1, +24VD3

[B] e-STUDIO207L/257/307/357/457/507

<<Output connector>>

Not linked with the door switch

Connector	Destination	Voltage
CN418	For the SYS board	+5VS, +5VA, +5VB, +12VA, +12VB
CN415	For the LGC board, FUS board, PFP/LCF (via LGC board), Bridge unit / Job separator / Offset tray (via LGC board), finisher	+5VB

Linked with the door switch

Connector	Destination	Voltage
CN415	For the LGC board, High-voltage transformer (via LGC board), PFP/LCF (via LGC board), Bridge unit / Job separator / Offset tray (via LGC board), finisher	+5VD, +24VD1, +24VD4
CN417	For the Main motor, MOT/MOT2 board	+24VD2
CN419	For the SYS board, RADF	+12VD1, +24VD3

3.18.4 Fuse

When the power supply secondary fuse is blown out, confirm that there is no abnormality with each part using the following table.

[A] e-STUDIO206L/256/306/356/456/506

Voltage	Board/Unit	Part	Fuse type
+24VD1	LGC	Process unit fan	F201:8A (Time-lag)
		Toner motor	
		Polygonal motor	
		Upper Tray-up motor	
		Lower Tray-up motor	
		TRU fan	
		Switching regulator cooling fan	
		Auto-toner sensor	
		Upper drawer feed clutch	
		Lower drawer feed clutch	
		Registration roller clutch	
		High speed transport clutch	
		Low speed transport clutch	
		ADU clutch	
		Discharge LED	
		Main power switch	
		High-voltage transformer	
		Bypass feed clutch	
	SLG	Scan motor	
		Exposure lamp (Lamp inverter board / LED board)	
	Key copy counter / Coin controller		
	Bridge unit / Job separator / Offset tray		
	PFP/LCF		
+24VD2	MOT/MOT2	ADU motor	F202:8A (Time-lag)
		Exit motor	
		Reverse motor (e-STUDIO356/456/506 only)	
		REV gate solenoid (e-STUDIO356/456/506 only)	
	Main motor		
+24VD3	RADF		F203:4A (Time-lag)
+24VD4	Finisher		F204:5A (Time-lag)

[B] e-STUDIO207L/257/307/357/457/507

Voltage	Board/Unit	Part	Fuse type
+24VD1	LGC	Process unit fan	F201:8A (Time-lag)
		Toner motor	
		Polygonal motor	
		Upper Tray-up motor	
		Lower Tray-up motor	
		TRU fan	
		Switching regulator cooling fan	
		Auto-toner sensor	
		Upper drawer feed clutch	
		Lower drawer feed clutch	
		Registration roller clutch	
		High speed transport clutch	
		Low speed transport clutch	
		ADU clutch	
		Discharge LED	
		Main power switch	
		High-voltage transformer	
		Bypass feed clutch	
	SYS	Scan motor	
		Exposure lamp (Lamp inverter board / LED board)	
	Key copy counter / Coin controller		
	Bridge unit / Job separator / Offset tray		
	PFP/LCF		
+24VD2	MOT/MOT2	ADU motor	F202:8A (Time-lag)
		Exit motor	
		Reverse motor (e-STUDIO357/457/507 only)	
		REV gate solenoid (e-STUDIO357/457/507 only)	
	Main motor		
+24VD3	RADF		F203:4A (Time-lag)
+24VD4	Finisher		F204:5A (Time-lag)

4. DISASSEMBLY AND REPLACEMENT

4.1 Disassembly and Replacement of Covers
<e-STUDIO206L/256/306/356/456/506>

4.1.1 Front cover

(1) Open the front cover.
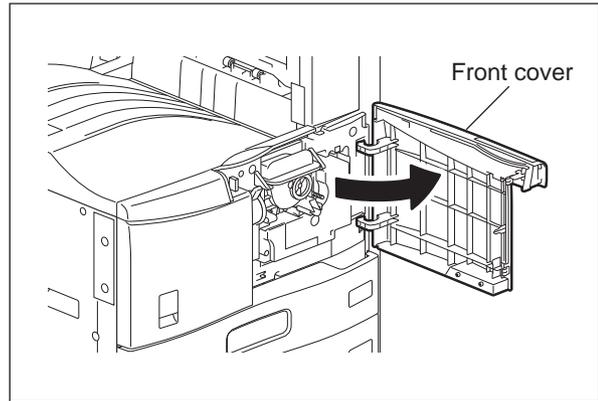
Fig. 4-1

(2) Slide the upper hinge to the left side while holding it down, and then take off the upper hinge.
(3) Take off the lower hinge by lifting up the front cover. Then take off the front cover.
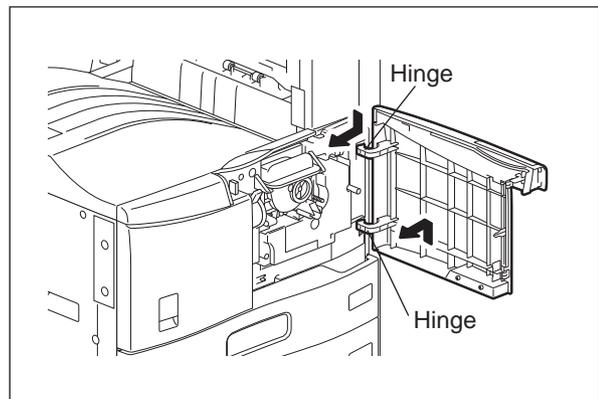
Fig. 4-2

4.1.2 Front upper cover

(1) Remove 1 screw and take off the front upper cover.
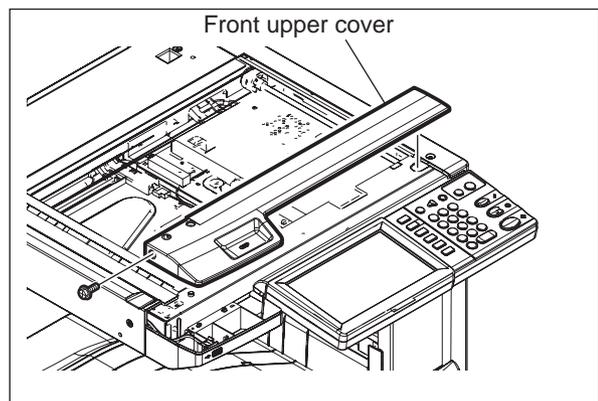
Fig. 4-3

4.1.3 Front lower cover

(1) Open the front upper cover.
     P. 4-1 "4.1.2 Front upper cover"
(2) Remove 2 screws and then take off the control panel unit.
(3) Disconnect the USB port from the front lower cover.
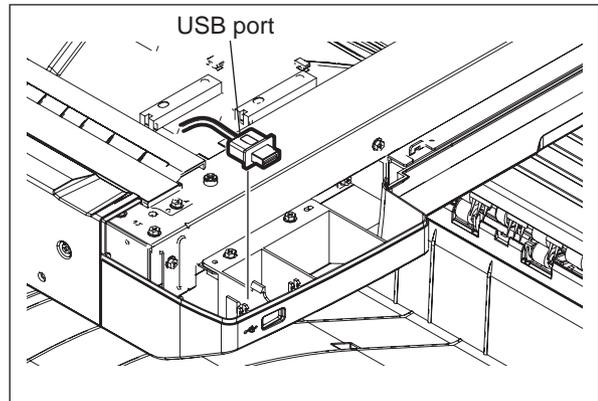
Fig. 4-4

(4) Remove 2 screws and pull the left side of the front lower cover toward you. Then take off the front lower cover by sliding it to the left side.
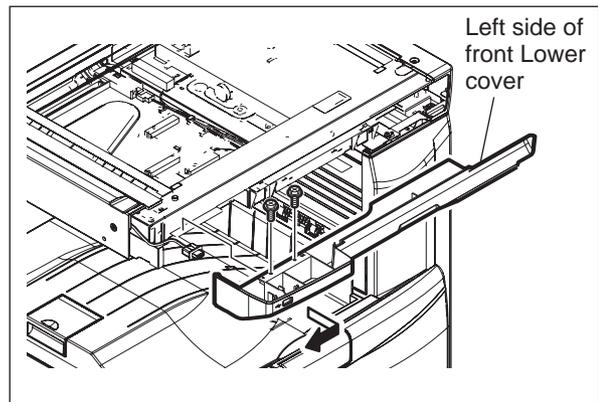
Fig. 4-5

4.1.4 Left upper cover

(1) Remove 2 screws and take off the left upper cover.
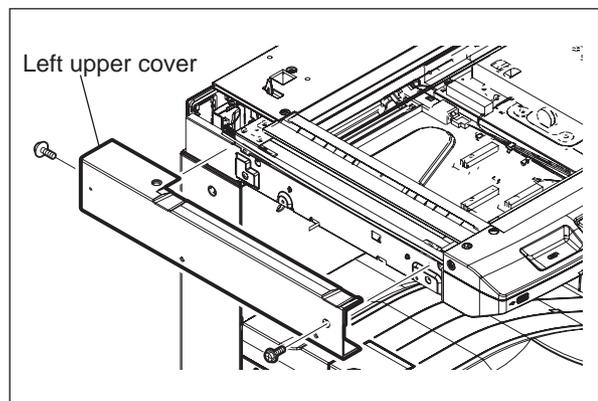
Fig. 4-6

4.1.5 Right upper cover

(1) Remove 3 screws and take off the right upper cover.
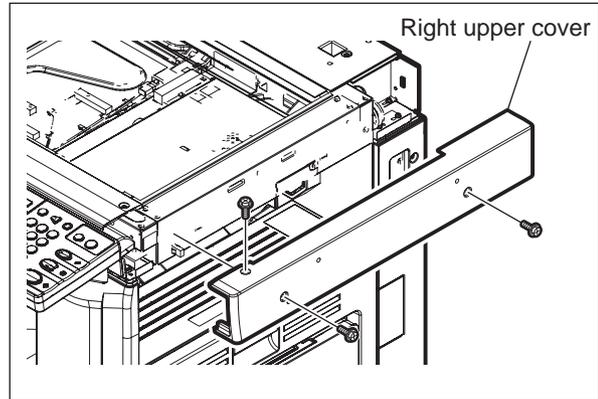
Fig. 4-7

4.1.6 Rear cover

(1) Remove 5 screws. Lift up the rear cover and then release 3 hooks on the upper side. Then open the upper side of the rear cover slightly toward you, and then take off the rear cover by lifting it up.

Remarks:
When installing the rear cover, hang the 3 hooks of the rear cover on the frame of the equipment, and then hang the 3 hooks on the holes of the upper rear cover to fix it. Then tighten 5 screws to fix it securely.
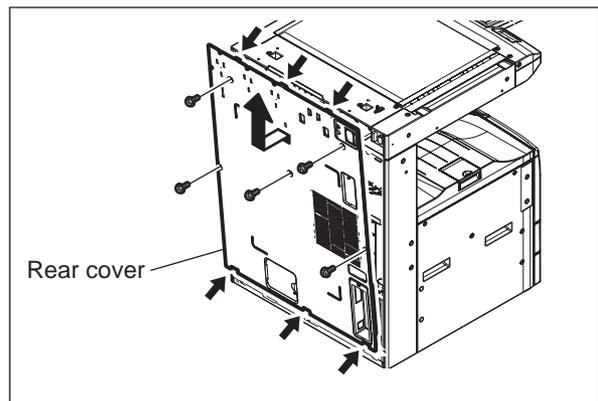
Fig. 4-8

Notes:
When the Antenna (GN-3010, optional) is installed, take it off first and then remove the rear cover. Then hang the Antenna on the protrusion of the upper rear cover so that it will not fall off. If three Antennas are installed, hang two of them on the upper rear cover and then place the third one on the other two.

Fig. 4-9

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
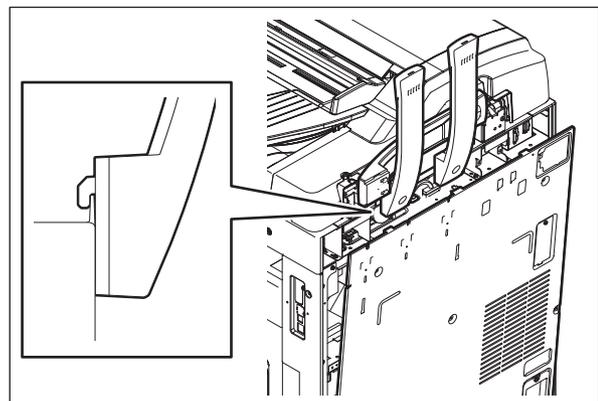
4.1.7   Upper rear cover

(1) Take off the RADF or original cover.
(2) Take off the left upper cover
     (P. 4-2 "4.1.4 Left upper cover").
(3) Take off the right upper cover.
     (P. 4-3 "4.1.5 Right upper cover").
(4) Take off the rear cover.
     (P. 4-3 "4.1.6 Rear cover").
(5) Remove 2 screws and take off the upper rear
     cover.

Upper rear cover
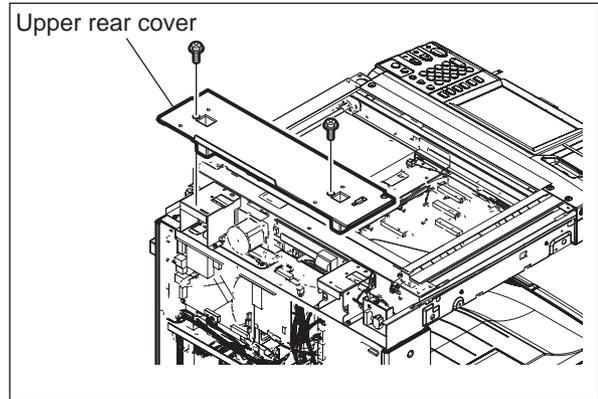
Fig. 4-10

4.1.8   Left rear cover

(1) Remove 1 screw and then take off the left
     rear cover by releasing 2 hooks.

   Remarks:
     When installing the left rear cover, hang the 2
     hooks of the left rear cover on the frame of
     the equipment, and then fix it with 1 screw.

Left rear cover
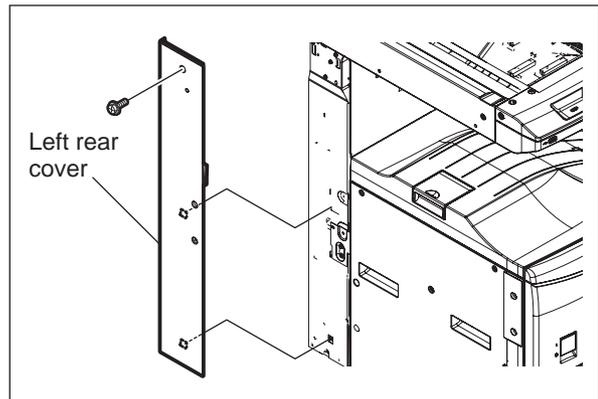
Fig. 4-11

4.1.9   Inner tray

(1) Open the front cover and then take off the
     toner cartridge.
(2) Remove 2 tap-tight screws, and then take off
     the inner tray.
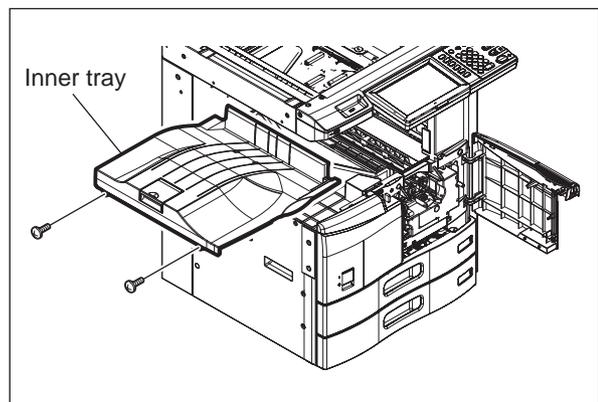
Inner tray

Fig. 4-12

4.1.10 Left cover

(1) Remove 2 tap-tight screws and 5 screws. Then take off the left cover.
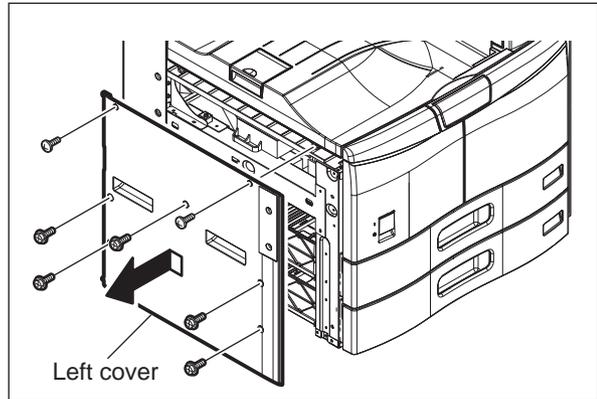
Left cover

Fig. 4-13

4.1.11 Tray back cover

(1) Take off the left rear cover (📖 P. 4-4 "4.1.8 Left rear cover").
(2) Take off the inner tray (📖 P. 4-4 "4.1.9 Inner tray").
(3) Take off the tray back cover.

Tray back cover
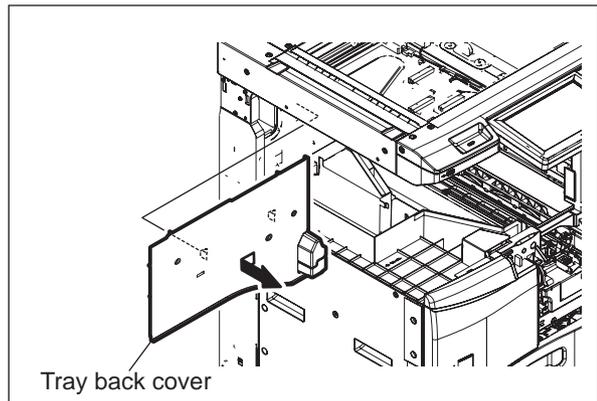
Fig. 4-14

4.1.12 Connecting port cover

(1) Open the automatic duplexing unit.
(2) Remove 1 screw and then take off the connecting port cover by releasing 2 hooks.

Remarks:
When installing the connecting port cover, hang the 2 hooks of the connecting port cover on the frame of the equipment, and then fix it with 1 screw.

Connecting port cover
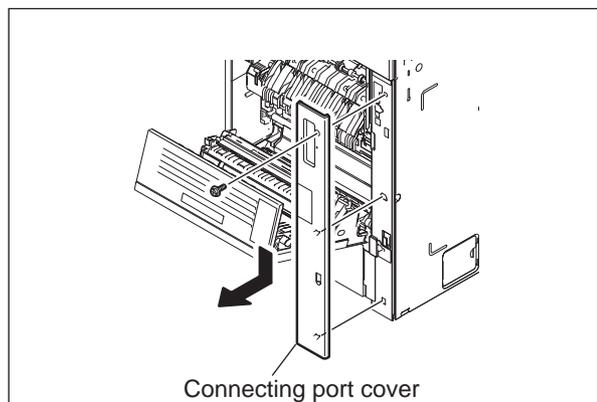
Fig. 4-15

4.1.13 Right rear cover-1 / Right rear cover-2

[A] e-STUDIO206L/256/306

(1) Take off the connecting port cover.
    (📖 P. 4-5 "4.1.12 Connecting port cover").
(2) Open the transfer cover.
(3) Release 3 hooks by sliding the right rear
    cover to the right side, and then take off the
    right rear cover-1[1].
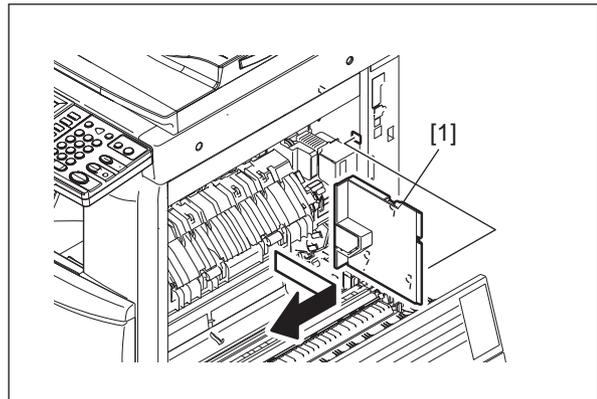
Fig. 4-16

(4) Remove 1 screw and take off the right rear
    cover-2 [1].
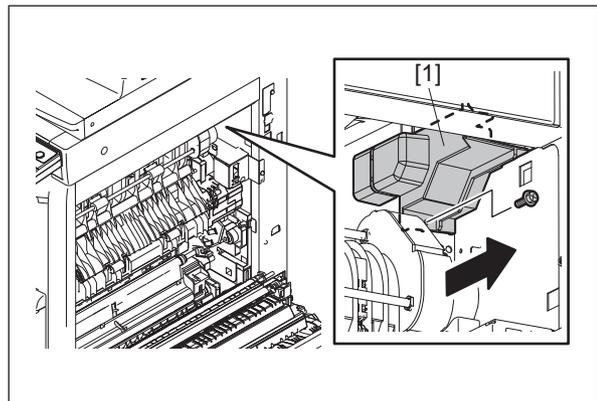
Fig. 4-17

[B] e-STUDIO356/456/506

(1) Take off the connecting port cover.
    (📖 P. 4-5 "4.1.12 Connecting port cover").
(2) Open the transfer cover.
(3) Release 2 hooks by sliding the right rear
    cover to the right side, and then take off the
    right rear cover-1[1].
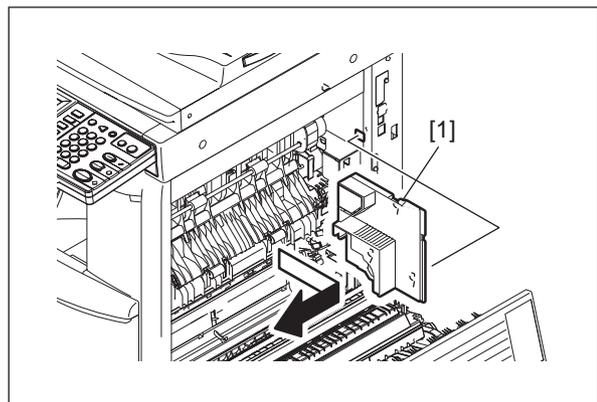
Fig. 4-18

(4) Remove 1 screw and take off the right rear cover-2 [1].
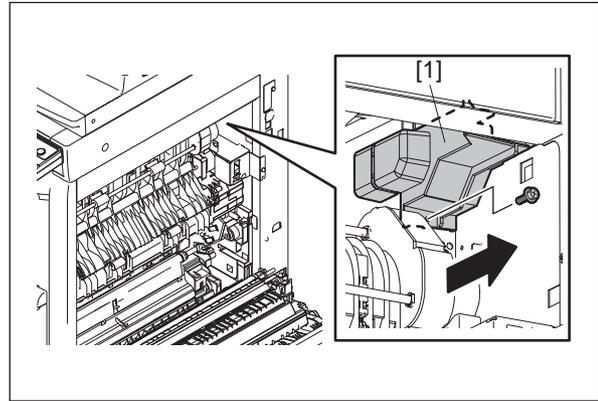
Fig. 4-19

4.1.14 Right front cover

(1) Take off the front cover.
(📖 P. 4-3 "4.1.6 Rear cover").
(2) Take off the process unit.
(📖 P. 4-100 "4.12.1 Process unit").
(3) Pull out the upper and lower drawers.
(4) Open the feed cover.
(5) Remove 2 screws. Release 4 hooks by sliding the right front cover downward, and then take off the right front cover by pulling out toward you.

   Remarks:
   When installing the right front cover, hang the 4 hooks of the right front cover on the frame of the equipment, and then fix it with 2 screws.
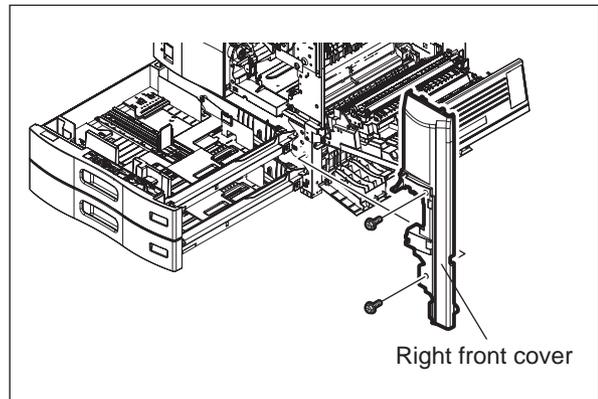
Right front cover

Fig. 4-20

4.1.15 Left front cover

(1) Take off the inner tray
(📖 P. 4-4 "4.1.9 Inner tray").
(2) Take off the right front cover
(📖 P. 4-7 "4.1.14 Right front cover").
(3) Remove 4 screws. Disconnect 3 connectors from the left front cover, and then take off the left front cover.
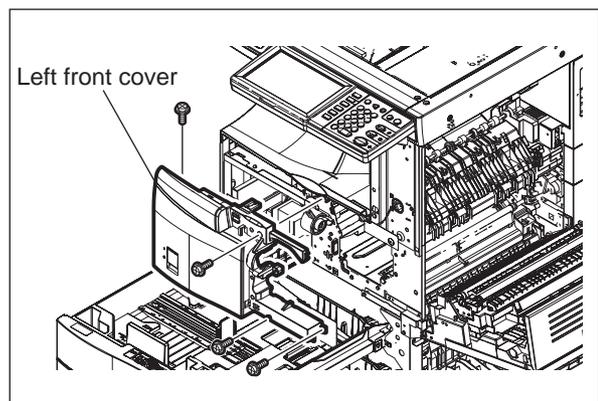
Left front cover

Fig. 4-21

4.1.16 Paper exit cover

(1) Remove the right upper cover.
 📖 P. 4-3 "4.1.5 Right upper cover"
(2) Remove the right front cover.
 📖 P. 4-7 "4.1.14 Right front cover"
(3) Remove 1 screw, and take off the paper exit cover [1].
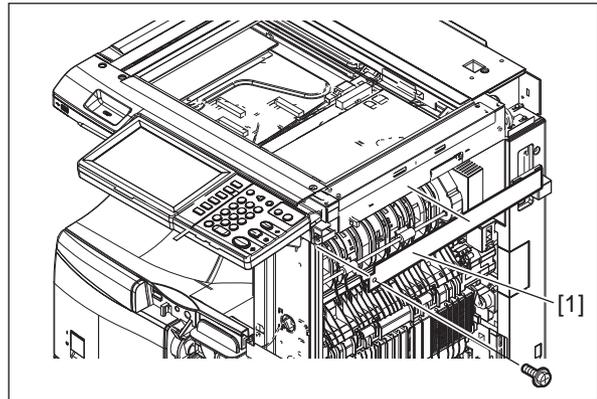
Fig. 4-22

4.2 Disassembly and Replacement of Covers <e-STUDIO207L/257/307/357/457/507>

4.2.1 Front cover / Right front cover

(1) Take off the process unit.
 📖 P. 4-88 "4.11.1 Process unit"
(2) Take off the inner tray.

(3) Pull out the upper and lower drawers.
(4) Open the feed cover.
(5) Remove 6 screws.
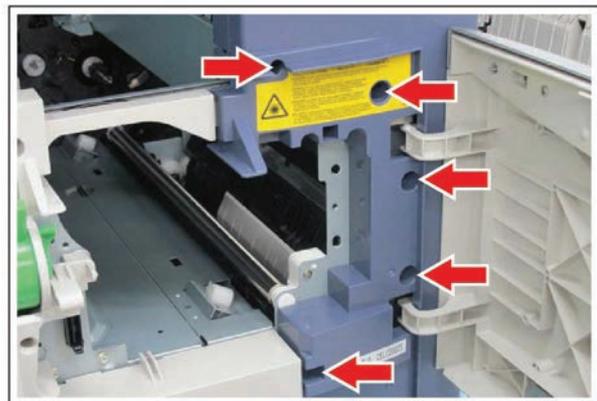
Fig. 4-23

Fig. 4-24

(6) Pull out the lever [1].
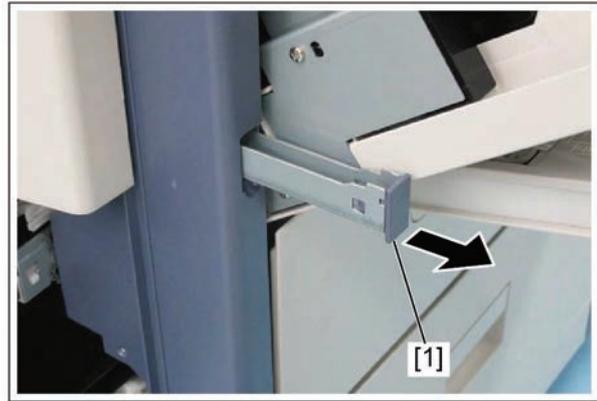
Fig. 4-25

(7) Release 3 hooks by sliding the right front cover [2] downward, and then take it off.
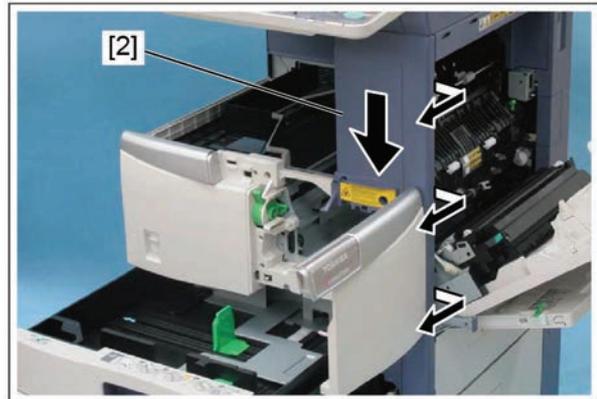
Fig. 4-26

(8) Remove 1 screw and take off the stopper [3].

Fig. 4-27

4

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
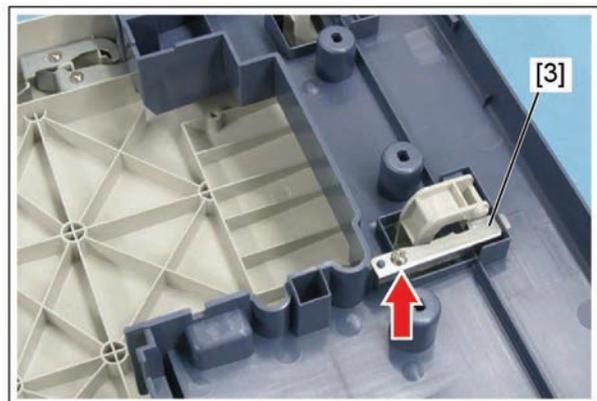
(9)   Take off the front cover [4].
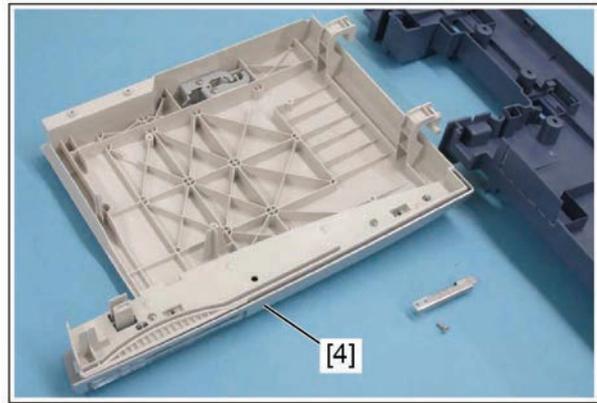
Fig. 4-28

4.2.2   Front upper cover

(1)   Remove 3 screws and take off the front
      upper cover [2].

Fig. 4-29

4.2.3   Front lower cover

(1)   Take off the front upper cover.
      📖 P. 4-10 "4.2.2 Front upper cover"
(2)   Disconnect the USB port [2] from the front
      lower cover [1].
(3)   Remove 1 screw. Then take off the front
      lower cover [1] by sliding it to the left side.

Fig. 4-30

Notes:

When taking it off, release its hook [3] under the control panel. When installing it, fit in the hook [3] securely.

Fig. 4-31

4.2.4 Left upper cover

(1) Remove 2 screws and take off the left upper cover [1].
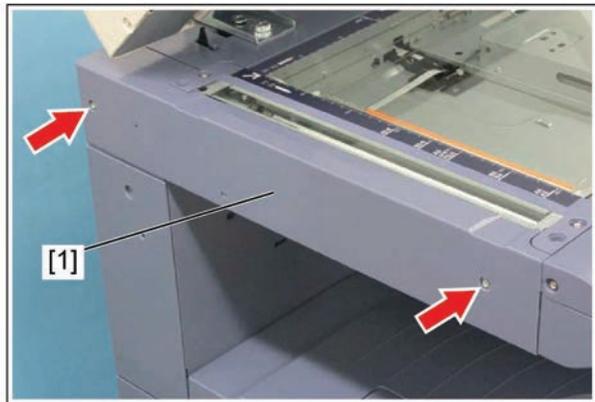
Fig. 4-32

4.2.5 Right upper cover

(1) Remove 2 screws.
(2) Lift up the right upper cover [1], release the front and rear hooks and then take it off toward the right.
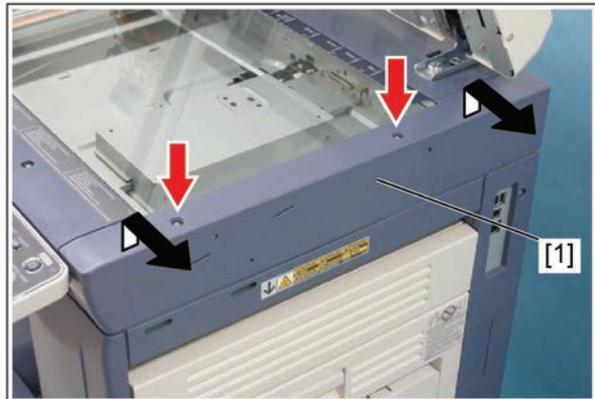
Fig. 4-33

4.2.6 Rear cover

(1) Remove 5 screws. Lift up the rear cover and then release 3 hooks on the upper side. Then open the upper side of the rear cover slightly toward you, and then take off the rear cover by lifting it up.

Remarks:
When installing the rear cover, hang the 3 hooks of the rear cover on the frame of the equipment, and then hang the 3 hooks on the holes of the upper rear cover to fix it. Then tighten 5 screws to fix it securely.
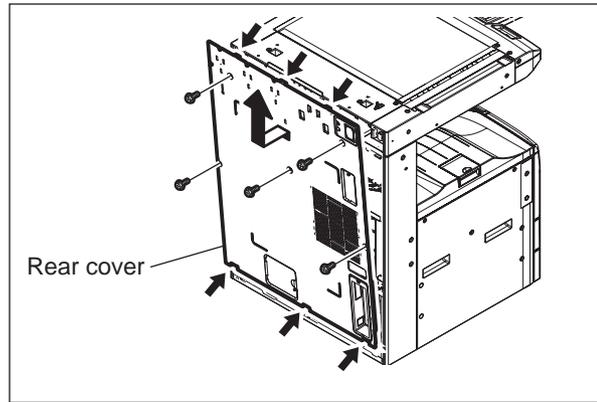
Rear cover

Fig. 4-34

Notes:
When the Antenna (GN-3010, optional) is installed, take it off first and then remove the rear cover. Then hang the Antenna on the protrusion of the upper rear cover so that it will not fall off. If three Antennas are installed, hang two of them on the upper rear cover and then place the third one on the other two.
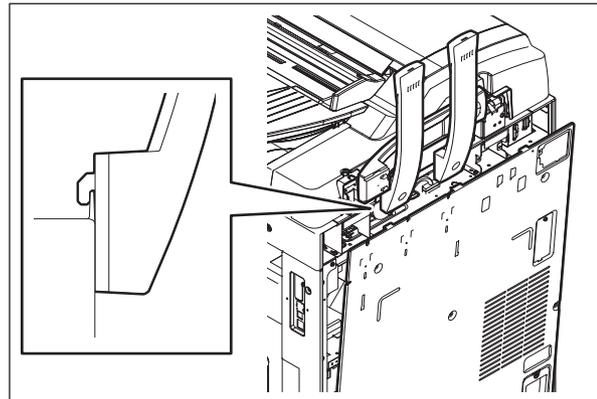
Fig. 4-35

4.2.7 Upper rear cover

(1) Take off the RADF or original cover.
(2) Take off the left upper cover.
(3) Take off the right upper cover.
(4) Take off the rear cover.
(5) Remove 2 screws and take off the upper rear cover [1].

[1]
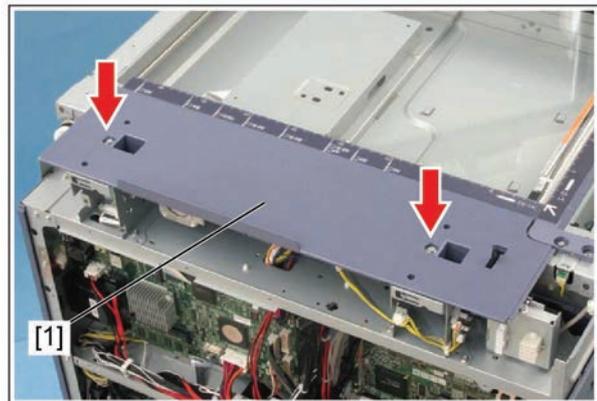
Fig. 4-36

4.2.8 Left rear cover-1

(1) Remove 1 screw.
(2) Slide the left rear cover-1 [1] upward, and then take it off by sliding it to the rear side.
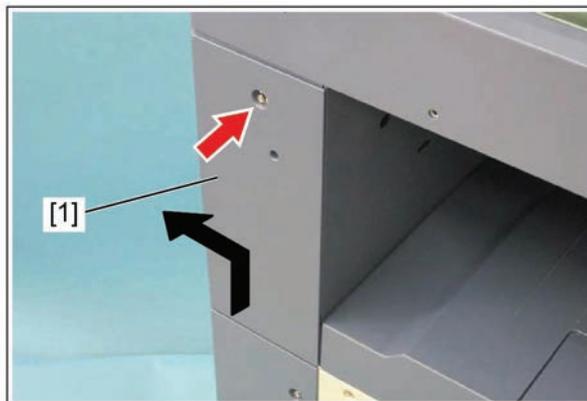
Fig. 4-37

4.2.9 Left rear cover-2

(1) Take off the left rear cover-1.
(2) Remove 2 screws and take off the left rear cover-2 [1].
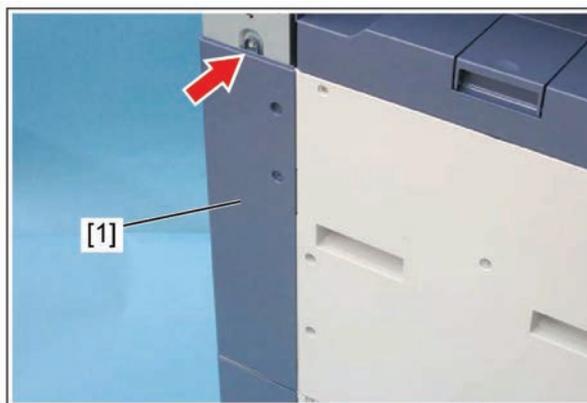
Fig. 4-38

4.2.10 Inner tray

(1) Open the front cover and then take off the toner cartridge.
(2) Remove 2 tap-tight screws, and then take off the inner tray.
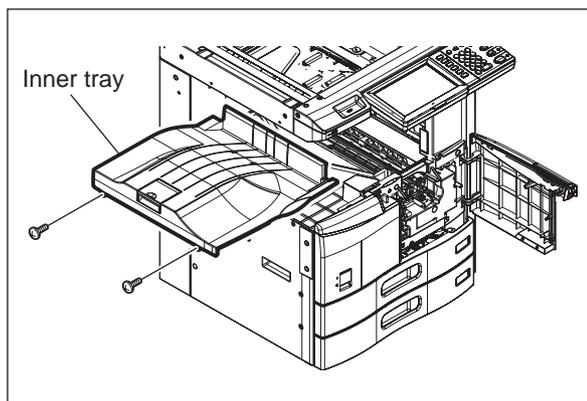
Fig. 4-39

4.2.11 Left cover

(1) Take off the left rear cover-2.
　　📖 P. 4-13 "4.2.9 Left rear cover-2"

(2)　Remove 2 tap-tight screws [1] and 5 screws. Then take off the left cover [2].
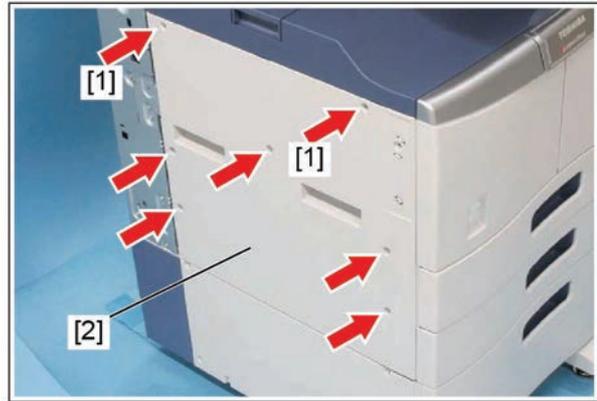
Fig. 4-40

4.2.12　Tray back cover

(1)　Take off the left rear cover-1.
　　　📖 P. 4-13 "4.2.8 Left rear cover-1"
(2)　Take off the inner tray.
　　　📖 P. 4-13 "4.2.10 Inner tray"
(3)　Take off the tray back cover [1].
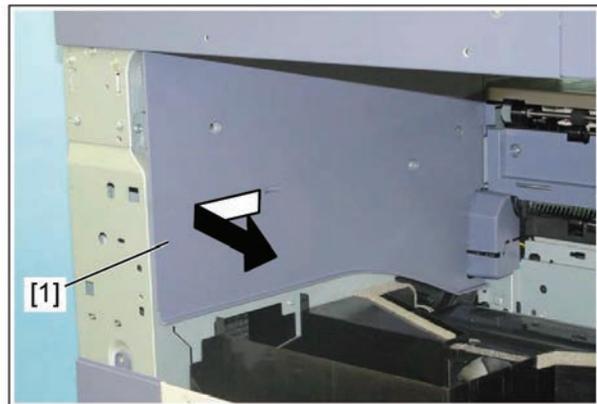
Fig. 4-41

4.2.13　Connecting port cover

(1)　If a dongle has been installed, remove 2 screws and then the dongle cover [1].
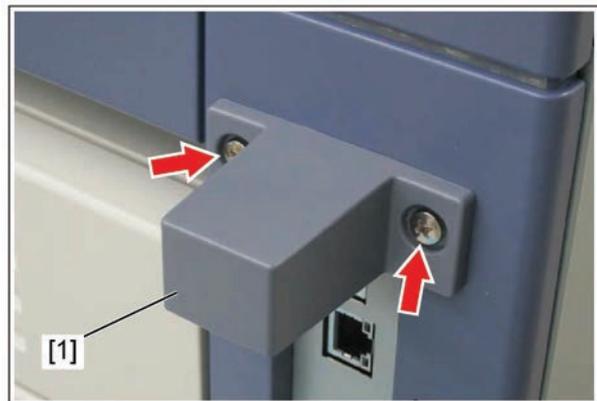
Fig. 4-42

(2)　Open the automatic duplexing unit.

(3) Remove 1 screw and then take off the
connecting port cover by releasing 2 hooks.

Remarks:
When installing the connecting port cover,
hang the 2 hooks of the connecting port
cover on the frame of the equipment, and
then fix it with 1 screw.
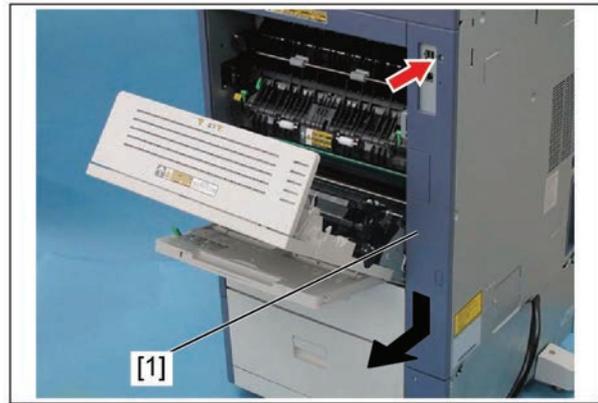
Fig. 4-43

4.2.14   Right rear cover-1 / Right rear cover-2

[A] e-STUDIO207L/257/307

(1) Take off the connecting port cover.
    P. 4-14 "4.2.13 Connecting port cover"
(2) Open the automatic duplexing unit.
(3) Release 3 hooks by sliding the right rear
cover-1 [1] to the right side, and then take off
the right rear cover-1 [1] toward the front
cover.
(4) Remove 1 screw and take off the right rear
cover-1 [1].
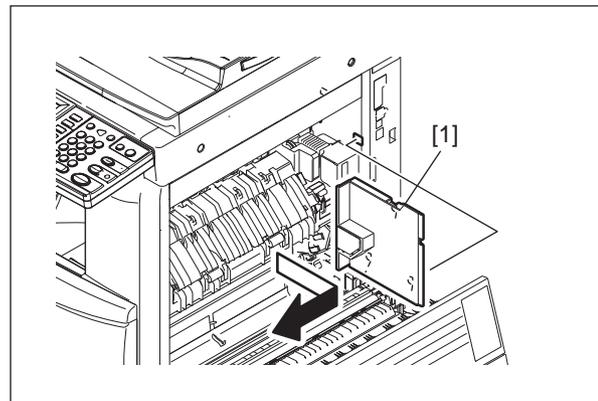
Fig. 4-44

[B] e-STUDIO357/457/507

(1) Take off the connecting port cover.
    P. 4-14 "4.2.13 Connecting port cover"
(2) Open the automatic duplexing unit.
(3) Release 2 hooks by sliding the right rear
cover-2 [1] to the right side, and then take off
the right rear cover-2 [1] toward the front
cover.
(4) Remove 1 screw and take off the right rear
cover-2 [1].

Fig. 4-45

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
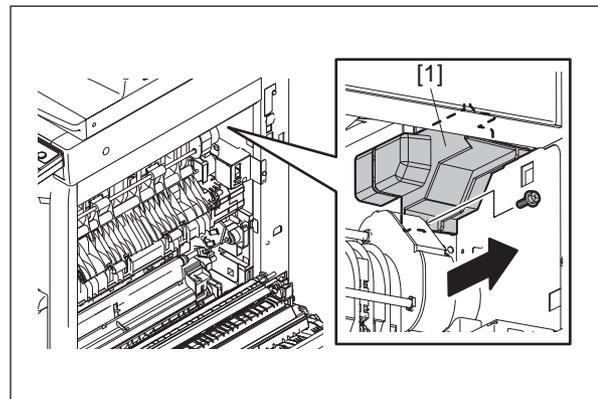
4.2.15 Left front cover

(1) Take off the process unit.
   📖 P. 4-88 "4.11.1 Process unit"
(2) Take off the inner tray.
   📖 P. 4-13 "4.2.10 Inner tray"
(3) Remove 4 screws.
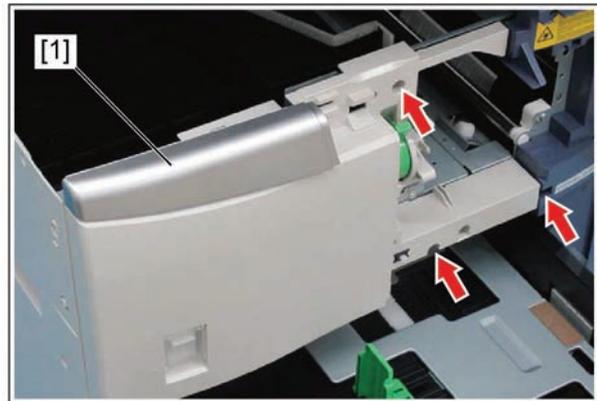
Fig. 4-46
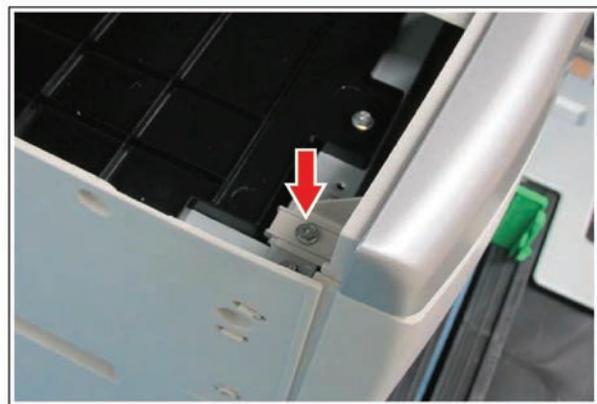
Fig. 4-47

(4) Pull out the left front cover [1]. Disconnect 3 connectors [2] from the left front cover [1], and then take off the left front cover [1].
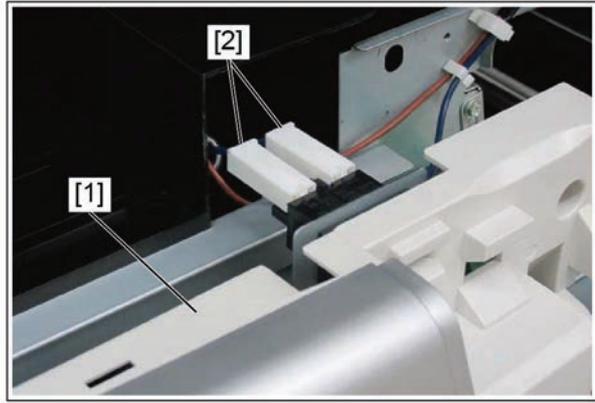
Fig. 4-48
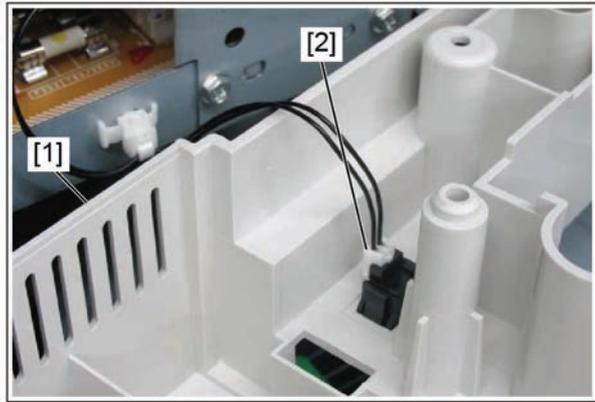
Fig. 4-49

4.2.16 Paper exit cover

(1) Remove the right upper cover.
   📖 P. 4-11 "4.2.5 Right upper cover"
(2) Remove the right front cover.
   📖 P. 4-8 "4.2.1 Front cover / Right front cover"
(3) Remove 1 screw, and take off the paper exit cover [1].

Fig. 4-50

4.3 CONTROL PANEL <e-STUDIO206L/256/306/356/456/506>

4.3.1 Stopper

(1) Slide the stopper and pull it out.
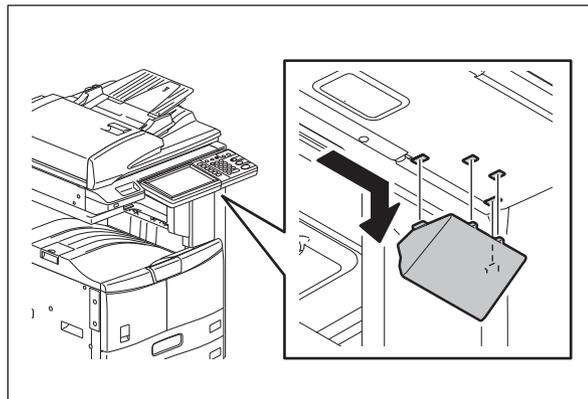
Fig. 4-51

(2) Hook the stopper into the grooves of the rear cover.
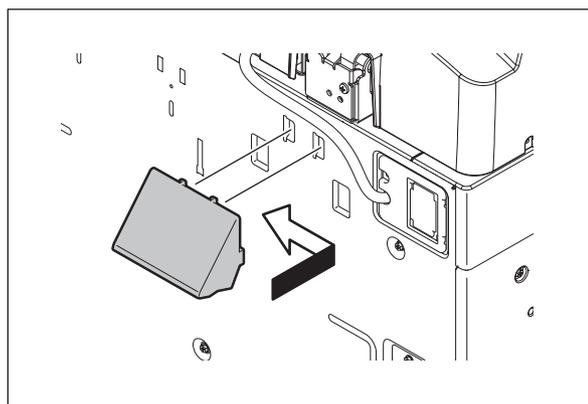
Fig. 4-52

4.3.2 Control panel unit

(1) Take off the front upper cover.
　　📖 P. 4-1 "4.1.2 Front upper cover"
(2) Lower the control panel [1] and remove 2 screws.
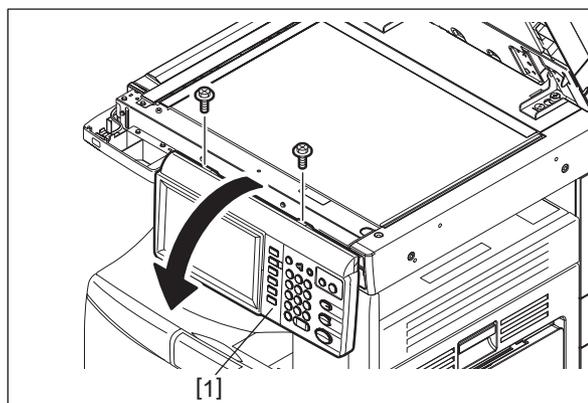
Fig. 4-53

(3) Release the hook and then take off the control panel unit [1].
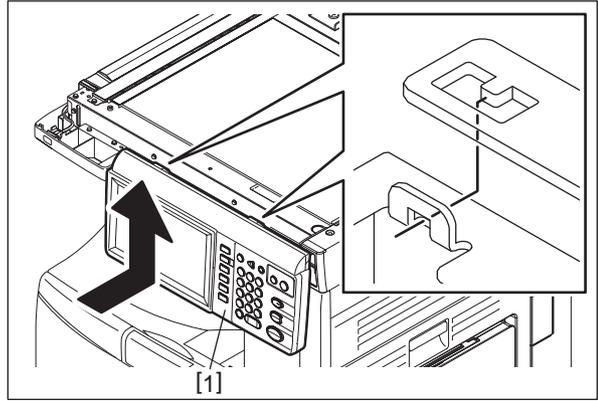
Fig. 4-54

(4) Remove 3 screws and the screw of the clamp. Take off the cover [2].

Notes:
When installing the cover, set the cable in the case.
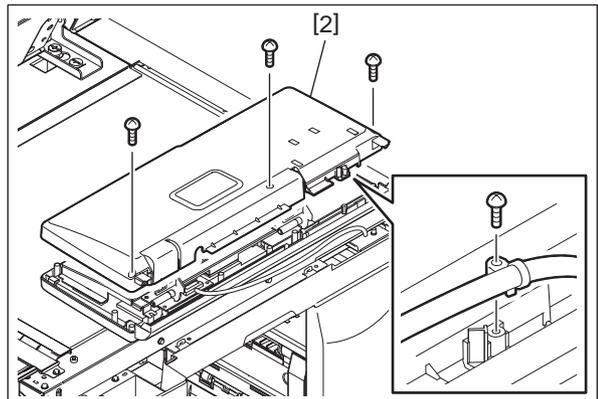
Fig. 4-55

(5) Remove 1 screw and take out the clamp.

Fig. 4-56

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
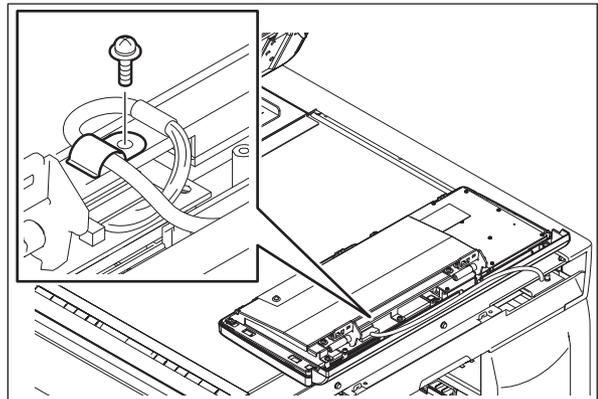
(6) Disconnect 1 connector, and then take off the control panel unit [3].
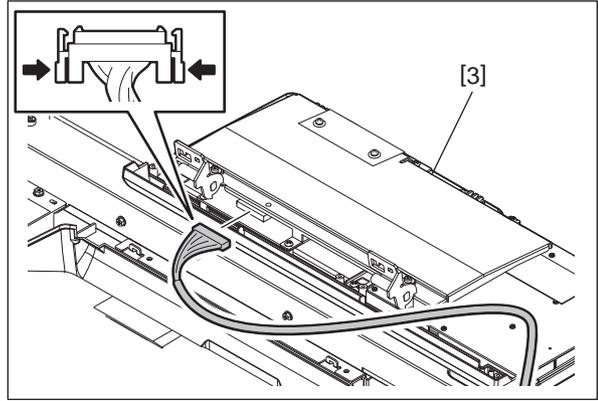
Fig. 4-57

4.3.3   Display board (DSP)

(1) Take off the control panel unit.
   📖 P. 4-18 "4.3.2 Control panel unit"
(2) Remove 9 screws and take off the hinge bracket [1].
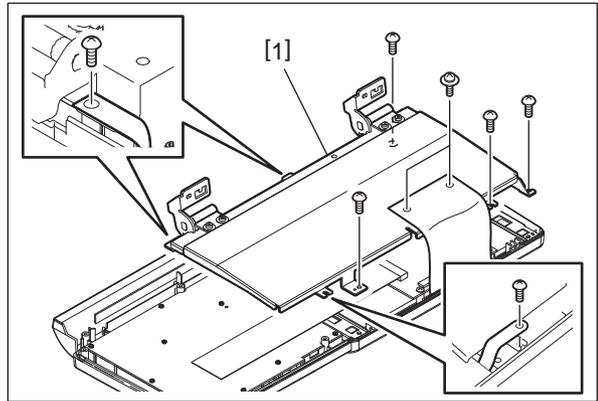
Fig. 4-58

(3) Disconnect 5 connectors.
(4) Remove 2 screws and take off the display board [2].
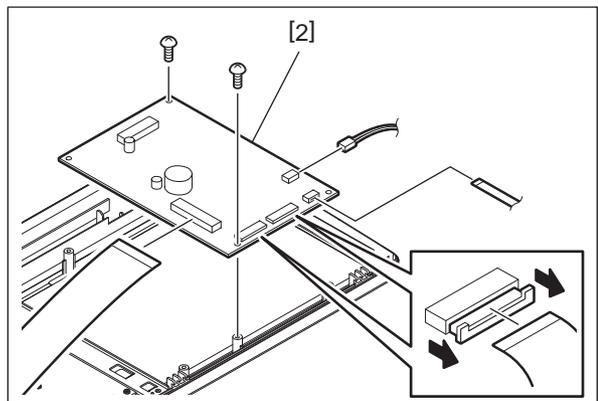
Fig. 4-59

4.3.4 KEY board (KEY)

(1) Take off the control panel unit.
    📖 P. 4-18 "4.3.2 Control panel unit"
(2) Remove 7 screws and take off the hinge
    bracket [1].
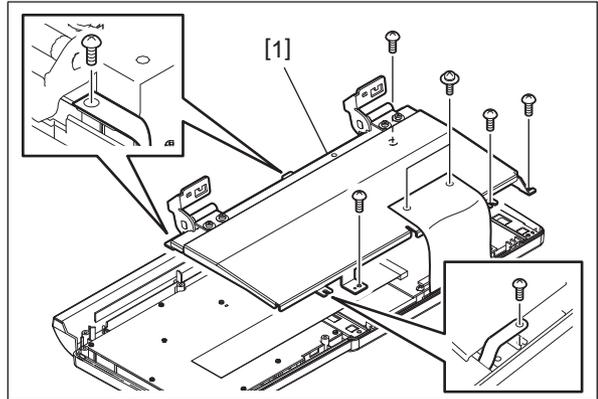
Fig. 4-60

(3) Disconnect 1 connector and remove 12
    screws. Take off the KEY board [2].
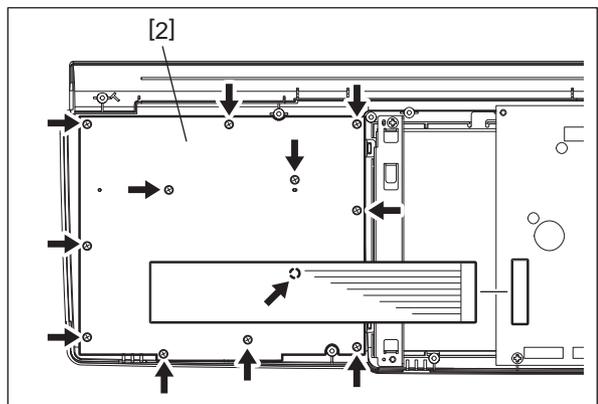
Fig. 4-61

4.3.5 Touch panel (TCP)

(1) Take off the control panel unit.
    📖 P. 4-18 "4.3.2 Control panel unit"
(2) Remove 1 screw of each and take off 2
    brackets [1].
(3) Remove the touch panel [2].

Fig. 4-62

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
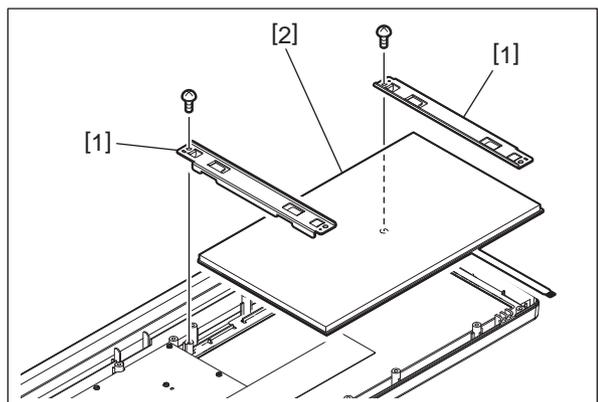
4.3.6 Control panel cover

(1) Release the 4 latches [1], and take off the control panel cover [2].
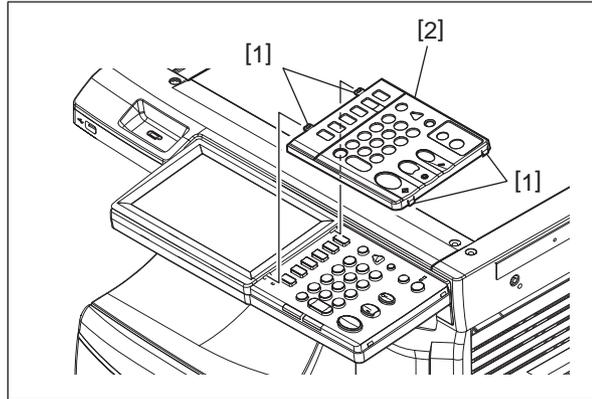
Fig. 4-63

4.4 CONTROL PANEL <e-STUDIO207L/257/307/357/457/507>

4.4.1 Control panel unit

(1) Take off the rear cover.
    📖 P. 4-12 "4.2.6 Rear cover"

(2) Disconnect 1 connector [1] from the SYS board (CN119), release the harness from 1 harness clamp [5], and then insert this and the harness into the hole [2] of the frame.
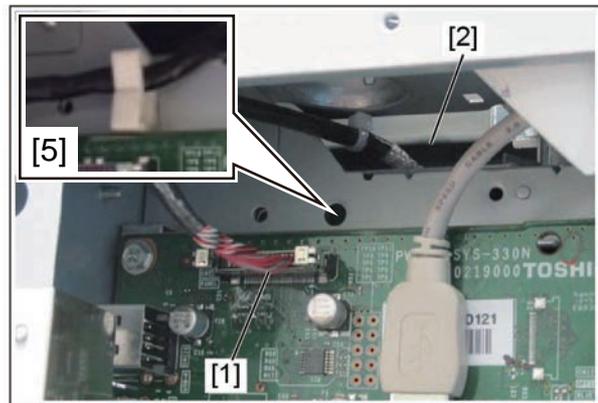
Fig. 4-64

(3) Remove the front upper cover.
    📖 P. 4-10 "4.2.2 Front upper cover"

(4) Lower the control panel unit [3] and remove 2 screws.

(5) Remove the control panel unit [3] while sliding it toward the rear side.
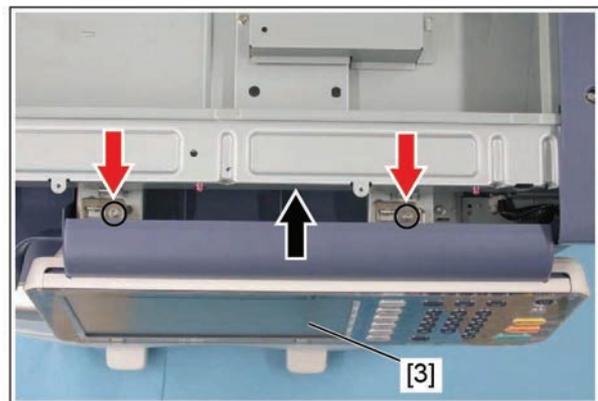
Fig. 4-65

(6) Remove 1 harness clamp [4], and then take off the control panel unit.
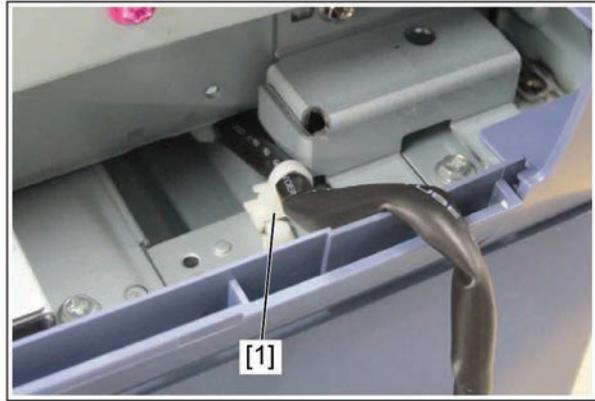
Fig. 4-66

4.4.2 KEY board

(1) Remove the control panel unit.
📖 P. 4-22 "4.4.1 Control panel unit"
(2) Remove 8 screws and take off the cover [1].
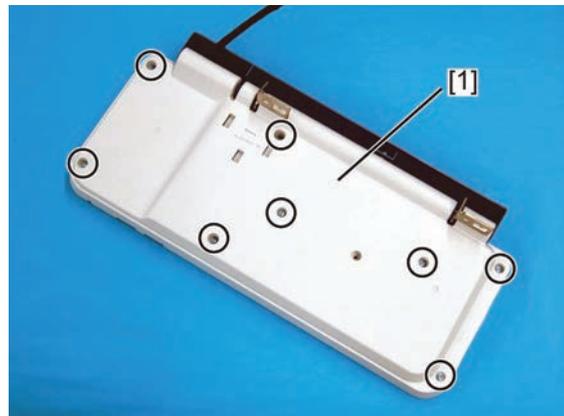
Fig. 4-67

(3) Remove 7 screws and disconnect 1 flat cable, and take off the KEY board [1].

Fig. 4-68

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
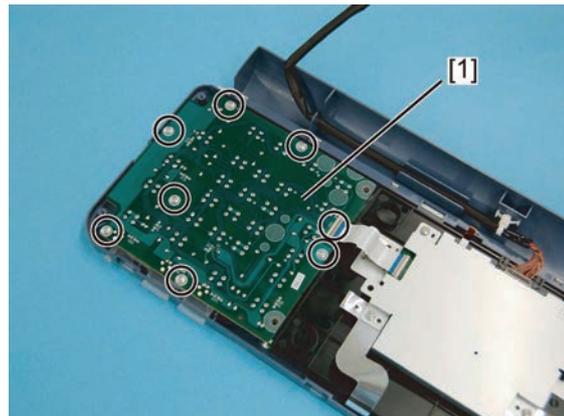
4.4.3 DSP board

(1) Remove the control panel unit.
📖 P. 4-22 "4.4.1 Control panel unit"
(2) Remove 8 screws and take off the cover [1].
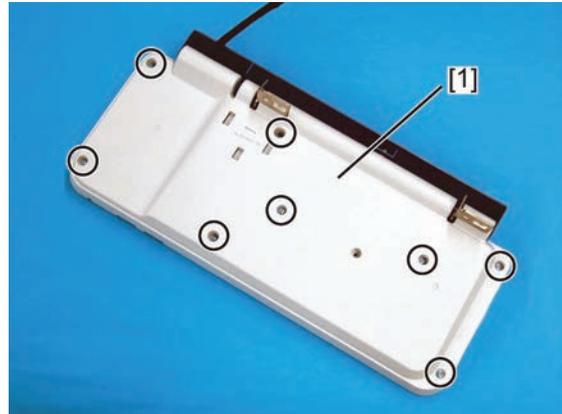
Fig. 4-69

(3) Remove 4 screws and disconnect 1 flat cable, and then take off the bracket [1].
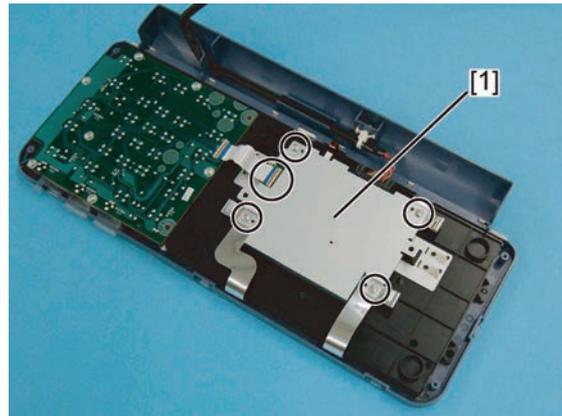
Fig. 4-70

(4) Remove 3 conductive sheets [1], disconnect the 2 connectors [2], and take off 1 flat cable.
(5) Remove the DSP board [3].
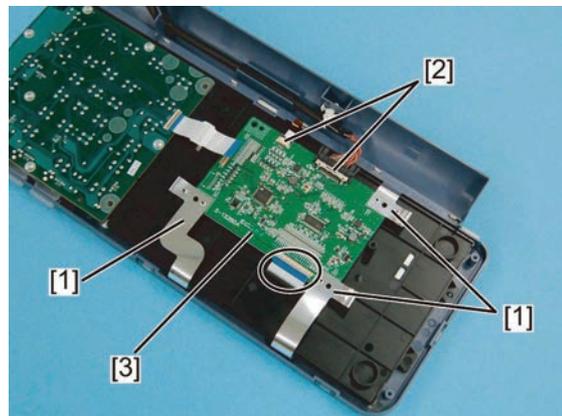
Fig. 4-71

4.4.4 Touch panel

(1) Remove the DSP board.
 📖 P. 4-24 "4.4.3 DSP board"
(2) Remove the case [1].
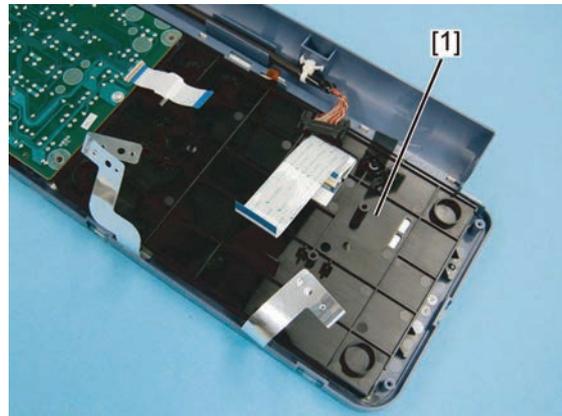
Fig. 4-72

(3) Remove the touch panel [2] from the case [1].
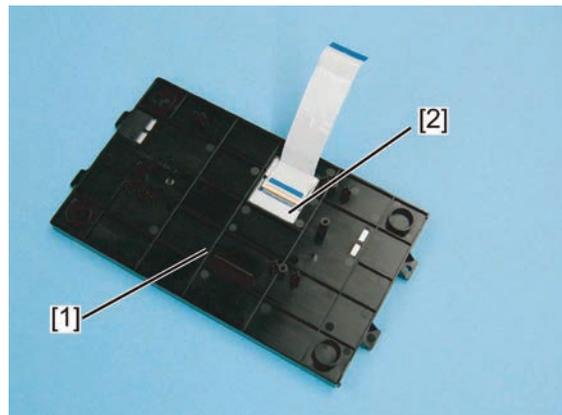
Fig. 4-73

(4) Disconnect the flat cable [2] from the touch panel [1].

Fig. 4-74

4

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
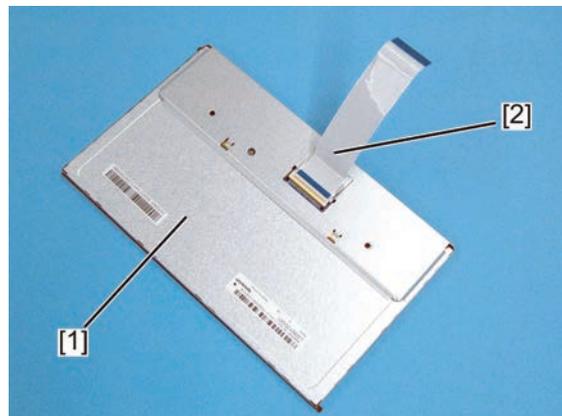
4.5 SCANNER <e-STUDIO206L/256/306/356/456/506>

4.5.1 Original glass

(1) Take off the right upper cover.
    📖 P. 4-3 "4.1.5 Right upper cover"
(2) Remove 2 screws and take off the fixing bracket.
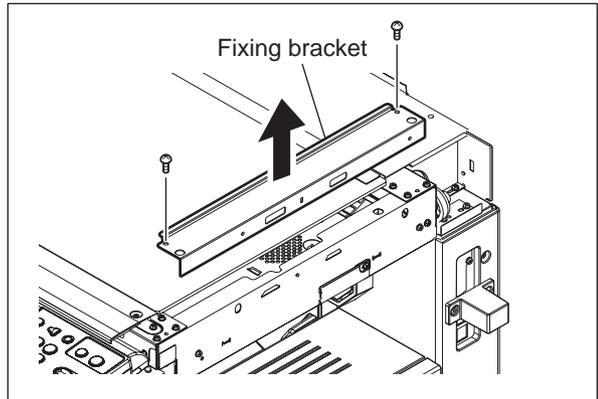
Fig. 4-75

(3) Take off the original glass.

   Notes:
   When installing, fit 2 small protrusions of the original glass in the groove of the equipment and fix the original glass with the fixing bracket by pushing it to the left rear direction.
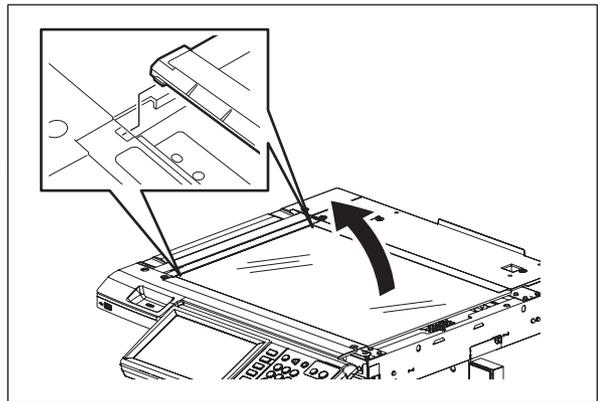
Fig. 4-76

4.5.2 Lens cover

(1) Take off the original glass.
    📖 P. 4-26 "4.5.1 Original glass"
(2) Remove 4 screws and take off the lens cover.
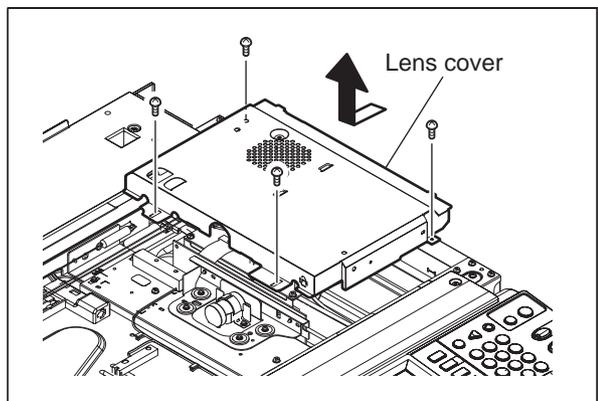
Fig. 4-77

4.5.3   Automatic original detection sensor (S1/S2/S3/S4/S5)

[A] A4 series (APS-1, -2, -3, -C, -R)

(1) Take off the lens cover.
     P. 4-26 "4.5.2 Lens cover"
(2) Disconnect 1 connector and remove 1 screw.
Take off APS sensor.
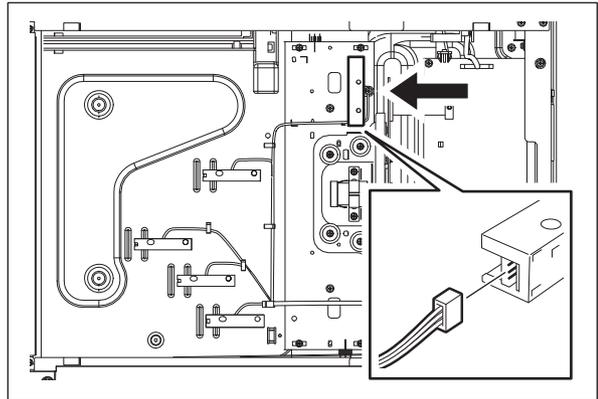
Fig. 4-78

(3) Disconnect 1 connector each, release 2
latches each and take off 4 APS sensors.

Latch
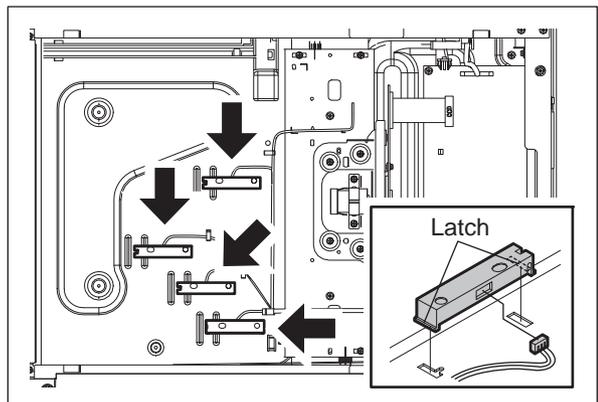
Fig. 4-79

[B] LT series (APS-1, -3, -C, -R)

(1) Take off the lens cover.
     P. 4-26 "4.5.2 Lens cover"
(2) Disconnect 1 connector and remove 1 screw.
Take off APS sensor.

Fig. 4-80

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
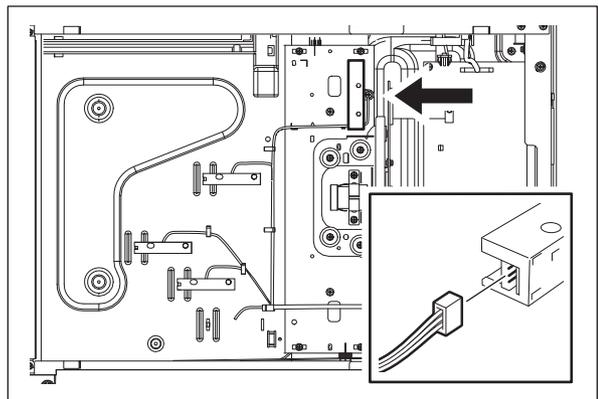
(3) Disconnect 1 connector and remove 1 screw for each APS sensor. Take off 3 APS sensors.

Latch
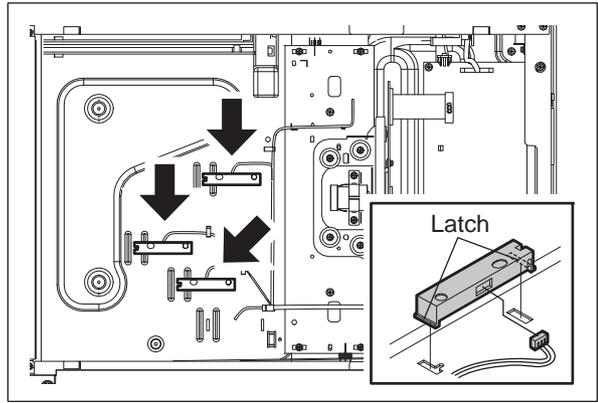
Fig. 4-81

4.5.4 Exposure lamp (EXP)

[A] Xenon lamp

(1) Take off the original glass.
    📖 P. 4-26 "4.5.1 Original glass"
(2) Take off the front upper cover.
    📖 P. 4-1 "4.1.2 Front upper cover"
(3) Release the harness from 1 harness clamp.
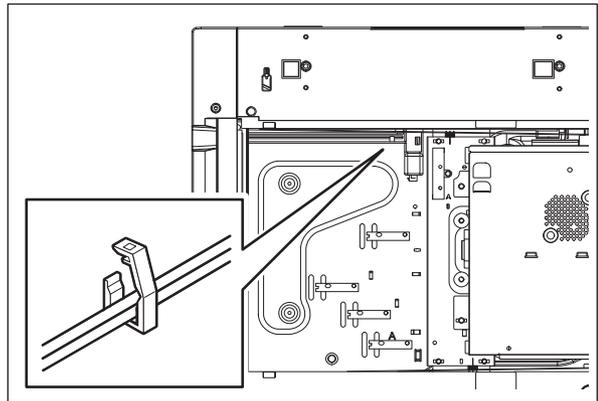
Fig. 4-82

(4) Release the harness from the harness guide.
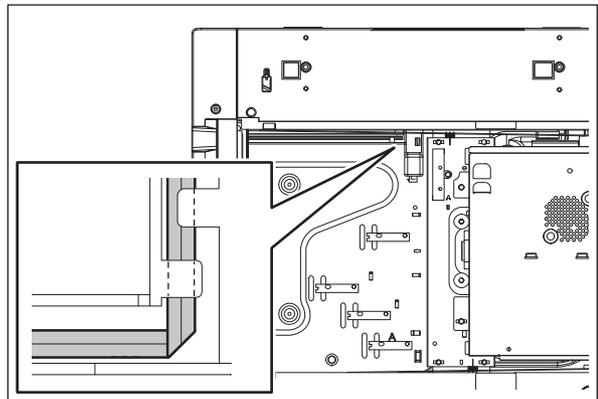
Fig. 4-83

(5) Rotate the drive pulley and move the carriage-1 so that the screw can be seen.
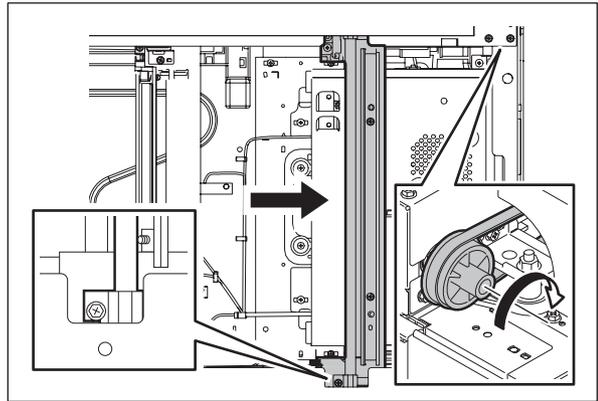
Fig. 4-84

(6) Take off the rear cover.
  📖 P. 4-3 "4.1.6 Rear cover"
(7) Disconnect the connector of the lamp harness from the lamp inverter board.

  Notes:
  Be careful not to apply load to the lamp inverter board when disconnecting the connector.
  See the following chapter for the installation procedure.
  📖 P. 4-40 "4.5.9 Installing the lamp harness"

Lamp inverter board
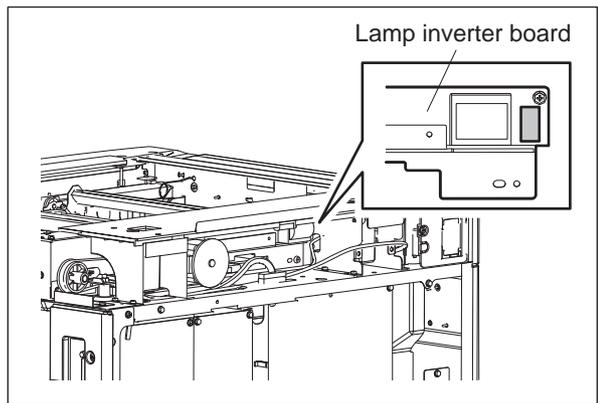
Fig. 4-85

(8) Release 1 clamp of the carriage and take off the harness wiring on the rear frame.

Clamp
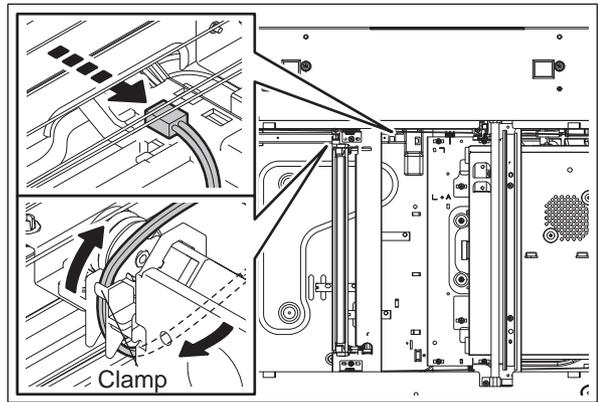
Fig. 4-86

(9) Release the harness from the harness holder.
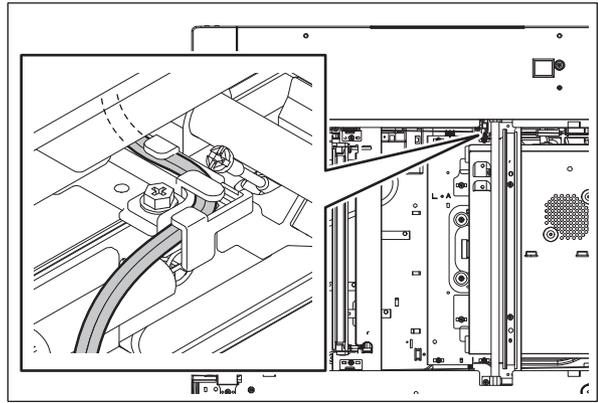
Fig. 4-87

(10) Remove 1 screw.
(11) Lift up the front side of the exposure lamp and take off by sliding it.

Exposure lamp
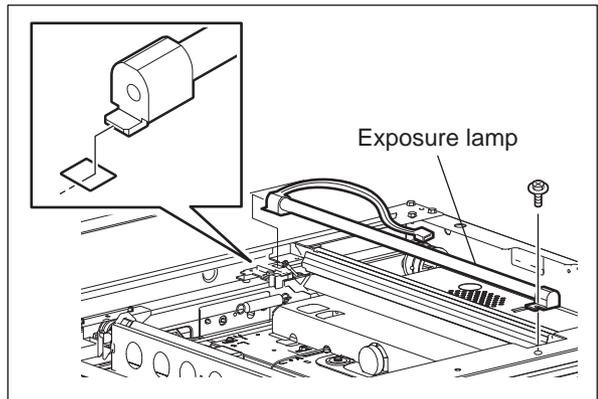
Fig. 4-88

[B] LED

(1) Take off the original glass.
     📖 P. 4-26 "4.5.1 Original glass"
(2) Take off the front upper cover.
     📖 P. 4-1 "4.1.2 Front upper cover"
(3) Rotate the drive pulley and move the carriage-1 so that the screw can be seen.
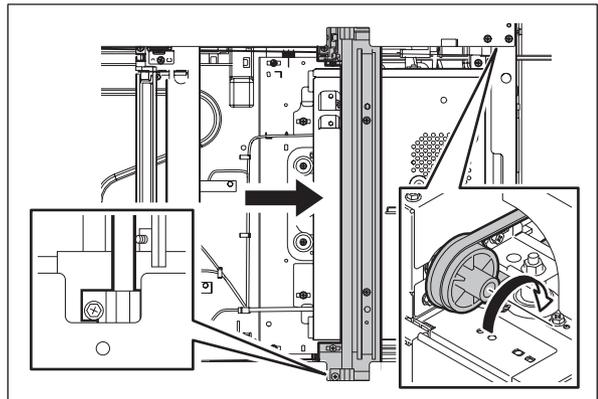
Fig. 4-89

(4) Remove 1 screw. Lift up the front side of the exposure lamp [1] and take off by sliding it.
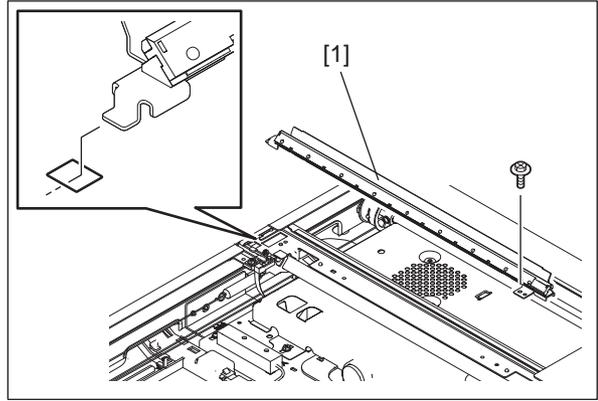
Fig. 4-90

(5) Disconnect the harness.

   Notes:
   When installing the harness, be careful not to insert it at an angle.
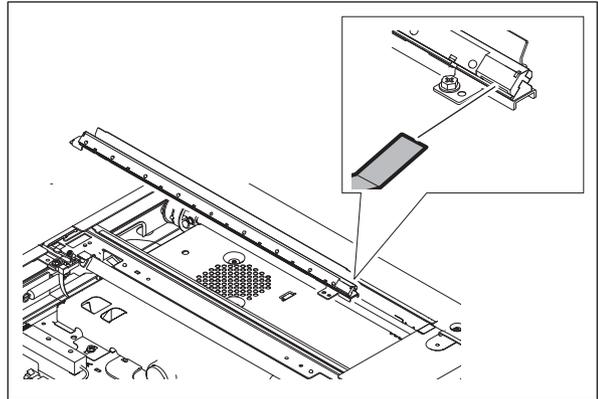
Fig. 4-91

4.5.5   Lens unit

[A]   4-line CCD

(1) Remove the lens cover.
    📖 P. 4-26 "4.5.2 Lens cover"
(2) Remove 1 screw and take off the APS sensor.
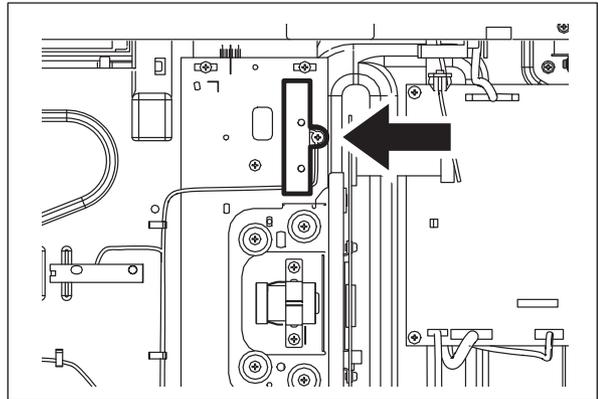
Fig. 4-92

(3) Disconnect 1 connector and remove 4 screws. Take off the lens unit.
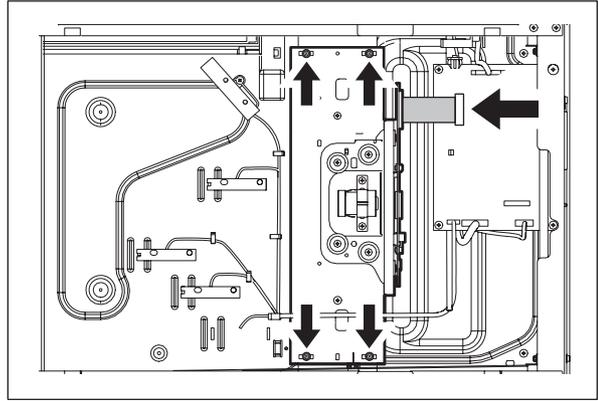
Fig. 4-93

Notes:

1. When installing, be sure that the harness of the APS sensor comes over the lens unit.
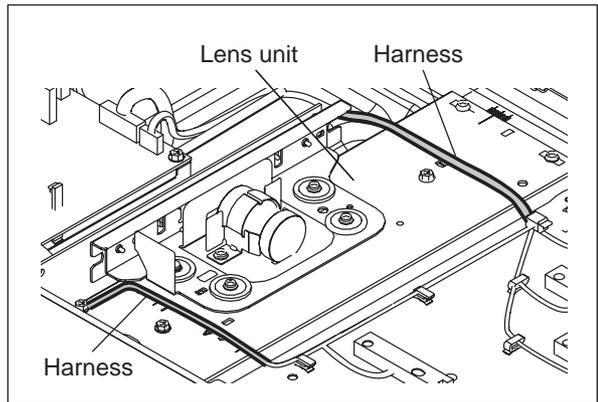
Fig. 4-94

2 See chapter 6.9.2 for the adjustment procedure.
3 Do not touch 8 screws shown with the arrows when replacing the lens unit.
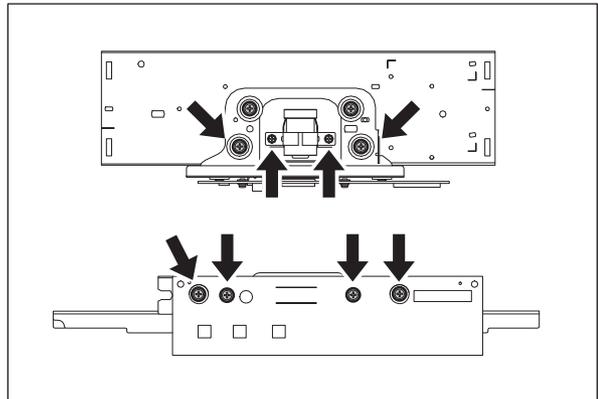
Fig. 4-95

4 Handle the unit with care. Do not touch the adjusted area and lens. (Hold the unit as the right figure.)
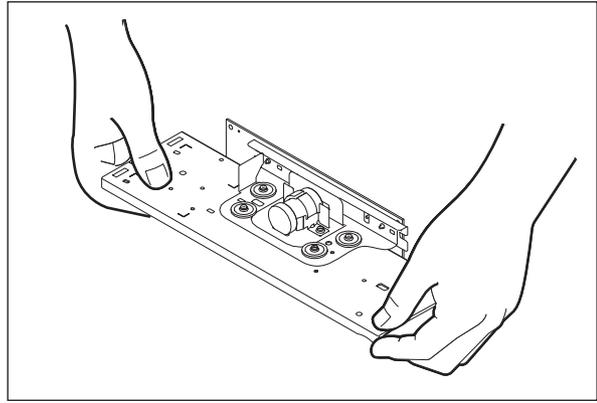
Fig. 4-96

[B] 3-line CCD

(1) Take off the lens cover.
📖 P. 4-26 "4.5.2 Lens cover"
(2) Remove 1 screw and take off the APS sensor.
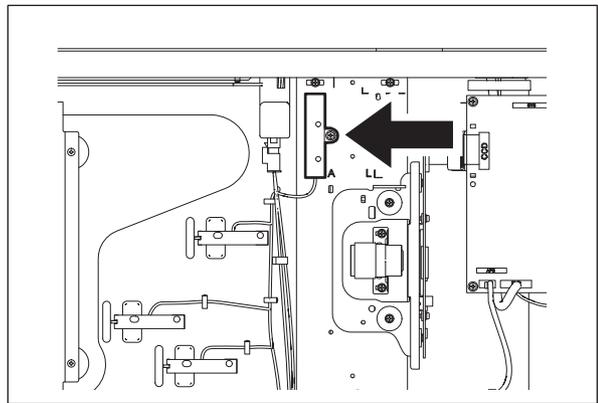
Fig. 4-97

(3) Disconnect 1 connector and remove 4 screws. Take off the lens unit.

Fig. 4-98

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DISASSEMBLY AND REPLACEMENT
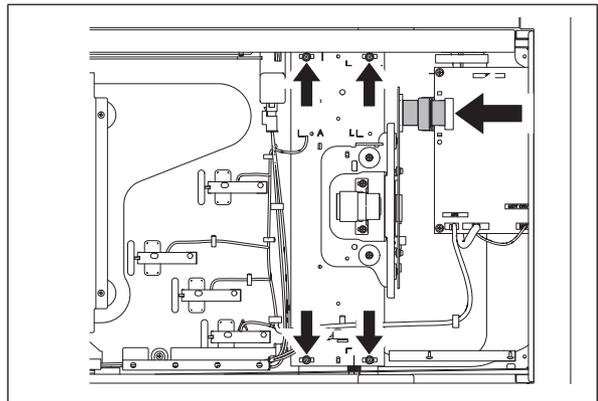
Notes:
1. When installing, be sure that the harness [1] of the APS sensor comes over the lens unit [2].
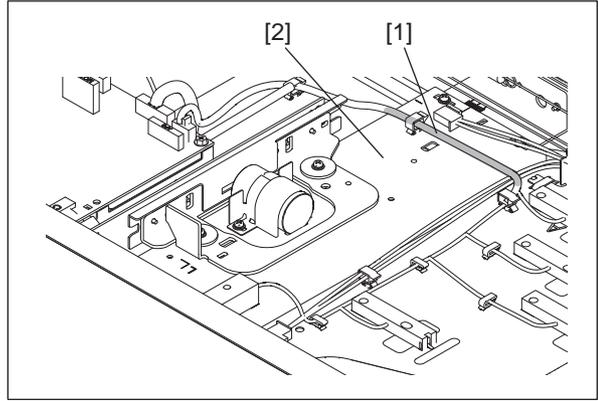
Fig. 4-99

2. See 6.9.2 for the adjustment procedure.
3. Do not touch the 8 screws shown with the arrows when replacing the lens unit.
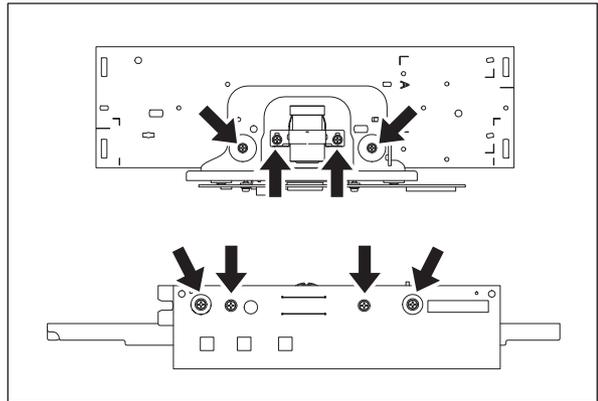
Fig. 4-100

4. Handle the unit with care. Do not touch the adjusted area and lens. (Hold the unit as shown in the right figure.)
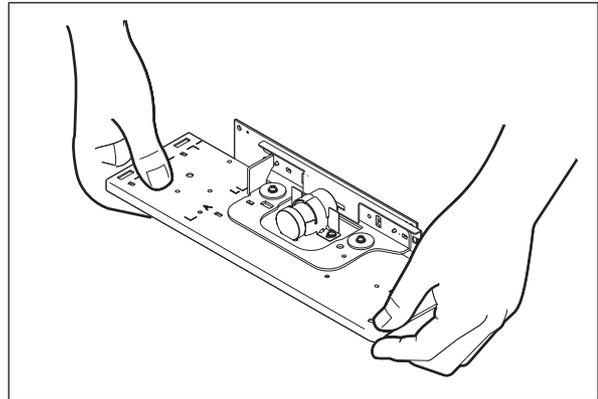
Fig. 4-101

4.5.6   Scan motor (M1)

(1)   Take off the rear cover.
      📖 P. 4-3 "4.1.6 Rear cover"
(2)   Take off the upper rear cover.
      📖 P. 4-4 "4.1.7 Upper rear cover"
(3)   Disconnect 1 connector.
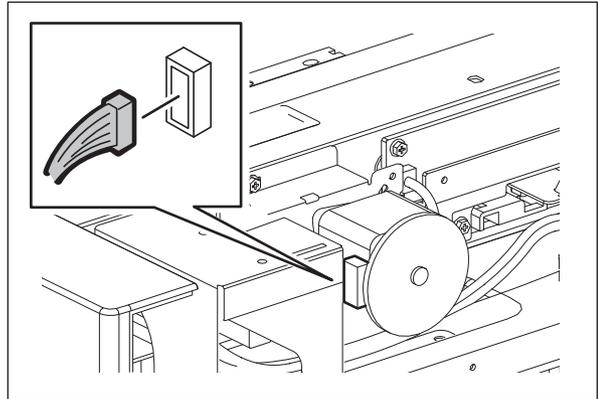
Fig. 4-102

(4)   Remove 2 screws and take off the scan
      motor with the whole bracket.
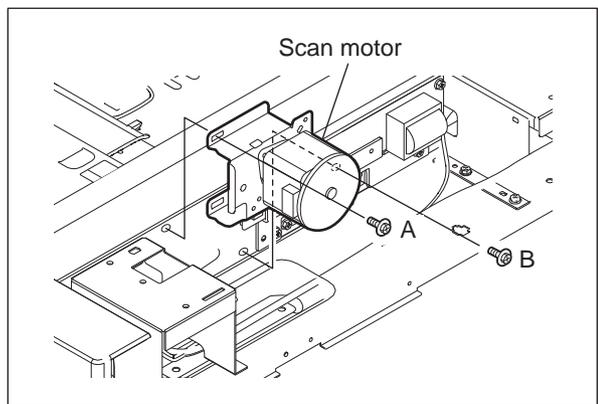
Fig. 4-103

Notes:
   When installing the scan motor, use the belt
   tension jig (spring). The procedure is as
   follows.
   1. Temporarily fix the screw A and B.
       📖 P. 4-35 "Fig. 4-103 "
   2. Hook the belt tension jig to the motor
       bracket and the flame.
   3. The scan motor is pulled by the belt
       tension jig. Fix the screw A and then B at
       the stopped position.
   4. Remove the belt tension jig.

Fig. 4-104

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
                                                                        DISASSEMBLY AND REPLACEMENT
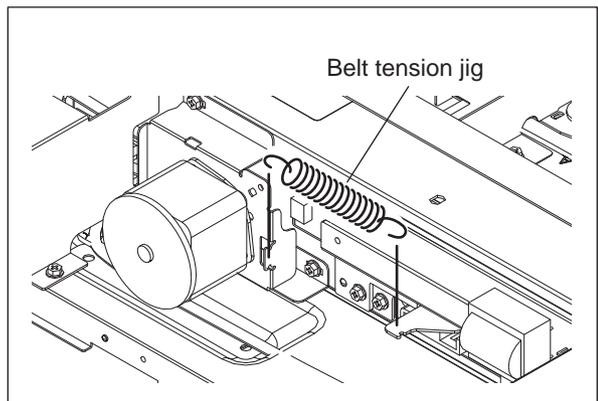
4.5.7　Carriage-1

(1) Take off the original glass.
　　📖 P. 4-26 "4.5.1 Original glass"
(2) Take off the upper rear cover.
　　📖 P. 4-4 "4.1.7 Upper rear cover"
(3) Take off the front upper cover.
　　📖 P. 4-1 "4.1.2 Front upper cover"
(4) Release the harness from 1 harness clamp.
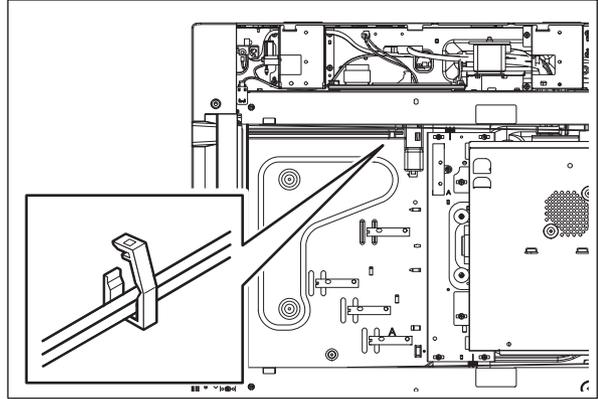
Fig. 4-105

(5) Release the harness from the harness guide.
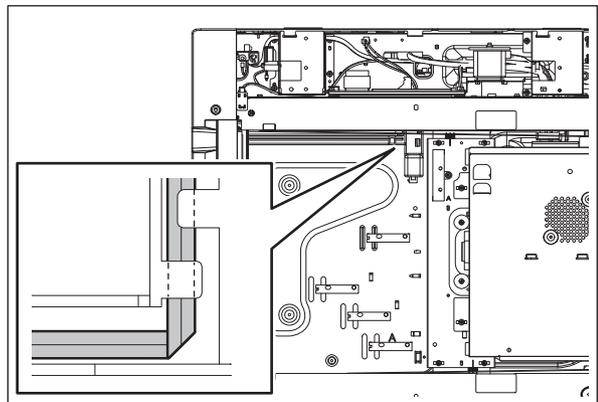
Fig. 4-106

(6) Rotate the drive pulley and move the carriage-1 so that the screw can be seen.
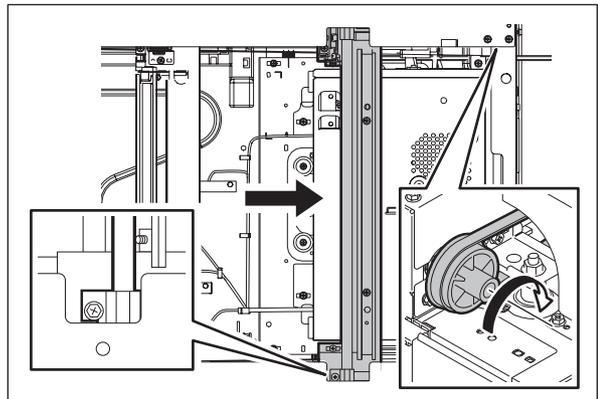
Fig. 4-107

(7) Disconnect the connector of the lamp harness from the lamp inverter board / LED board.

Notes:

Be careful not to apply load to the lamp inverter board / LED board when disconnecting the connector.
See the following chapter for the installation procedure.
📖 P. 4-40 "4.5.9 Installing the lamp harness"

Lamp inverter board
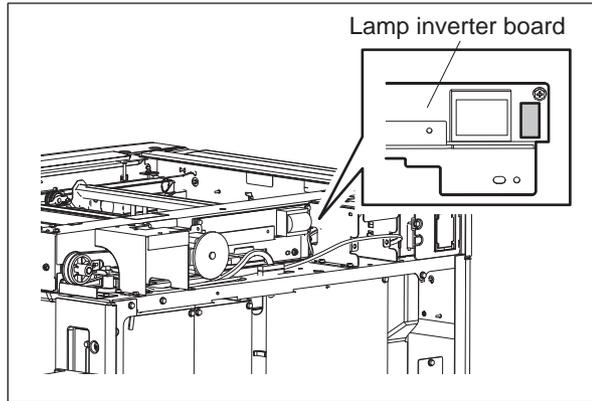
Fig. 4-108

(8) Release 1 harness clamp of the carriage and take off the harness wiring on the rear frame.

Clamp
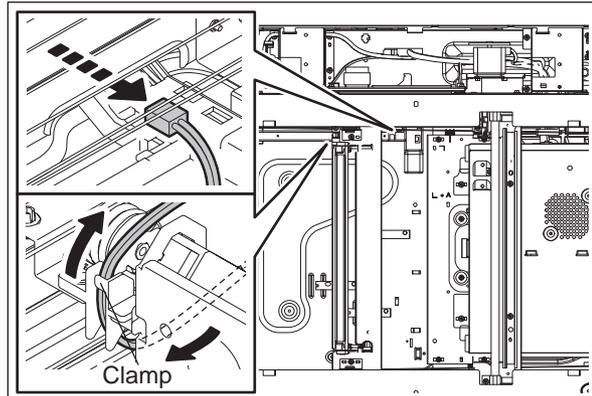
Fig. 4-109

(9) Release the harness from the harness holder.
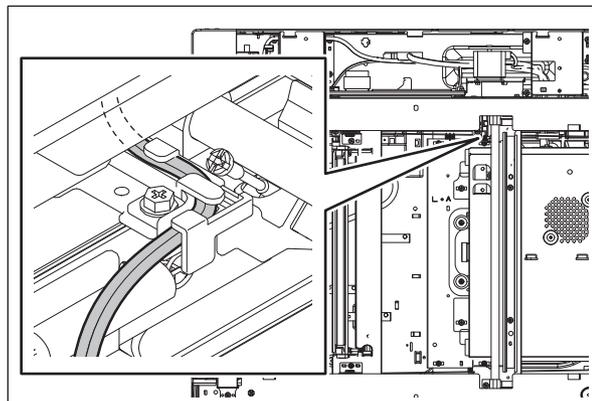
Fig. 4-110

(10) Remove 2 screws and take off the brackets fixing the carriage-1 to the wire.
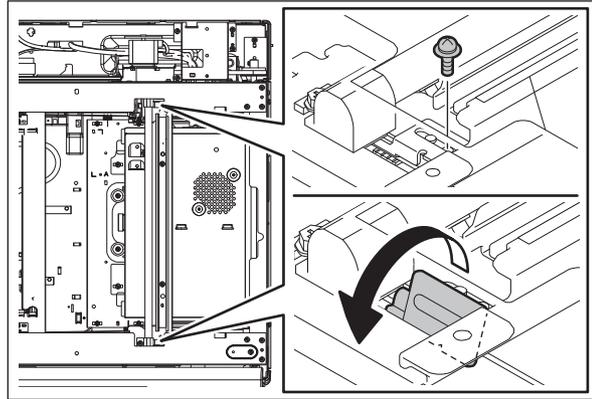
Fig. 4-111

(11) Rotate the carriage-1 in the direction shown in the figure at right, not to touch the mirror. Then take off the carriage-1.

Notes:
When replacing the mirror-1, replace the carriage-1 together with mirror-1.
Mirror-1 should not be removed.
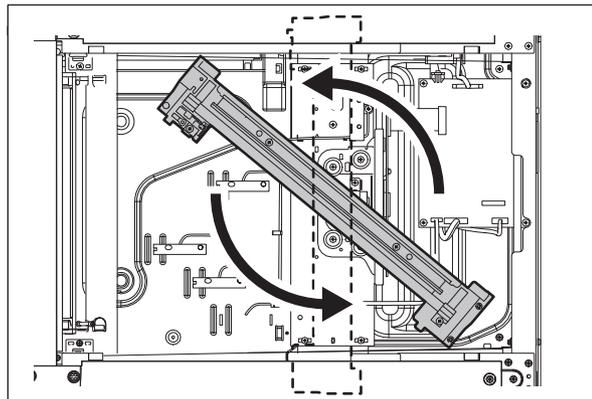
Fig. 4-112

Notes:
When installing carriage-1, fix the bracket temporarily at the position (A). Then move it to the direction (B), push it to the end and fix securely.
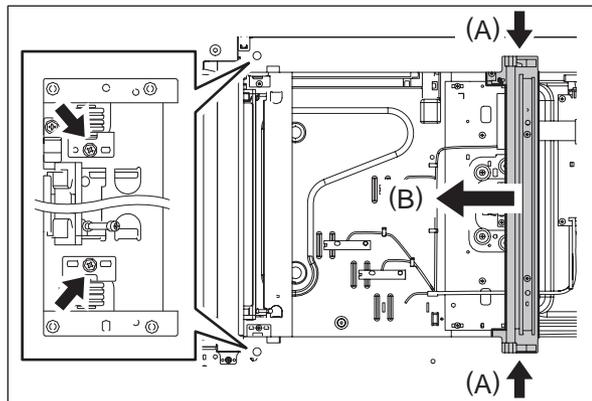
Fig. 4-113

4.5.8 Lamp inverter board (INV)

(1) Take off the rear cover.
📖 P. 4-3 "4.1.6 Rear cover"
(2) Disconnect 2 connector of the lamp inverter board.
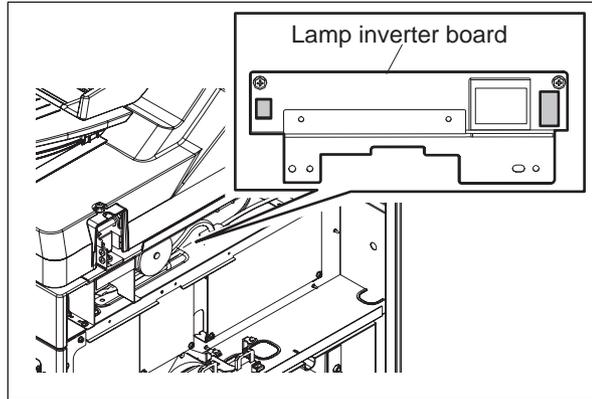
Fig. 4-114

(3) Remove 2 screws and take off the inverter unit.
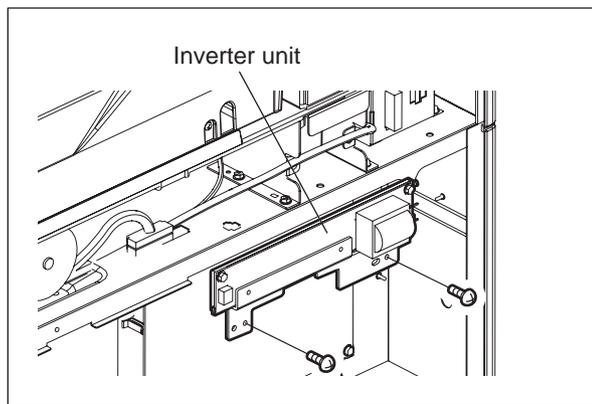
Fig. 4-115

(4) Remove 2 screws and take off the inverter cover.
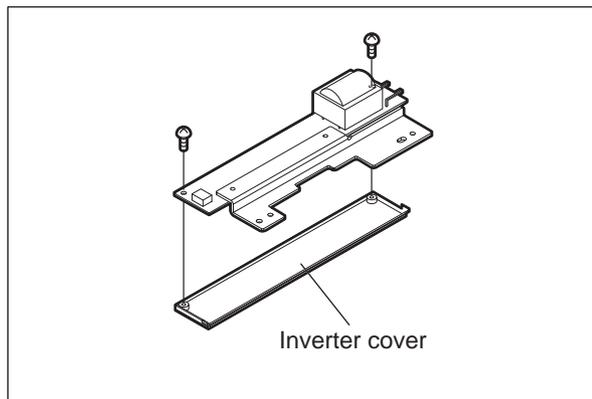
Fig. 4-116

(5) Remove 3 screws and take off the lamp inverter board.

Lamp inverter board
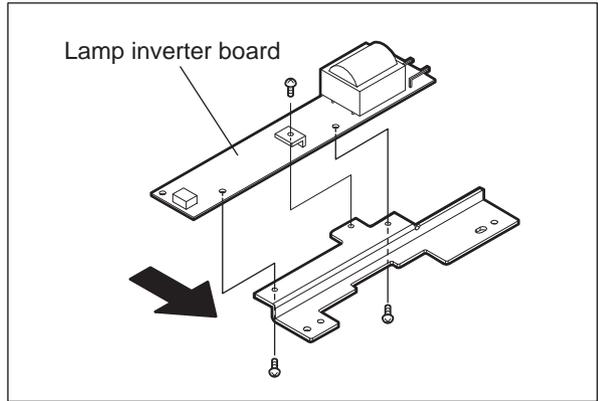
Fig. 4-117

4.5.9 Installing the lamp harness

(1) Install the harness to 2 harness clamps and wire it under carriage-2.
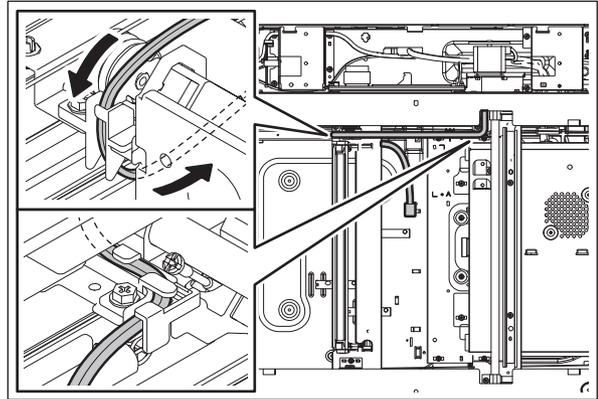
Fig. 4-118

(2) Rotate the drive pulley and move the carriage-1 to the left side.
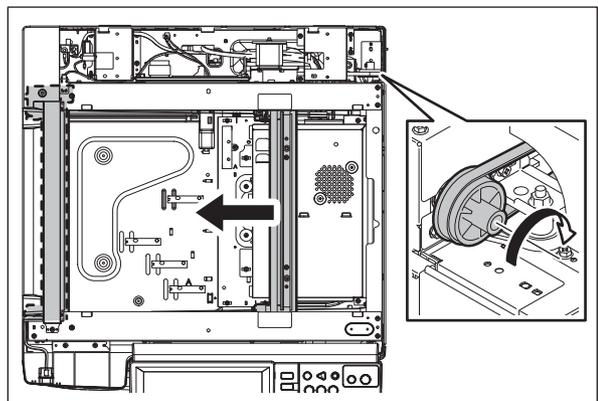
Fig. 4-119

(3) Install the harness in the harness guide and wire it to the rear side of the equipment.
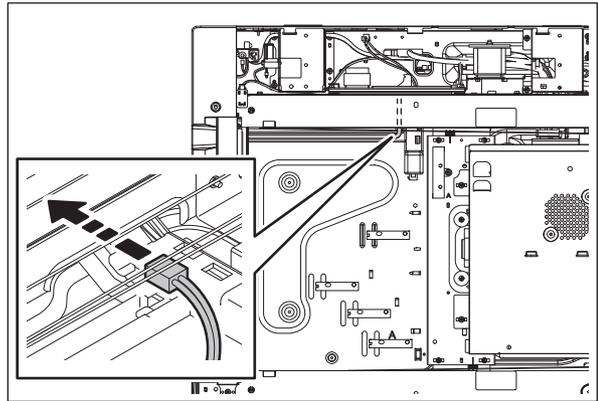
Fig. 4-120

(4) Fix the harness with 1 clamp, and fold the harness back.
(5) After installing, move carriage-1 to the left edge and confirm that there is no abnormality such as a twisted lamp harness.

Xenon lamp | LED
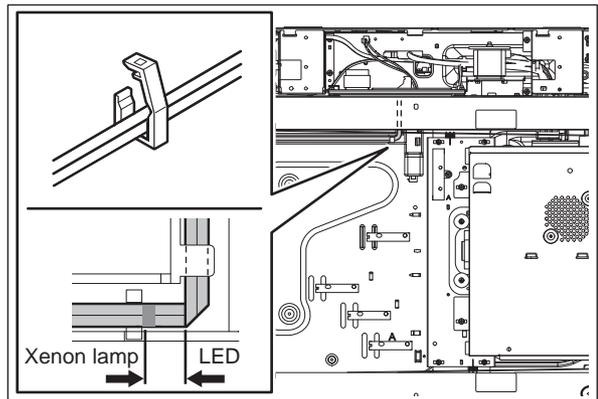
Fig. 4-121

(6) Install the harness in the connector of the lamp inverter board.

   Notes:
   When installing the harness, be careful not to insert it at an angle.

Lamp inverter board

Fig. 4-122

4

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DISASSEMBLY AND REPLACEMENT
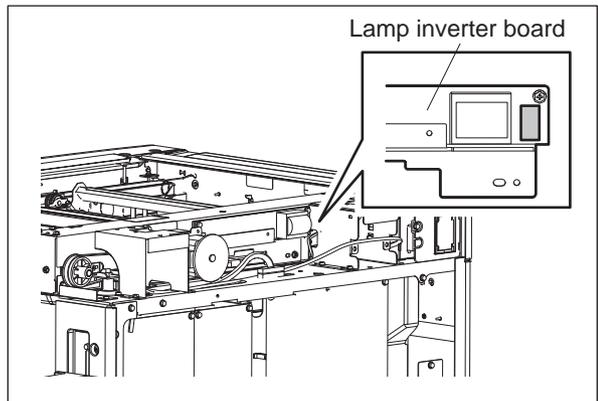
4.5.10 LED board (LEDB)

(1) Take off the rear cover.
   📖 P. 4-3 "4.1.6 Rear cover"
(2) Disconnect 3 connectors.

   Notes:
   When installing the harness, be careful not to insert it at an angle.
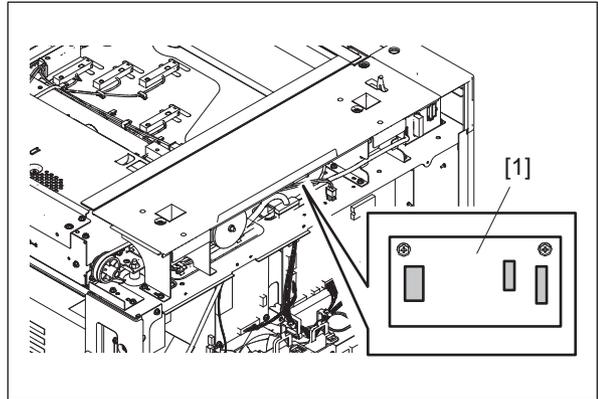
Fig. 4-123

(3) Remove 2 screws and take off the LED board [1].
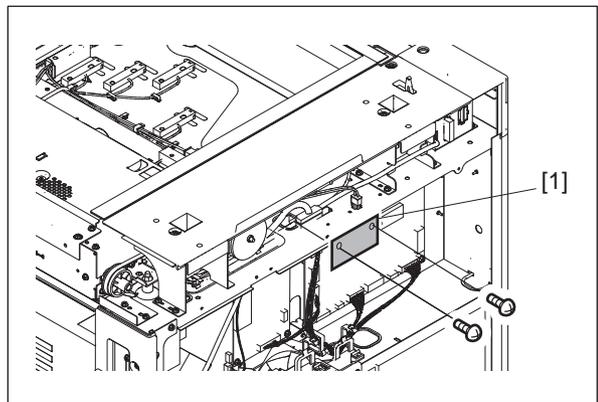
Fig. 4-124

4.5.11　Carriage wire / carriage-2

(1) Take off the carriage-1.
　📖 P. 4-36 "4.5.7 Carriage-1"
(2) Attach the wire holder jigs to the pulleys to prevent the wires from loosening.

　Notes:
　　Refer to the following procedure for the direction of the wire holder jigs.
　　Service Handbook Chap.3
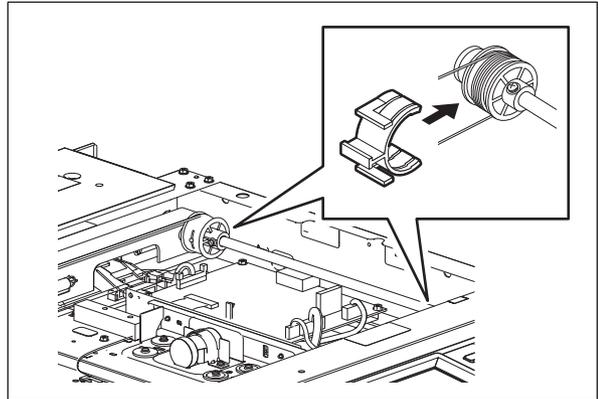
Fig. 4-125

(3) Detach the tension springs of the front and rear sides.
(4) Remove the carriage wires.
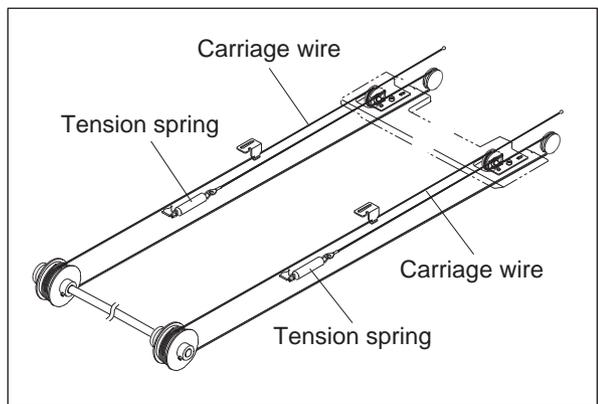
Fig. 4-126

(5) Take off carriage-2 by rotating it as shown in the figure on the right without touching the mirrors.

　Notes:
　　1. When replacing the mirrors-2 and -3, replace the carriage-2 together with mirrors-2 and -3. Mirrors-2 and -3 should not be removed.
　　2. When installing carriage-2, fix the bracket temporarily at the position (A). Then move it to the direction (B), push it to the end and fix securely.
　　📖 P. 4-38 "Fig. 4-113 "

Fig. 4-127

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DISASSEMBLY AND REPLACEMENT
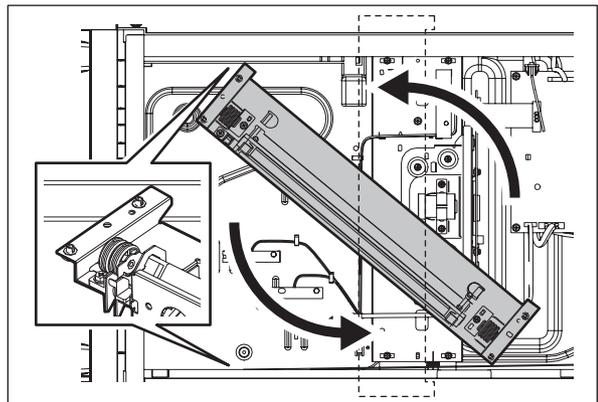
4.5.12 Platen sensor (S6) / Carriage home position sensor (S7)

(1) Take off the upper rear cover.
📖 P. 4-4 "4.1.7 Upper rear cover"
(2) Disconnect 1 connector. Release the latches and take off the platen sensor.
(3) Remove the seal on the carriage home position sensor.
(4) Disconnect 1 connector. Release the latches and take off the carriage home position sensor.
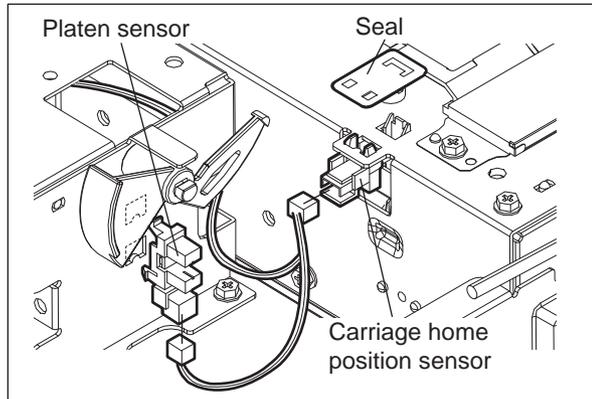
Fig. 4-128

4.5.13 SLG board (SLG)

(1) Take off the lens cover.
📖 P. 4-26 "4.5.2 Lens cover"
(2) Disconnect 7 connectors, remove 4 screws and take off the SLG board.
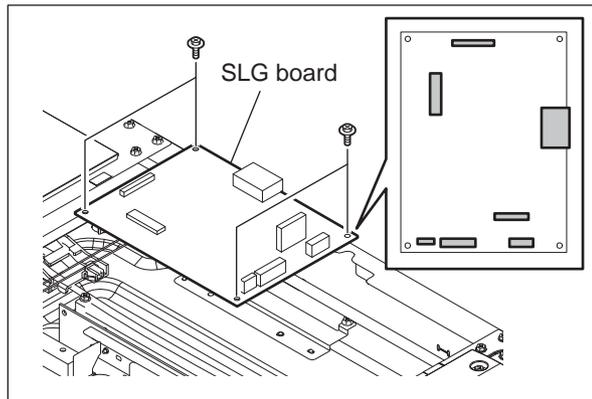
Fig. 4-129

4.6 SCANNER <e-STUDIO207L/257/307/357/457/507>

Notes:

Since the scanner section is assembled with high precision, be sure not to perform any disassembling other than that instructed in the Service Manual.

4.6.1 Original glass

(1) Take off the right upper cover.
    📖 P. 4-11 "4.2.5 Right upper cover"
(2) Remove 2 screws and take off the original glass [1].

   Notes:
   - Make sure that the RADF original glass [2] is securely inserted into the groove of the fixing part of the original glass [1].
   - Securely insert the 2 pins of the original glass [1] into the holes in the frame.
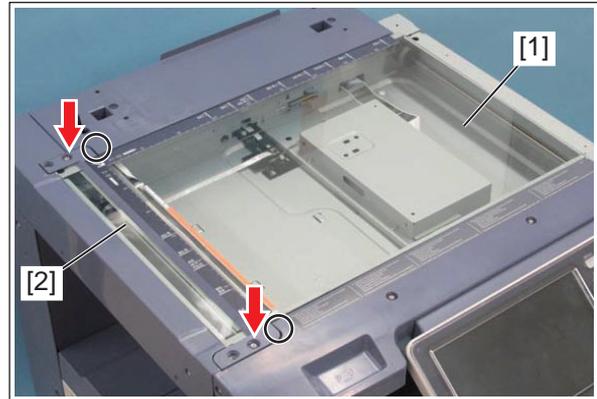
Fig. 4-130

(3) Take off the RADF original glass.
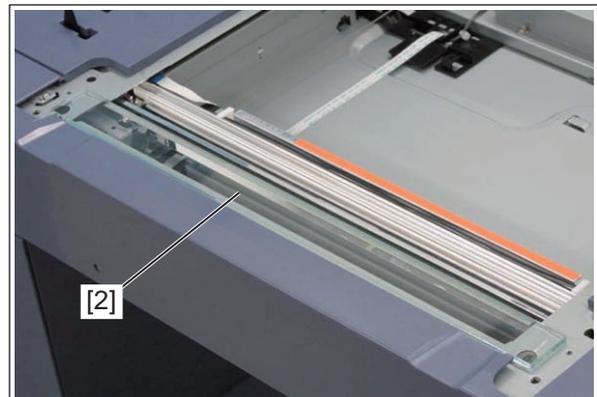
Fig. 4-131

4.6.2 Lens cover

(1) Take off the original glass.
    📖 P. 4-45 "4.6.1 Original glass"
(2) Remove 2 screws. Lift the lens cover [1] and then take off the lens cover toward the left side.
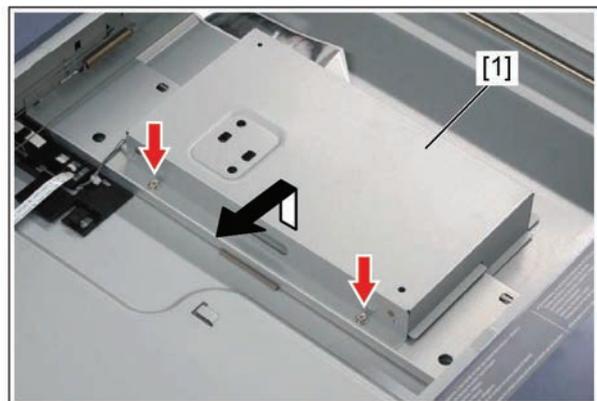
Fig. 4-132

4.6.3 Automatic original detection sensor-1

(1) Take off the lens cover.
📖 P. 4-45 "4.6.2 Lens cover"
(2) Disconnect 1 connector. Remove 1 screw and take off the automatic original detection sensor-1 [1].
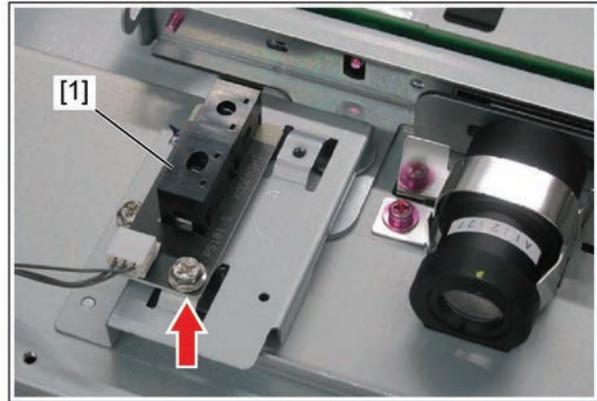
Fig. 4-133

4.6.4 Automatic original detection sensor-2

(1) Take off the lens cover.
📖 P. 4-45 "4.6.2 Lens cover"
(2) Disconnect 1 connector. Remove 1 screw and take off the automatic original detection sensor-2 [2].
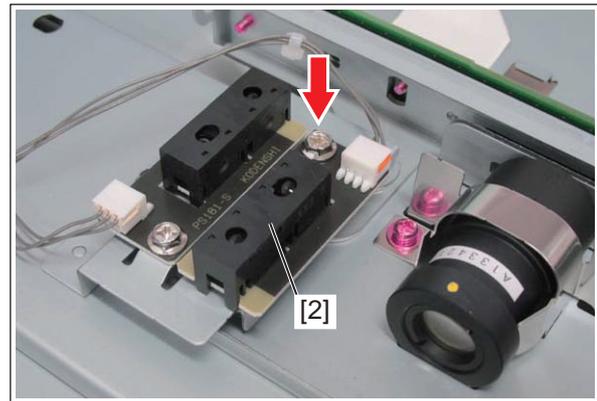
Fig. 4-134

4.6.5 Lens unit / CCD driving PC board

(1) Disconnect 1 connector, remove 1 screw and then take off the automatic original detection sensor bracket [1].
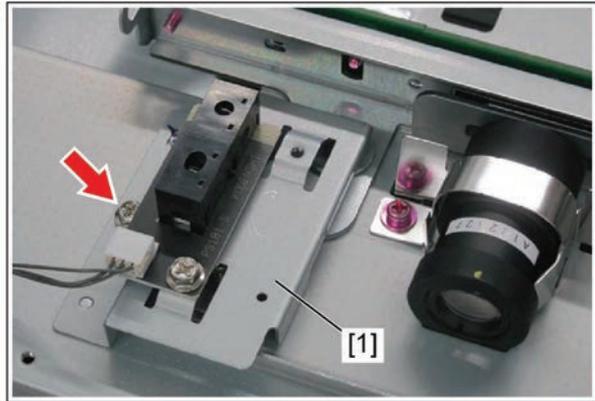
Fig. 4-135

(2) Disconnect 1 connector [2].
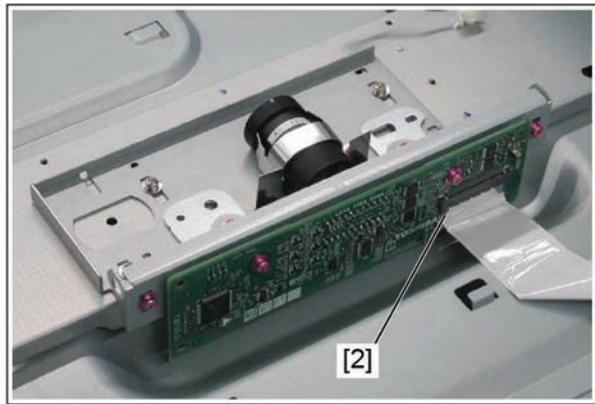
Fig. 4-136

(3) Remove 4 screws and take off the lens unit [3].
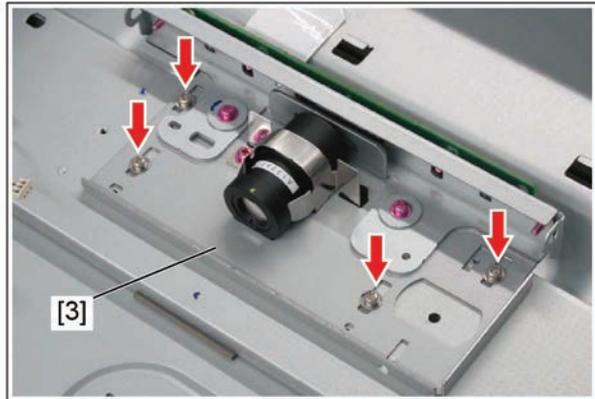
Fig. 4-137

Notes:

1. The CCD lens unit is adjusted finely, so the readjustment or replacement of some parts is impossible in the field. The lens unit must be replaced on a unit basis.
2. Handle the lens unit with care. Do not hold the adjustment unit or lens.
3. Count the number of lines [3] and write it down for later reference before removing the CCD lens unit. When installing the CCD lens unit, the same number of lines needs to be visible.
4. When replacing the lens unit, do not touch the screws (7 places).

Fig. 4-138

EEPROM
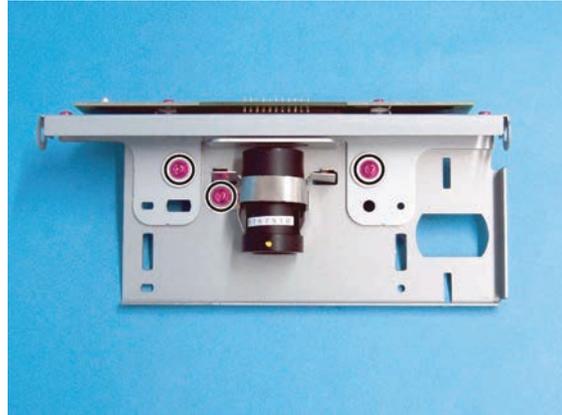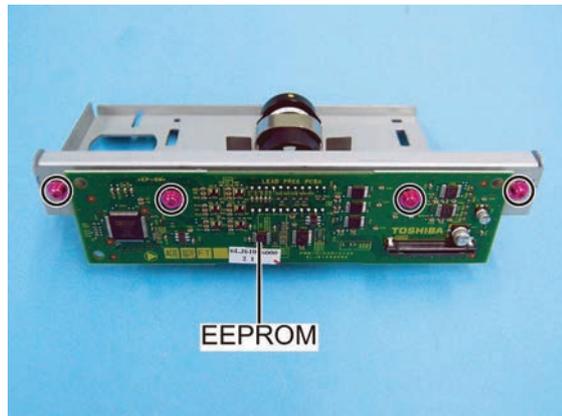
Fig. 4-139

4.6.6 Carriage home position sensor

(1) Take off the original glass.
  📖 P. 4-45 "4.6.1 Original glass"
(2) Remove the seal [1]. Disconnect the 1 connector and release 3 latches, and then remove the carriage home position sensor [2].
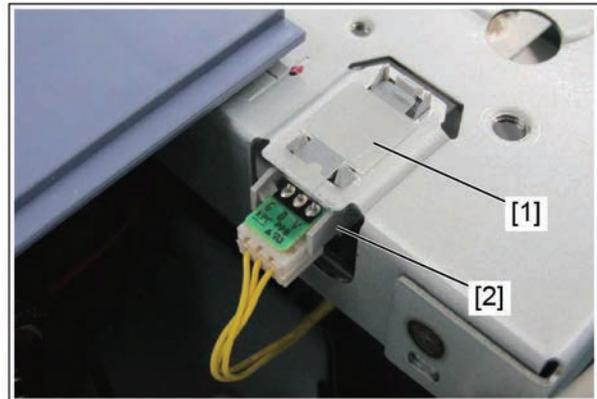
Fig. 4-140

4.6.7 Exposure lamp

(1) Take off the original glass.
    📖 P. 4-45 "4.6.1 Original glass"

(2) Rotate the drive pulley and move the carriage-1 [1] so that the screw can be seen [2].

(3) Remove 1 screw [3].
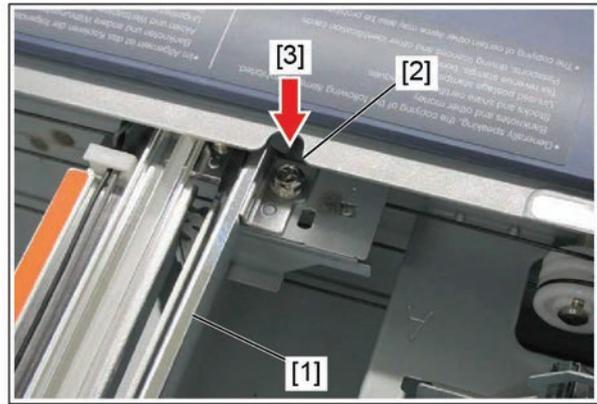
Fig. 4-141

(4) Lift the exposure lamp unit [4] and rotate the exposure lamp unit in the direction shown in the figure on the right. Then disconnect 1 connector [5].
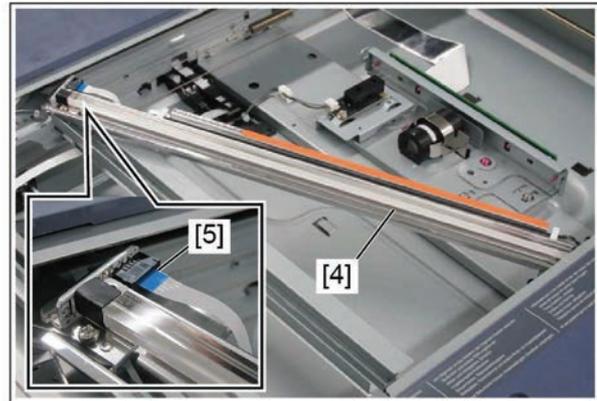
Fig. 4-142

(5) Take off the exposure lamp unit [4].
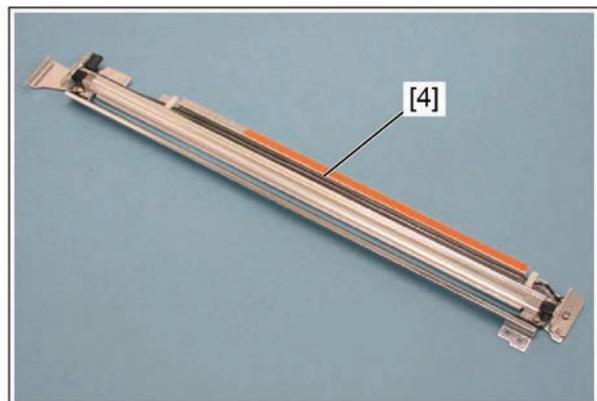
Fig. 4-143

4.6.8 Scan motor (M1)

(1) Take off the upper rear cover.
   📖 P. 4-12 "4.2.7 Upper rear cover"
(2) Remove 2 screws, disconnect 1 connector [1] and take off the scan motor assembly [2].

   Notes:
   When installing the scan motor, use the belt tension jig.
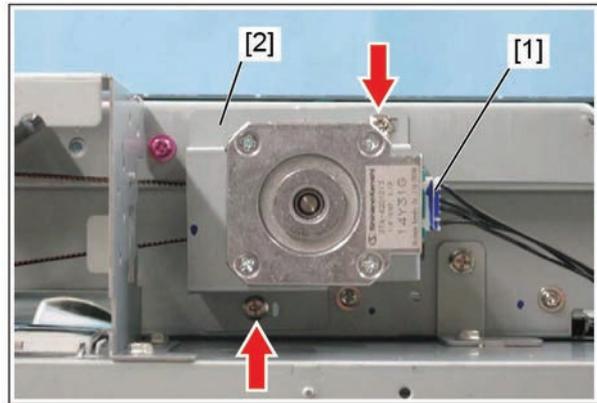
Fig. 4-144

(3) Remove 2 screws and take off the scan motor [1].
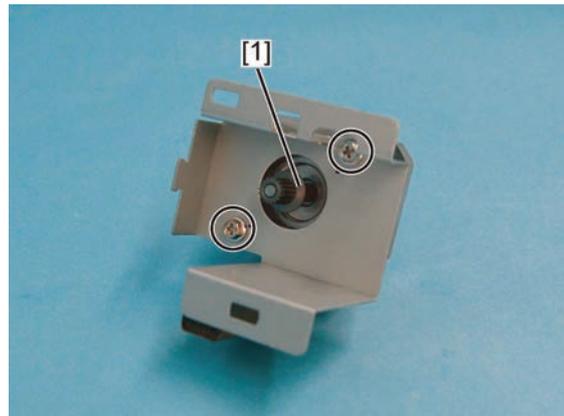
Fig. 4-145

4.6.9   Platen sensor-1, -2(S21, S22)

(1) Take off the rear cover.
      📖 P. 4-12 "4.2.7 Upper rear cover"

(2) Remove 1 harness clamp [1].Release the
      harness from the harness clamp [2].
      Disconnect 2 connectors [3]. Remove 4
      screws and take off the platen sensor
      assembly [4].
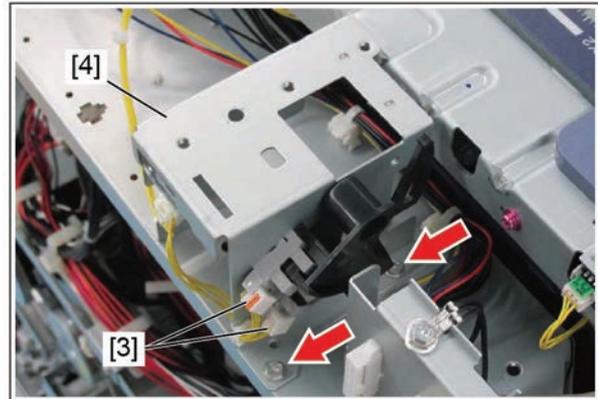
Fig. 4-146

(3) Disconnect 2 connectors [1], then take off the
      platen sensor-1 [2] and the platen sensor-2
      [3].
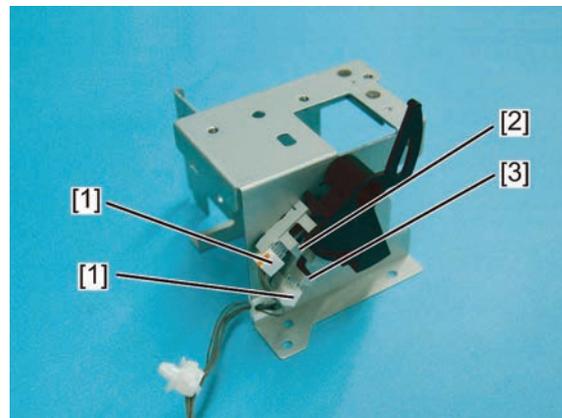
Fig. 4-147

4.6.10 Carriage-1

(1) Remove the original glass.
    📖 P. 4-45 "4.6.1 Original glass"
(2) Remove the rear top cover.
    📖 P. 4-12 "4.2.7 Upper rear cover"
(3) Remove the front top cover.
    📖 P. 4-10 "4.2.2 Front upper cover"
(4) Move carriage-1 [1] to the leftmost side, and make sure that the screws on carriage-1 are showing.
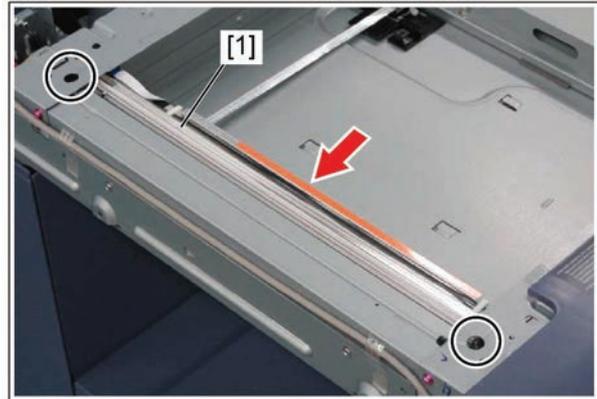
Fig. 4-148

Notes:
    To move the carriage, manually rotate the drive pulley.
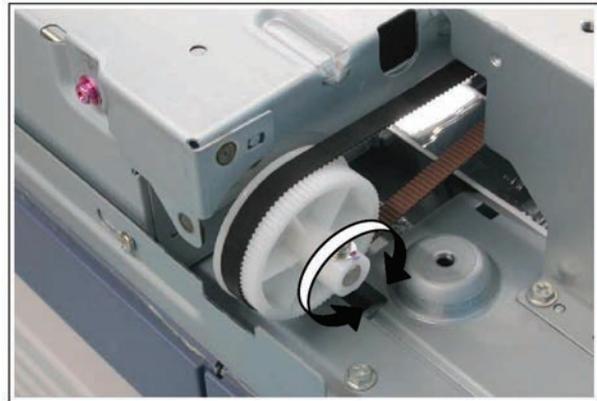
Fig. 4-149

(5) Remove 2 screws.
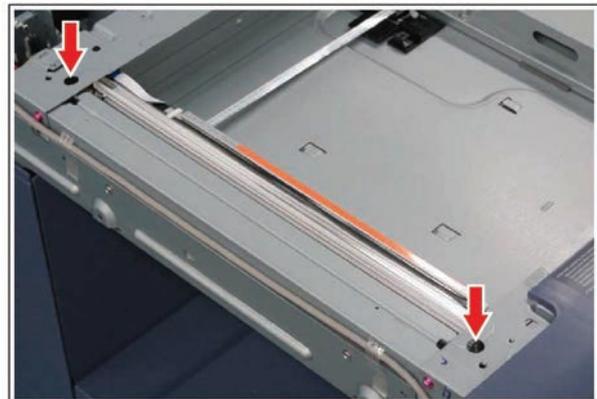
Fig. 4-150

(6) Rotate carriage-1 [1] in the direction shown in the figure, while trying not to touch the mirror. Then remove carriage-1 [1].
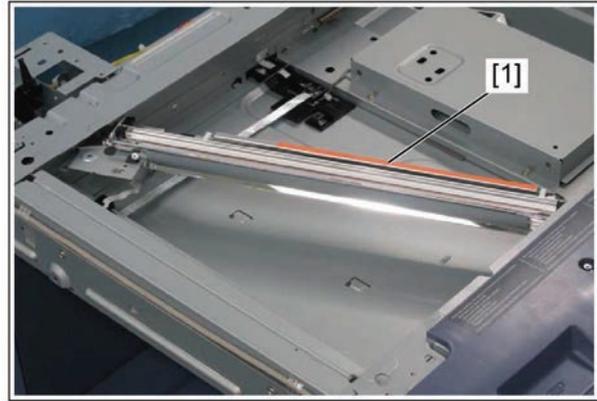
Fig. 4-151

Fig. 4-152

Notes:
Follow the procedure below to connect the exposure lamp harness.

1. Push carriage-1 and -2 to the leftmost side and fix carriage-1.
2. Securely install the exposure lamp harness on the cable guide and SYS board.
3. After connecting the exposure lamp harness, move carriage-1 to the leftmost side and check the lamp harness for any twists.
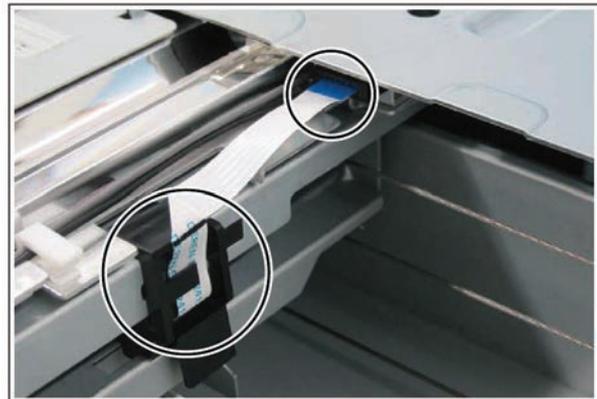
Fig. 4-153

4 When installing carriage-1, make sure that the wire is placed on the cutout of carriage-1.
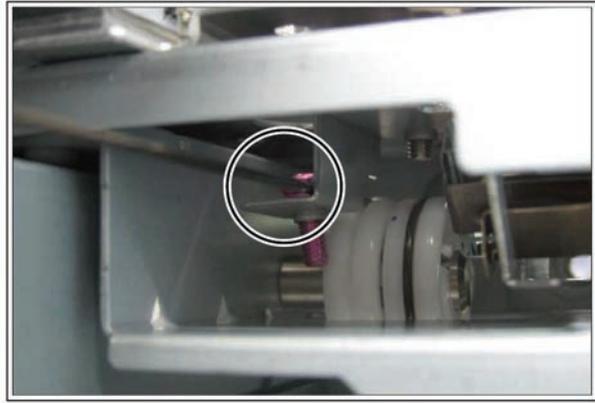
Fig. 4-154
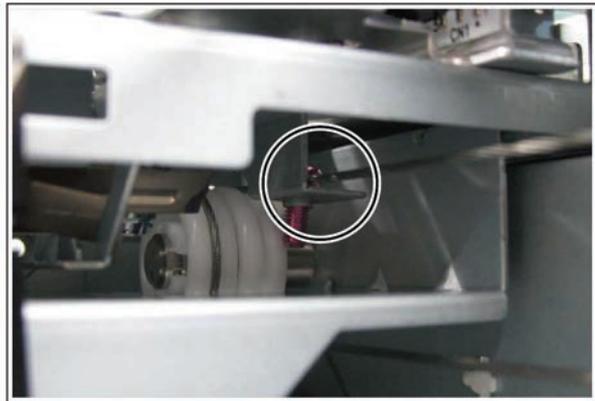
Fig. 4-155

4.6.11 Carriage wire, carriage-2

[A] Carriage wire, carriage-2

(1) Remove carriage-1.
   📖 P. 4-52 "4.6.10 Carriage-1"
(2) Move carriage-2 to the center.
(3) Attach the wire holder jig [2] to the wire pulley [1] to prevent the wire from coming loose.
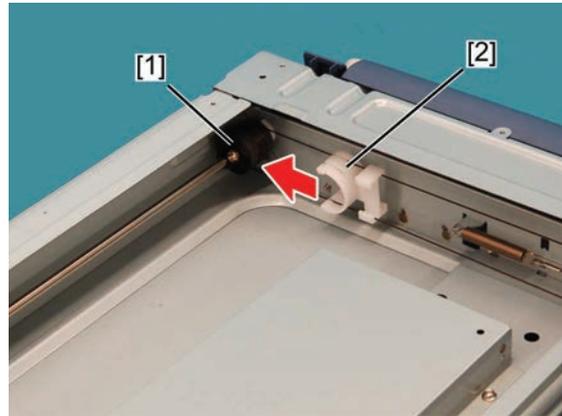
Fig. 4-156

Notes:
1. When attaching the wire holder jig [1], make sure that the wire has not shifted or become loose.
2. The wire should come out of the slot of the wire holder jig [1] and be passed under the jig arm [2].
3. When installing the wire holder jig, be careful of the orientation.
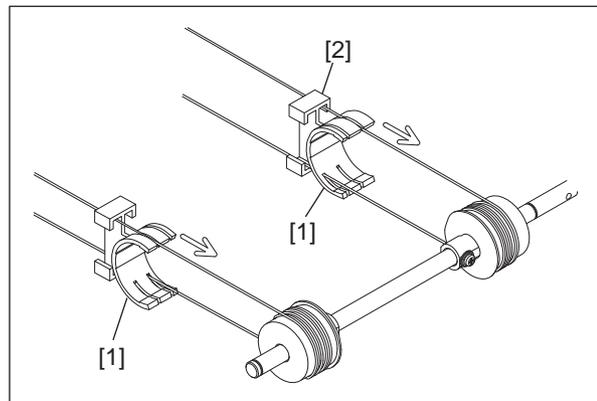
Fig. 4-157

(4) Remove the tension springs [1] in the front and rear sides.
(5) Remove the carriage wire [2].
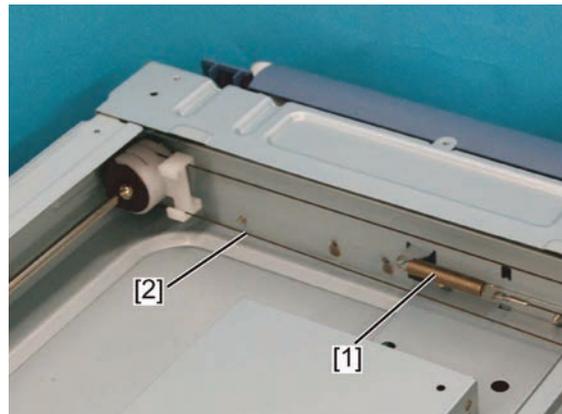
Fig. 4-158

(6) Rotate carriage-2 [1] in the direction shown
in the figure, while trying not to touch the
mirror. Then remove carriage-2 [1].

Notes:

Replace mirror-2 and -3 together with
carriage-2 [1]. Do not remove mirror-2 and -
3.
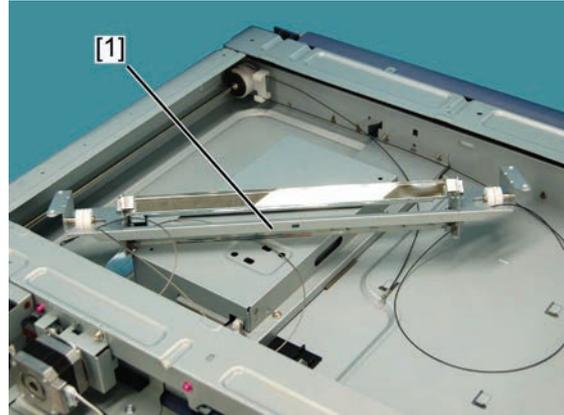
Fig. 4-159

[B] Installing the carriage wire

(1) As shown on the right, replace the carriage
wire and install a new wire.
[1] Wire pulley
[2] Carriage wire
[3] Carriage-2
[4] Idler pulley
[5] Hook
[6] Tension spring
[7] Front side
[8] Rear side

Notes:

It is not necessary to adjust the carriage wire
tension since a certain tension is applied to
the carriage wires through the tension
springs. Make sure the tension applied to the
wire is normal.
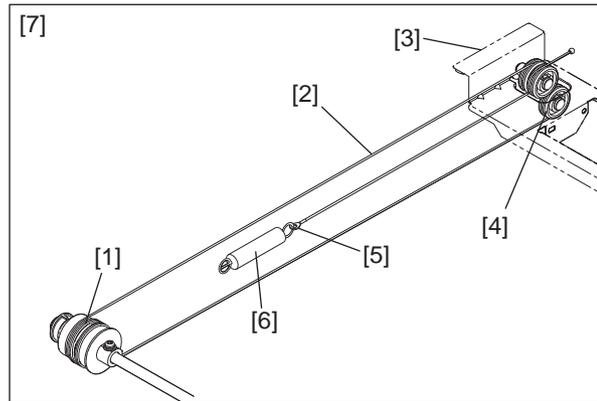
Fig. 4-160
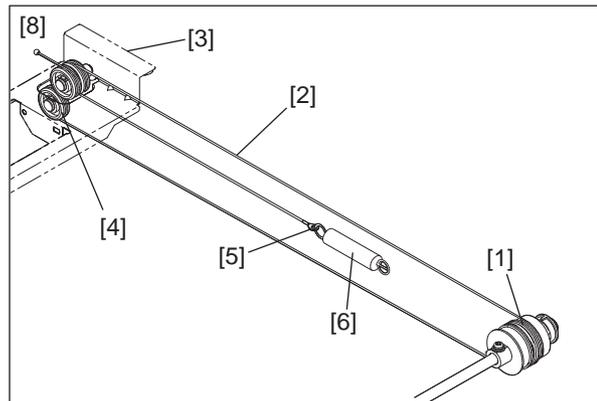
Fig. 4-161

[C] Winding on the wire pulley

(1) Pull the ø3 ball terminal [1] located at the center of the wire into a hole on the wire pulley. One end of the wire with the hook [2] attached comes to the outside.

(2) Wind the wires around the wire pulleys of the front side [3] and rear side [4]. The number of turns to be wound are as follows: 3 [5] toward the opposite side (outside) of the pulley boss, and 3 [6] toward the pulley boss side (inside).
[7] Black
[8] Silver
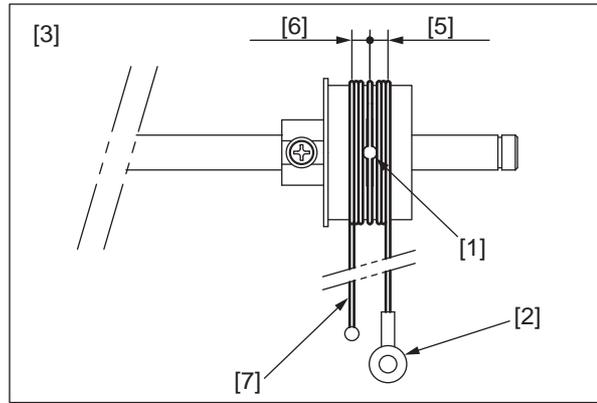
Notes:

When winding the wire onto the pulley, be sure to note the following.

- Do not twist the wire.
- Wind the wires tightly so that they are in complete contact with the surface of the pulleys.
- Each turn should be pushed against the previously wound one so that there is no space between them.
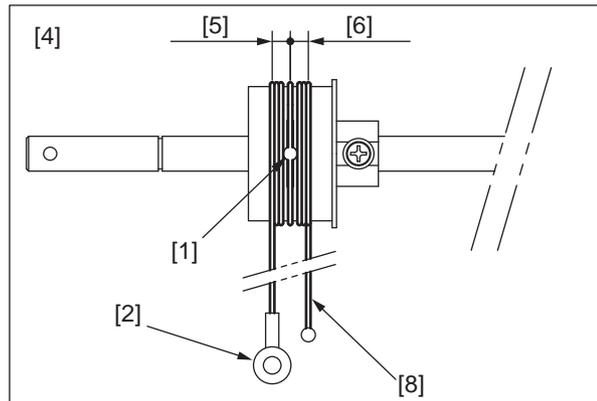
Fig. 4-162

Fig. 4-163

(3) After winding the wires around the pulleys, attach the wire holder jigs to prevent the wire from coming loose.

Notes:
1. When attaching the wire holder jig [1], make sure that the wire has not shifted or become loose.
2. The wire should come out of the slot of the wire holder jig [1] and be passed under the jig arm [2].
3. When installing the wire holder jig, be careful of the orientation.

Fig. 4-164

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
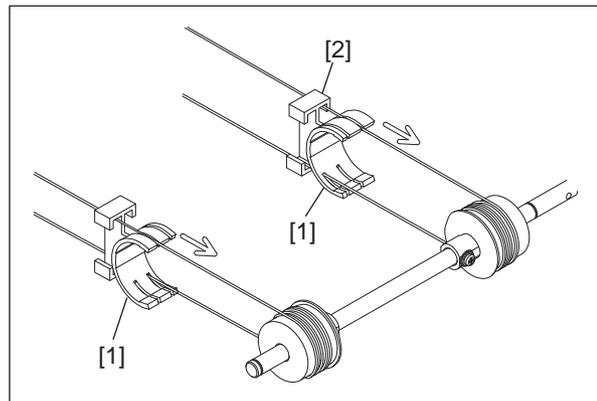
4.7 LASER OPTICAL UNIT <e-STUDIO206L/256/306/356/456/506>

4.7.1 Laser optical unit

(1) Take off the rear cover.
    📖 P. 4-3 "4.1.6 Rear cover"
(2) Disconnect 2 connectors from the LGC board.

Notes:
Connect the flat harness to the LGC board with its electrode side down. An error "CA20" will be displayed if the connection is incorrect.
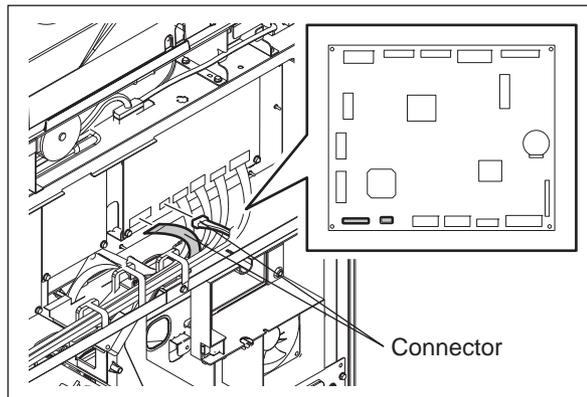
Connector

Fig. 4-165

(3) Take off the inner tray.
    📖 P. 4-4 "4.1.9 Inner tray"
(4) Disconnect 1 connector and remove 1 screw. Take off the duct.

Duct
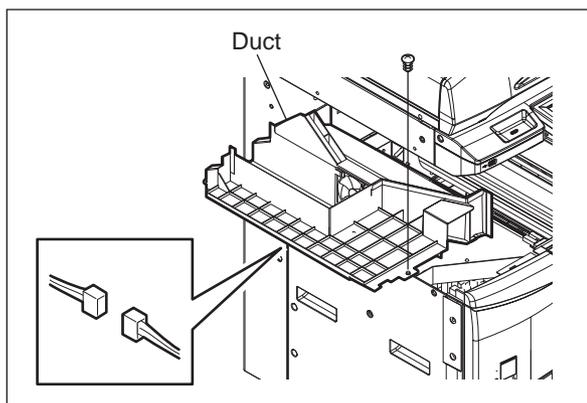
Fig. 4-166

(5) Remove 1 screw and take off the metal plate cover [1].

[1]
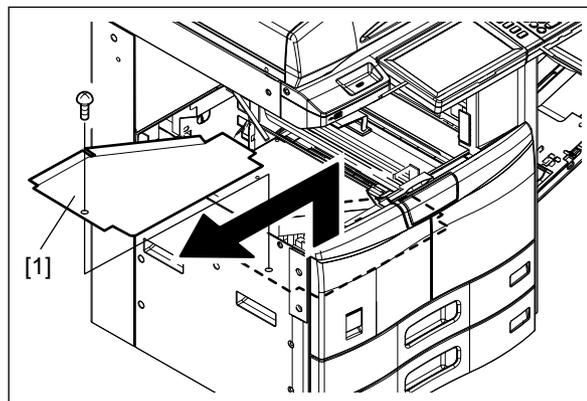
Fig. 4-167

(6) Remove 1 screw and raise the laser optical unit to take it off.

Notes:

When removing and installing the laser optical unit, be careful not to deform the leaf spring.
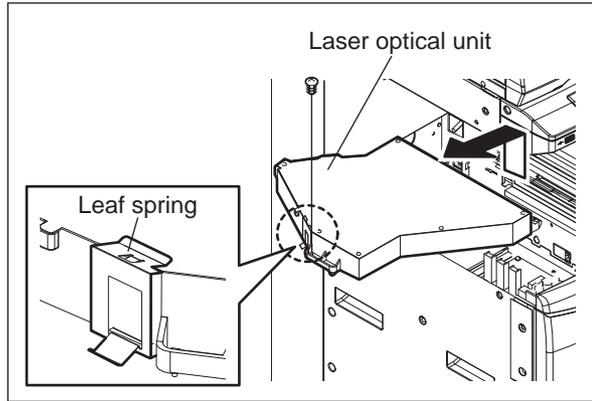
Fig. 4-168

(7) Release the catch of the leaf spring and then remove it from the laser optical unit.
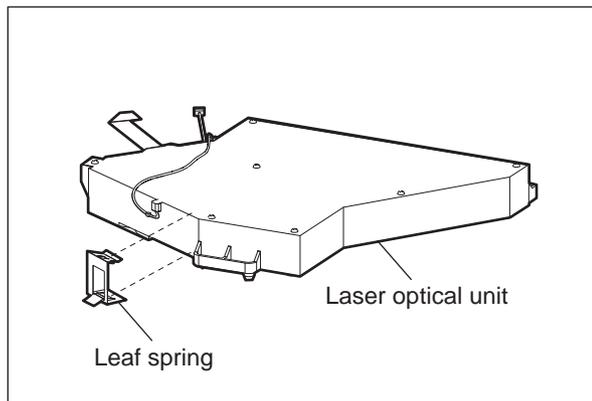
Fig. 4-169

Notes:

1. Do not leave fingerprints or stain on the slit glass of the laser optical unit.
2. Pay close attention not to make an impact or vibration on the laser optical unit because it is a precise apparatus.
3. Place the removed laser optical unit so as not to load on the polygonal motor.
4. Do not disassemble the laser optical unit in the field because it is precisely adjusted and very sensitive to dust and stain.
5. Hold the laser optical unit vertically. Do not press the top of the unit where the polygonal motor is installed with your hands or other things.
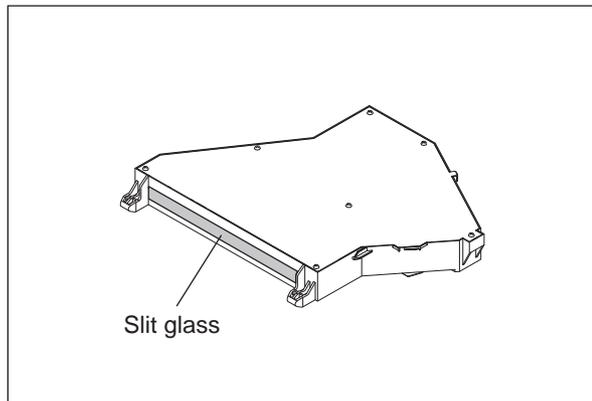
Fig. 4-170

4.8 LASER OPTICAL UNIT <e-STUDIO207L/257/307/357/457/507>

4.8.1 Laser optical unit

(1) Take off the inner tray.
📖 P. 4-13 "4.2.10 Inner tray"
(2) Take off the left cover.
📖 P. 4-13 "4.2.11 Left cover"
(3) Disconnect 1 connector [1] of the process unit fan.
(4) Remove the duct fixing screw [3]. Raise the front side of duct [2] and then take it off.
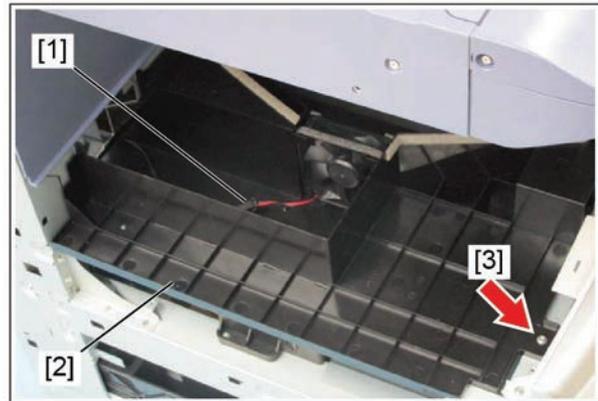
Fig. 4-171

(5) Take off the duct [2].
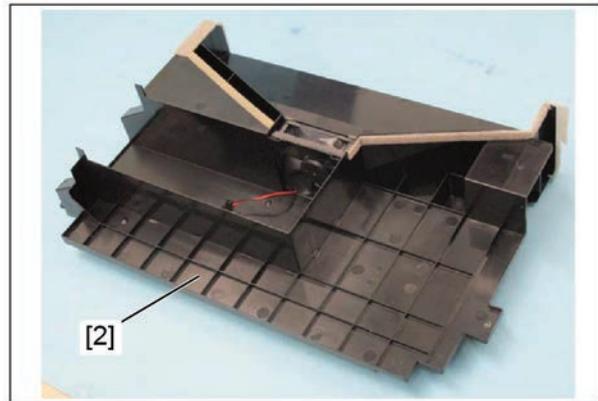
Fig. 4-172

Take off the sponge [4].
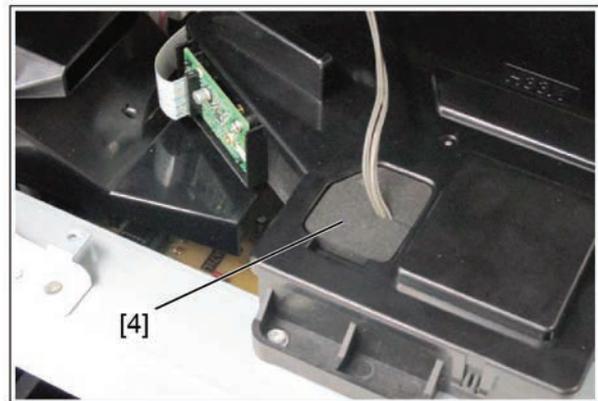
Fig. 4-173

(6) Disconnect 2 connectors [5]. Remove 1 screw [6].

Notes:

Connect the flat harness to the laser optical unit with its electrode side to the front. A "CA20" error will be displayed if the connection is incorrect.
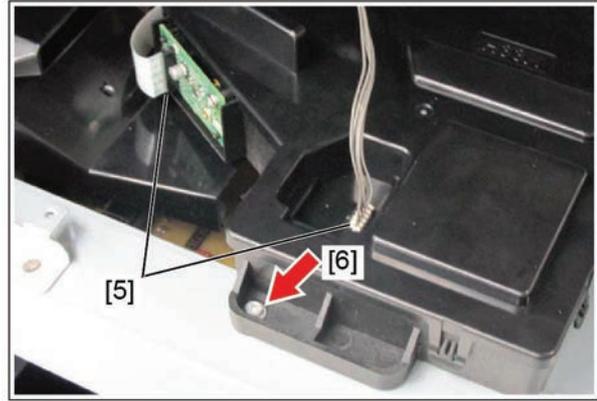
Fig. 4-174

(7) Release the harness from the 2 clamps [7] of the laser optical unit.
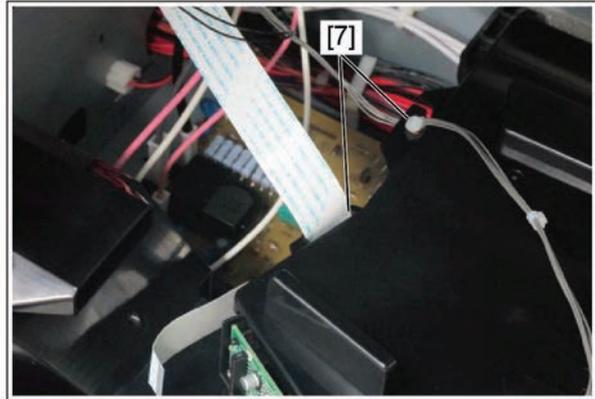
Fig. 4-175

(8) Take off the laser optical unit [8].
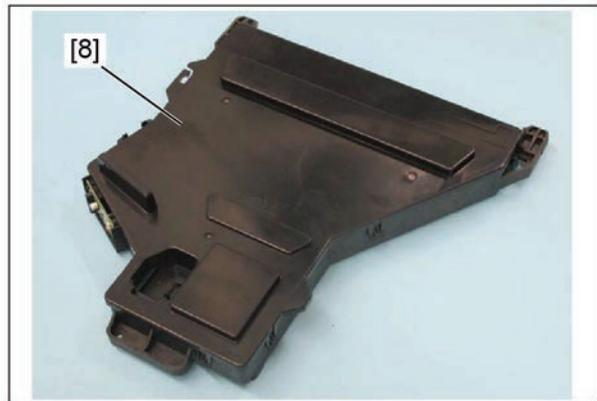
Fig. 4-176

Notes:

Never loosen or remove the 2 fixing screws [9] of the LDRS board in the laser optical unit.
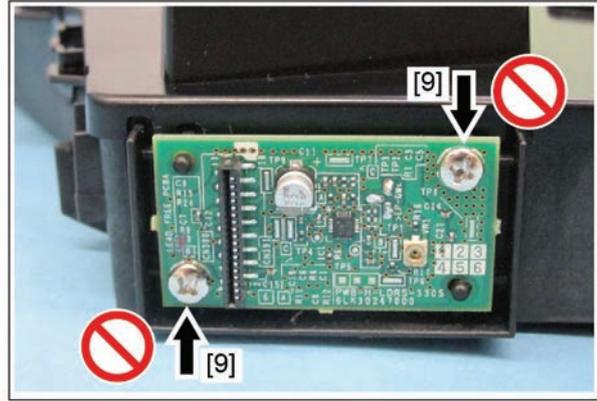
Fig. 4-177

4.9 PAPER FEEDING SYSTEM

4.9.1 Drawer

(1) Pull out the drawer until it comes to a stop.
(2) Remove 1 screw and the stopper.
(3) Take off the drawer.
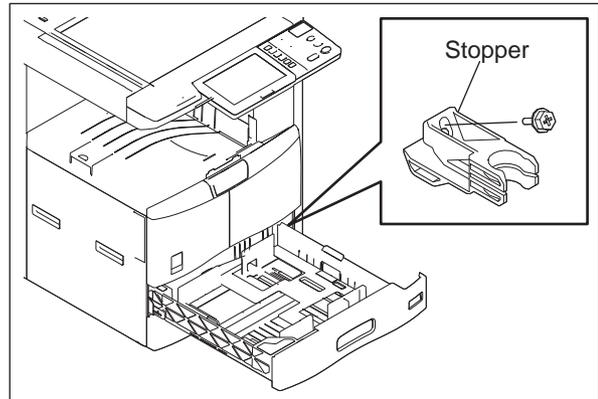
Fig. 4-178

4.9.2 Drawer feeding unit

(1) Take off the drawer.
(📖 P. 4-63 "4.9.1 Drawer").
(2) Open the feed cover.
(3) Remove 1 screw and take off the drawer feeding unit by sliding it to the front side.
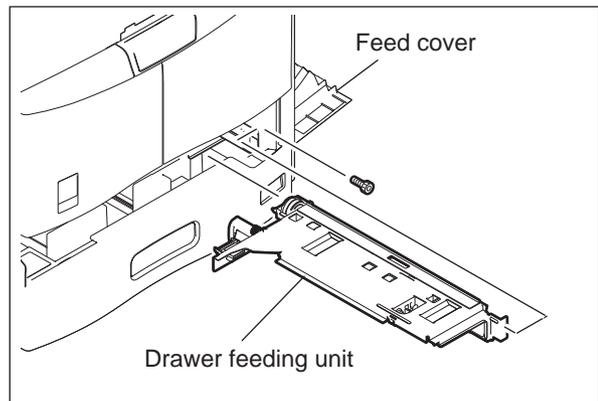
Fig. 4-179

4.9.3 Tray-up sensor (S16/S19)

(1) Take off the drawer feeding unit
(📖 P. 4-63 "4.9.2 Drawer feeding unit").
(2) Disconnect the connector and release the 3 latches to take off the tray-up sensor.
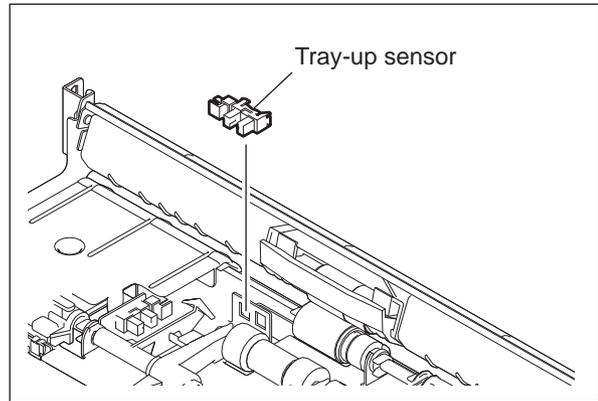
Fig. 4-180

4.9.4 Empty sensor (S17/S20)

(1) Take off the drawer feeding unit
(📖 P. 4-63 "4.9.2 Drawer feeding unit").
(2) Remove 1 screw and then slide the guide slightly.
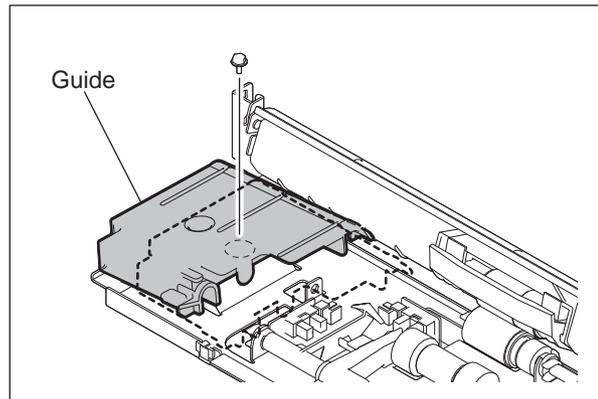
Fig. 4-181

(3) Disconnect 1 connector and then take off the upper/lower drawer empty sensor by releasing 3 latches.
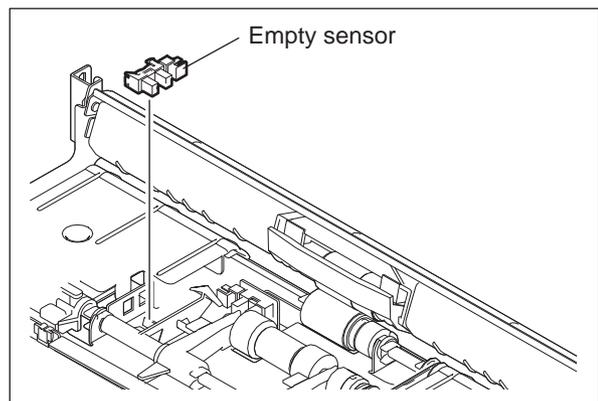
Fig. 4-182

4.9.5　Paper stock sensor (S15/S18)

(1) Take off the drawer feeding unit
    (📖 P. 4-63 "4.9.2 Drawer feeding unit").
(2) Pull up the paper stock sensor arm.
(3) Disconnect the connector and release the 3 latches to take off the paper stock sensor.

Paper stock sensor
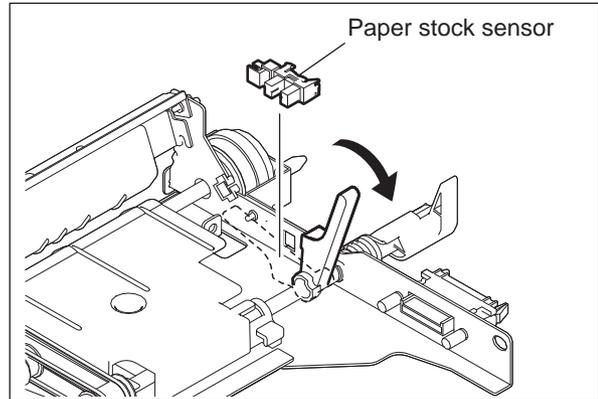
Fig. 4-183

4.9.6　Separation roller 🔳

(1) Take off the drawer feeding unit
    (📖 P. 4-63 "4.9.2 Drawer feeding unit").
(2) Remove 1 screw and take off the separation roller holder.

Separation roller holder
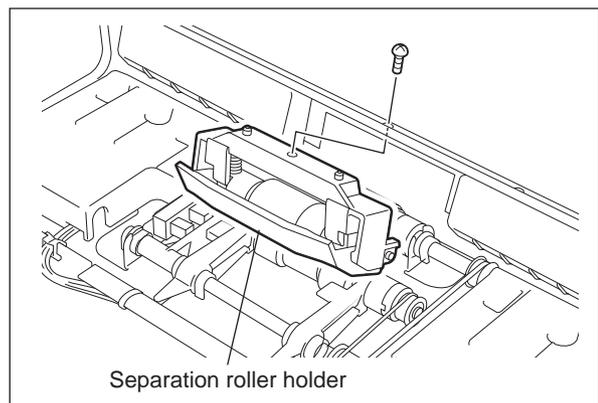
Fig. 4-184

(3) Detach the lever from the holder and take off the separation roller with the shaft.

Lever
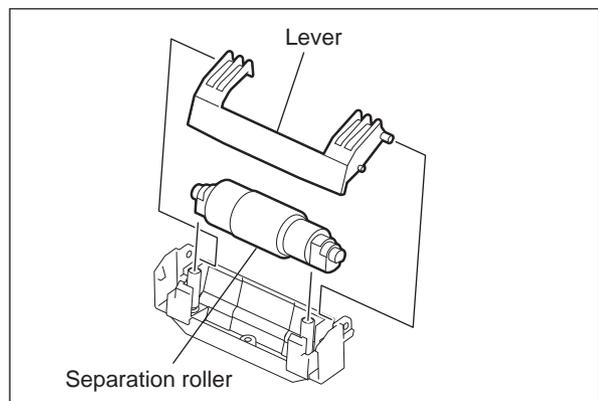
Separation roller

Fig. 4-185

(4) Detach the cover, arbor and clutch spring from the shaft, and then take off the separation roller.
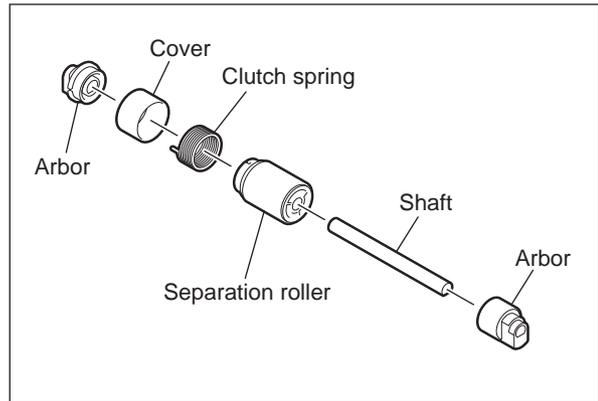
Fig. 4-186

Notes:
In case of the e-STUDIO506/507, detach the arbors and torque limiter from the shaft, and then take off the separation roller.

Fig. 4-187

4.9.7   Feed roller 🅿🅼

(1) Take off the separation roller holder
(📖 P. 4-65 "4.9.6 Separation roller").
(2) Remove the clip and take off the feed roller.
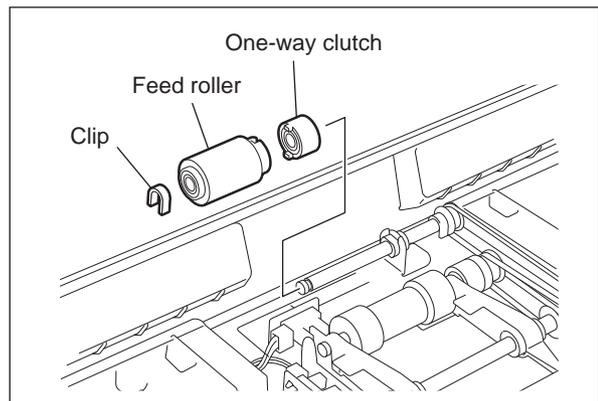
Fig. 4-188

4.9.8 Pickup roller 🅿️🅼

(1) Take off the drawer feeding unit
    (📖 P. 4-63 "4.9.2 Drawer feeding unit").
(2) Press the pickup roller and lift the rear pickup arm.
(3) Slide the pickup roller assembly to the rear side, and take off the front shaft from the pickup arm.
(4) Take off the timing belt and then the pickup roller assembly.

Pickup roller assembly

Pickup arm   Timing belt
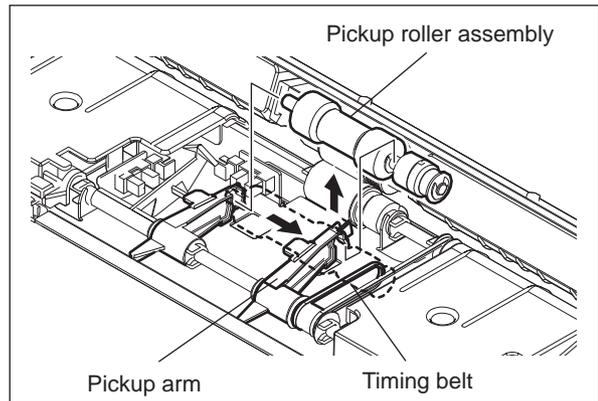
Fig. 4-189

(5) Remove the pulley, one-way clutch and 3 E-rings. Then take off the pickup roller.

E-ring

One-way clutch

Pulley

E-ring

Pickup roller
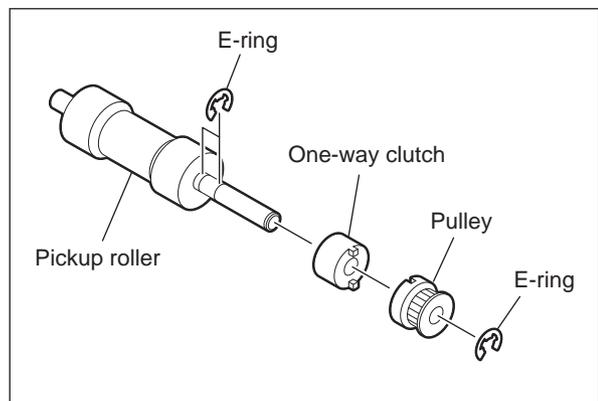
Fig. 4-190

4.9.9 Drawer feed clutch (CLT4/CLT5)

(1) Take off the drawer feeding unit
(📖 P. 4-63 "4.9.2 Drawer feeding unit").

(2) Remove 2 screws and take off the clutch
plate.

Clutch plate
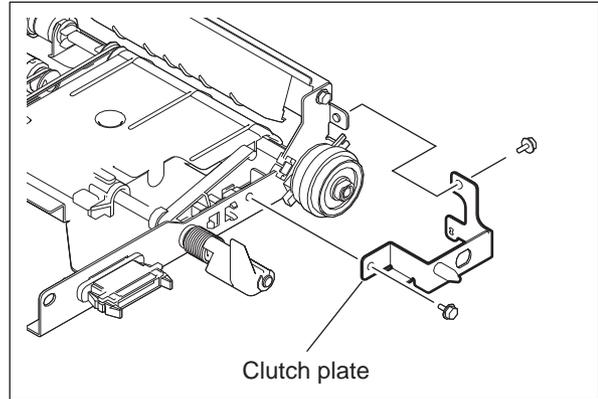
Fig. 4-191

(3) Disconnect 1 connector and take off the
upper/lower drawer feed clutch and bushing.

Notes:

Match the rotation stopper of the clutch with
the position shown in the figure for
assembling.

Bushing

Drawer feed clutch
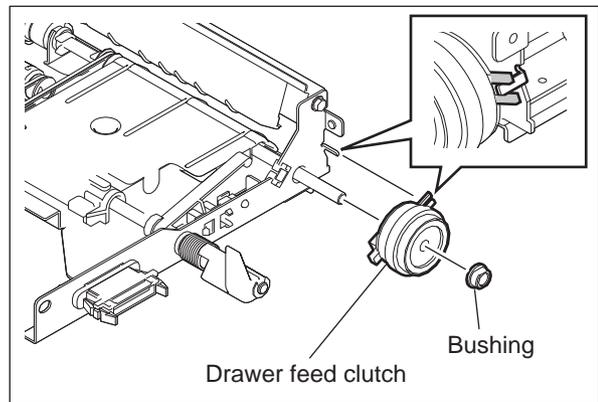
Fig. 4-192

4.9.10 Bypass tray

(1) Take off the transfer unit.
 📖 P. 4-99 "4.11.17 Transfer unit"
(2) Open the bypass tray and then remove the stopper by twisting it for 90 degrees.
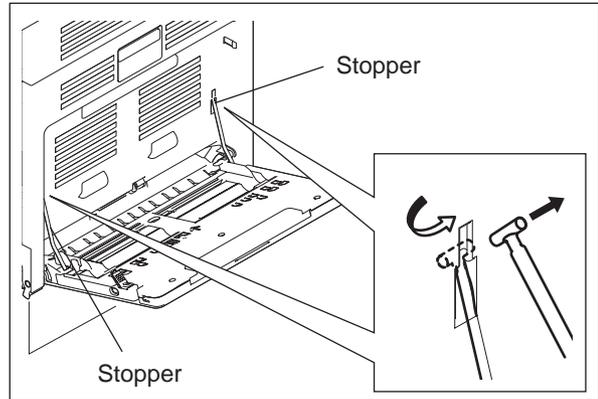
Fig. 4-193

(3) Remove 1 screw and then take off the link arm.
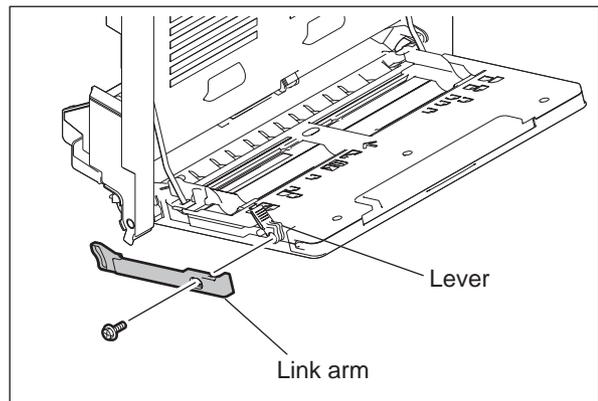
Fig. 4-194

(4) Remove 1 screw and then take off the harness cover.

Fig. 4-195

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
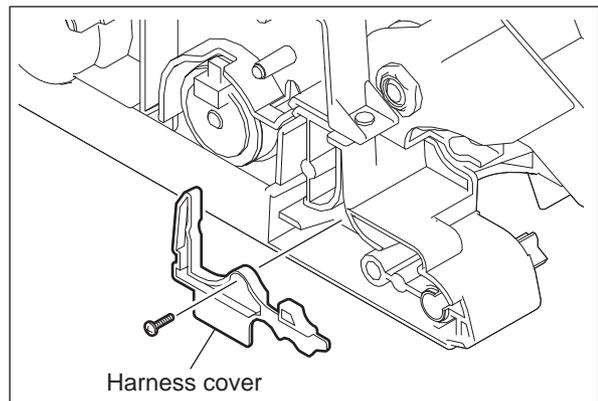
(5) Disconnect 1 connector and then take off the bypass tray downward obliquely.
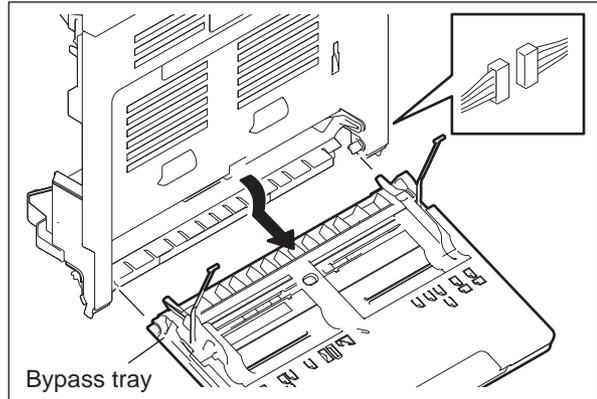
Fig. 4-196

4.9.11 Paper width detection PC board (SFB)

(1) Take off the bypass tray.
(📖 P. 4-69 "4.9.10 Bypass tray").
(2) Remove 3 screws and take off the bypass tray upper cover.
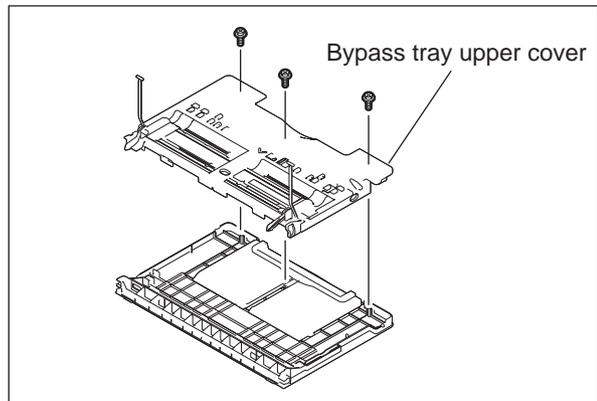
Fig. 4-197

(3) Remove 1 screw and then take off the sensor cover by releasing 3 hooks.
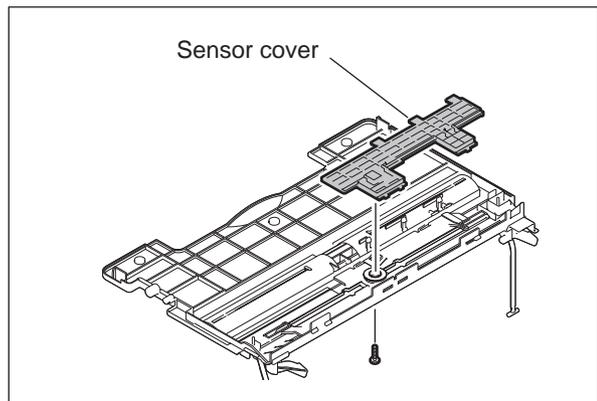
Fig. 4-198

(4) Disconnect 1 connector and then take off the paper width detection PC board.

Paper size detection board
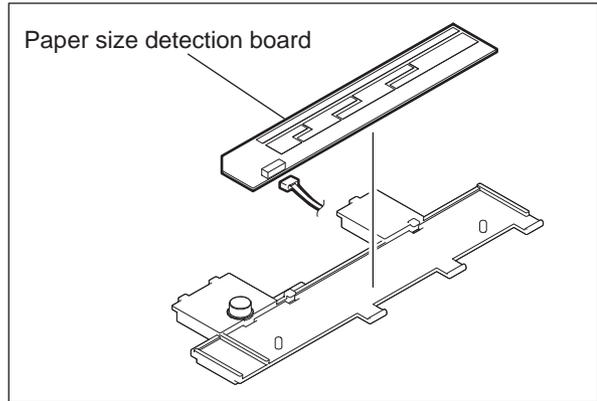
Fig. 4-199

4.9.12 Bypass feed unit

(1) Take off the automatic duplexing unit.
📖 P. 4-134 "4.15.1 Automatic Duplexing Unit (ADU)"
(2) Release 2 latches and then take off the spring holder.

Spring holder
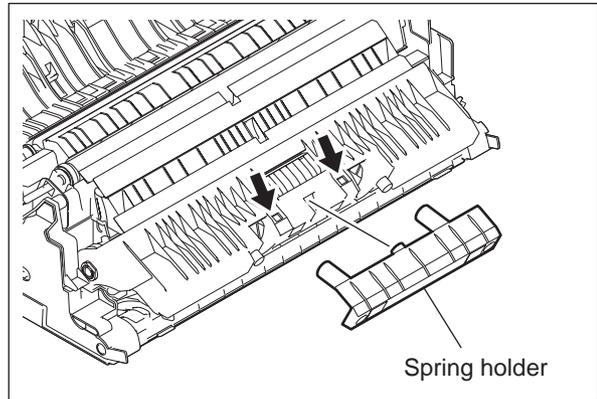
Fig. 4-200

(3) Disconnect 1 connector and remove 2 screws. Then take off the bypass feed unit.

Bypass feed unit

Fig. 4-201

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
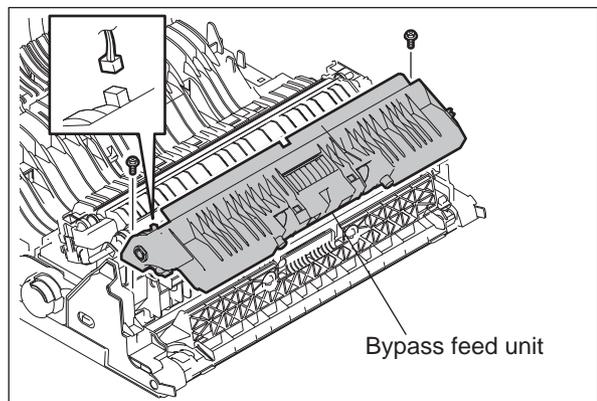
4.9.13 Bypass separation pad 🔳

(1) Take off the bypass feed unit
(📖 P. 4-71 "4.9.12 Bypass feed unit").
(2) Remove 1 clip and then slide the bypass
feed roller.
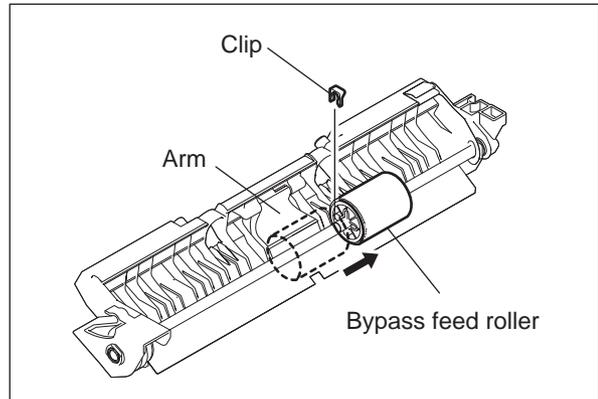
Fig. 4-202

(3) Take off the bypass separation pad (arm).
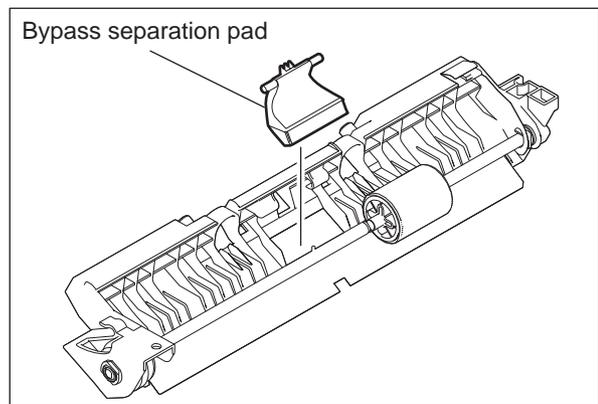
Fig. 4-203

4.9.14 Bypass feed roller 🔳/Bypass feed clutch (CLT3)

(1) Take off the bypass feed unit
(📖 P. 4-71 "4.9.12 Bypass feed unit").
(2) Remove 1 clip.
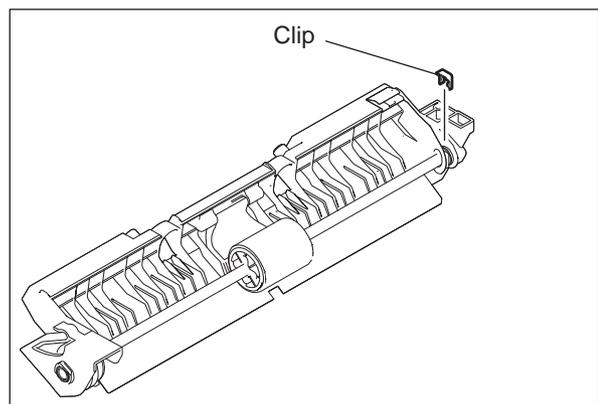
Fig. 4-204

(3) Take off the shaft by sliding it.

Notes:

When installing the bypass feed clutch, be sure that the rotation stopper is inserted in the hole of the guide securely.
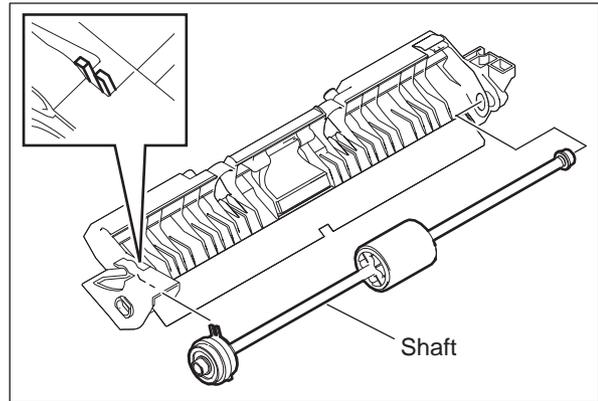
Fig. 4-205

(4) Remove 1 clip and 2 bushings. Then take off the bypass feed roller and the bypass feed clutch.
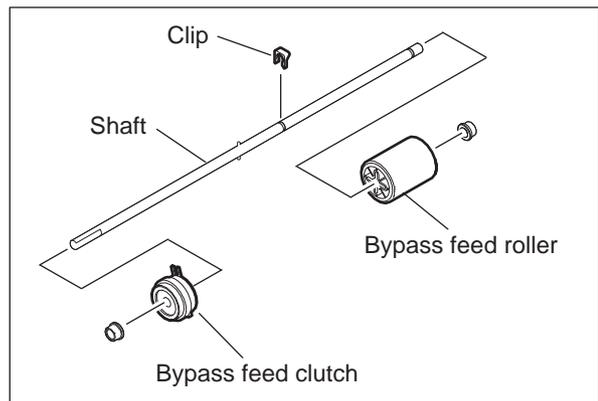
Fig. 4-206

4.9.15 Bypass paper sensor (S12)

(1) Take off the bypass feed unit
(P. 4-71 "4.9.12 Bypass feed unit").
(2) Disconnect 1 connector and then take off the bypass paper sensor by releasing 3 latches.
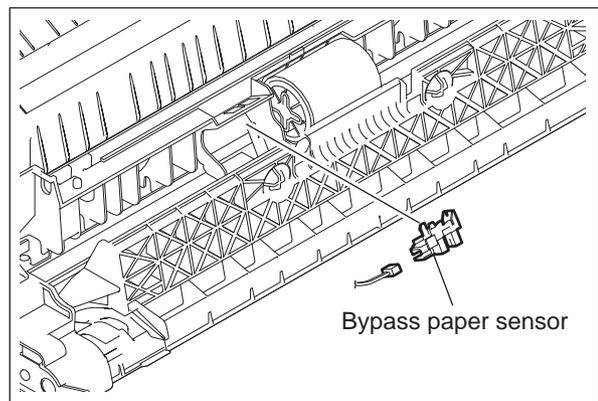
Fig. 4-207

4.9.16 Registration guide

(1) Take off the process unit.
 (📖 P. 4-88 "4.11.1 Process unit").
(2) Take off the automatic duplexing unit.
 📖 P. 4-134 "4.15.1 Automatic Duplexing Unit (ADU)"
(3) Remove 1 screw and then take off the registration guide by sliding it.

 Notes:
 When installing the registration guide, be sure that the 2 films are attached at the positions shown in the figure.
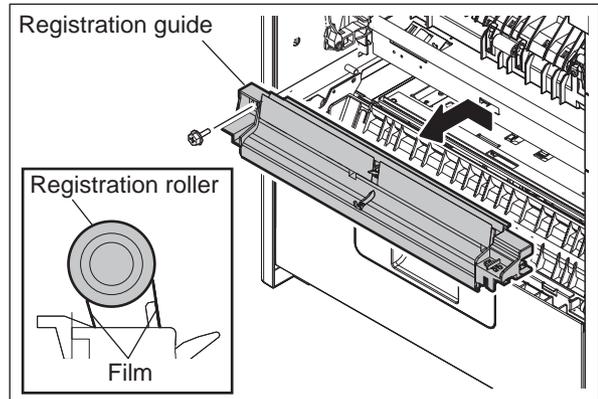
Fig. 4-208

(4) Disconnect 2 connectors.
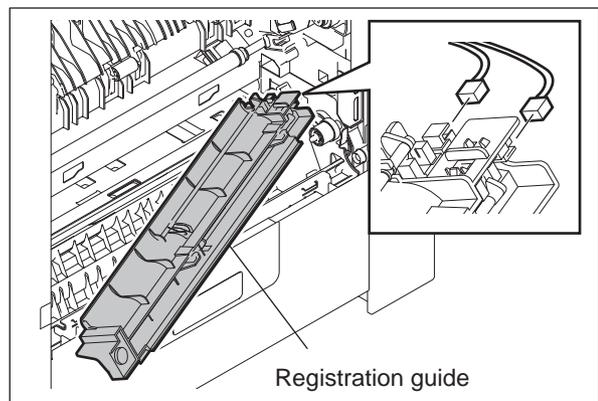
Fig. 4-209

4.9.17 Registration sensor (S22)

(1) Take off the registration guide.
 (📖 P. 4-74 "4.9.16 Registration guide").
(2) Take off the actuator.
(3) Release 3 latches and then take off the registration sensor.
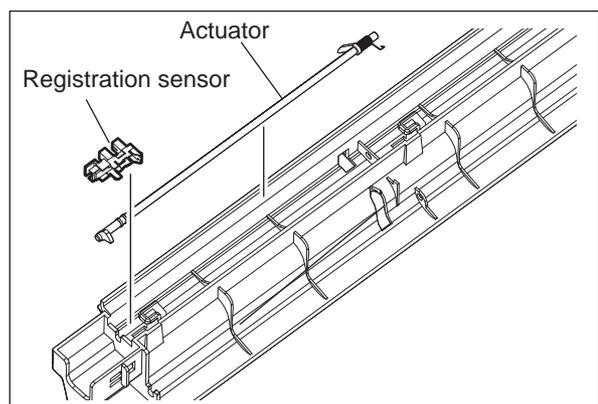
Fig. 4-210

4.9.18   1st transport sensor (S21))

(1) Take off the registration guide.
     (📖 P. 4-74 "4.9.16 Registration guide").
(2) Take off the actuator.
(3) Release 3 latches and then take off the 1st
     transport sensor.

1st transport sensor

Actuator
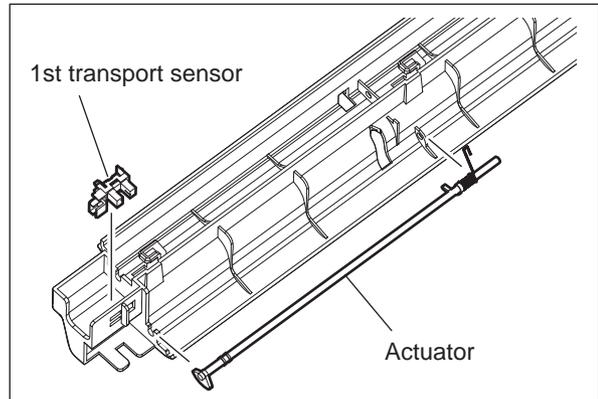
Fig. 4-211

4.9.19   Feed cover

(1) Open the feed cover and then pull out the
     locking pin.

Locking pin
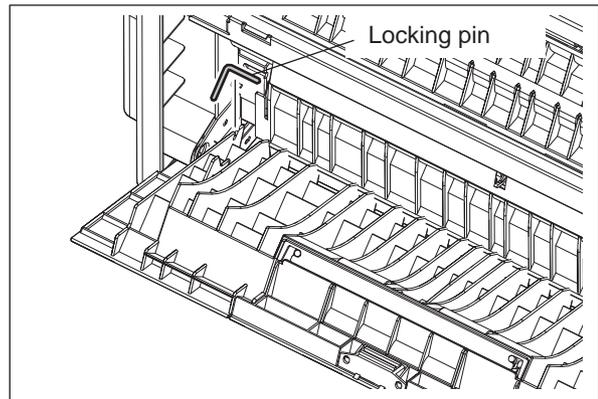
Fig. 4-212

(2) Take off the feed cover by sliding it.

Feed cover

Fig. 4-213

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT

4
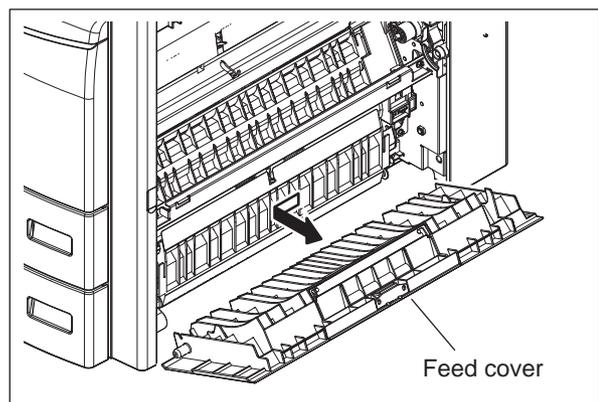
4.9.20 Transport roller

(1) Take off the right front cover.
 📖 P. 4-7 "4.1.14 Right front cover"
(2) Take off the high-speed clutch.
 (📖 P. 4-80 "4.9.28 Hi-speed clutch (CLT6) /
 Low-speed clutch(CLT7)").
(3) Take off the feed cover.
 (📖 P. 4-75 "4.9.19 Feed cover").
(4) Remove 2 screws and then take off the stay.
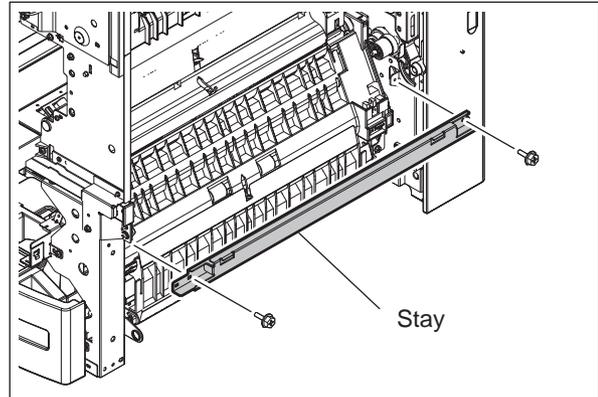
Fig. 4-214

(5) Remove 1 screw and then slide the paper
 guide B to the rear side.
(6) Disconnect 2 connectors and then take off
 the paper guide B.
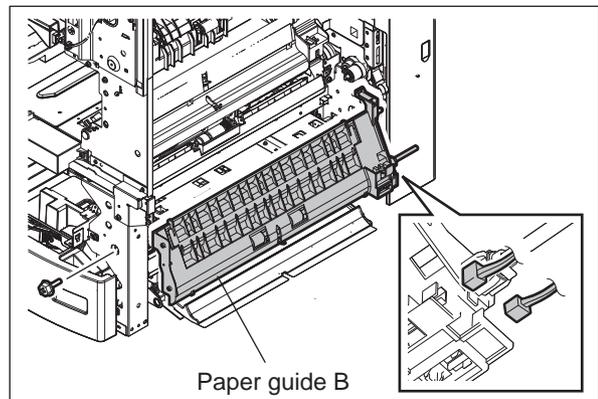
Fig. 4-215

(7) Remove 2 screws and take off the holder.
(8) Remove 1 clip, 1 E-ring, and then take off the
 transport roller.
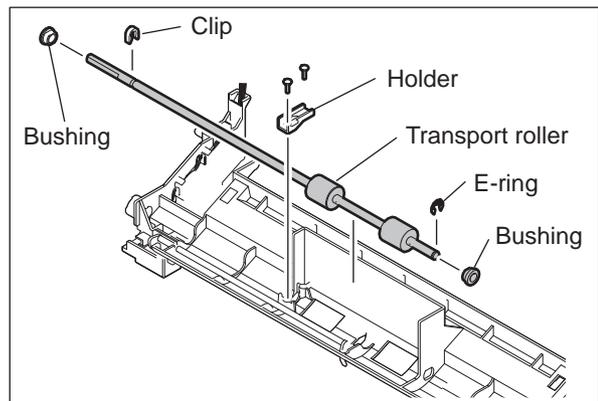
Fig. 4-216

4.9.21 2nd transport sensor (S14)

(1) Take off the transport roller.
(📖 P. 4-76 "4.9.20 Transport roller").
(2) Take off the actuator.
(3) Release 3 latches and then take off the 2nd transport sensor.

Actuator

2nd transport sensor
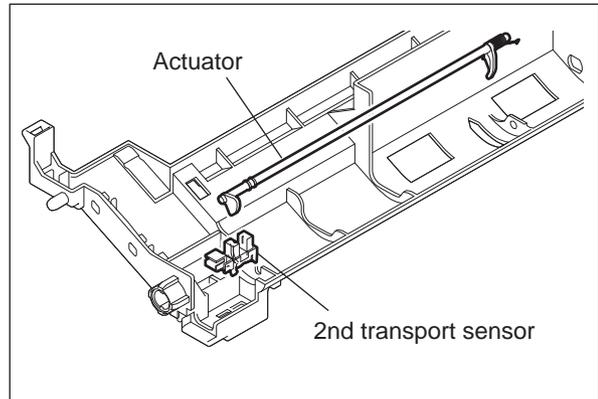
Fig. 4-217

4.9.22 Feed cover opening/closing detection sensor (S13)

(1) Take off the transport roller.
(📖 P. 4-76 "4.9.20 Transport roller").
(2) Release 3 latches and then take off the feed cover opening/closing sensor.

Feed cover sensor
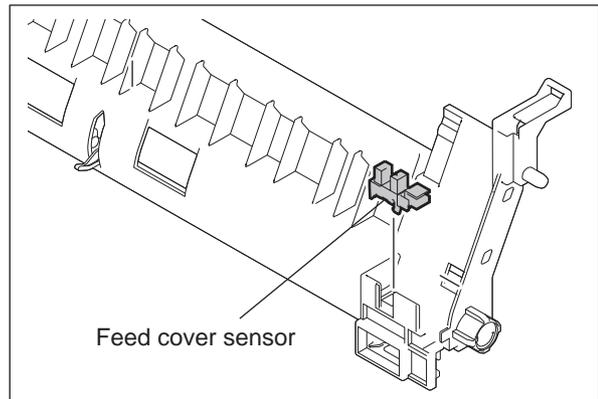
Fig. 4-218

4.9.23 Flywheel (e-STUDIO206L/256/306 / 207L/257/307)

(1) Take off the rear cover.
📖 P. 4-3 "4.1.6 Rear cover"
(2) Remove 1 screw and then remove 2 flywheels.
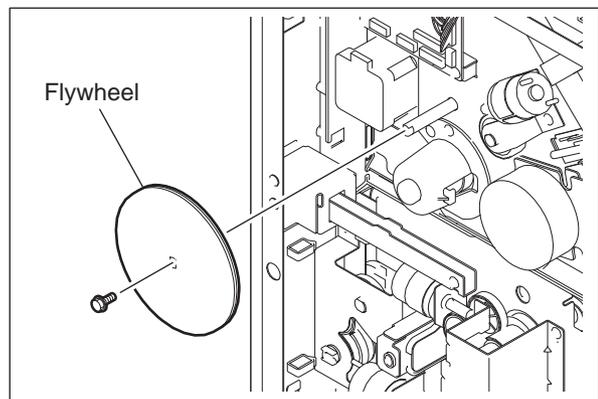
Flywheel

Fig. 4-219

4.9.24 Flywheel (e-STUDIO356/456/506 / 357/457/507)

(1) Take off the rear cover.
    📖 P. 4-3 "4.1.6 Rear cover"
(2) Remove 1 screw and then remove 4 flywheels.
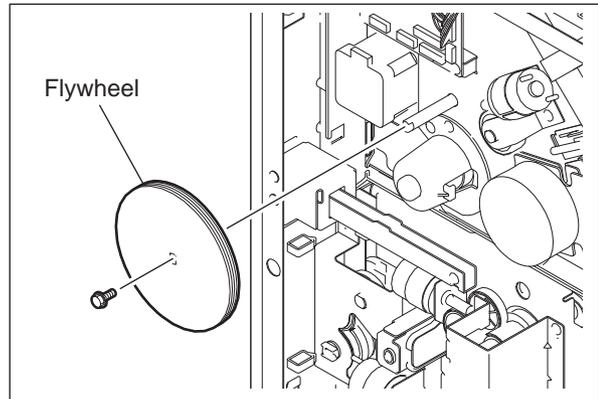
Flywheel

Fig. 4-220

4.9.25 Registration roller clutch (CLT2)

(1) Take off the flywheel.
    📖 P. 4-78 "4.9.24 Flywheel (e-STUDIO356/456/506 / 357/457/507)"
(2) Remove 2 screws and then take off the clutch cover.

Notes:
    Match the rotation stopper of the clutch with the position shown in the figure for assembling.
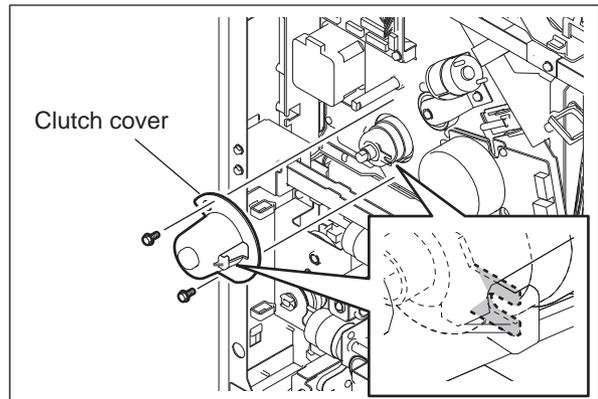
Clutch cover

Fig. 4-221

(3) Disconnect 1 connector and then take off the registration roller clutch.

Registration roller clutch
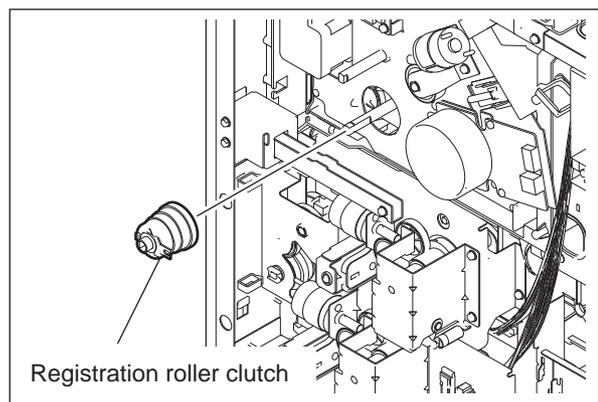
Fig. 4-222

4.9.26 Upper tray-up motor (M11)

(1) Pull out the upper drawer.
(2) Take off the rear cover.
     📖 P. 4-3 "4.1.6 Rear cover"
(3) Disconnect 1 connector and take off the harness clamp from the bracket.
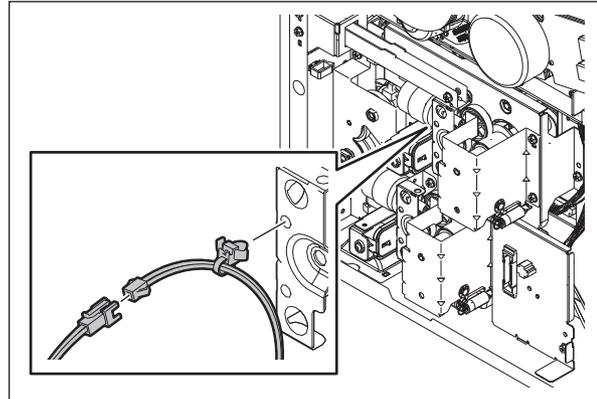
Fig. 4-223

(4) Remove 2 screws and take off the upper tray-up motor along with the bracket.
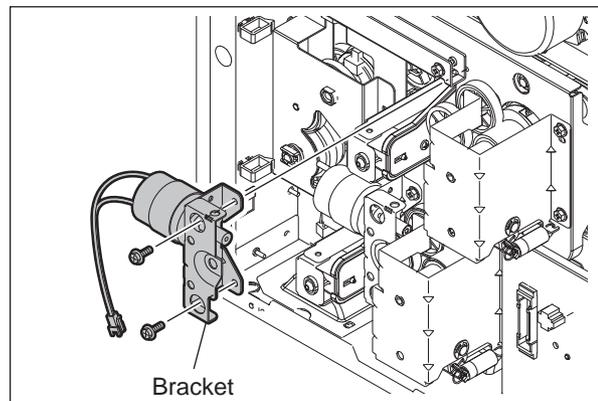
Bracket

Fig. 4-224

(5) Remove 2 screws and take off the upper tray-up motor from the bracket.

   Notes:
     Pay attention to the size (length) of the screws. If incorrect ones are used, the motor could be damaged.

Upper drawer tray-up motor

Fig. 4-225

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
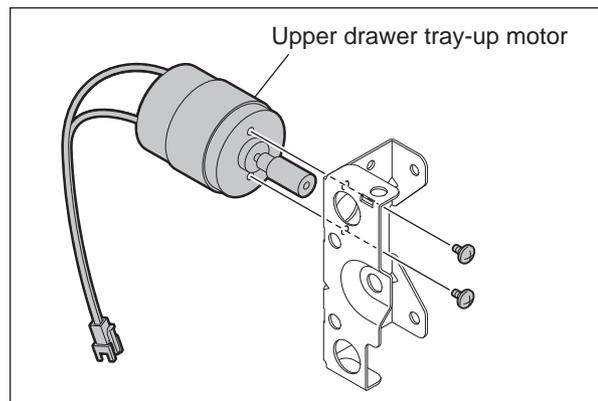
4.9.27 Upper drawer detection switch (SW6)

(1) Pull out the upper drawer.
(2) Take off the rear cover.
    📖 P. 4-3 "4.1.6 Rear cover"
(3) Disconnect 1 connector and then take off the upper drawer detection switch.

Upper drawer detection switch
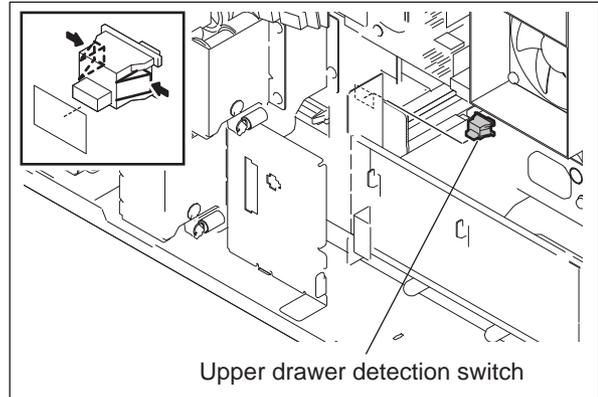
Fig. 4-226

4.9.28 Hi-speed clutch (CLT6) / Low-speed clutch(CLT7)

(1) Take off the rear cover.
    📖 P. 4-3 "4.1.6 Rear cover"
(2) Remove 1 clip and then take off the bushing.

Bushing

Clip
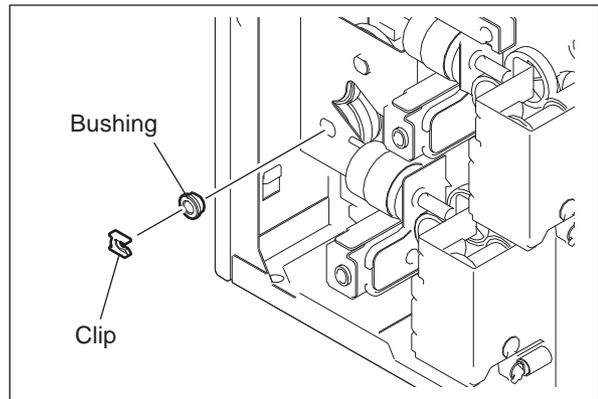
Fig. 4-227

(3) Remove 3 screws and then take off the bracket.

Bracket
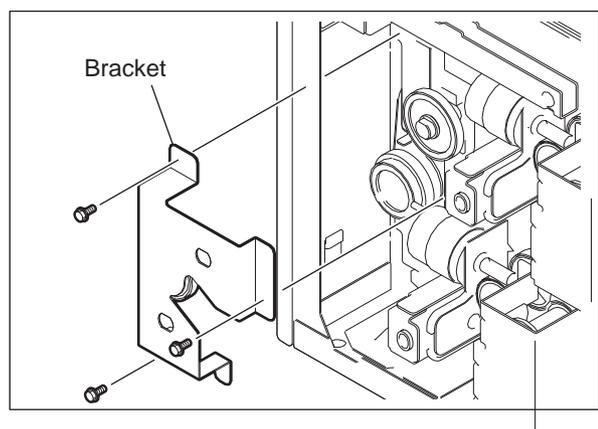
Fig. 4-228

(4) Disconnect 1 connector and then take off the low-speed clutch.

Notes:

Match the rotation stopper of the clutch with the position shown in the figure for assembling.
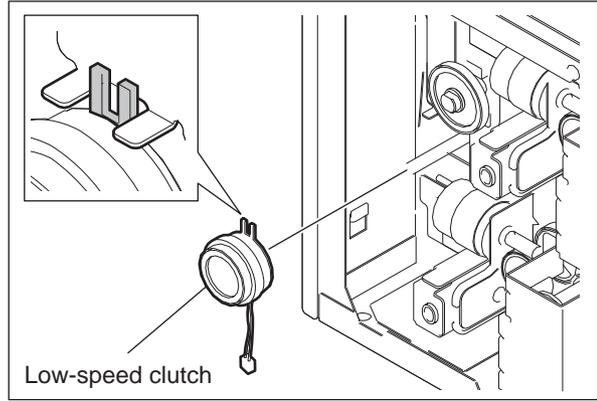
Low-speed clutch

Fig. 4-229

(5) Remove 1 bushing and gear.
(6) Disconnect 1 connector and then take off the Hi-speed clutch.

Notes:

Match the rotation stopper of the clutch with the position shown in the figure for assembling.

Hi-speed clutch

Gear

Bushnig
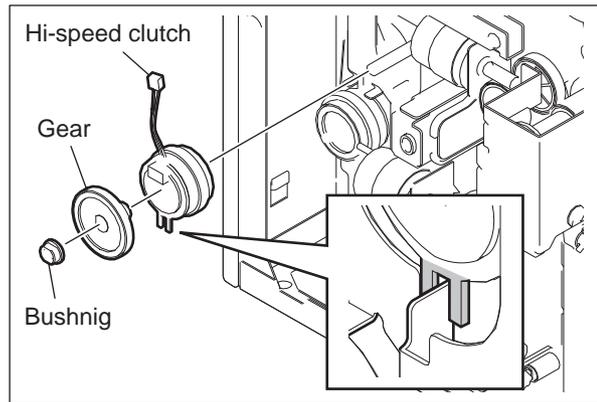
Fig. 4-230

4.9.29 Lower drawer detection switch (SW7)

(1) Pull out the lower drawer.
(2) Take off the rear cover.
    📖 P. 4-3 "4.1.6 Rear cover"
(3) Remove 2 screws and then take off the bracket.

Bracket
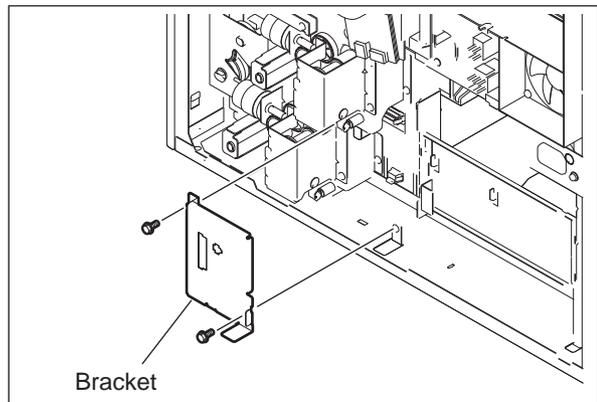
Fig. 4-231

(4) Disconnect 1 connector and then take off the lower drawer detection switch.

Lower drawer detection switch
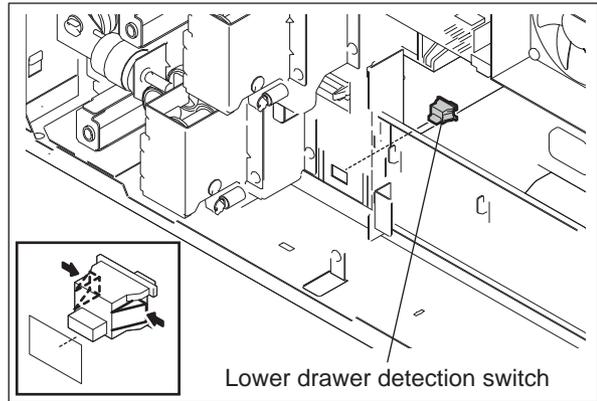
Fig. 4-232

4.9.30 Lower tray-up motor (M12)

(1) Pull out the lower drawer.
(2) Take off the rear cover.
   📖 P. 4-3 "4.1.6 Rear cover"
(3) Disconnect 1 connector and take off the harness clamp from the bracket.
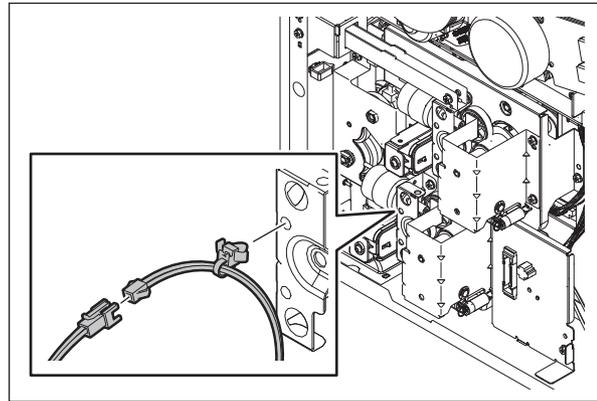
Fig. 4-233

(4) Remove 2 screws and take off the lower tray-up motor along with the bracket.
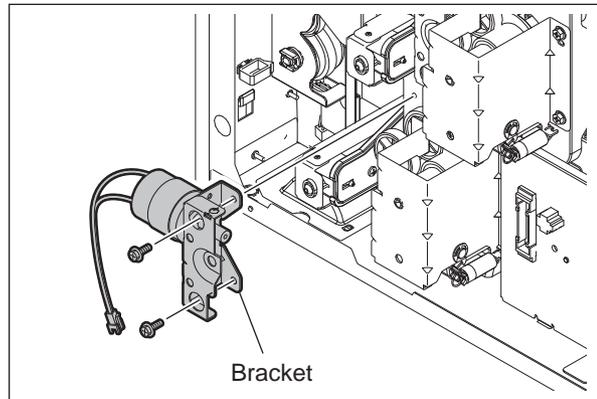
Bracket

Fig. 4-234

(5) Remove 2 screws and take off the lower tray-up motor from the bracket.

Notes:
Pay attention to the size (length) of the screws. If incorrect ones are used, the motor could be damaged.

Lower drawer tray-up motor
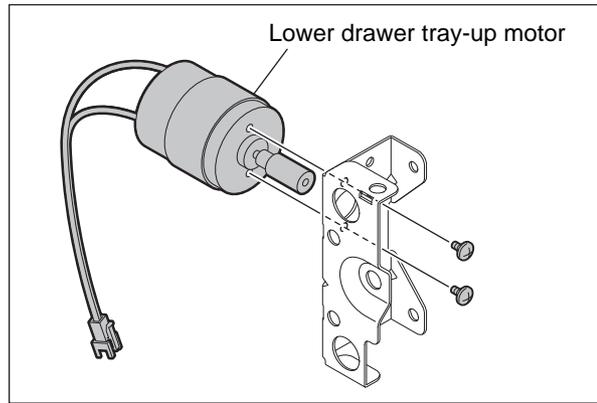
Fig. 4-235

4.9.31 Registration roller (rubber)

(1) Take off the transfer unit
📖 P. 4-99 "4.11.17 Transfer unit"
(2) Remove 1 screw and then take off the bracket while holding the registration roller.

Bracket
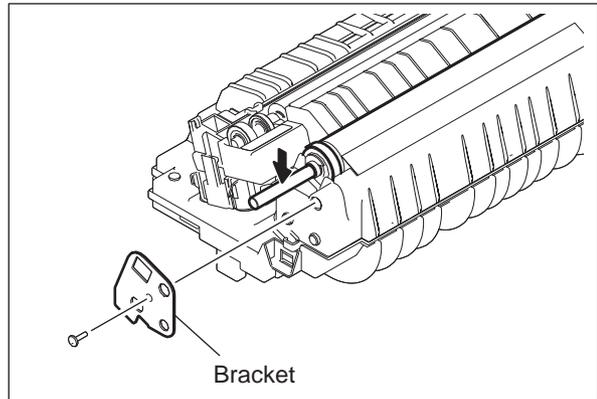
Fig. 4-236

(3) Lift up the rear side of the registration roller and then pull out the roller to the rear side.

Registration roller (rubber)

Fig. 4-237

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
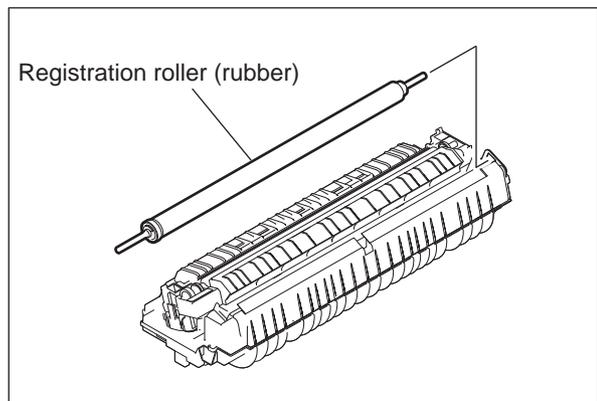
(4) Take off 2 guide rollers. Then remove 1 E-ring and 1 gear.
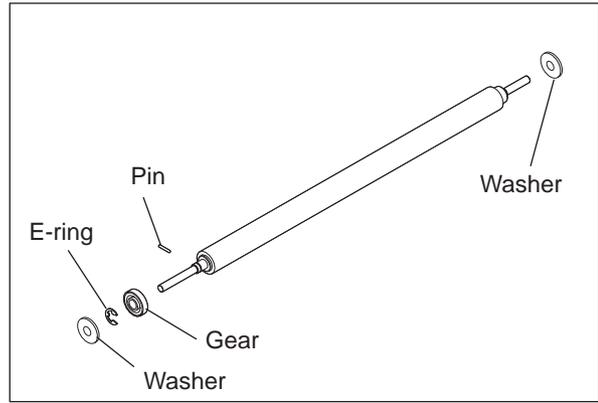
Fig. 4-238

4.9.32 Registration roller (metal)

(1) Take off the process unit
　📖 P. 4-88 "4.11.1 Process unit"
(2) Take off the automatic duplexing unit.
　📖 P. 4-134 "4.15.1 Automatic Duplexing Unit (ADU)"
(3) Take off the registration roller clutch.
　📖 P. 4-78 "4.9.25 Registration roller clutch (CLT2)"
(4) Remove 1 clip on the rear side.
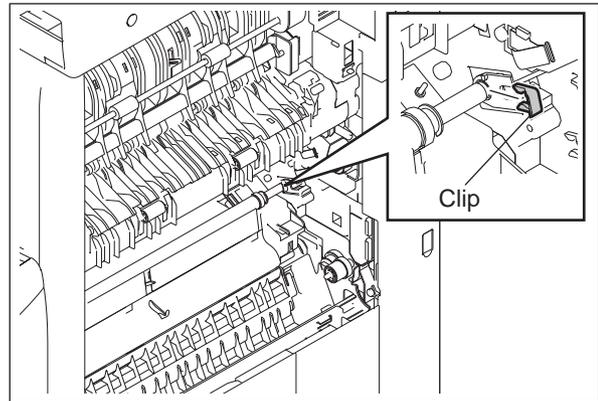
Fig. 4-239

(5) Take off the registration roller (metal) by sliding it to the rear side and pulling it out toward you.
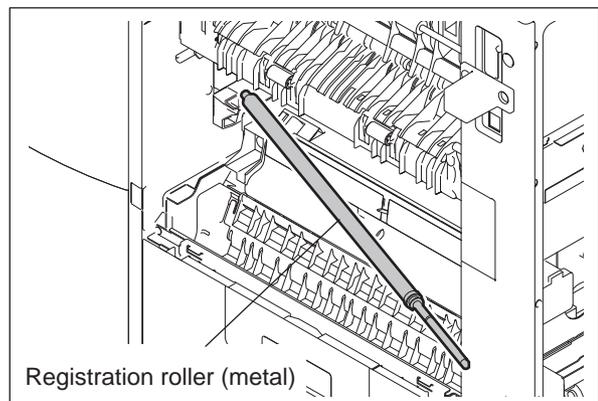
Fig. 4-240

4.10 DRIVE SYSTEM

4.10.1 Main motor (M8)

(1) Take off the flywheel.
   📖 P. 4-78 "4.9.24 Flywheel (e-STUDIO356/
   456/506 / 357/457/507)"
(2) Disconnect 2 connectors (1 with a lock).
   Remove 2 screws and then take off the main
   motor.
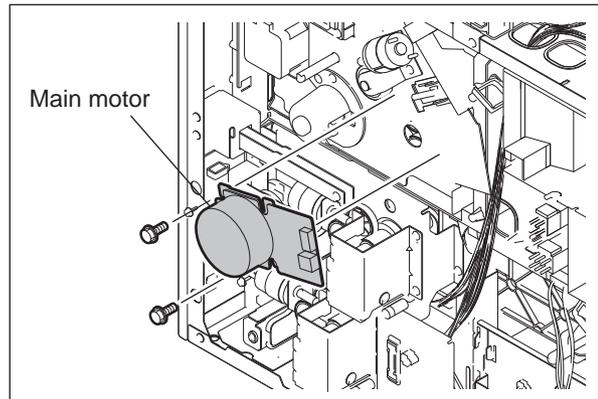
Fig. 4-241

4.10.2 Toner motor (M4)

(1) Take off the rear cover.
   📖 P. 4-3 "4.1.6 Rear cover"
(2) Disconnect 1 connector.
(3) Remove 1 screw and then take off the toner
   motor together with its bracket.

Notes:

   Be sure not to drop the gear and bushing.
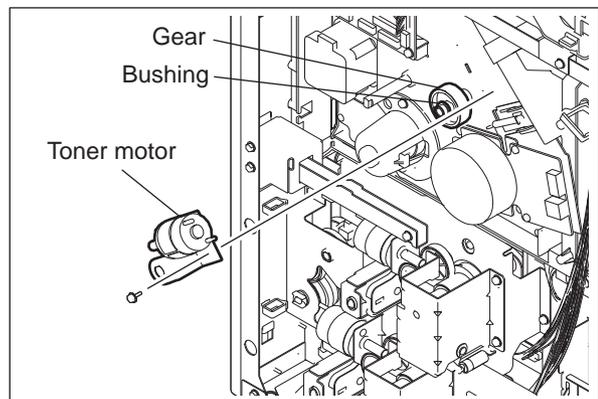
Fig. 4-242

(4) Remove 2 screws, and take off the toner
   motor.

Notes:

   Pay attention to the size (length) of the
   screws. If incorrect ones are used, the motor
   could be damaged.
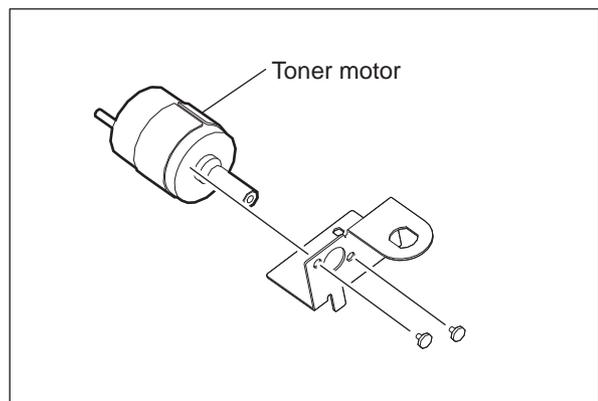
Fig. 4-243

4.10.3 Main motor drive unit

(1) Take off the toner motor
   📖 P. 4-85 "4.10.2 Toner motor (M4)"
(2) Take off the registration roller clutch.
   📖 P. 4-78 "4.9.25 Registration roller clutch (CLT2)"
(3) Disconnect 9 connectors. (e-STUDIO206L/ 256/306 / 207L/257/307: 4 connectors.)
(4) Disconnect 2 connectors of the main motor.

e-STUDIO206L/256/306 / 207L/257/307

e-STUDIO356/456/506 / 357/457/507

Connector
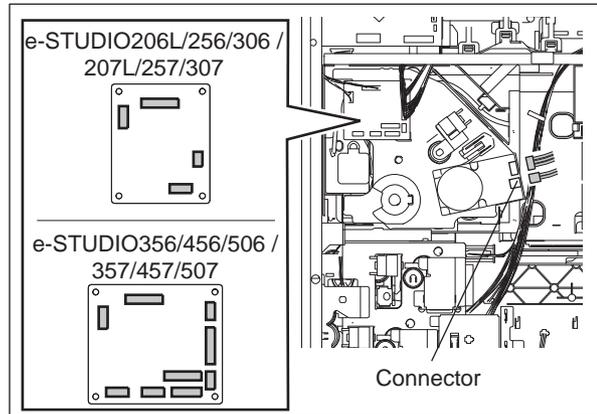
Fig. 4-244

(5) Remove 4 screws and then take off the main motor drive unit [1].

Notes:

When the bracket in the main motor drive unit [1] is assembled, adjust the tension following the procedure below.

1. Take off the rear cover.
2. Remove the spring from the ADU motor unit.
   📖 P. 4-137 "4.15.4 ADU motor (M5)"
3. Loosen 1 screw of the bracket in the main motor drive unit.
4. Hook the spring removed in step 2 on the plate and bracket.
5. After the tension roller is pulled by the spring, tighten the screw at the stopped position.
6. Close the rear cover.

[1]
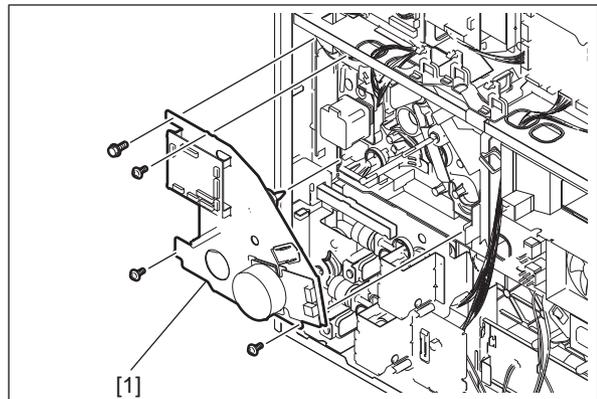
Fig. 4-245

4.10.4 Process unit fan (M2)<e-STUDIO206L/256/306/356/456/506>

(1) Take off the duct.
   📖 P. 4-58 "4.7.1 Laser optical unit"
(2) Take off the process unit fan from the duct.

Process unit fan

Duct
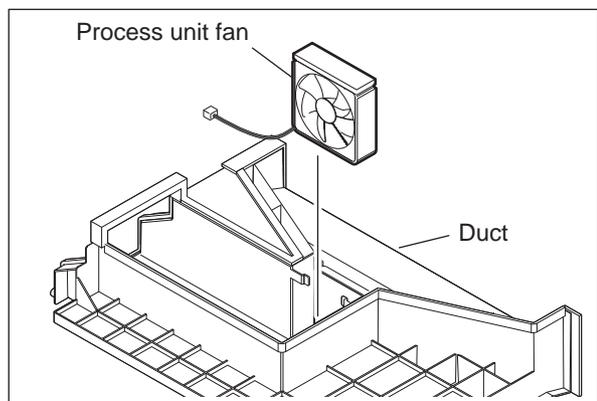
Fig. 4-246

4.10.5 Process unit fan (M2) <e-STUDIO207L/257/307/357/457/507>

(1) Take off the inner tray.
   📖 P. 4-13 "4.2.10 Inner tray"
(2) Disconnect 1 connector [1] of the process
   unit fan. Take off the process unit fan [2]
   toward the upper side.
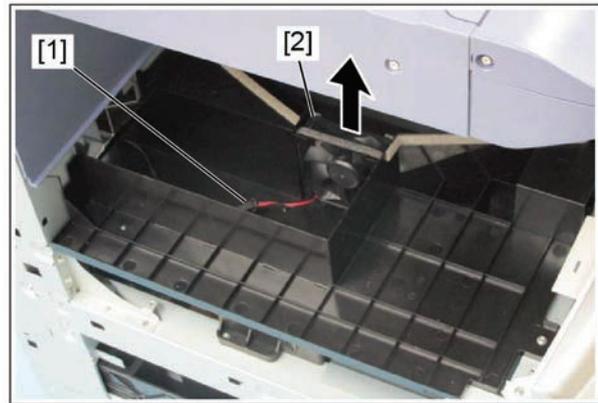
Fig. 4-247

 Notes:
   When installing the process unit fan [2],
   make sure that its harness is placed as
   shown in the photo [3] (rear lower side).

Fig. 4-248

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
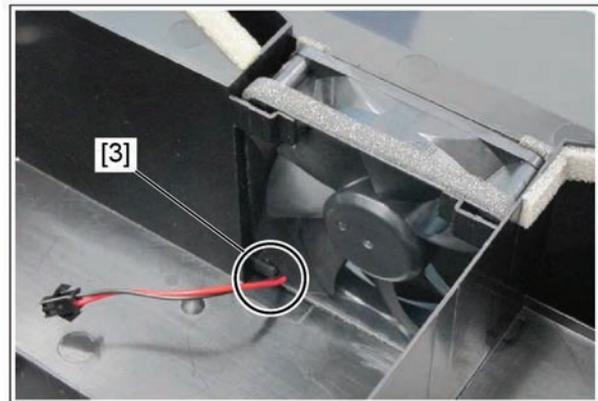
4.11 DRUM RELATED SECTION

4.11.1 Process unit

(1) Open the automatic duplexing unit.
(2) Open the front cover and take off the toner cartridge.
(3) Loosen 2 screws and pull out the process unit.
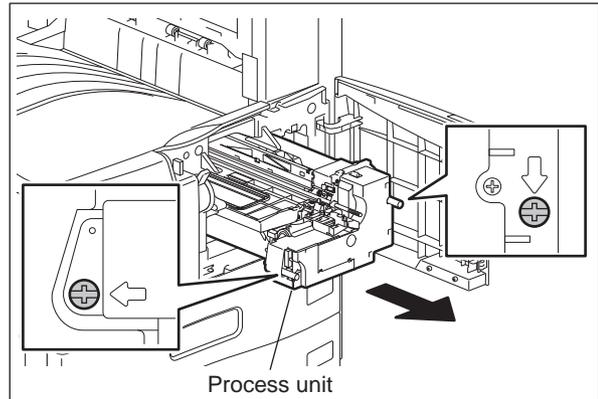
Process unit

Fig. 4-249

4.11.2 Drum cleaner unit

(1) Take off the process unit
(📖 P. 4-88 "4.11.1 Process unit").
(2) Release 1 latch. Then pull out the harness cover and take it off.
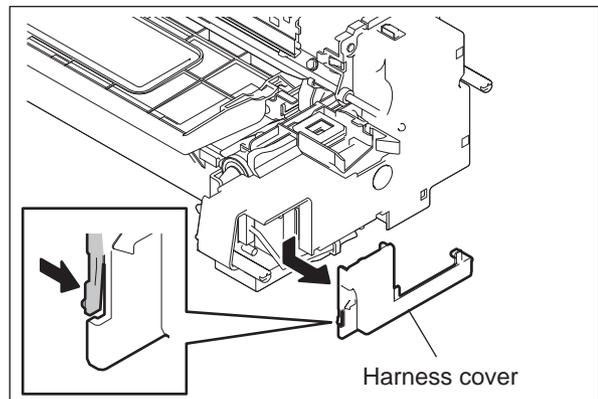
Harness cover

Fig. 4-250

(3) Disconnect 3 connectors.

Connector

Connector

Connector
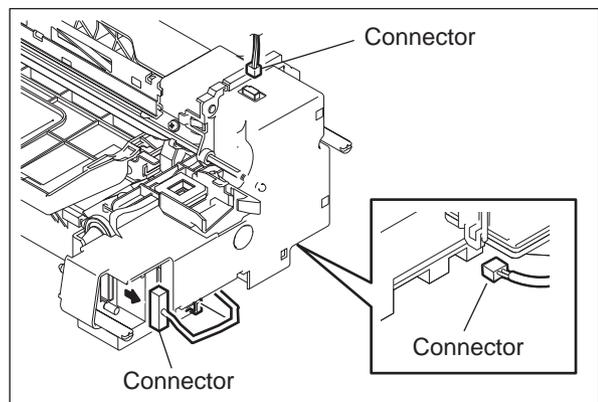
Fig. 4-251

(4) Remove 2 screws. Then take off the process unit front cover
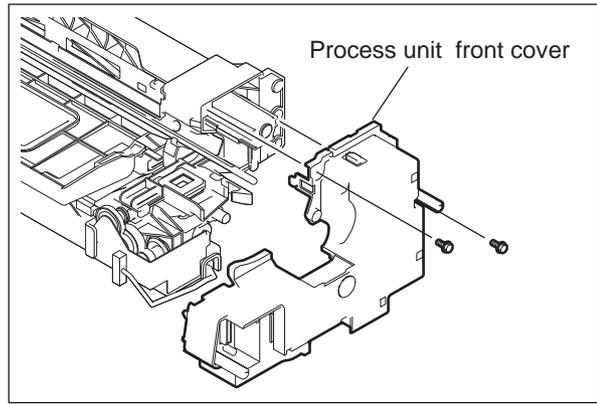
Fig. 4-252

Notes:

When installing the process unit front cover, wire the harness correctly in order not to contact the gears and harness of the process unit front cover each other.

Harness

Process unit front cover

Fig. 4-253

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
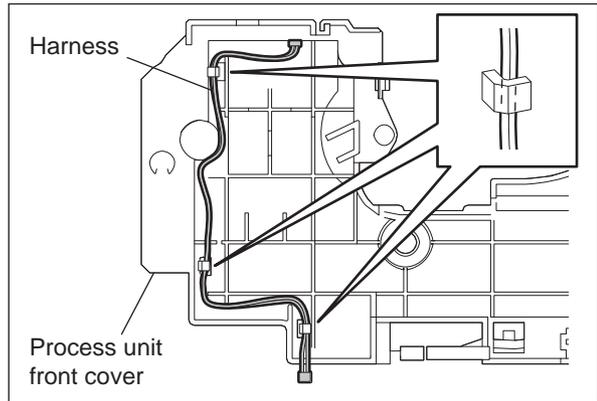
(5)   Lift up the drum cleaner unit and take it off.

  Notes:
  1. Be careful not to touch or scratch the drum surface at this time.
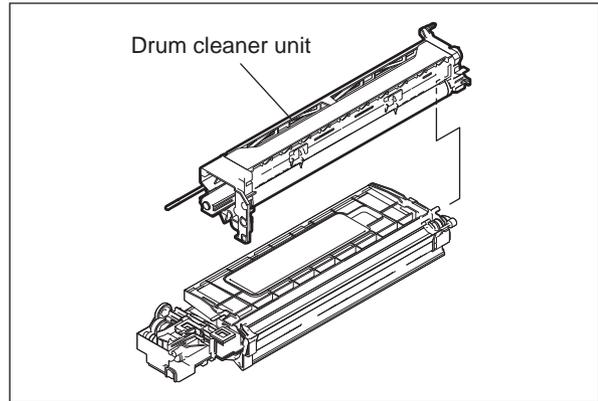
Fig. 4-254

2. Do not deform the Guide film by touching this.

Guide film
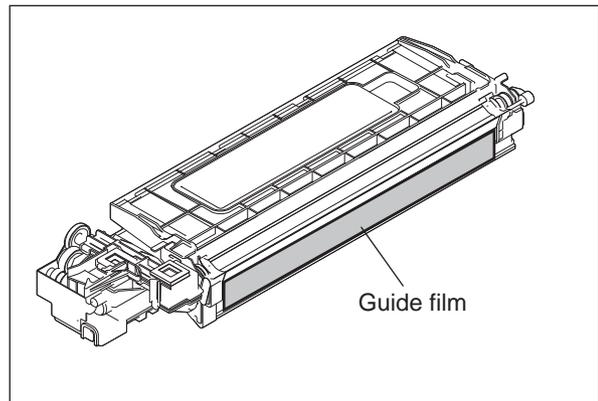
Fig. 4-255

4.11.3   Discharge LED

(1)   Take off the drum cleaner unit
      (📖 P. 4-88 "4.11.2 Drum cleaner unit").
(2)   Release 1 latch and take off the discharge LED unit.

  Notes:
      Be careful not to touch or scratch the drum surface at this time.

Discharge LED unit   Latch
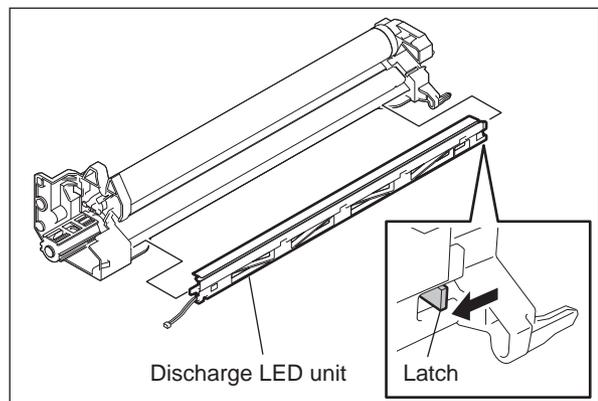
Fig. 4-256

(3) Release the harness from the harness clamp and pull out the discharge LED.
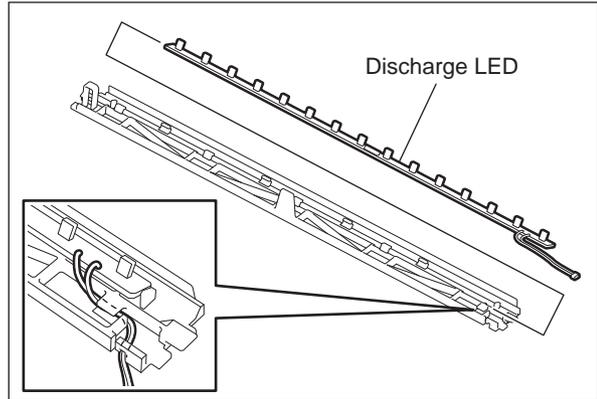
Discharge LED

Fig. 4-257

Notes:

The number of the discharge LEDs for the e-STUDIO206L/256/306 / 207L/257/307 differs from that for the e-STUDIO356/456/506 / 357/457/507, therefore do not install the LEDs in a wrong model.

e-STUDIO206L/256/306 /207L/257/307

e-STUDIO356/456/506 / 357/457/507
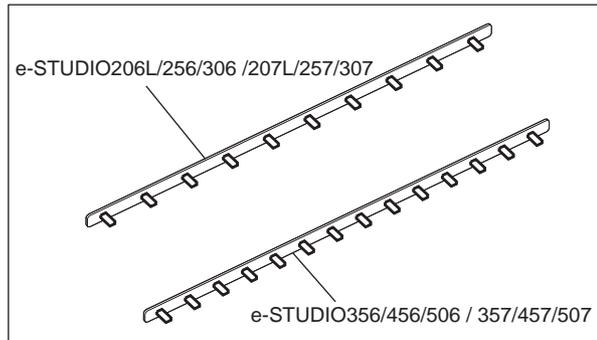
Fig. 4-258

4.11.4 Main charger

(1) Take off the discharge LED unit (📖 P. 4-90 "4.11.3 Discharge LED").
(2) Pull out the main charger and take it off by sliding it to the rear side.

Notes:

Be careful not to touch or scratch the drum surface at this time.
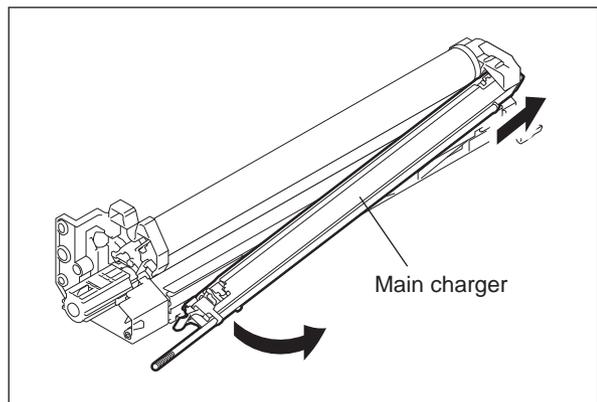
Main charger

Fig. 4-259

4.11.5 Main charger grid 🔲

(1) Take off the main charger
    (📖 P. 4-91 "4.11.4 Main charger").
(2) Remove the spring and take off the main charger grid.

   Notes:
   Do not touch the mesh area of the grid.

Main charger grid

Spring
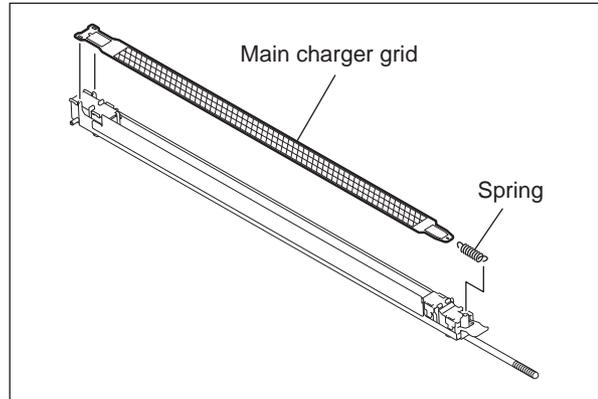
Fig. 4-260

4.11.6 Main charger cleaner

(1) Take off the main charger
    (📖 P. 4-91 "4.11.4 Main charger").
(2) Release the hook of the cleaning shaft. Then rotate the shaft at 90 degrees to take it off.

Main charger cleaner
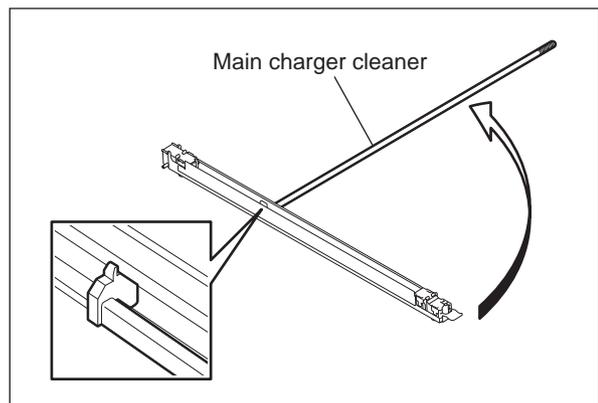
Fig. 4-261

4.11.7 Needle electrode 🔲

(1) Take off the main charger grid and main charger cleaner.
    📖 P. 4-92 "4.11.5 Main charger grid"
    📖 P. 4-92 "4.11.6 Main charger cleaner"
(2) Take off the terminal covers of both front and rear sides.

Terminal cover
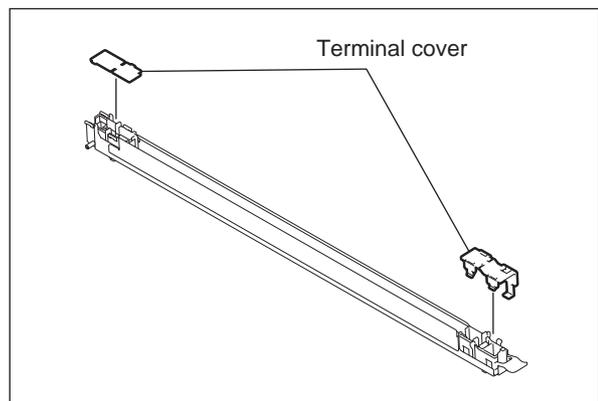
Fig. 4-262

(3) Remove the terminal and spring. Then take off the needle electrode.

Notes:
1. Do not touch the needle electrode directly with bare hands.
2. Make sure not to hold or bend the needle electrode.
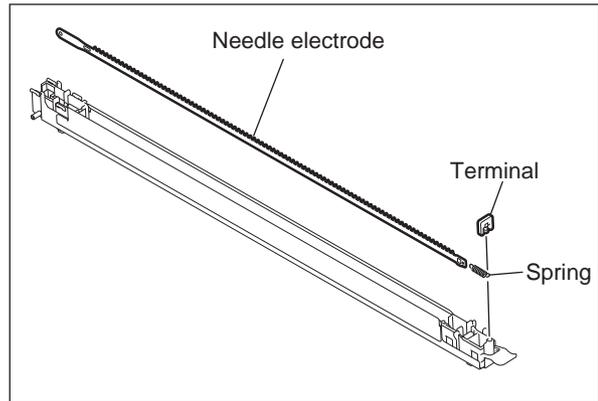
Fig. 4-263

3. The form of the needle electrode differs depending on the model as shown in the figure.
   Do not mix them when installing.
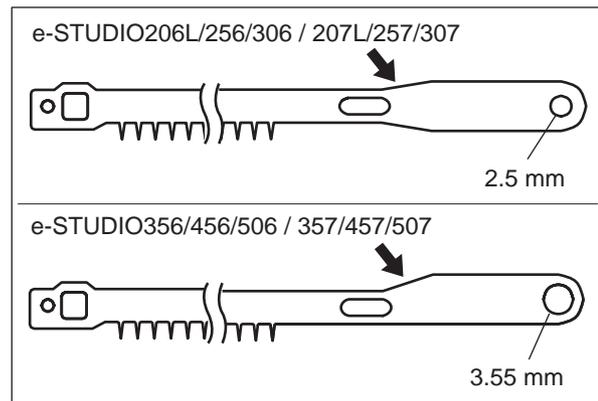
Fig. 4-264

4.11.8 Drum 🅟🅜

(1) Take off the main charger
   (📖 P. 4-91 "4.11.4 Main charger").
(2) Rotate the lever while pushing its latch and pull it out.
(3) Take off the drum.

Notes:
1. Be careful not to touch, spit or scratch the drum surface.
2. Avoid direct light. Place the drum in a dark place immediately after taking off.
3. Be careful not to touch or scratch the edge of the cleaning blade.

Fig. 4-265

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
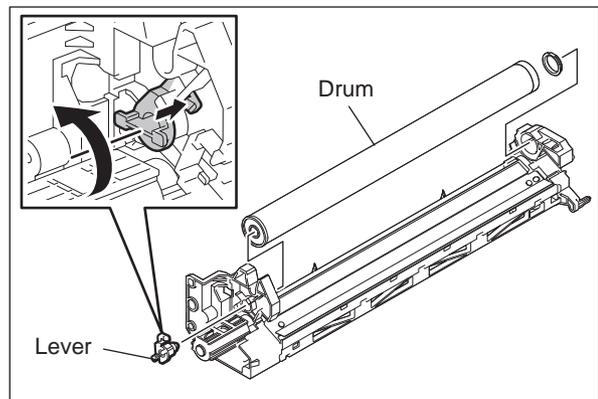
4.11.9 Drum cleaning blade 📖

(1) Take off the drum
(📖 P. 4-93 "4.11.8 Drum").
(2) Remove 2 screws and take off the drum cleaning blade.

Notes:
Be careful not to touch or scratch the edge of the drum cleaning blade.
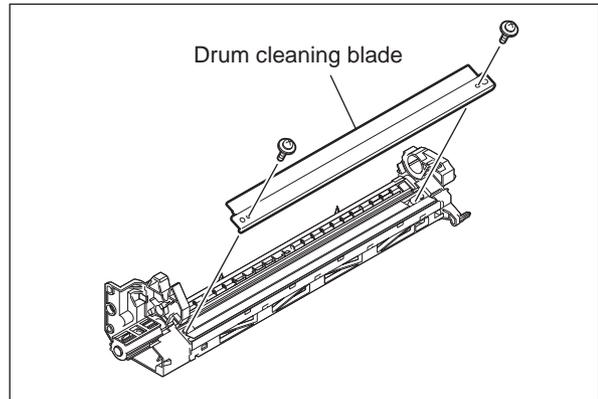
Fig. 4-266

4.11.10 Drum separation finger 📖

(1) Take off the drum
(📖 P. 4-93 "4.11.8 Drum").
(2) Remove 1 screw of each unit to take off the drum separation finger units (2 pc.).

Notes:
1. When replacing the drum separation fingers, make sure that the drum has been taken off first since the fingers may scratch the drum surface.
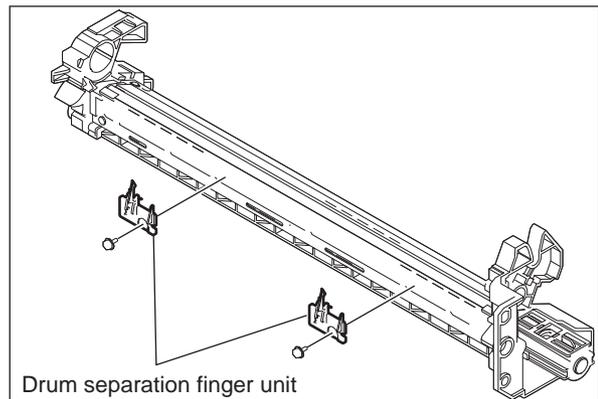
Fig. 4-267

(3) Remove the spring and take off the drum separation fingers.

Notes:
When the drum separation fingers have been replaced, check if the pressure movement is normal by moving them with your hands.
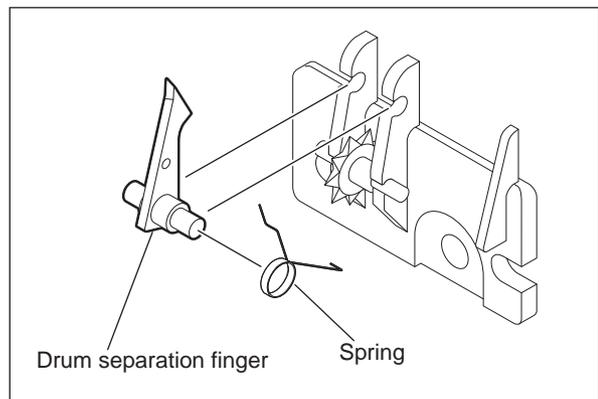
Fig. 4-268

4.11.11 Recovery blade 🔲

(1) Take off 3 drum separation finger units
(📖 P. 4-94 "4.11.10 Drum separation
finger").
(2) Remove 2 screws, and take off the whole
recovery blade with the bracket.

Recovery blade
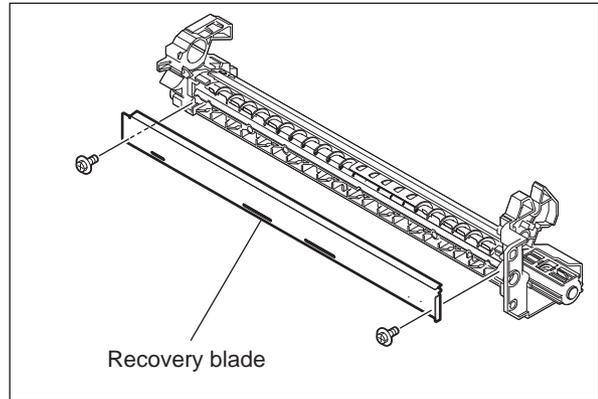
Fig. 4-269

Notes:
When cleaning the inside of the cleaner unit,
be careful of the following in order not to
damage the films attached on the toner
recovery auger:
1. Do not use an air blower for cleaning.
   (Use a vacuum cleaner.)
2. When using a vacuum cleaner, be careful
   not to hit the nozzle of the vacuum
   cleaner to the films.
3. When rotating the toner recovery auger,
   rotate it only in the same direction as that
   for transporting toner.

Toner recovery auger

Film
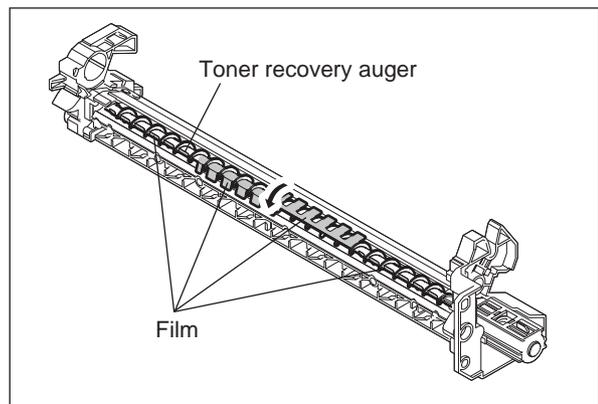
Fig. 4-270

4.11.12 Ozone filter 🔲

(1) Open the automatic duplexing unit.
(2) Lift up the transfer unit.

Transfer unit

Fig. 4-271

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
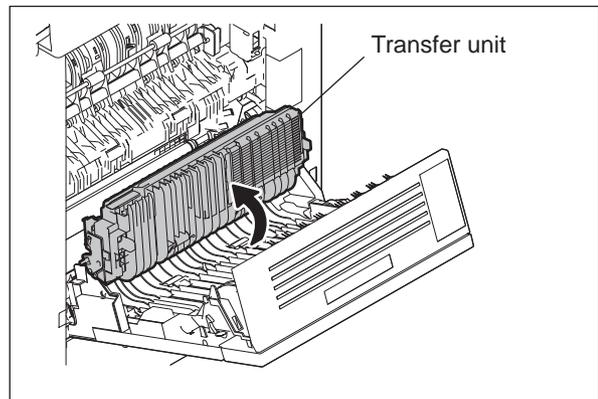
(3) Release 1 hook and then take off the filter cover.

Filter cover
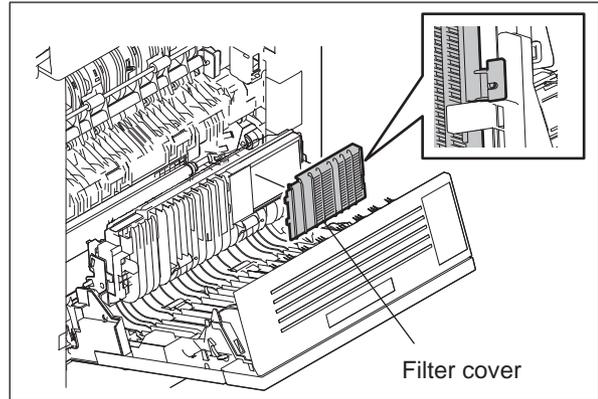
Fig. 4-272

(4) Take off the ozone filter.

Ozone filter
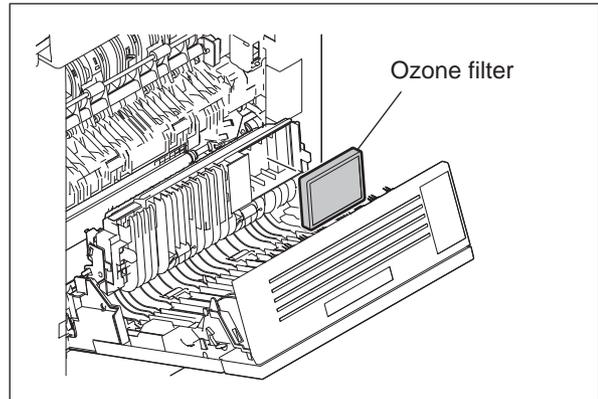
Fig. 4-273

4.11.13 TRU fan (M9)

(1) Take off the transfer unit
(📖 P. 4-99 "4.11.17 Transfer unit").
(2) Remove 1 screw and then take off the terminal on the rear side.

Terminal
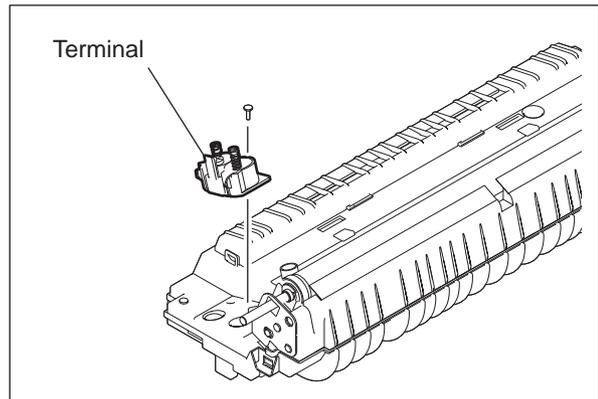
Fig. 4-274

(3) Remove 4 screws and then take off the inner duct.

Inner duct
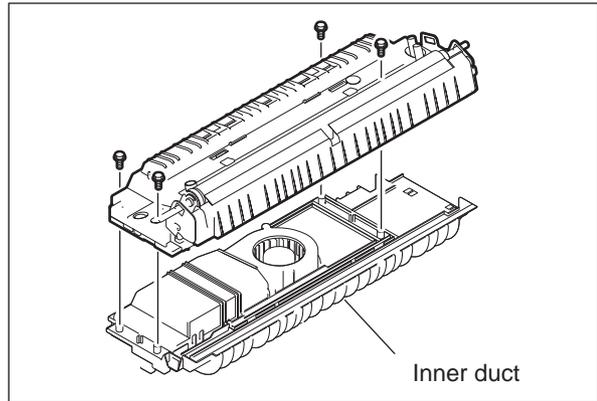
Fig. 4-275

(4) Take off the TRU fan.

TRU fan
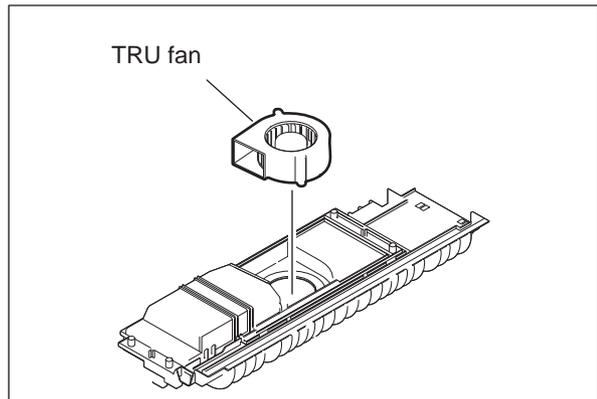
Fig. 4-276

4.11.14 Transfer roller unit

(1) Open the automatic duplexing unit.
(2) Release the hook on the rear side and then take off the transfer roller unit.

Notes:
1. Be careful not to drop the spring.
2. When installing the charger, pay attention to the position of the spring.

Transfer roller unit
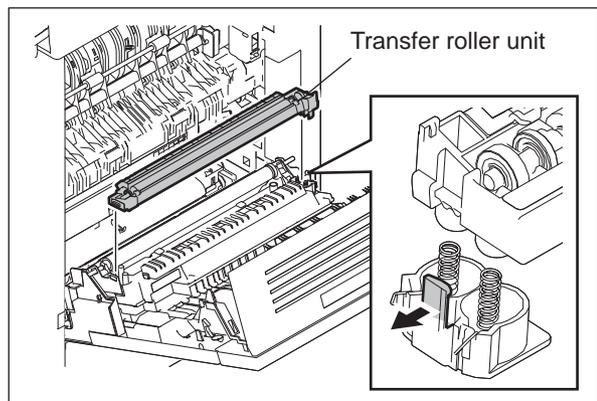
Fig. 4-277

4.11.15 Transfer roller 🅿🅜

(1) Take off the transfer roller unit
    (📖 P. 4-97 "4.11.14 Transfer roller unit").
(2) Release 4 hooks and then take off the
    transfer roller.

   Notes:
   Be careful not to drop the spring.
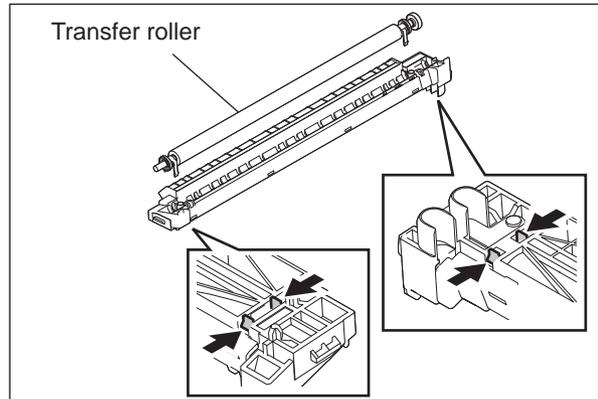
Fig. 4-278

(3) Remove 1 gear, 2 guide rollers and 2
    bushings from the transfer roller.

   Notes:
   When installing the bushings and gear, pay
   attention to the direction of them.
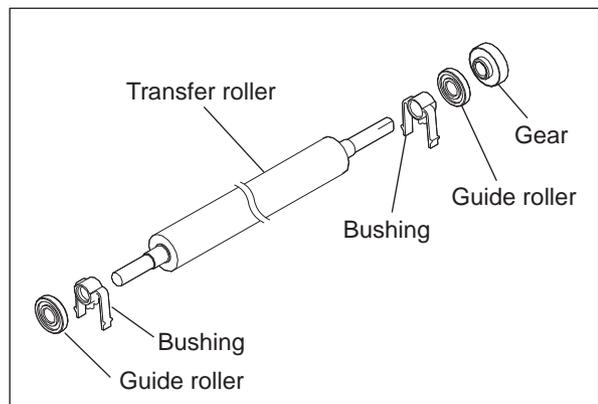
Fig. 4-279

4.11.16 Separation needle

(1) Take off the transfer roller unit.
    (📖 P. 4-97 "4.11.14 Transfer roller unit").
(2) Release 2 hooks and then take off the cover.
(3) Take off the separation needle paying
    attention not to deform it.

   Notes:
   When installing the separation needle, be
   sure to insert it underneath the power supply
   plate.
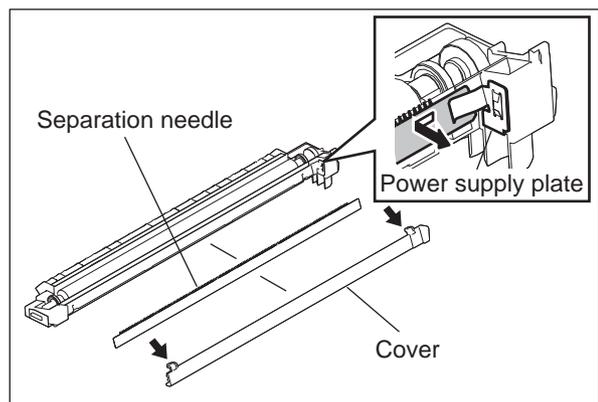
Fig. 4-280

4.11.17 Transfer unit

Notes:

When taking off the transfer unit, take off the process unit first to prevent the drum from light.

(1) Take off the automatic duplexing unit.
  📖 P. 4-134 "4.15.1 Automatic Duplexing Unit (ADU)"
(2) Take off 2 brackets by removing 2 screws each.
(3) Disconnect 1 connector and then take off the transfer unit.

Transfer unit
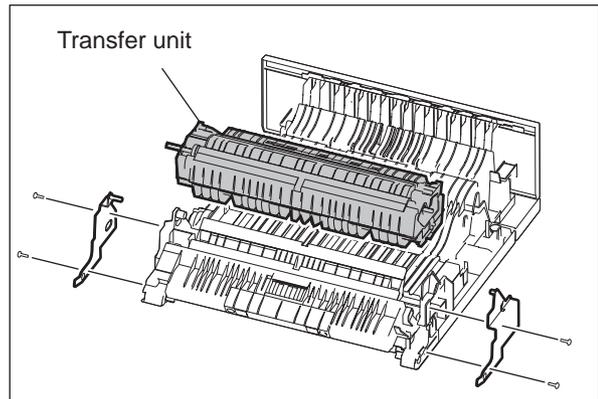
Fig. 4-281

4.11.18 Temperature/humidity sensor (S25)

(1) Take off the rear cover.
  📖 P. 4-3 "4.1.6 Rear cover"
(2) Disconnect 1 connector, remove 1 screw and then take off the temperature/humidity sensor.

Temperature/humidity sensor
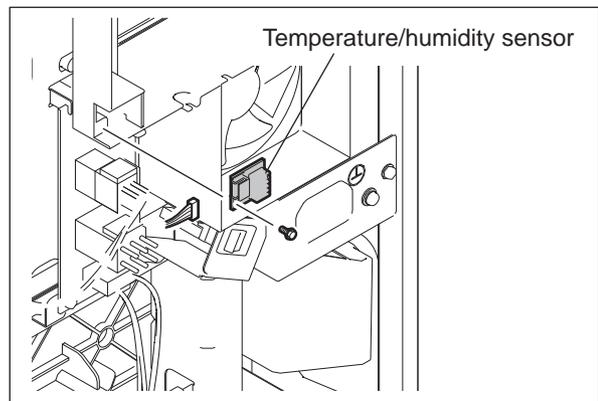
Fig. 4-282

4.12 DEVELOPMENT SYSTEM

4.12.1 Process unit

(1) Open the automatic duplexing unit.
(2) Open the front cover and take off the toner cartridge.
(3) Loosen 2 screws and pull out the process unit.
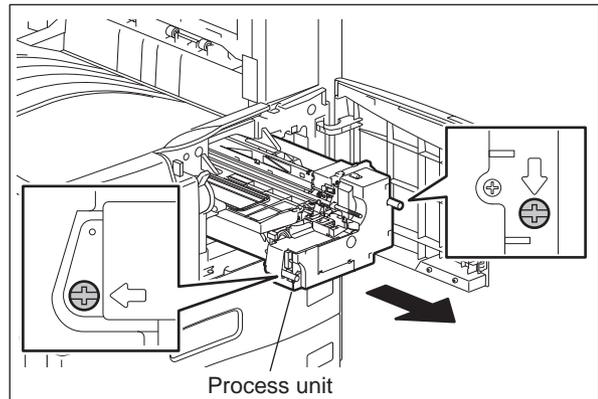
Process unit

Fig. 4-283

4.12.2 Developer unit

Notes:
Make sure to perform "05-2390" and take off the process unit before the developer material is replaced.

(1) Take out the process unit
(📖 P. 4-100 "4.12.1 Process unit").
(2) Take out the drum cleaner unit from the process unit so that only the developer unit will be left in it
(📖 P. 4-88 "4.11.2 Drum cleaner unit").

Notes:
1. Be careful not to touch or scratch the drum surface at this time.

Drum cleaner unit
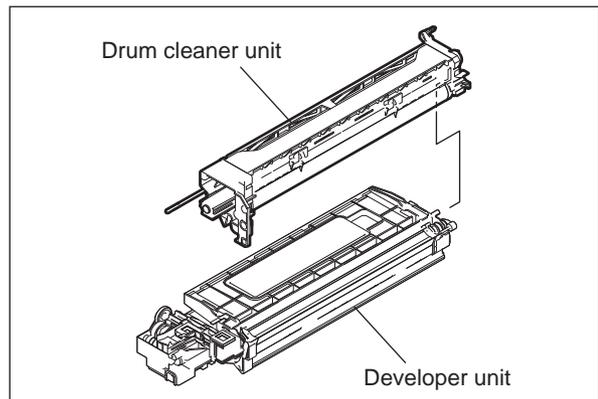
Developer unit

Fig. 4-284

2. Do not deform the Guide film by touching this.

Guide film
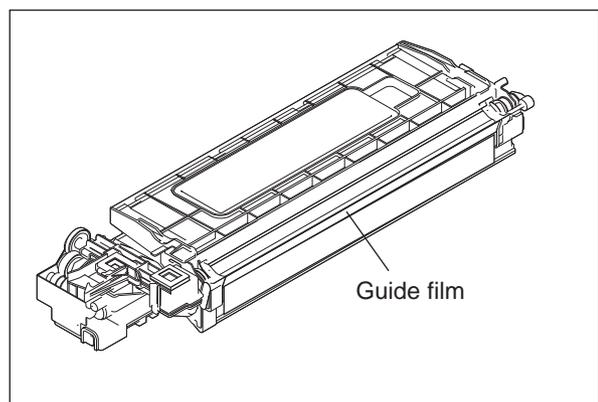
Fig. 4-285

4.12.3　Removing developer material

(1) Take out the developer unit
    (📖 P. 4-100 "4.12.2 Developer unit").
(2) Remove 2 screws and slide the developer
    unit upper cover to the direction of the arrow
    and take it off.

Developer unit upper cover
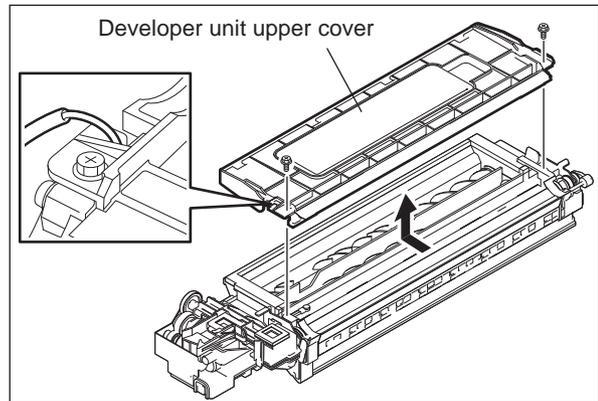
Fig. 4-286

Notes:
When installing the developer unit upper
cover, make sure that the side seal comes
between the developer unit upper cover and
rubber seal on the cover.

Side seal

Rubber seal

Developer unit
upper cover
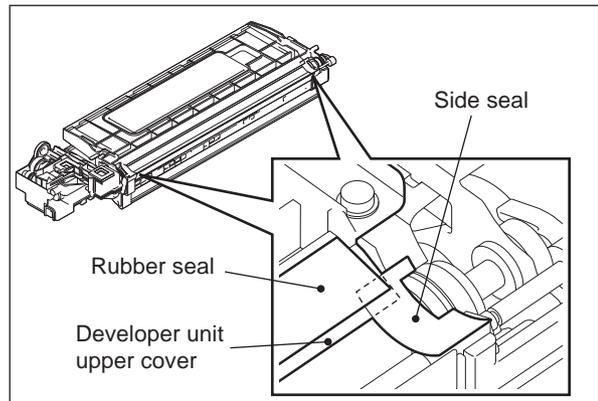
Fig. 4-287

(3) Remove the developer material from rear
    side.

Notes:
1. When removing the developer material,
   be careful not to drop the developer
   material on the gears of the developer
   unit.
2. When cleaning the developer unit, never
   attempt to use solvent.
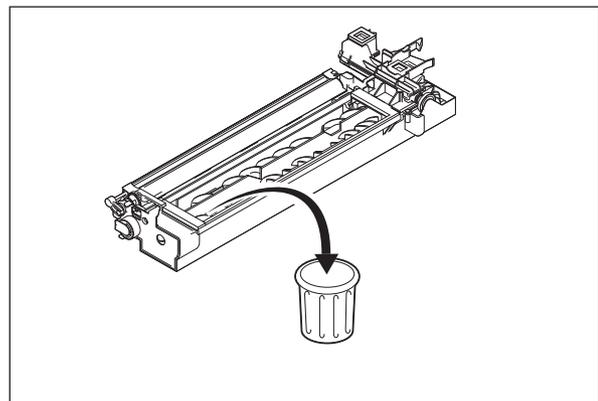
Fig. 4-288

4.12.4 Filling developer unit with developer material

(1) Install the developer nozzle jig on the developer bottle.
(2) Rotate the gear on the rear side of the developer unit to the direction of the arrow while filling the developer unit with the developer material. Spread out the developer material over the developer sleeve.
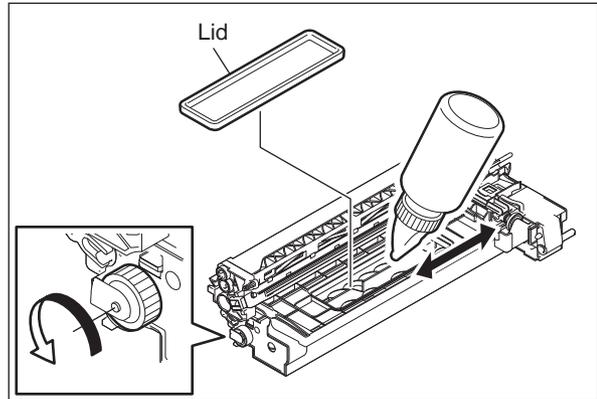
Fig. 4-289

4.12.5 EPU memory board (EPU)

(1) Remove the developer material (P. 4-101 "4.12.3 Removing developer material").
(2) Place the developer unit upside down. Disconnect 2 connectors.
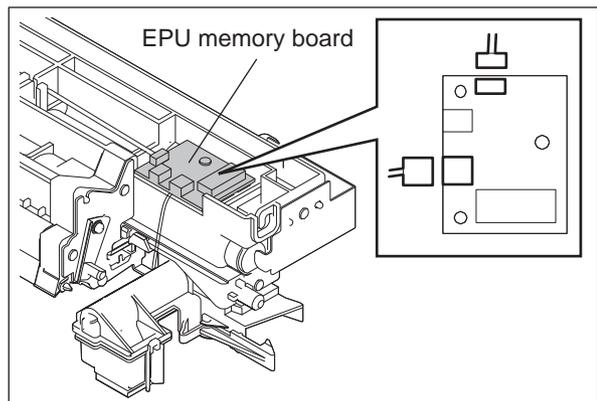
Fig. 4-290

(3) Remove 1 screw. Then take off the EPU memory board.
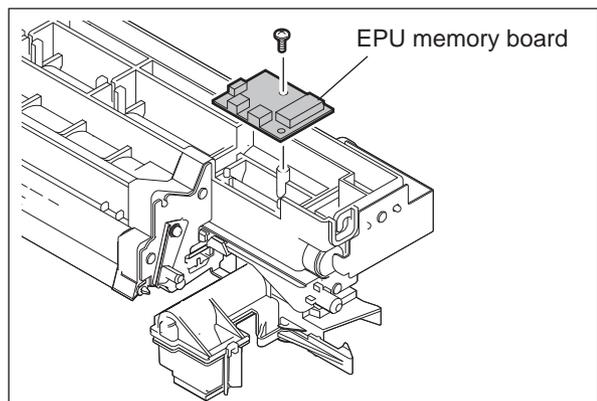
Fig. 4-291

4.12.6 Auto-toner sensor (S8)

(1) Remove the developer material
(📖 P. 4-101 "4.12.3 Removing developer material").
(2) Place the developer unit upside down. Disconnect 1 connector.
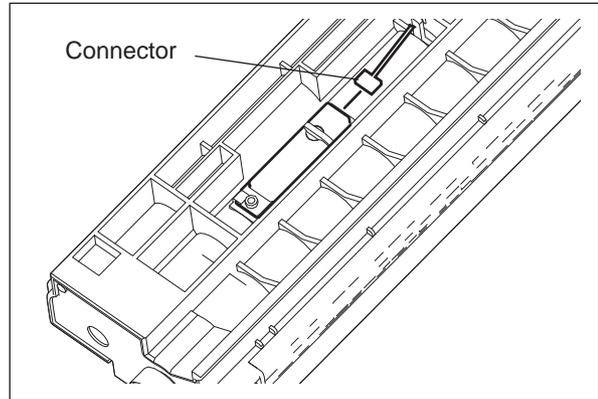
Fig. 4-292

(3) Take off the auto-toner sensor by rotating it.
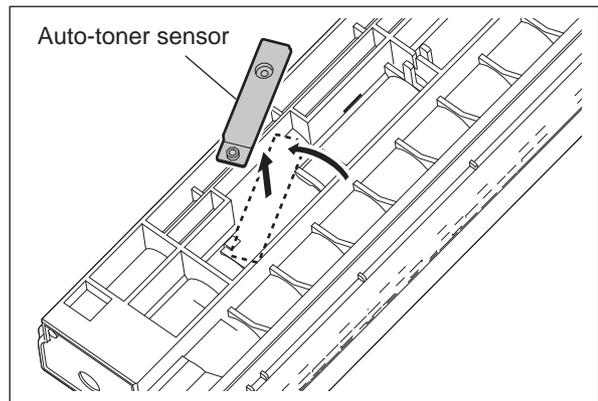
Fig. 4-293

4.12.7 Drum thermistor (THMS4)

(1) Remove the developer material
(📖 P. 4-101 "4.12.3 Removing developer material").
(2) Disconnect 1 connector, remove 1 screw and take off the drum thermistor.

Fig. 4-294

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
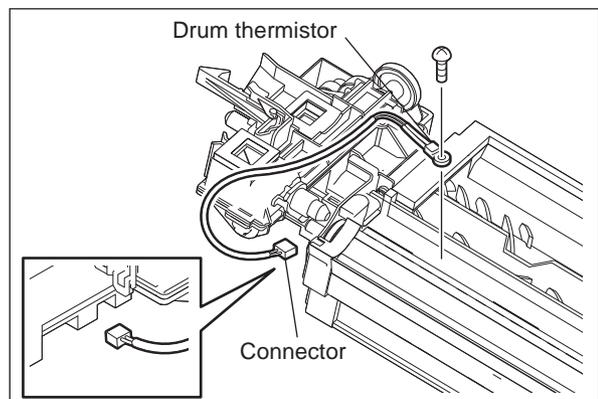
4.12.8 Guide roller / Developer sleeve

(1) Remove the developer material
(□ P. 4-101 "4.12.3 Removing developer material").

(2) Remove 2 screws and take off the recovered toner supply unit.

Recovered toner supply unit
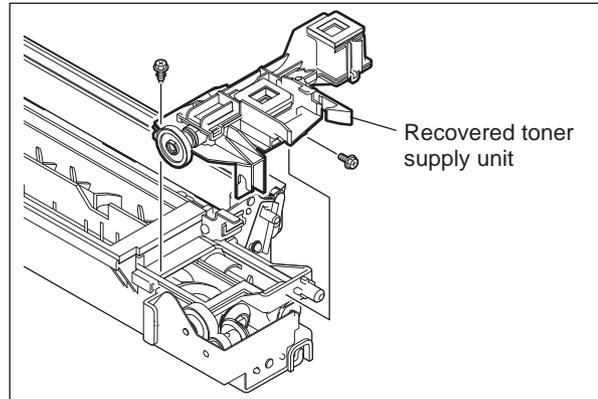
Fig. 4-295

(3) Remove 1 screw and take off the recovered toner drive unit. Remove 1 gear.

Gear

Recovered toner drive unit
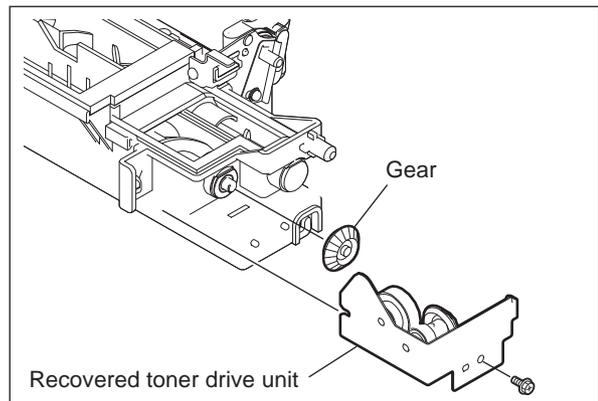
Fig. 4-296

(4) Remove 2 plate springs fixing the doctor sleeve on its both ends.

Plate spring

Plate spring
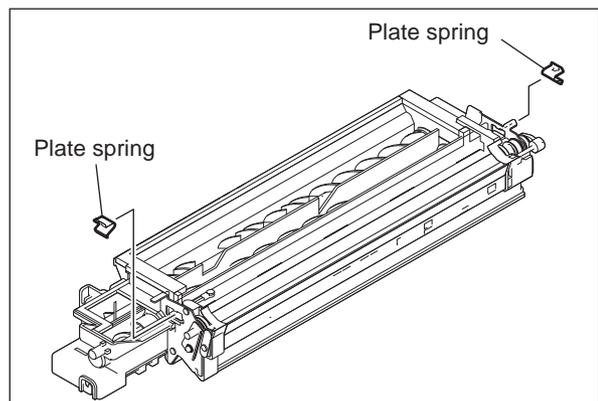
Fig. 4-297

(5) Remove 2 screws on both ends of the doctor sleeve and remove 2 coil springs.

Notes:
When the screws on both ends of the doctor sleeve are removed, be sure to adjust the doctor sleeve gap (0.45±0.05 mm) after assembling.
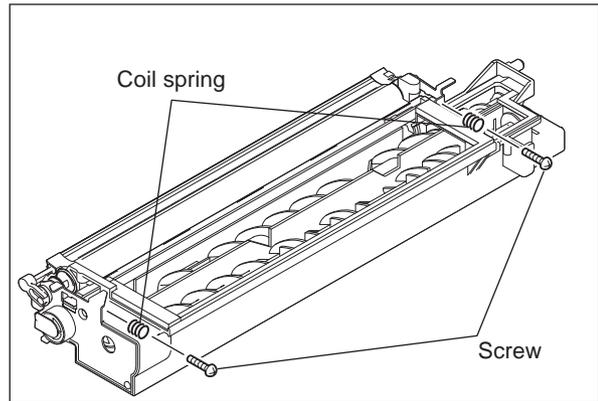
Fig. 4-298

(6) Remove 1 screw and plate spring. (only e-STUDIO356/456/506 / 357/457/507)
(7) Remove 1 screw and take off the polarity adjustment lever.

Notes:
Make a note of the position where the polarity adjustment lever is pointing. (Mark the position if needed.) When reassembling, match the polarity adjustment lever with the previously marked position on the scale.
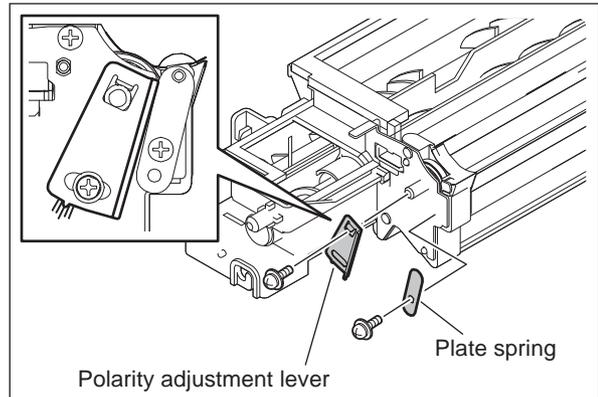
Fig. 4-299

(8) Remove 2 screws and take off the bracket.
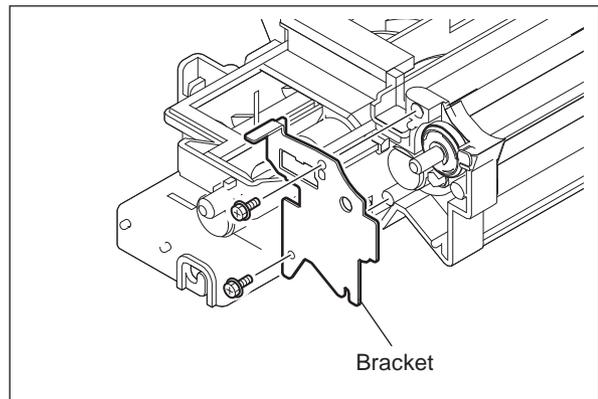
Fig. 4-300

(9) Remove 1 E-ring and take off the guide roller on the front side.
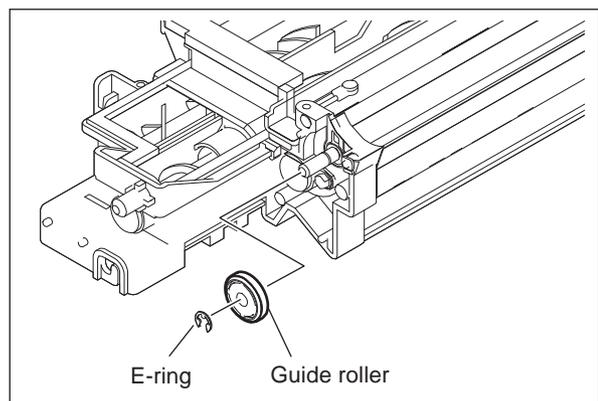
Fig. 4-301

(10) Remove 1 E-ring. Remove the arm and cam.
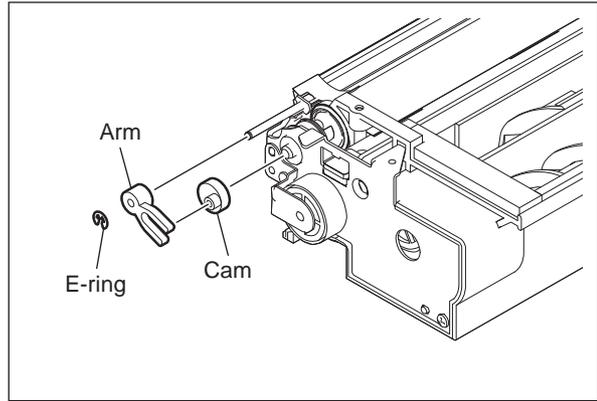
Fig. 4-302

(11) Remove 1 screw and the gear.
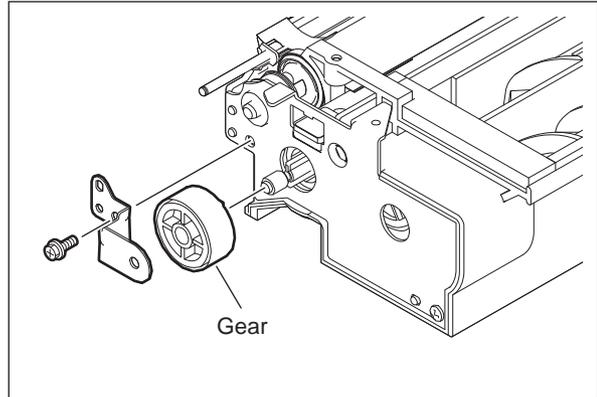
Fig. 4-303

(12) Remove 2 screws. Take off 1 bearing and the bracket.
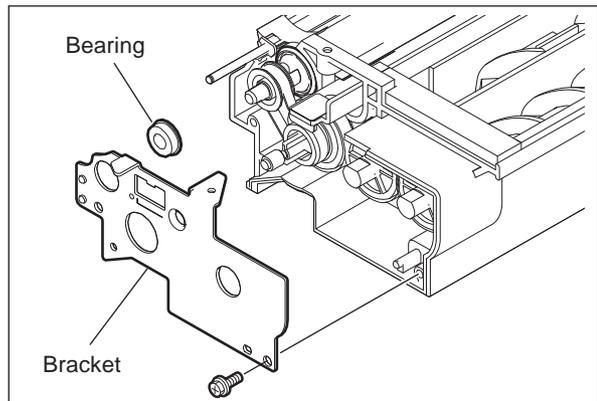
Fig. 4-304

(13) Take off 3 gears and 1 timing belt.
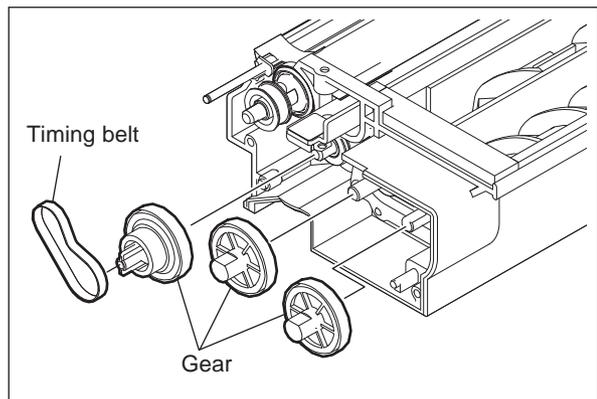
Fig. 4-305

(14) Remove 1 E-ring, 1 pin and 1 pulley.

(15) Take off the guide roller on the rear side.
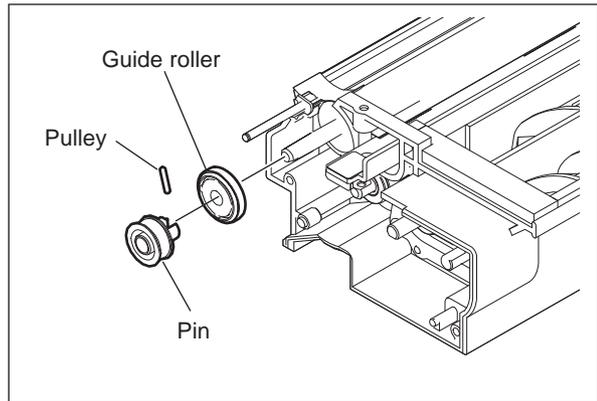
Fig. 4-306

(16) Remove the seal on the front side. Remove 1 E-ring and 1 bushing.
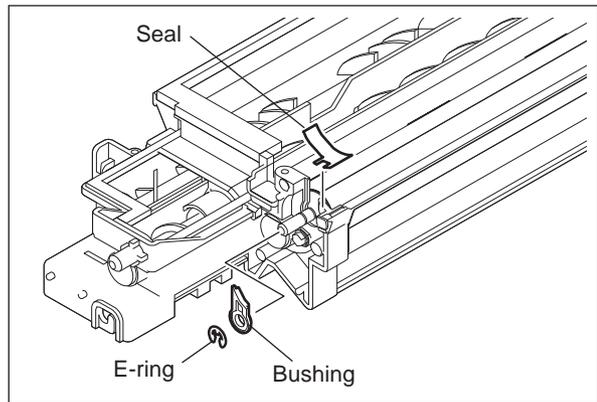
Fig. 4-307

(17) Take off the developer sleeve.

Fig. 4-308

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
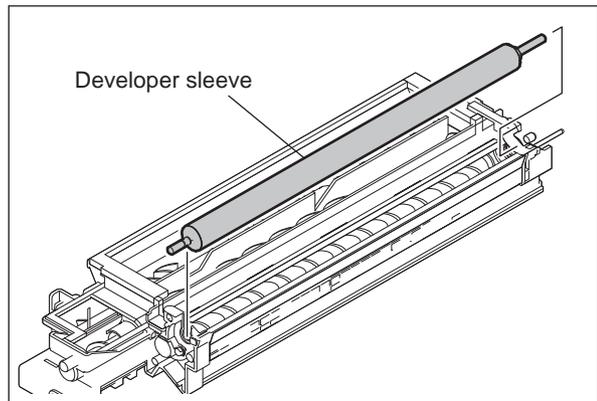
4.12.9 Mixer

(1) Take off the developer sleeve
(📖 P. 4-104 "4.12.8 Guide roller / Developer
sleeve").
(2) Take off the doctor sleeve.

Doctor sleeve
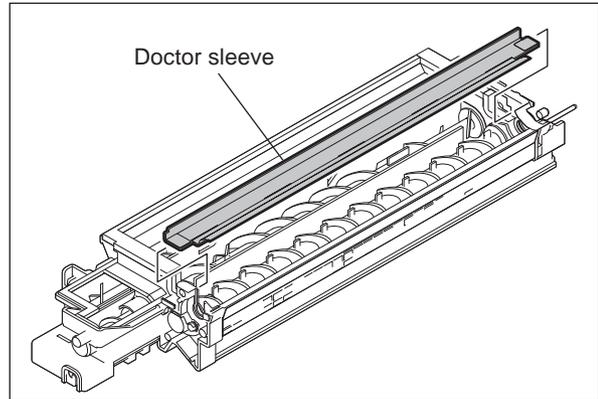
Fig. 4-309

(3) Remove 2 screws and take off the holder.
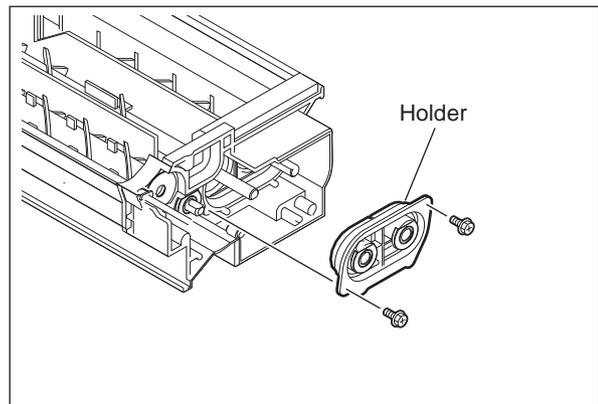
Holder

Fig. 4-310

(4) Remove 2 bushings and 2 oil seals from the
holder.
(Replacement of Oil Seal: 📖 P. 4-110
"4.12.10 Replacement of oil seal")
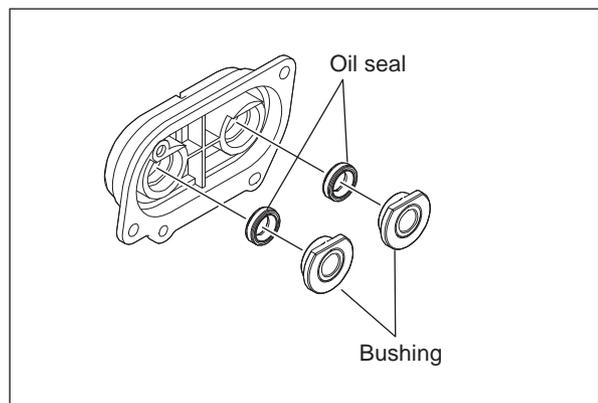
Oil seal

Bushing

Fig. 4-311

(5) Take off the mixers-2 and -3.
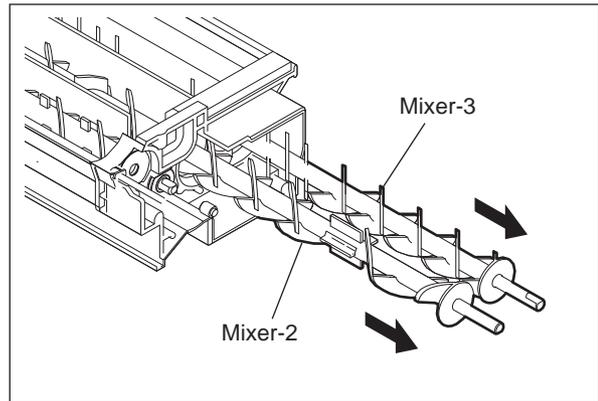
Mixer-3

Mixer-2

Fig. 4-312

(6) Remove 2 bushings and 2 oil seals on the front side.
(Replacement of Oil Seal: 📖 P. 4-110 "4.12.10 Replacement of oil seal"
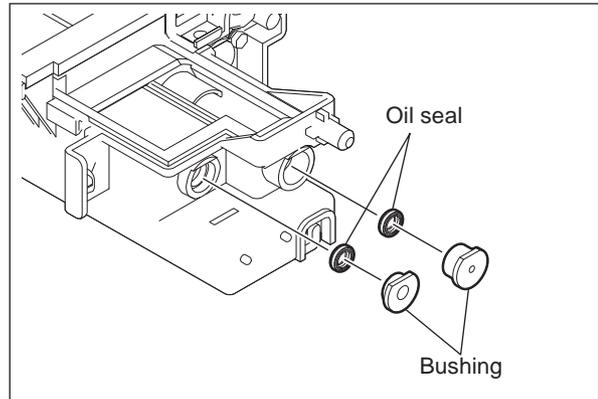
Oil seal

Bushing

Fig. 4-313

(7) Remove the end section of the mixer-1.
(8) Remove the bushing and oil seal.
(Replacement of Oil Seal: 📖 P. 4-110 "4.12.10 Replacement of oil seal")

End section of mixer-1
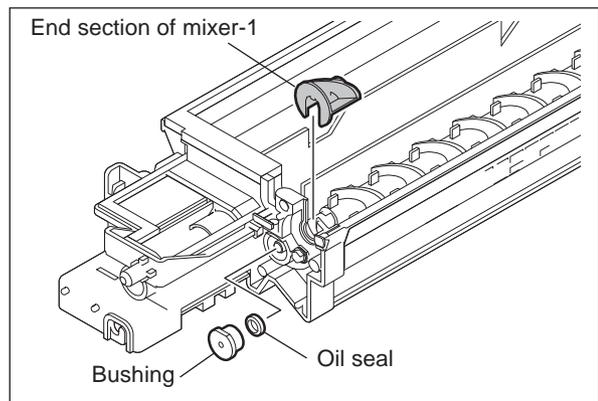
Bushing

Oil seal

Fig. 4-314

(9) Take off the mixer-1.

Mixer-1

Fig. 4-315

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
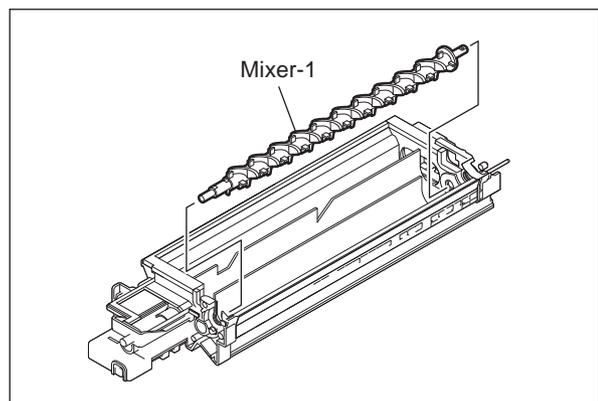
(10) Remove the bushing on the rear side.
(11) Remove the oil seal.
(Replacement of Oil Seal: 📖 P. 4-110
"4.12.10 Replacement of oil seal")
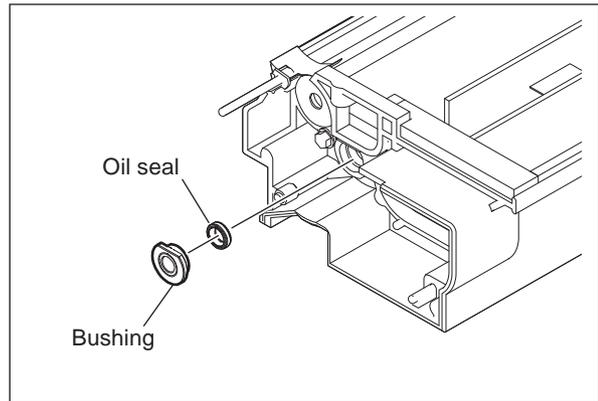
Fig. 4-316

4.12.10 Replacement of oil seal

(1) Insert a fine screwdriver into the depression of the oil seal to take it out.
(2) Push in a new oil seal parallel to the frame or bushing (shown figure at right).
(3) Apply the grease (Alvania No.2; amount of 2 rice grains) on entire surface of the oil seal evenly.

Notes:
Wipe off the excessive grease.
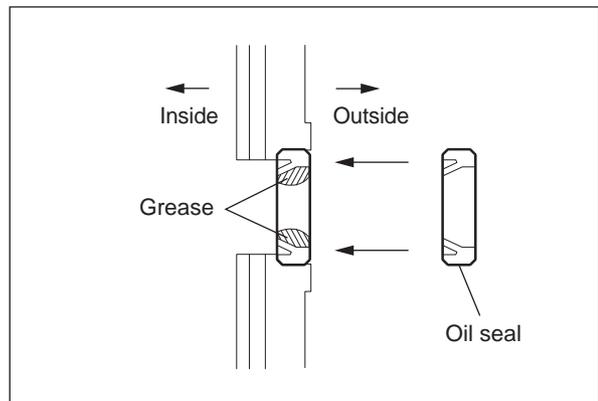
Fig. 4-317

4.13 FUSER UNIT

Notes:

Be sure to turn the power OFF and unplug the power cable during service.

4.13.1 Fuser unit

(1) Open the small right rear cover.
(2) Loosen 2 screws and take off the fuser unit.

Notes:

Be careful when handling the fuser unit as it may become very hot.
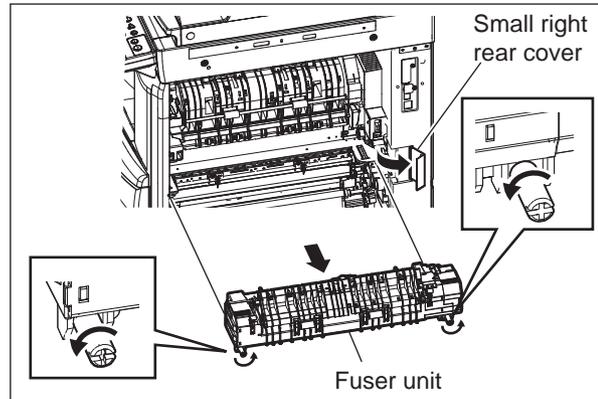
Fig. 4-318

Notes:

To store the removed fuser unit for a long period, follow the procedure below.

(1) Open the front cover.
(2) Take off the pressure release metal plate (front) [1] from the front cover.
(3) Take off the pressure release metal plate (rear) [2] from the front cover.
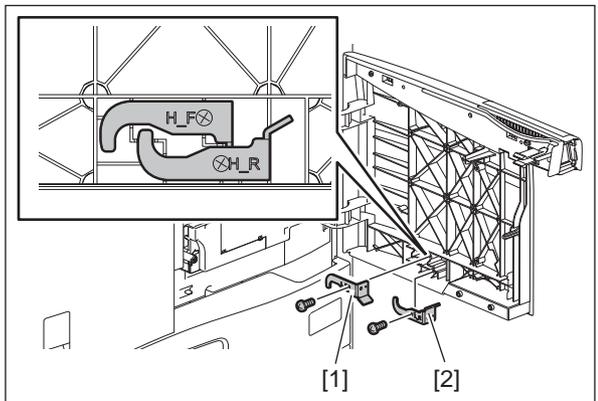
Fig. 4-319

(4) Lower the pressure release levers in the fuser unit to release them.
(5) Install the metal plates removed in step (2) in the fuser unit with 1 screw each.

Fig. 4-320

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
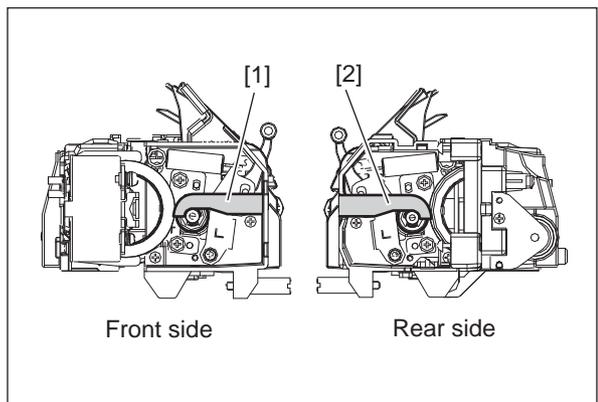
4.13.2　Fuser roller unit / Pressure roller unit

(1) Take off the fuser unit
(📖 P. 4-111 "4.13.1 Fuser unit").

(2) Remove 1 screw and take off the rear cover [1].

(3) Disconnect 1 connector [2].

Notes:
- When installing the rear cover [1], make sure that the harness is not caught.
- Install the rear cover [1] with the ground leaf spring [3] outside of it as shown in the right-hand figure.
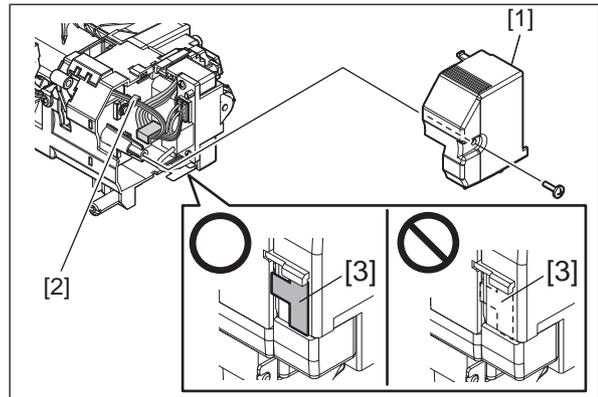
Fig. 4-321

(4) Remove 2 screws and take off the fuser roller unit and the pressure roller unit.

Notes:
When installing, be sure to release the pressure release lever.
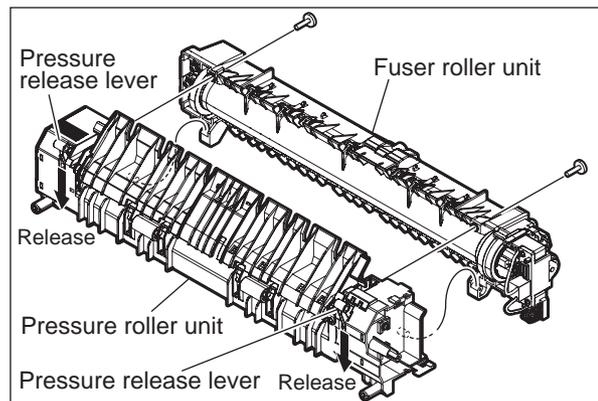
Fig. 4-322

4.13.3 Separation finger

(1) Take off the fuser roller unit.
(📖 P. 4-112 "4.13.2 Fuser roller unit /
Pressure roller unit").

(2) Remove 1 screw and take off the thermostat
cover [1].
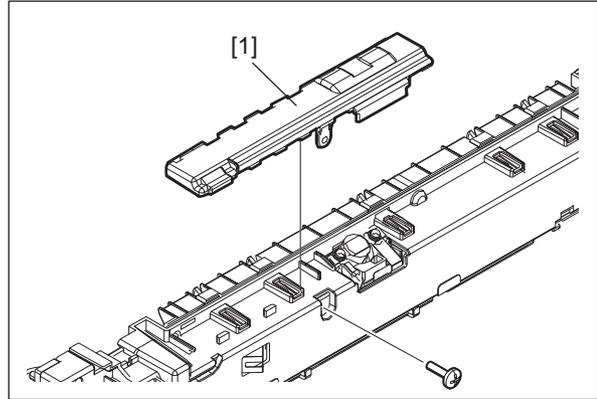
Fig. 4-323

(3) Remove 3 screw and take off the separation
finger guide [1].
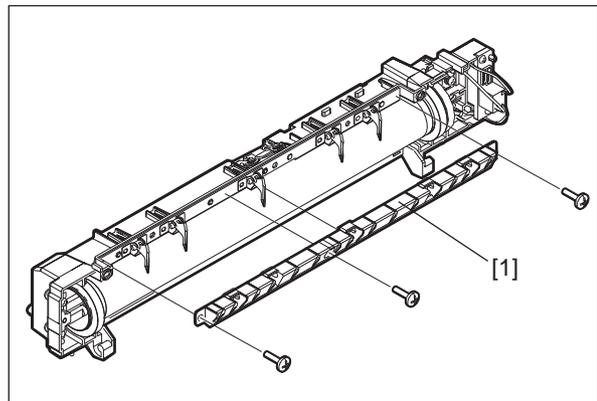
Fig. 4-324

(4) Remove 5 springs [1] and take off 5
separation fingers [2].
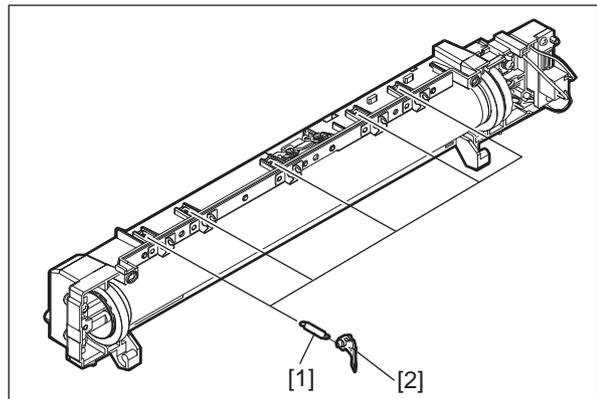
Fig. 4-325

4.13.4 Fuser roller

(1) Take off the separation fingers
(📖 P. 4-113 "4.13.3 Separation finger").

(2) Remove 6 screws and take off the fuser
roller and three heater lamps.

Notes:
1. Be careful not to deform the fuser roller
   by pushing strongly.
2. When installing the heater lamps, refer to
   the installation procedure.
   (📖 P. 4-115 "4.13.5 Heater lamp")
3. For e-STUDIO206L/256/306 / 207L/257/
   307, the sub heater lamp is not installed.
4. When installing the fuser roller, be careful
   not to deform the thermistor.
5. When installing the fuser roller, confirm
   that the drive gears are engaged.

Fig. 4-326

(3) Remove 1 C-ring and 1 bearing from the
fuser roller front side.

(4) Remove 1 C-ring, 1 gear and 1 bearing from
the fuser roller rear side.
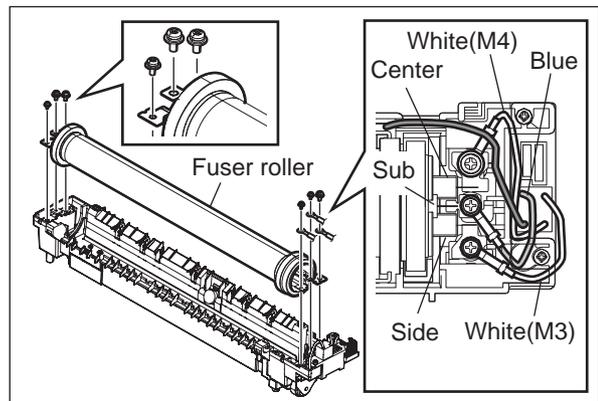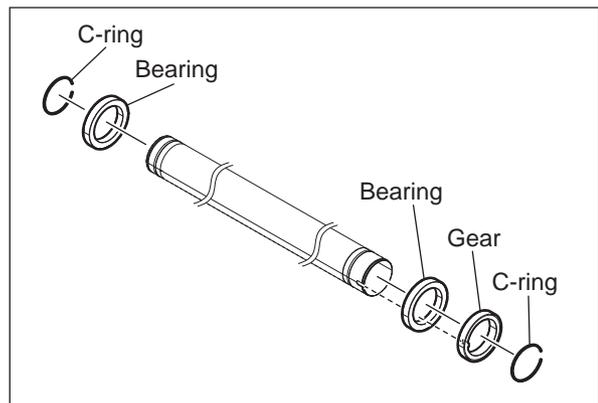
Fig. 4-327

4.13.5 Heater lamp

(1) Take off the separation fingers
(📖 P. 4-113 "4.13.3 Separation finger").

(2) Remove 2 screws of each lamp, and then take off the center heater lamp, side heater lamp, sub heater lamp and fuser roller.

Notes:

1. When fixing the screws, do not mix up the types of screws.
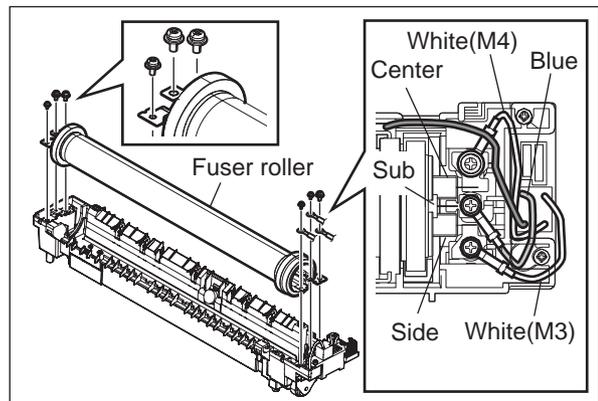
Fig. 4-328

2. When installing the heater lamps, do not mix up the types of heater lamps. The shapes and screw holes of each lamp vary. Install the heater lamps while referring to the figure at right.
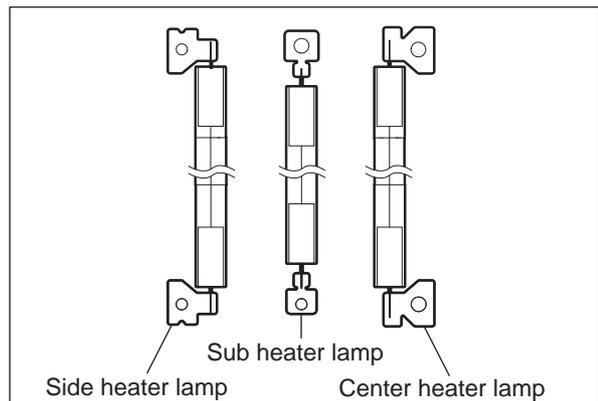
Fig. 4-329

3. Install the heater lamps on their welded sides on upper.
4. Make sure to connect the white lines to the center heater lamp and side heater lamp, and the blue line to the sub heater lamp.
5. For e-STUDIO206L/256/306 / 207L/257/ 307, the sub heater lamp is not installed.
6. Be careful not to deform the fuser roller by pushing strongly.
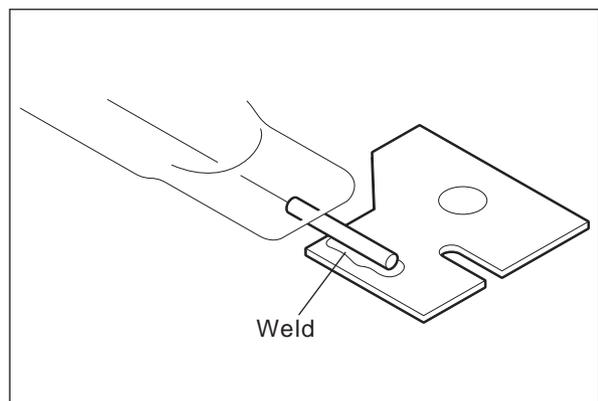
Fig. 4-330

(3) Pull out the center heater lamp, side heater lamp, and sub heater lamp.

Notes:
1. Do not touch the lamps directly with bare hands.
2. Be careful not to deform the fuser roller by pushing strongly.
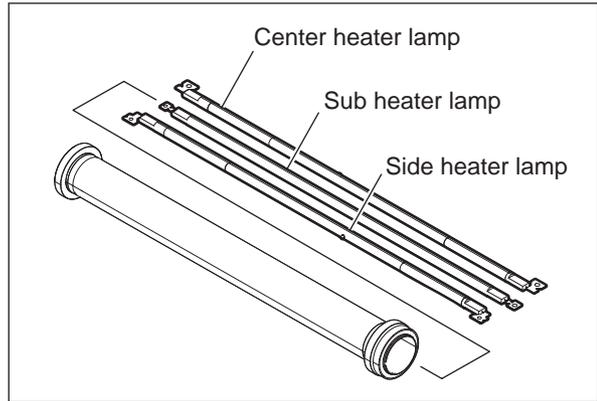
Fig. 4-331

4.13.6 Center / Side / Edge thermistor (THMS1/THMS2/THMS3)

(1) Take off the fuser roller unit
(⬛ P. 4-112 "4.13.2 Fuser roller unit / Pressure roller unit").
(2) Place the fuser roller unit [1] upside down.
(3) Remove 2 screws, and then take off the harness cover [2].

Notes:
When installing the harness cover [2], make sure that the harness is not caught.
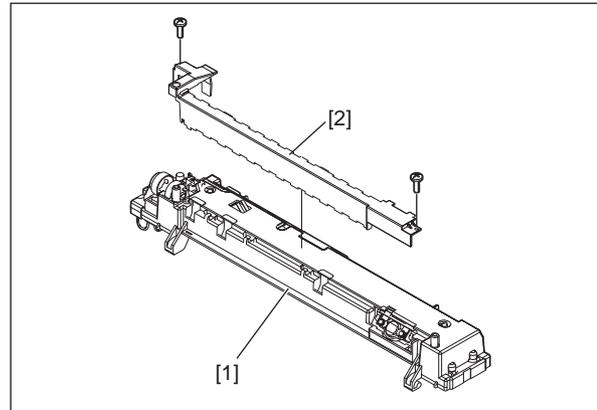
Fig. 4-332

(4) Take out the thermistor by removing 1 screw each.

Notes:
1. When installing the thermistors, check the length of the harness first and distinguish the installation positions of the side thermistor and edge thermistor by the length of each harness.
2. When installing, be careful not to deform the thermistor. Also, make sure that the thermistor is in touch with the fuser roller.
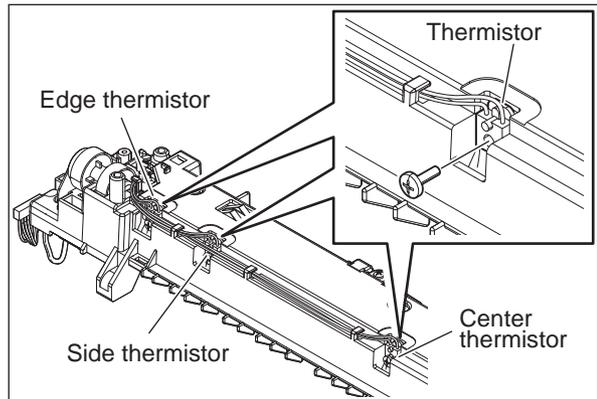
Fig. 4-333

Notes:
When installing the thermistors, check the length of the harness first and distinguish the installation positions of the side thermistor and edge thermistor by the length of each harness.
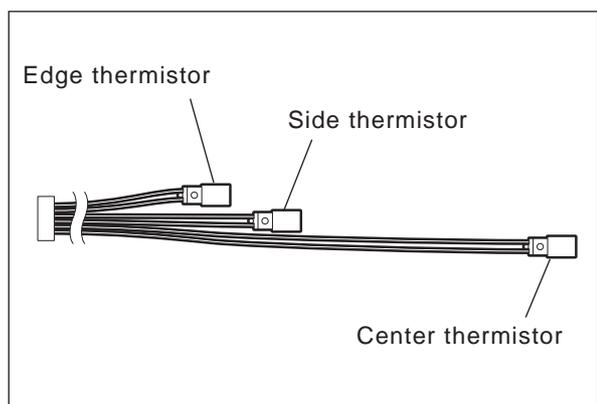
Fig. 4-334

4.13.7 Fuser center / Fuser front thermostat (THMO1/THMO2)

(1) Take off the fuser roller unit
(📖 P. 4-112 "4.13.2 Fuser roller unit /
Pressure roller unit").
(2) Place the fuser roller unit [1] upside down.
(3) Remove 2 screws, and then take off the
harness cover [2].

Notes:

When installing the harness cover [2], make
sure that the harness is not caught.
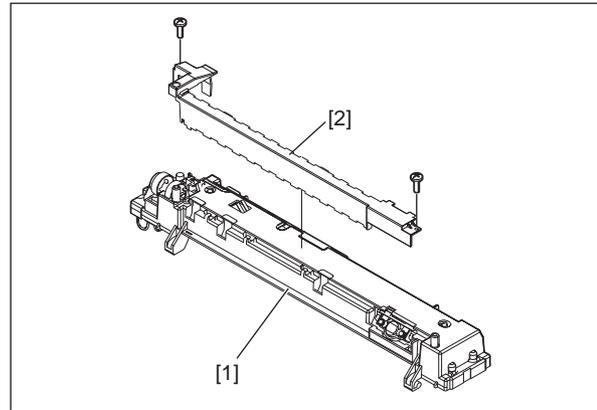
Fig. 4-335

(4) Remove 2 screws, and then take off the
fuser front thermostat [1].
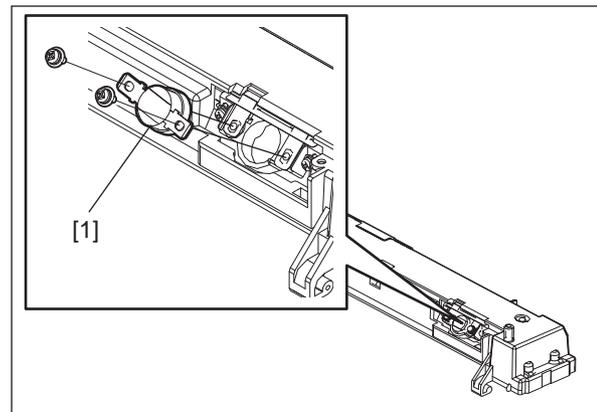
Fig. 4-336

Notes:

Do not loosen the 2 red screws fixing the
thermostat holder.
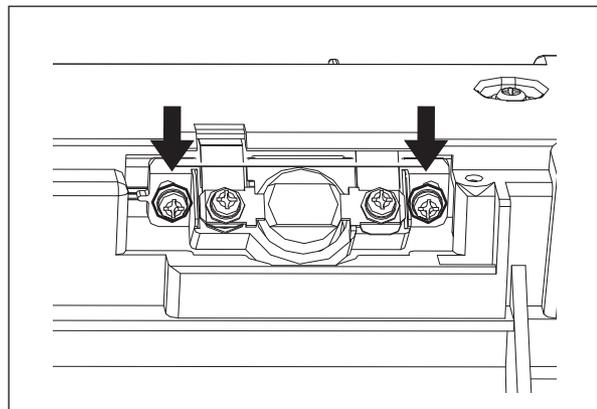
Fig. 4-337

(5) Remove 1 screw and take off the thermostat cover [1].
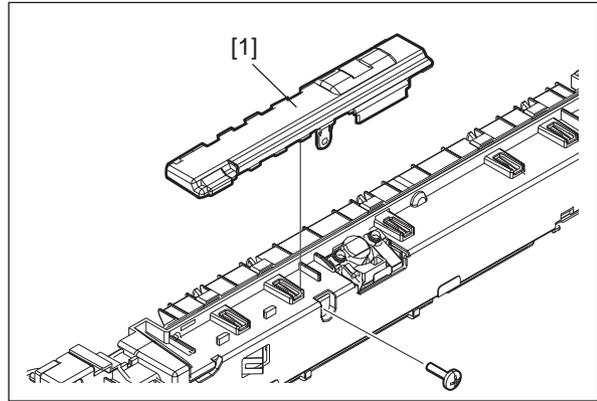
Fig. 4-338

(6) Remove 2 screws, and then take off the fuser center thermostat [1].
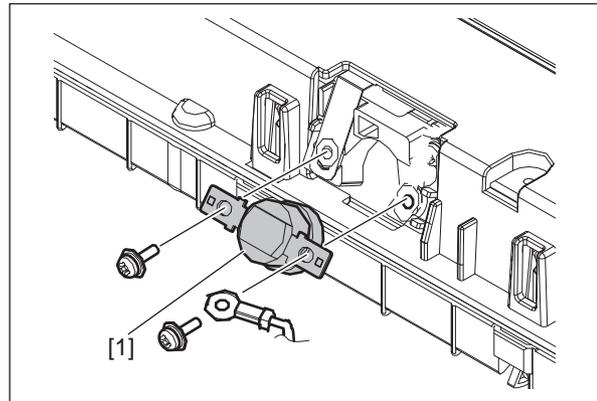
Fig. 4-339

Notes:
- Wire the harness as shown in the figure and fix it with clamp securely.
- Do not loosen the 1 red screw [2] fixing the thermostat holder.

Fig. 4-340

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
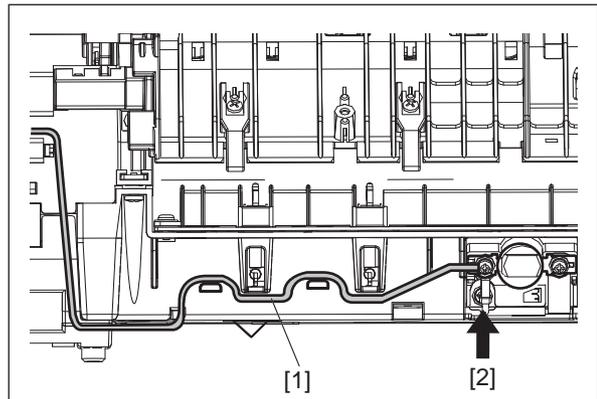
4.13.8 Pressure roller

(1) Take off the pressure roller unit
(📖 P. 4-112 "4.13.2 Fuser roller unit /
Pressure roller unit").

(2) Remove 3 screws and take off the entrance
guide.
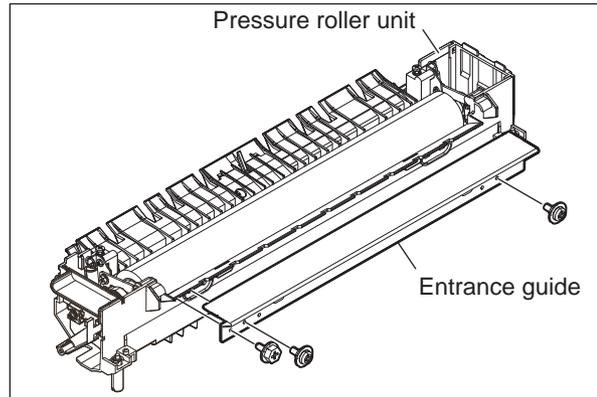
Fig. 4-341

(3) Take off the front cover.
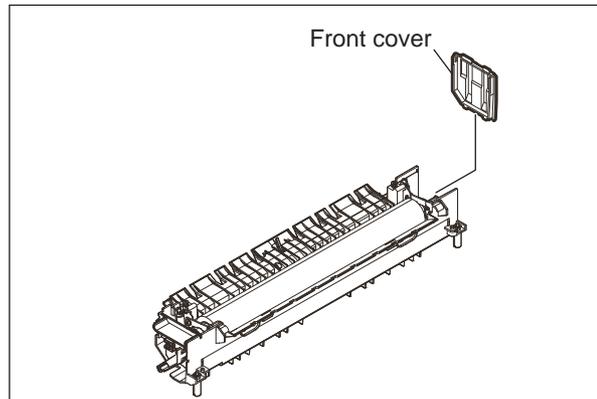
Fig. 4-342

(4) Disconnect 1 connector, and then take off the
fuse cover while holding a hook.
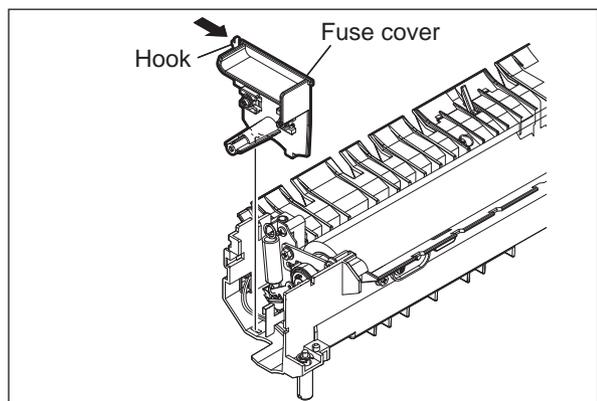
Fig. 4-343

(5) Remove 2 springs of both front and rear sides of the pressure roller unit.

Spring   Spring

Hook

Rear side   Front side
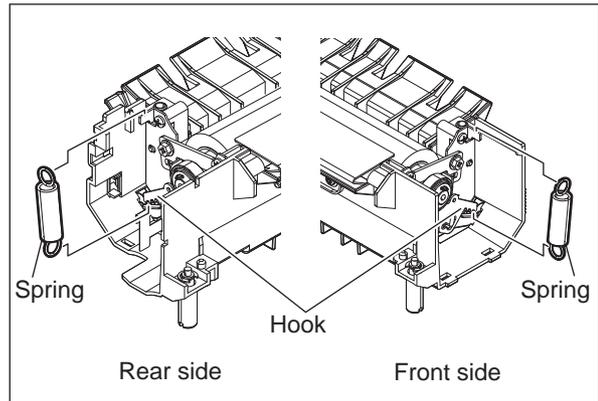
Fig. 4-344

Notes:
When installing the spring, catch the spring on the hook in the middle.

Hook   Spring   Hook

Front Side   Rear Side
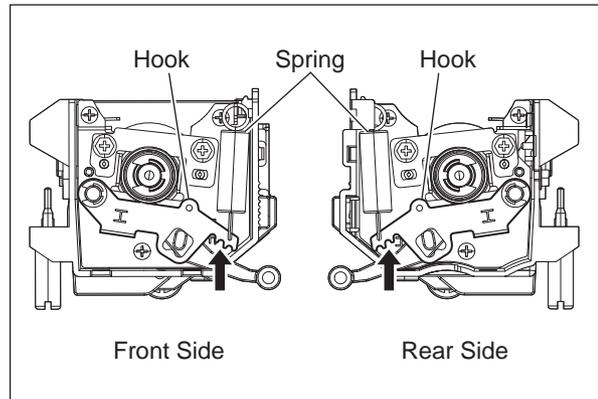
Fig. 4-345

(6) Remove 4 screws, and then take off 2 stoppers.
(7) Pull out the pressure roller.

Stopper

Stopper
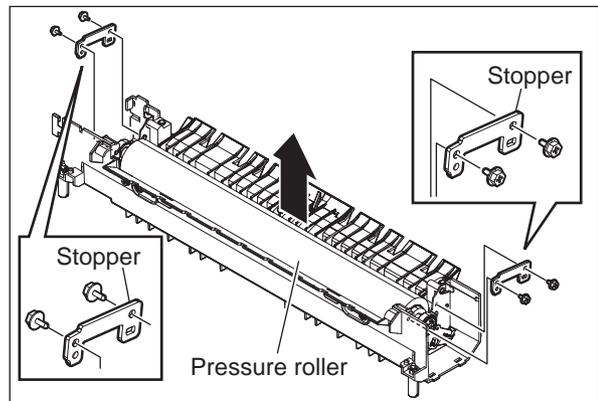
Pressure roller

Fig. 4-346

(8) Remove 2 E-rings and the bearings on both ends of the pressure roller.

E-ring

Pressure roller

Bearing

Bearing

E-ring

Fig. 4-347

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
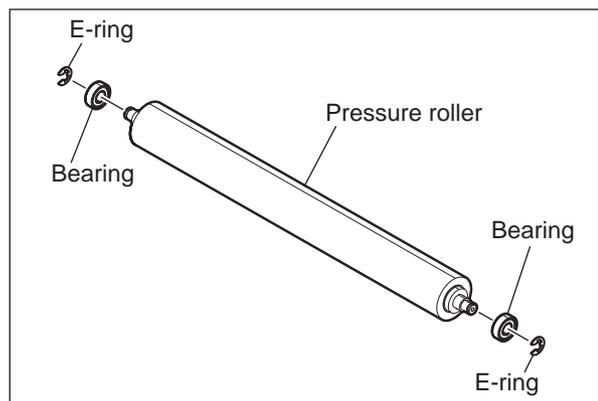
4.13.9 Exit sensor (S9)

(1) Take off the pressure roller unit
(📖 P. 4-112 "4.13.2 Fuser roller unit /
Pressure roller unit").

(2) Remove 1 screw, and then take off the
sensor cover.
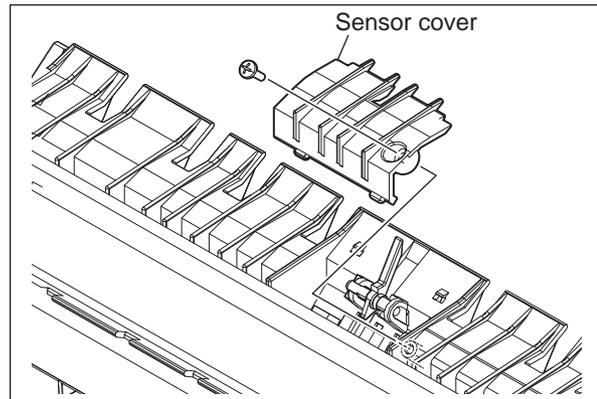
Fig. 4-348

(3) Remove the seal [1].
(4) Disconnect 1 connector [2], and then take off
the exit sensor [3] while releasing a hook.
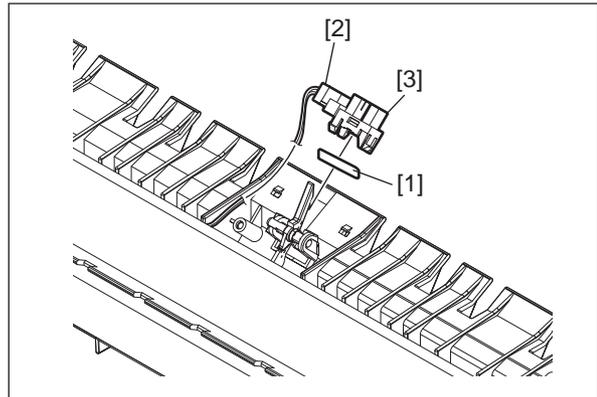
Fig. 4-349

Notes:
Wire the harness as shown in the figure and
fix it with clamp securely.
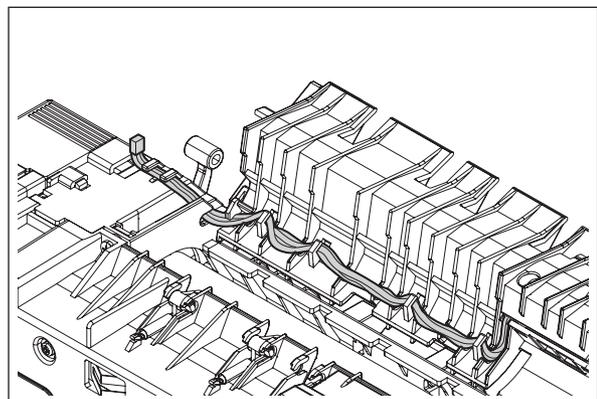
Fig. 4-350

4.13.10 Installation of the fuser unit fuse (service part)

(1) Take off the fuser unit
    (📖 P. 4-111 "4.13.1 Fuser unit").
(2) Remove 1 screw and take off the rear cover
    [1].
(3) Disconnect 1 connector [2].

Notes:
- When installing the rear cover [1], make sure that the harness is not caught.
- Install the rear cover [1] with the ground leaf spring [3] outside of it as shown in the right-hand figure.
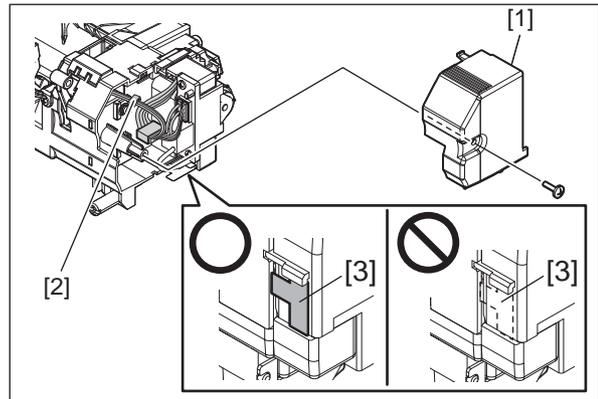
Fig. 4-351

(4) Connect the connectors of the fuser unit fuse.

Fig. 4-352

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
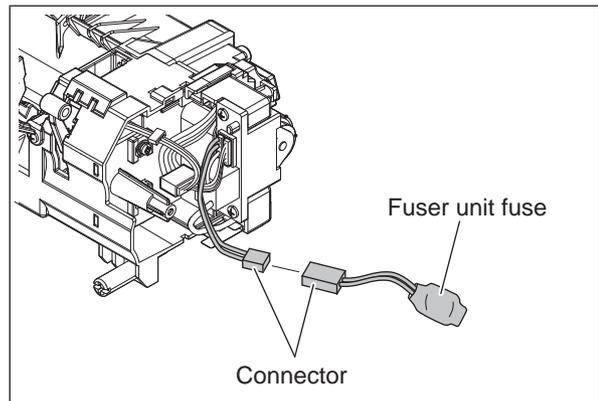
4.14 PAPER EXIT SECTION/REVERSE SECTION

4.14.1 Reverse unit (only installed for e-STUDIO356/456/506 / 357/457/507)

(1) Take off the fuser unit.
(📖 P. 4-111 "4.13.1 Fuser unit")

Notes:
Be careful when handling the fuser unit as it may become very hot.

(2) Remove 3 screws from the left side of the reverse section, and then take off the cover.
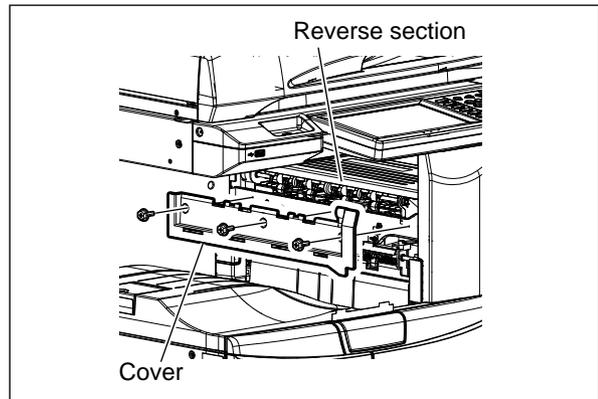
Fig. 4-353

(3) Take off the connecting port cover.
(📖 P. 4-5 "4.1.12 Connecting port cover")

(4) Release the latches and take off the inner cover.
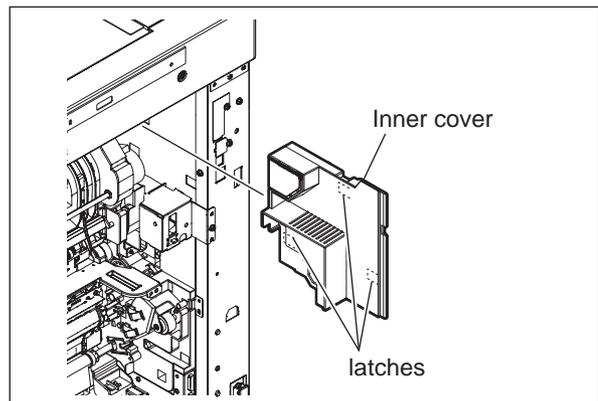
Fig. 4-354

(5) Disconnect 1 connector and remove 1 screw, and take off the switch unit.
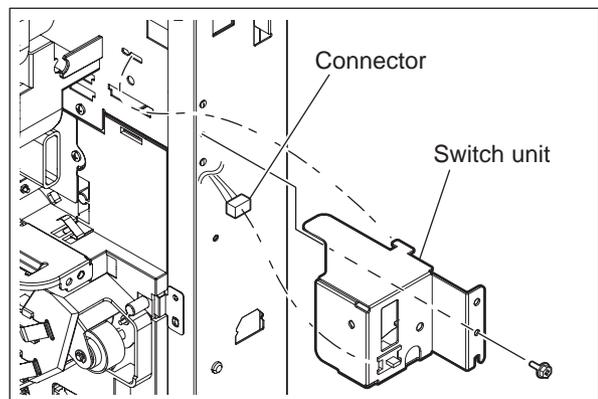
Fig. 4-355

(6) Disconnect 1 connector and remove 2 screws, and take off the reverse unit.

Notes:
Be sure to perform Step (2) before removing the reverse unit.
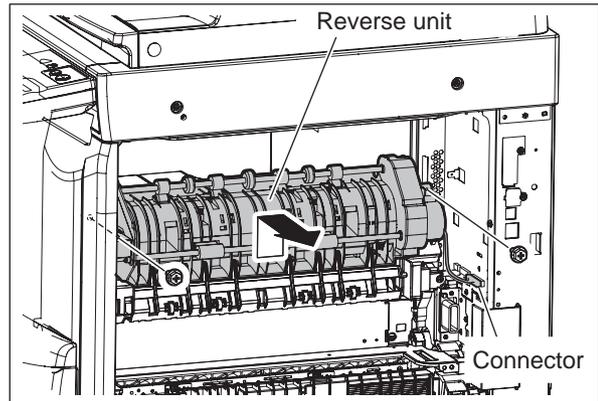
Fig. 4-356

Notes:
When installing the reverse unit, engage the arm of the offset gate motor at the front of the reverse unit and the holder of the paper exit unit.
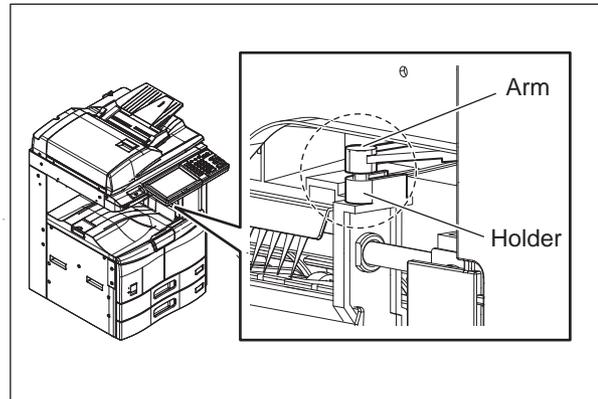
Fig. 4-357

4.14.2 Paper exit unit

(1) Take off the reverse unit
(📖 P. 4-124 "4.14.1 Reverse unit (only installed for e-STUDIO356/456/506 / 357/ 457/507)")

(2) Disconnect 1 connector and remove 2 screws, and take off the paper exit unit.
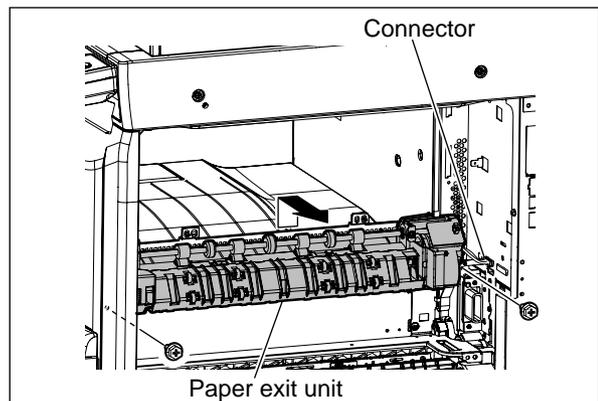
Fig. 4-358

4.14.3 Exit motor (M10)

(1) Take off the paper exit unit.
(P. 4-125 "4.14.2 Paper exit unit")

(2) Remote 2 screws and take off the duct.
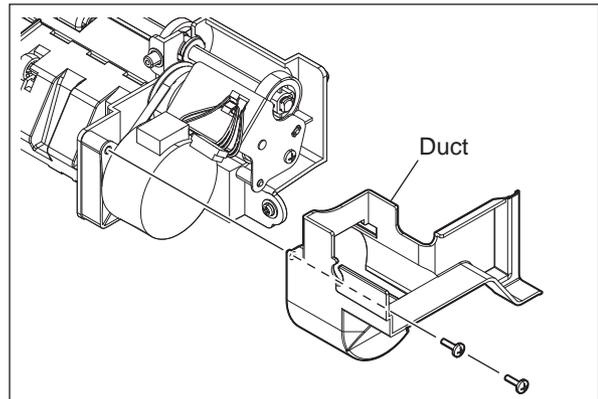
Fig. 4-359

(3) Release the harness from the harness clamp.
Remove 1 screw and take off the motor cover.

Notes:

When installing the motor cover, engage the shaft of the motor cover and the bearing of the gear.
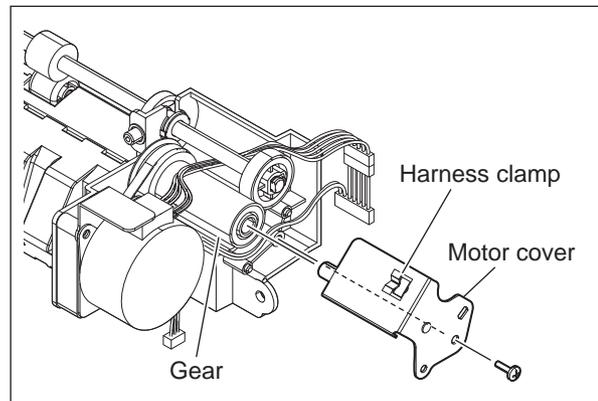
Fig. 4-360

(4) Disconnect 1 connector and take off the exit motor and the heat sink.

Notes:

When installing the exit motor, make sure to put on the timing belt.
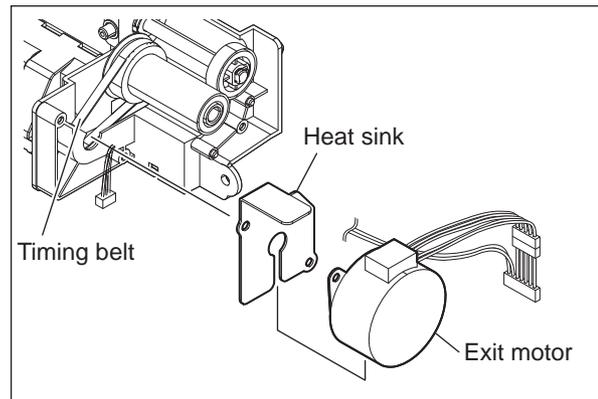
Fig. 4-361

4.14.4 Offset gate home position sensor (S24)

(1) Take off the paper exit unit.
(P. 4-125 "4.14.2 Paper exit unit")

(2) Disconnect 1 connector, release the latch and take off the offset gate home position sensor.
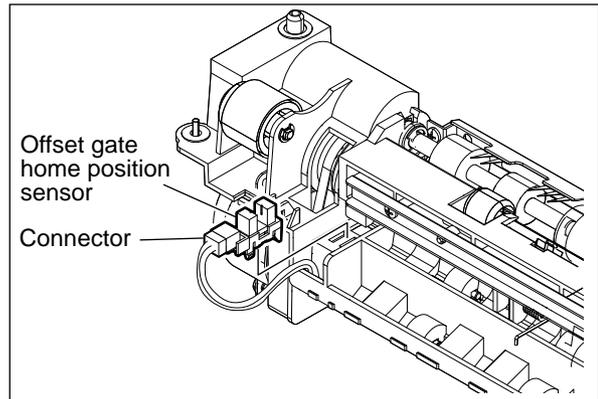
Fig. 4-362

4.14.5 Exit roller

(1) Take off the paper exit unit.
(P. 4-125 "4.14.2 Paper exit unit")

(2) Remove 2 screws and take off the duct.
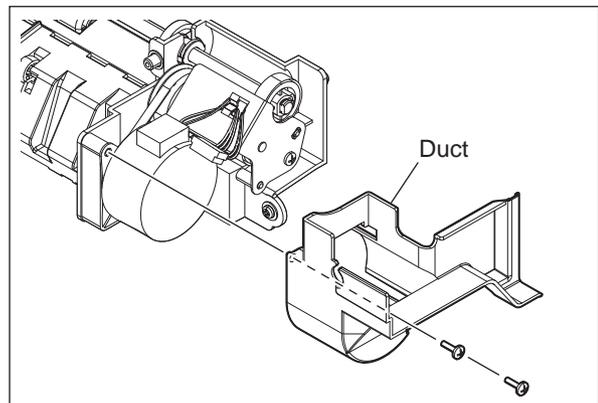
Fig. 4-363

(3) Release the harness from the harness clamp.
Remove 1 screw and take off the motor cover.

Notes:
When installing the motor cover, engage the shaft of the motor cover and the bearing of the gear.
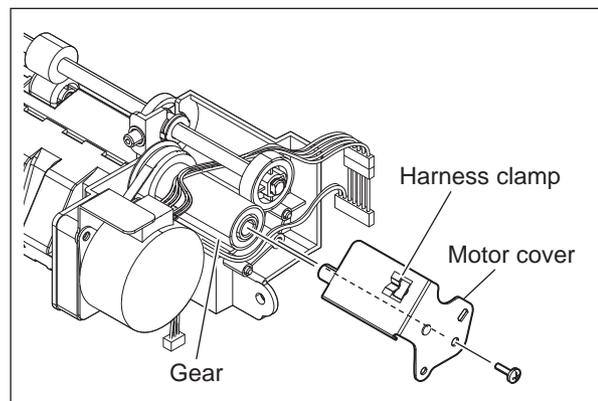
Fig. 4-364

(4) Remove 2 bushings and take off the roller unit by sliding it.
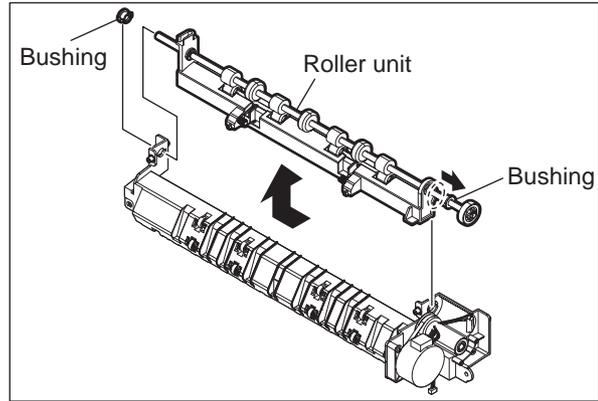
Fig. 4-365

(5) Remove 2 E-rings, 3 bushings and 1 gear, and take off the exit roller by sliding it to the direction of the arrow.

Notes:

Be careful in taking off the roller because 2 rollers and 2 springs on the lower part of the exit roller come off.
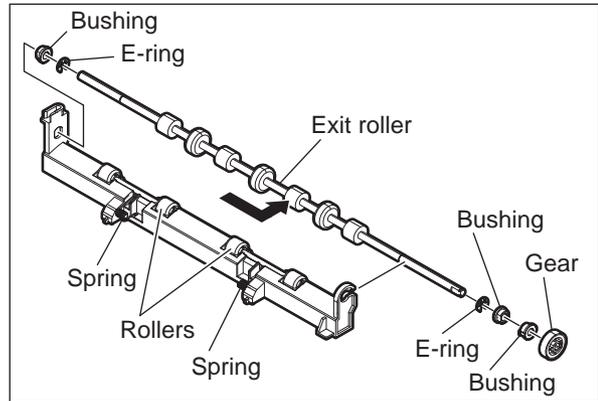
Fig. 4-366

4.14.6 Reverse motor (M14) (only installed for e-STUDIO356/456/506 / 357/457/507)

(1) Take off the reverse unit.
(📖 P. 4-124 "4.14.1 Reverse unit (only installed for e-STUDIO356/456/506 / 357/457/507)")

(2) Release the harness from the harness clamp.

(3) Disconnect 1 connector and remove 3 screws, and take off the motor unit.

Notes:
When installing the reverse motor, make sure to put on the timing belt.
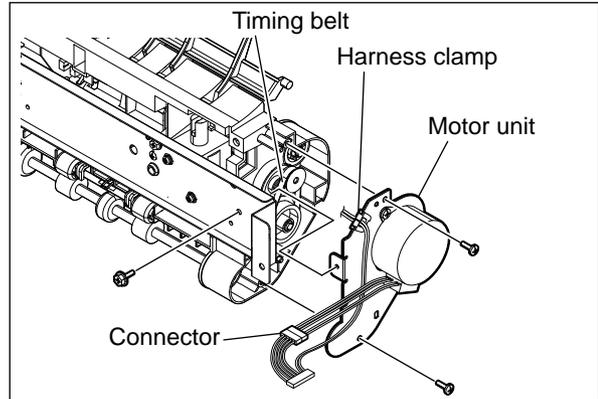
Fig. 4-367

(4) Remove 2 screws and take off the reverse motor.
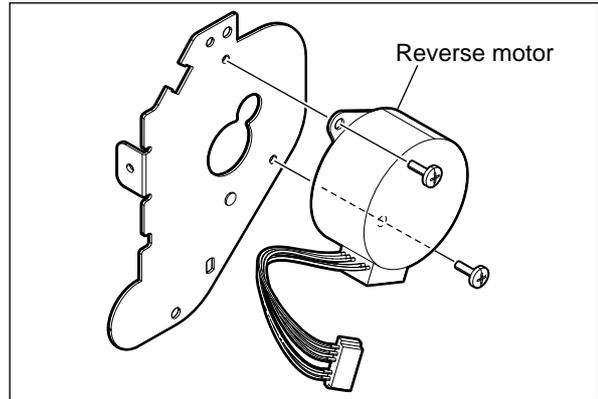
Fig. 4-368

4.14.7 Reverse gate solenoid (SOL1) (only installed for e-STUDIO356/456/506 / 357/457/507)

(1) Take off the reverse unit.
(📖 P. 4-124 "4.14.1 Reverse unit (only installed for e-STUDIO356/456/506 / 357/457/507)")

(2) Remove 3 screws and take off the plate.

Notes:
When installing, engage the slit of the reverse gate solenoid and the lever of the gate.
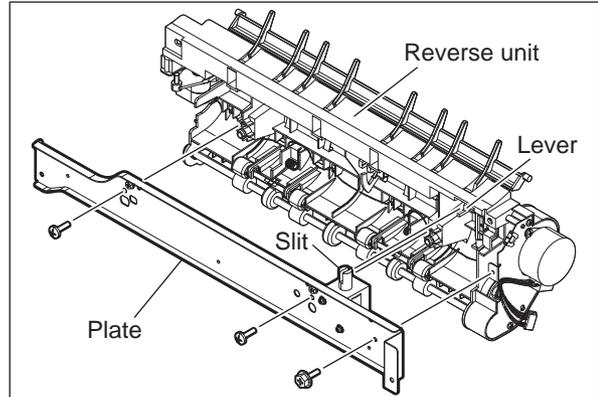
Fig. 4-369

(3) Release the harness from the harness clamp.
(4) Disconnect 1 connector and remove 2 screws, and take off the reverse gate solenoid.
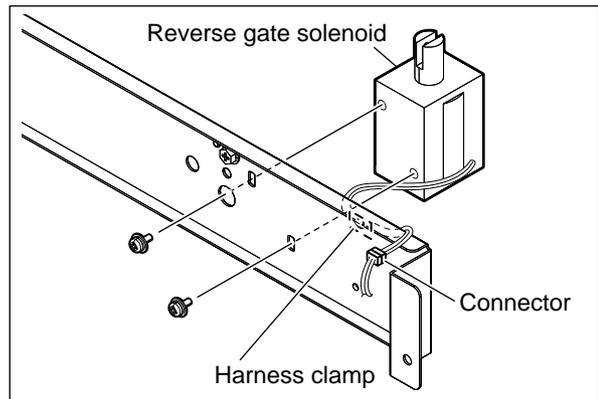
Fig. 4-370

Notes:
When installing the solenoid, check if the solenoid is installed at the center of the scale. (The scale is longer in the center.).
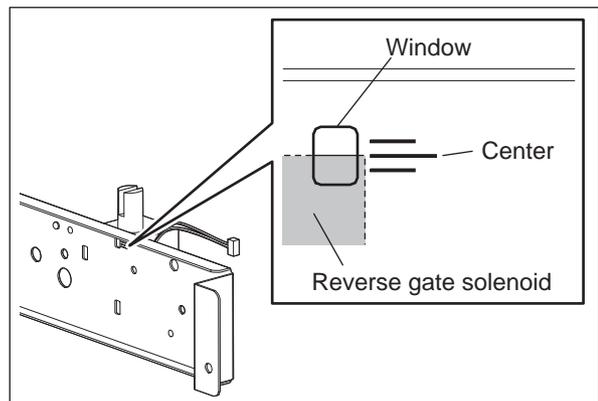
Fig. 4-371

4.14.8 Reverse sensor (S23) (only installed for e-STUDIO356/456/506 / 357/457/507)

(1) Take off the reverse unit.
(P. 4-124 "4.14.1 Reverse unit (only installed for e-STUDIO356/456/506 / 357/457/507)")

(2) Remove 3 screws and take off the plate.

Notes:
When installing, engage the slit of the reverse gate solenoid and the lever of the gate.
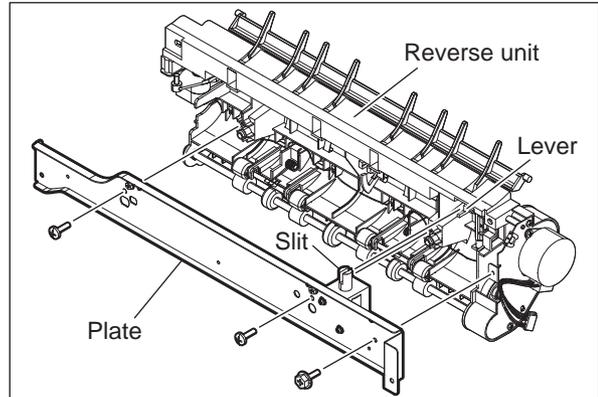
Fig. 4-372

(3) Disconnect 1 connector, release the latch, and take off the reverse sensor.
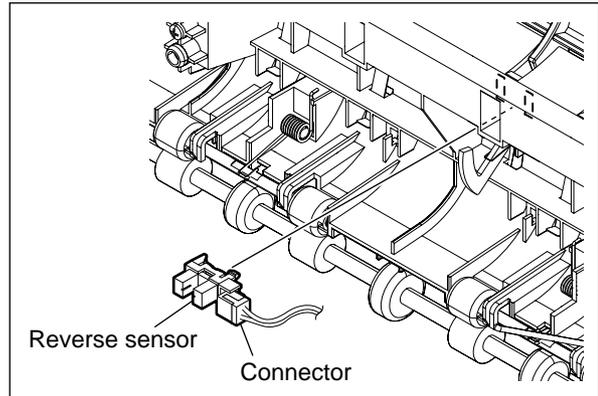
Fig. 4-373

4.14.9 Offset gate motor (M13) (only installed for e-STUDIO356/456/506 / 357/457/507)

(1) Take off the reverse unit.
(P. 4-124 "4.14.1 Reverse unit (only installed for e-STUDIO356/456/506 / 357/457/507)")

(2) Disconnect 1 connector, remove 2 screws, and take off the offset gate motor.
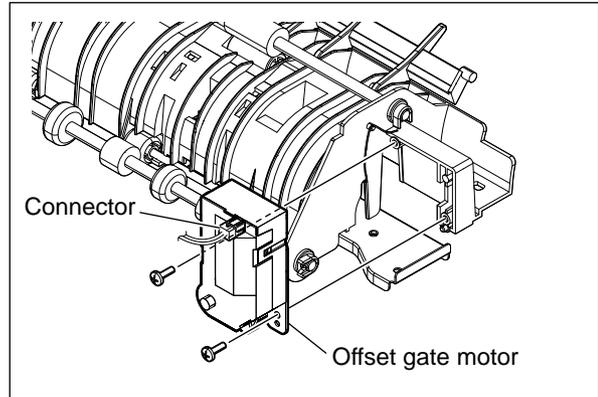
Fig. 4-374

4.14.10 Reverse roller (only installed for e-STUDIO356/456/506 / 357/457/507)

(1) Take off the reverse motor.
(P. 4-129 "4.14.6 Reverse motor (M14) (only installed for e-STUDIO356/456/506 / 357/457/507)"

(2) Remove 1 gear, 1 Clip, 2 springs and 2 bushings, and take off the reverse roller.
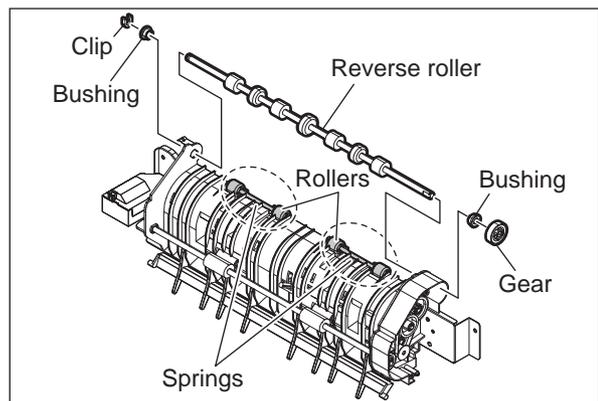
Fig. 4-375

4.14.11 Upper transport roller (only installed for e-STUDIO356/456/506 / 357/457/507)

(1) Take off the reverse motor.
(📖 P. 4-129 "4.14.6 Reverse motor (M14) (only installed for e-STUDIO356/456/506 / 357/457/507)")

(2) Remove 1 gear, 1 clip and 2 bushings, and take off the upper transport roller.
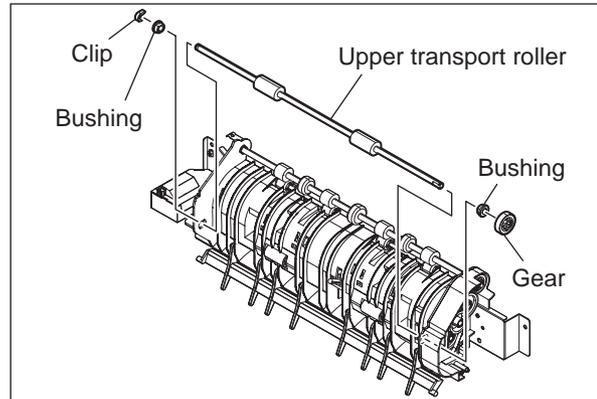
Fig. 4-376

4.15 AUTOMATIC DUPLEXING UNIT (ADU)

4.15.1 Automatic Duplexing Unit (ADU)

(1) Take off the right rear cover-1 and the right rear cover-2.
(📖 P. 4-6 "4.1.13 Right rear cover-1 / Right rear cover-2")

(2) Open the ADU.

(3) Disconnect 2 connectors and remove 1 screw.

   Notes:

     When fixing the screw, connect the ground wire.
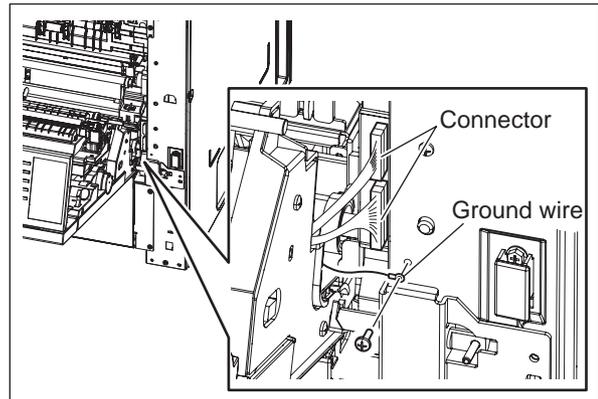
Fig. 4-377

(4) Slid the lever to the direction of the arrow.
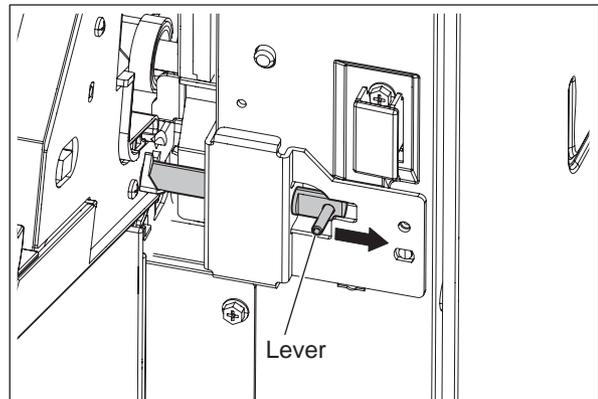
Fig. 4-378

(5) Remove 1 screw.
Slid and take off the fixing band, and then take off the ADU to the direction of the arrow.
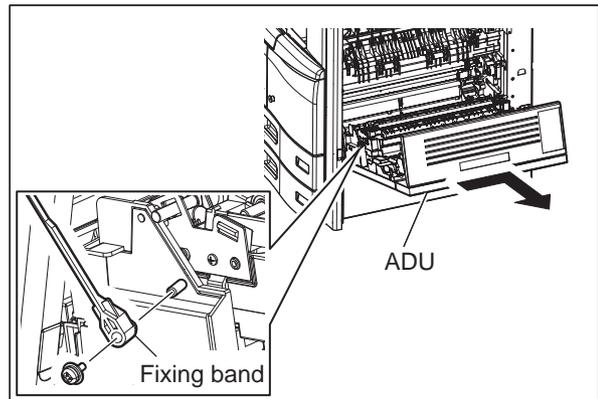
Fig. 4-379

Notes:

After removing the ADU, attach the fixing band to the holder as shown in the figure.

Fixing band
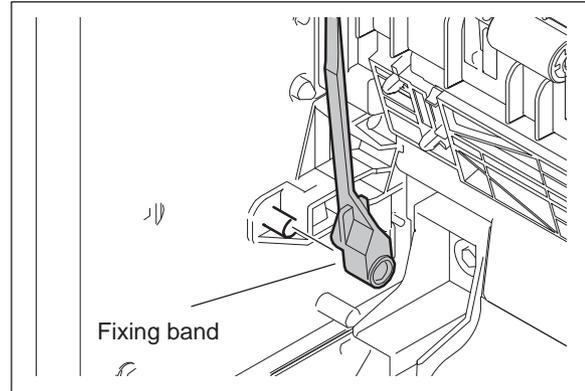
Fig. 4-380

4.15.2 ADU entrance sensor (S11)

(1) Take off the ADU.
(📖 P. 4-134 "4.15.1 Automatic Duplexing Unit (ADU)")

(2) Remove 4 screws, disconnect 1 connector, and then take off the ADU upper guide.

Connector

ADU upper guide
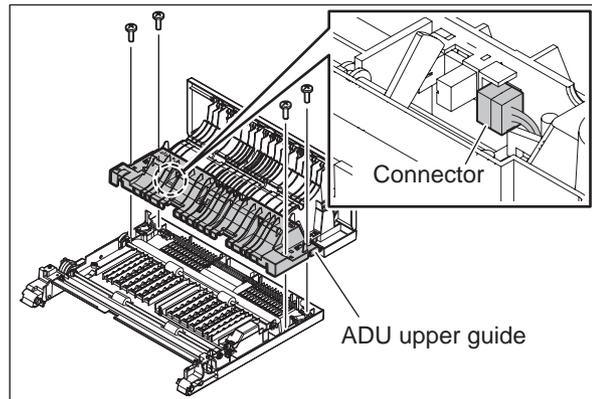
Fig. 4-381

(3) Release the latches and take off the ADU entrance sensor.

ADU entrance sensor

Fig. 4-382

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
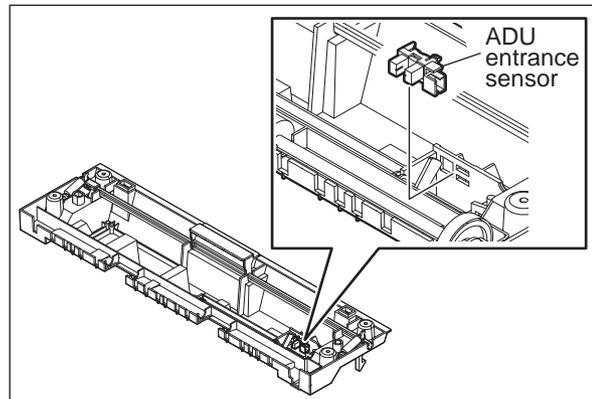
4.15.3 ADU exit sensor (S10)

(1) Take off the ADU.
(📖 P. 4-134 "4.15.1 Automatic Duplexing Unit (ADU)").

(2) Remove 4 screws and take off the 2 brackets.

(3) Take off the transfer unit.
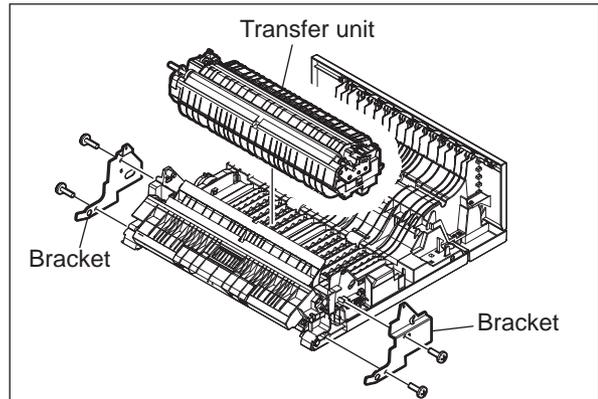
Fig. 4-383

(4) Disconnect 1 connector, remove 2 screws and take off the bypass feed unit.
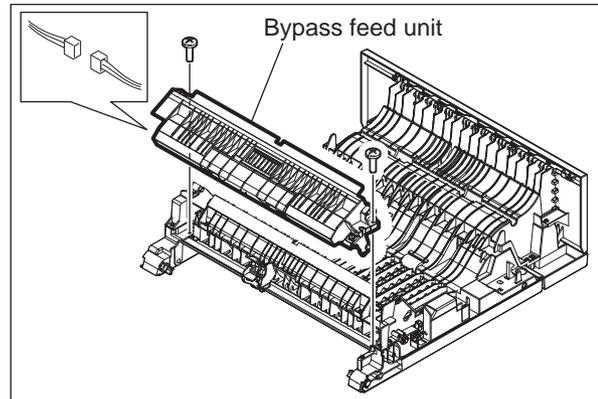
Fig. 4-384

(5) Remove 4 screws and the take off the ADU lower guide.
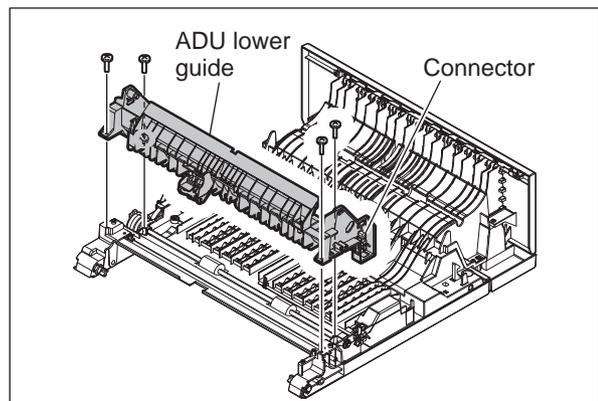
Fig. 4-385

(6) Disconnect 1 connector, release the latches and take off the ADU exit sensor.

ADU exit sensor
Connector
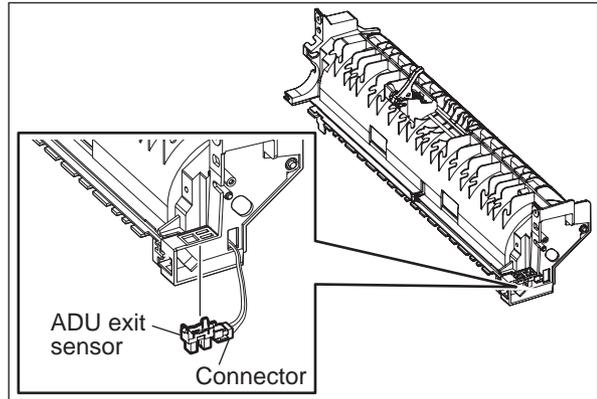
Fig. 4-386

4.15.4 ADU motor (M5)

(1) Take off the rear cover.
(📖 P. 4-3 "4.1.6 Rear cover")

(2) Disconnect 1 connector and remove 2 screws, and take off the ADU motor unit.

ADU motor unit

Connector
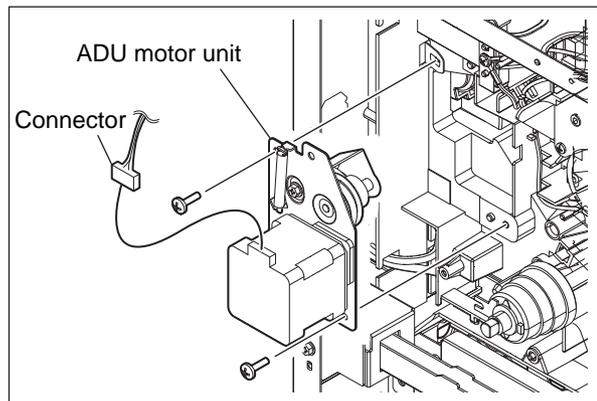
Fig. 4-387

(3) Loosen 1 screw.

Notes:

When installing the ADU motor, install the ADU motor unit to the equipment, then close the Automatic Duplexing Unit before tightening this screw.

Screw

Fig. 4-388

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
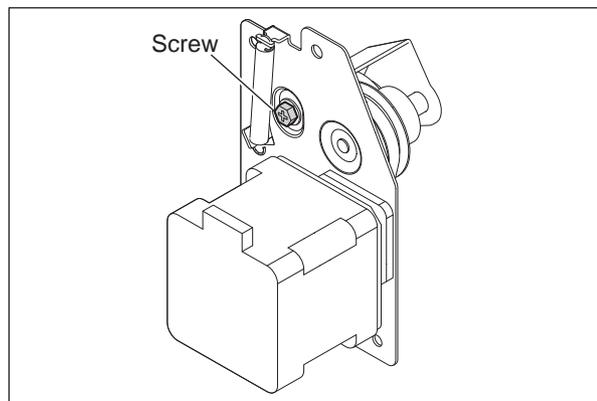
(4) Remove 2 screws and take off the ADU motor.

ADU motor
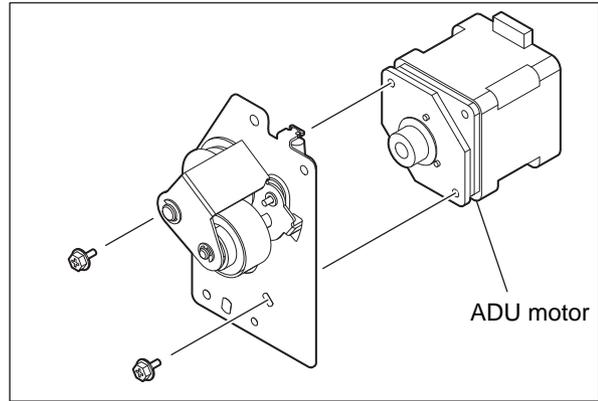
Fig. 4-389

4.15.5 ADU opening / closing switch (SW5)

(1) Take off the right rear cover-1 and the right rear cover-2.
(📖 P. 4-6 "4.1.13 Right rear cover-1 / Right rear cover-2")

(2) Disconnect 1 connector and remove 1 screw, and then take off the switch unit.

Connector

Switch unit
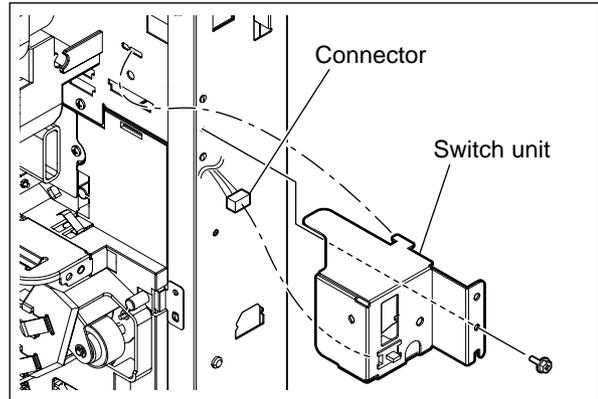
Fig. 4-390

(3) Take off the ADU opening/closing switch with pressing the both sides of it.

ADU opening/closing switch
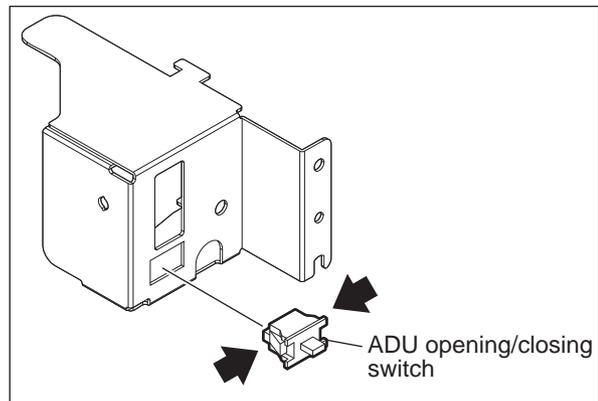
Fig. 4-391

4.15.6 ADU clutch (CLT1)

(1) Take off the ADU.
    (📖 P. 4-134 "4.15.1 Automatic Duplexing
    Unit (ADU)")
(2) Remove 4 screws and take off 2 brackets.
(3) Take off the transfer unit.
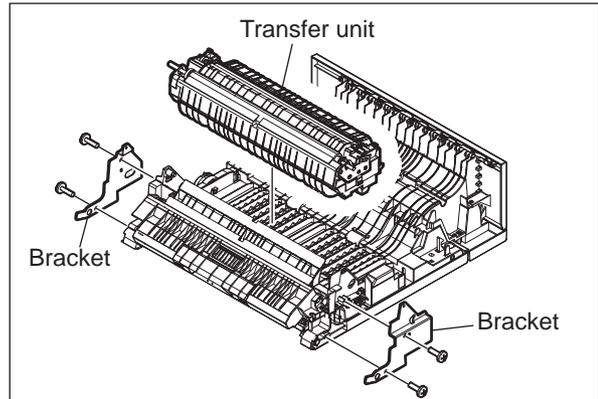
Fig. 4-392

(4) Disconnect 1 connector, remove 2 screws
    and take off the bypass feed unit.
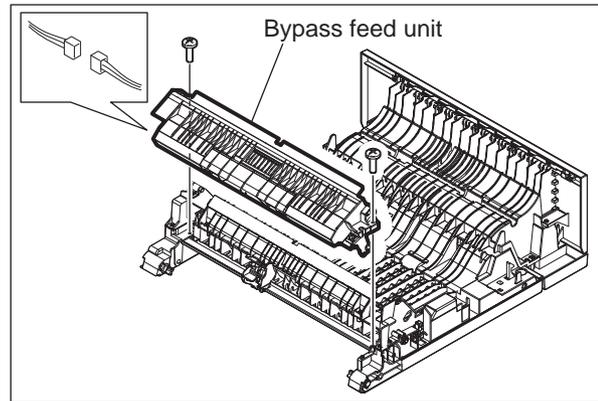
Fig. 4-393

(5) Remove 4 screws and the take off the ADU
    lower guide.

Fig. 4-394

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
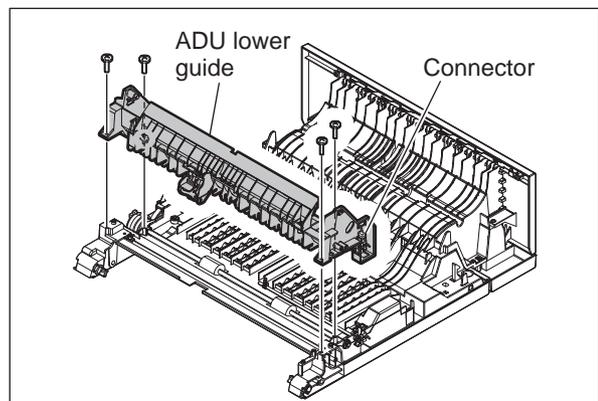
(6) Remove 1 clip and take off the gear unit.
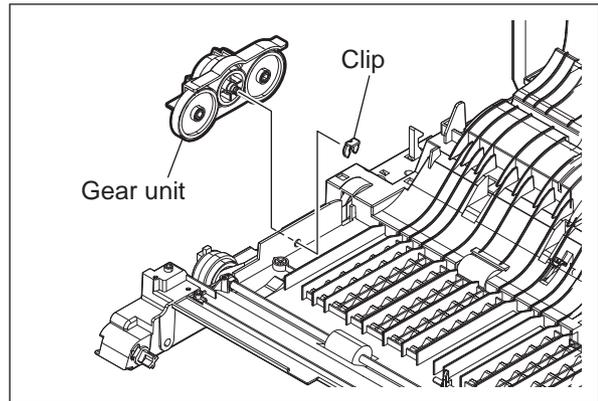
Fig. 4-395

(7) Remove 1 E-ring and 1 bushing, and then pull up the ADU lower transport roller by sliding it to the direction of the arrow.
(8) Take off the ADU clutch.
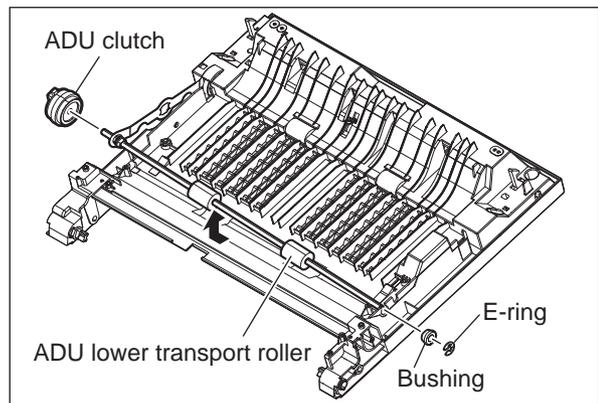
Fig. 4-396

Notes:
When installing the ADU clutch, fit the guide of the ADU cover in the groove of the ADU clutch.
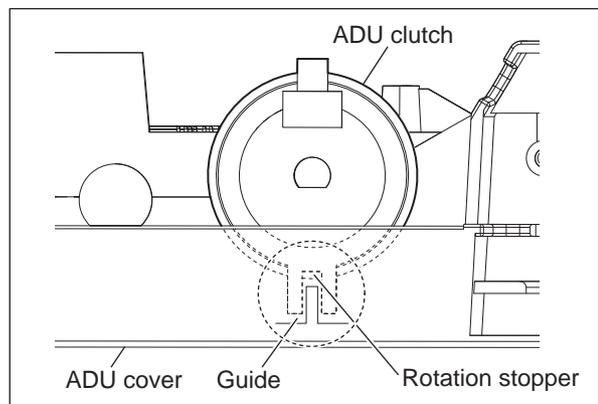
Fig. 4-397

4.15.7 ADU lower transport roller

(1) Take off the ADU clutch.
(📖 P. 4-139 "4.15.6 ADU clutch (CLT1)")

(2) Remove the ground plate, 1 E-ring and 1 bushing, and then take off the ADU lower transport roller.
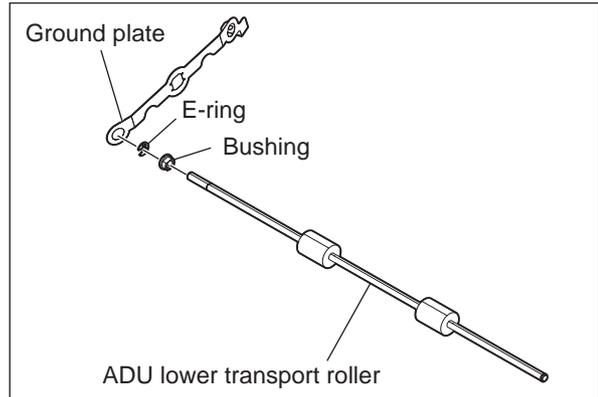
Fig. 4-398

4.15.8 ADU upper transport roller

(1) Take off the ADU.
(📖 P. 4-134 "4.15.1 Automatic Duplexing Unit (ADU)")

(2) Remove 4 screws and take off 2 brackets.
(3) Take off the transfer unit.
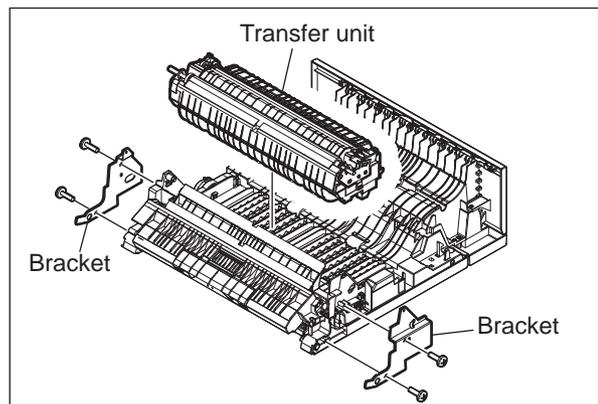
Fig. 4-399

(4) Disconnect 1 connector, remove 2 screws and take off the bypass feed unit.
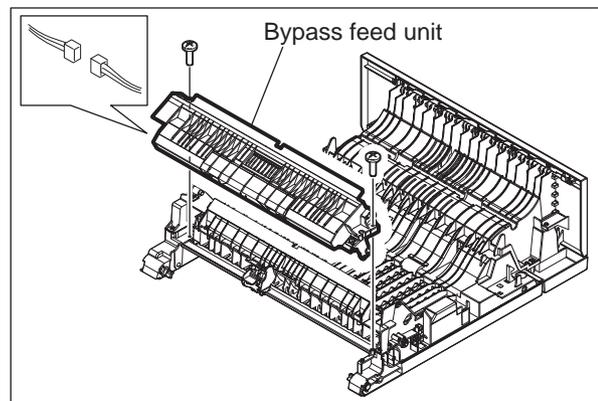
Fig. 4-400

(5)　Remove 4 screws and the take off the ADU lower guide.
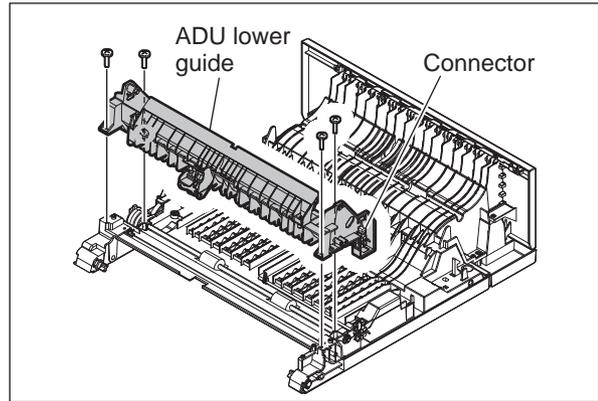
Fig. 4-401

(6)　Remove 1 clip and take off the gear unit.
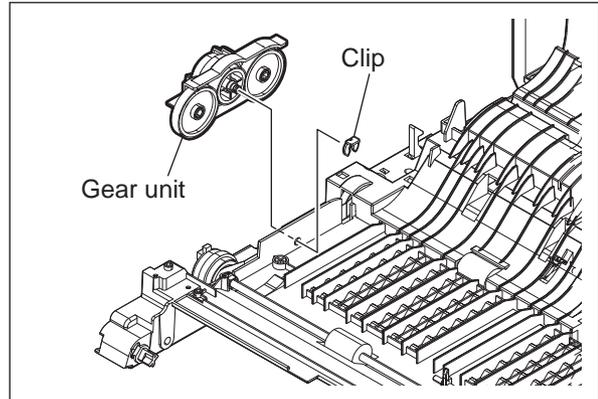
Fig. 4-402

(7)　Disconnect 1 connector and remove 4 screws, and the take off the ADU upper guide.
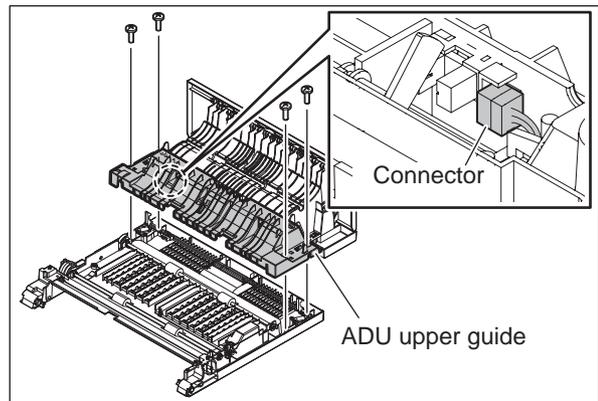
Fig. 4-403

(8)　Remove 2 clips, 1 bushing, 1 gear, 1 pin and the ground plate. Then take off the ADU upper transport roller.

Notes:
When installing the gear, insert the pin in the roller shaft and fit it in the groove of the gear.
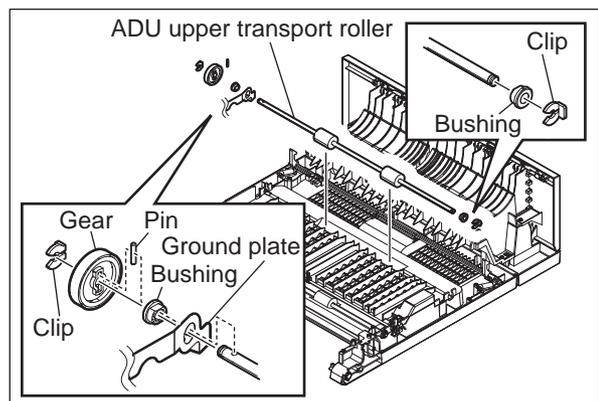
Fig. 4-404

4.16 Installation and Replacement of Options

Important:
- Be sure to turn the power OFF and unplug the power cable before installing and removing of options.

4.16.1 MR-3021/3022/3028 (Reversing Automatic Document Feeder (RADF))

(1) Turn the power OFF and unplug the power cable.
(2) Remove 1 screw and take off the connector cover.

Connector cover
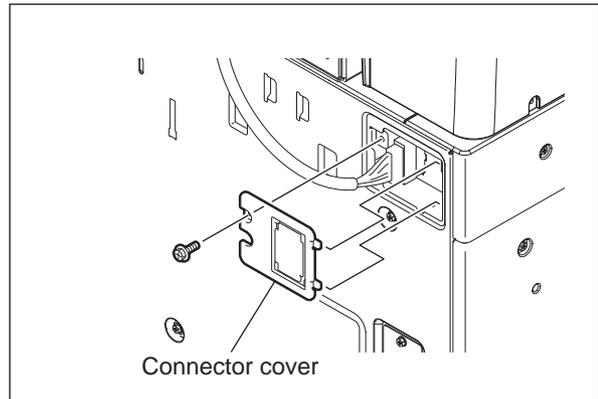
Fig. 4-405

(3) Disconnect the connector.

Connector
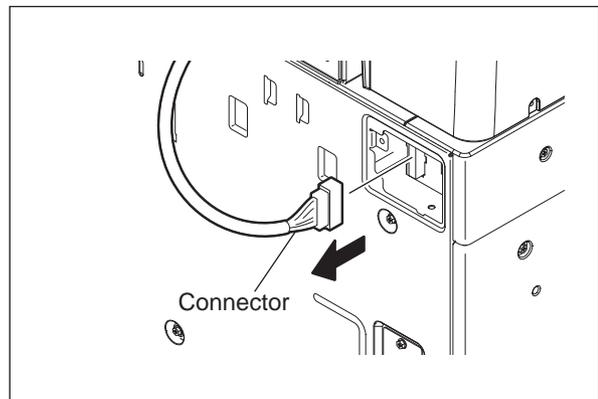
Fig. 4-406

(4) Remove 2 screws and take off the bracket on the rear side.

Bracket
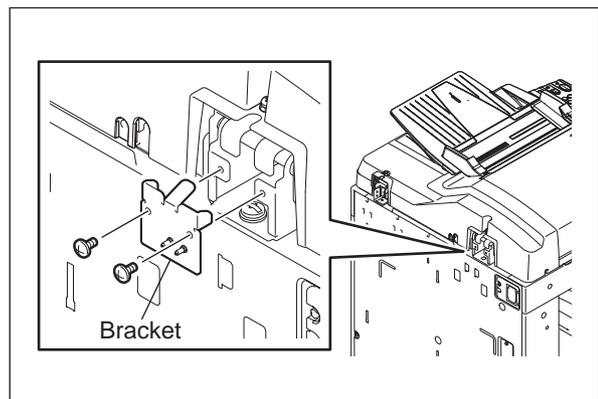
Fig. 4-407

(5) Remove 1 screw and 1 washer on the rear side.
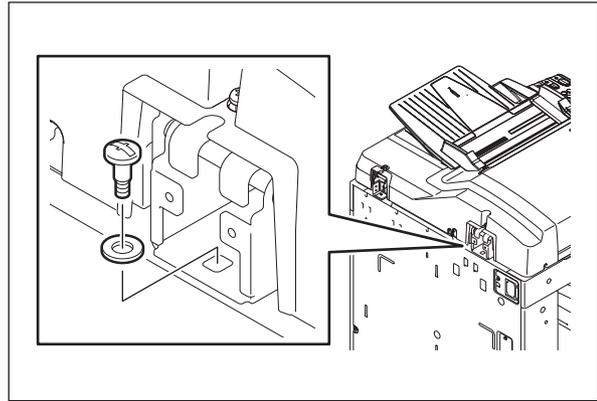
Fig. 4-408

(6) Remove 1 screw on the rear side.
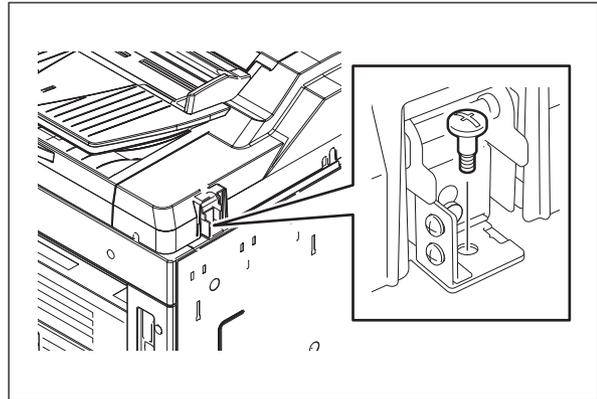
Fig. 4-409

(7) Open the RADF.
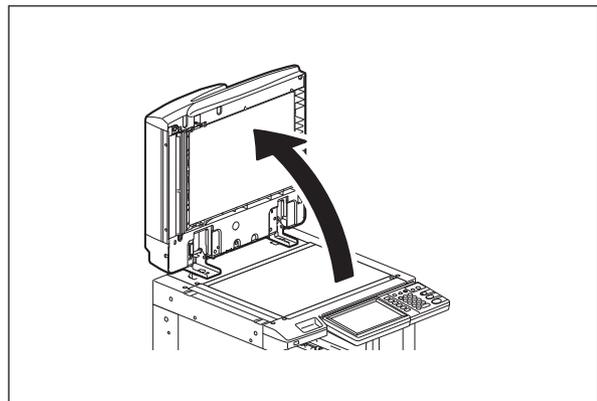
Fig. 4-410

(8) Remove 2 screws on the front side.
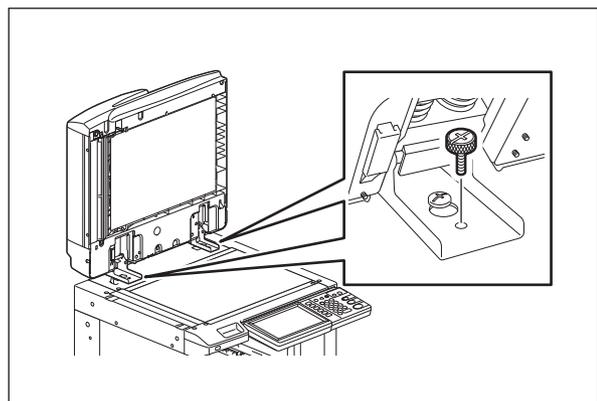
Fig. 4-411

(9) Slide the RADF backward and take it off by lifting it up.
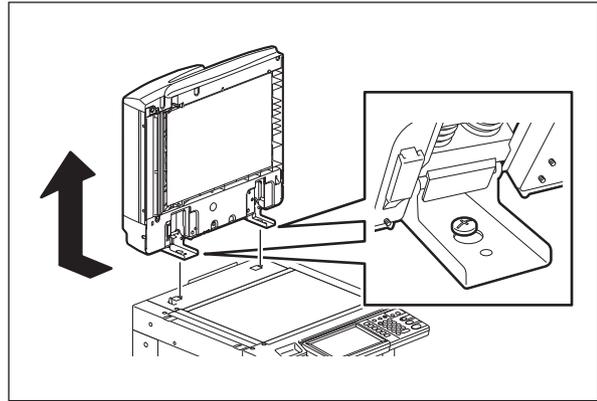
Fig. 4-412

4.16.2 KD-1025 (Paper Feed Pedestal (PFP))

(1) Turn the power OFF and unplug the power cable.
(2) Remove 1 screw and take off the connector cover.

Connector cover
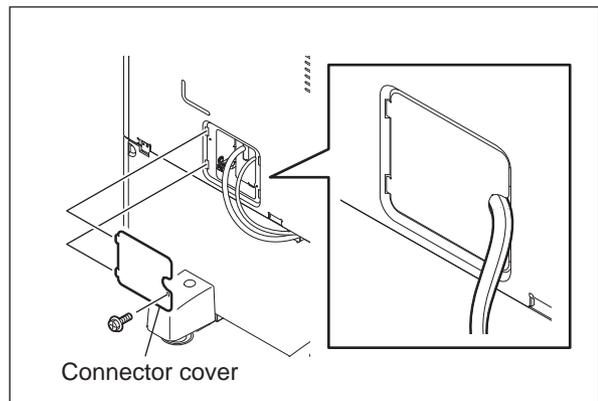
Fig. 4-413

(3) Remove 1 screw and the ground wire, and then disconnect 2 connectors (3 connectors if the optional damp heater is installed).
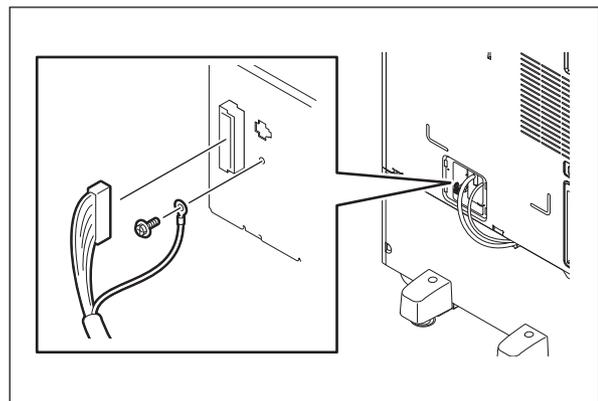
Fig. 4-414

(4) Remove 1 screw each from the lower drawer of the equipment and the PFP upper drawer. Then take off the stoppers.

(5) Take off the lower drawer of the equipment and PFP upper drawer.

Drawer
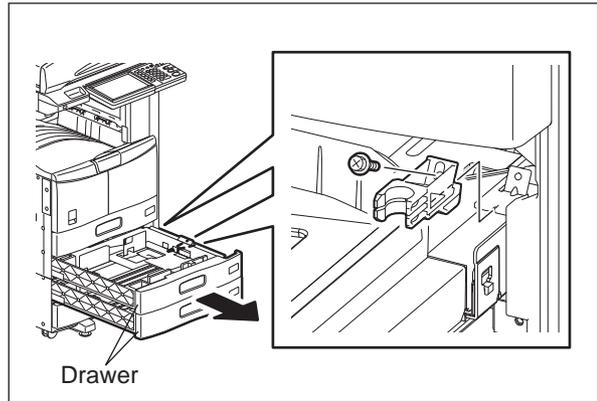
Fig. 4-415

(6) Remove 3 screws and take off 2 fixing brackets on the rear side.

Fixing bracket
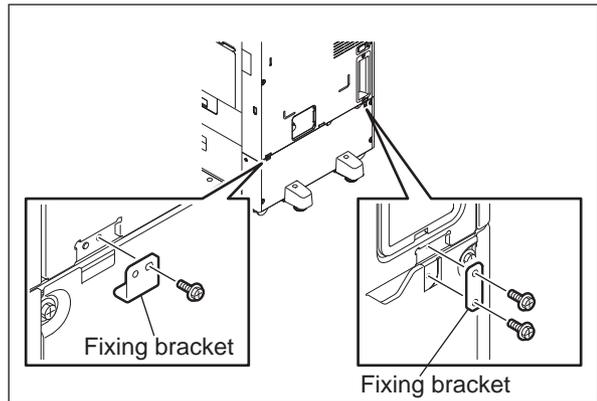
Fixing bracket

Fig. 4-416

(7) Remove 3 screws and take off 2 fixing brackets on the front side.

Fixing bracket

Fixing bracket
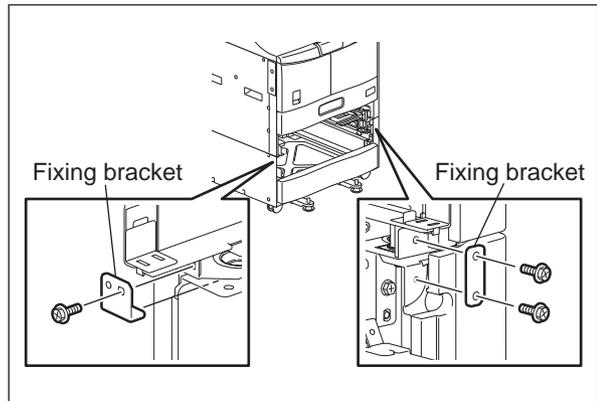
Fig. 4-417

(8) Lift up the equipment and take off the PFP.
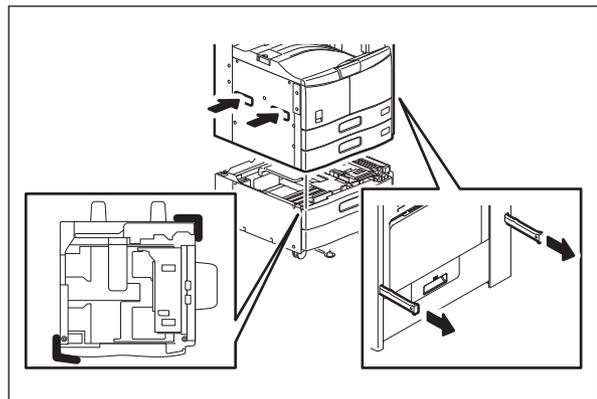
Fig. 4-418

4.16.3 KD-1026 (Large Capacity Feeder (LCF))

(1) Turn the power OFF and unplug the power cable.
(2) Remove 1 screw and take off the connector cover.

Connector cover
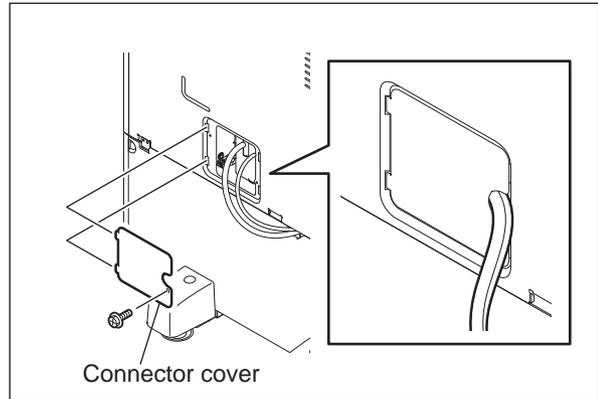
Fig. 4-419

(3) Remove 1 screw and the ground wire, and then disconnect 2 connectors.
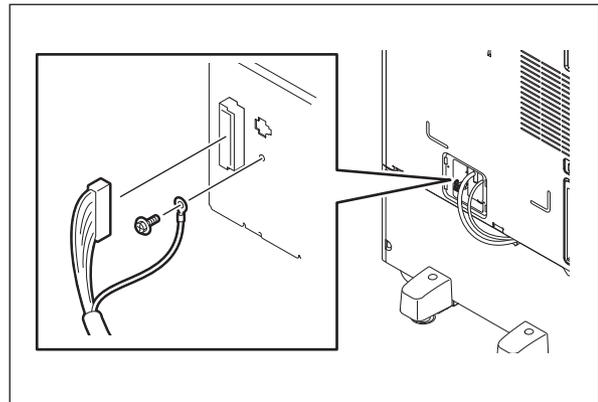
Fig. 4-420

(4) Remove 1 screw and then take off the stopper from the lower drawer of the equipment.
(5) Take off the lower drawer of the equipment.

Stopper

Drawer

Fig. 4-421

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DISASSEMBLY AND REPLACEMENT
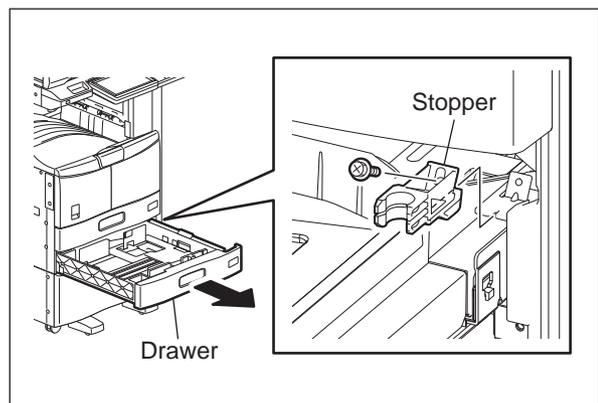
(6) Pull out the LCF drawer.

LCF drawer
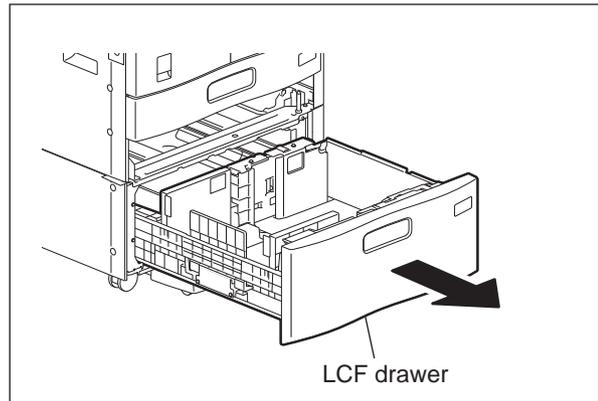
Fig. 4-422

(7) Remove 3 screws and take off 2 fixing brackets on the rear side.

Fixing bracket
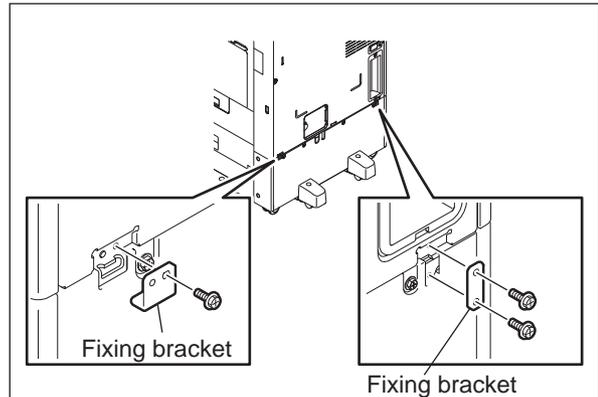
Fixing bracket

Fig. 4-423

(8) Remove 3 screws and take off 2 fixing brackets on the front side.

Fixing bracket

Fixing bracket
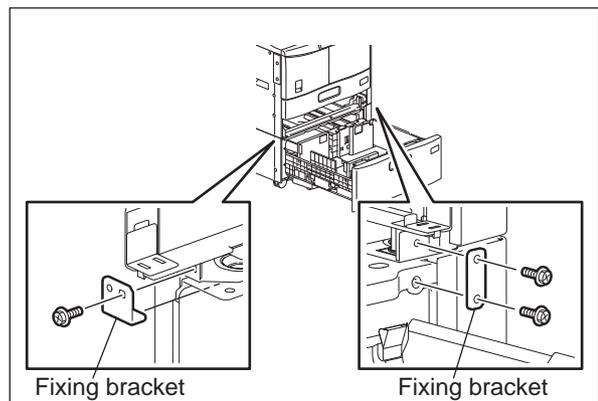
Fig. 4-424

(9) Lift up the equipment and take off the LCF.
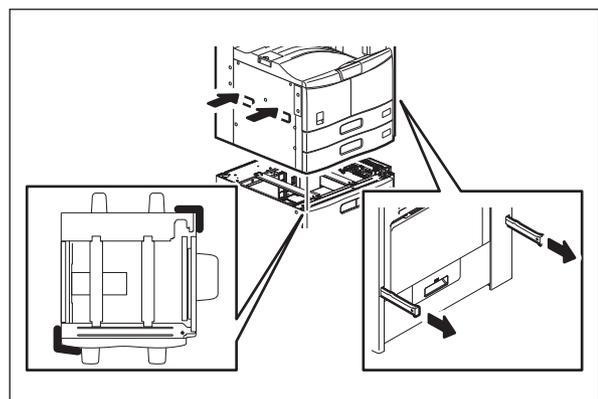
Fig. 4-425

4.16.4 MJ-1032 (Finisher)

(1) Turn the power OFF and unplug the power cable.
(2) Take off the connector cover [1].
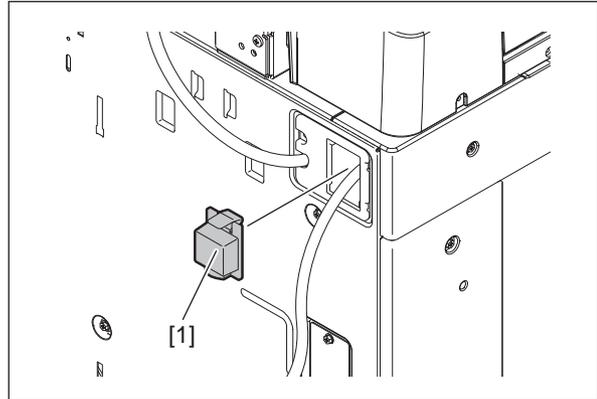
Fig. 4-426

(3) Disconnect the connector [1].
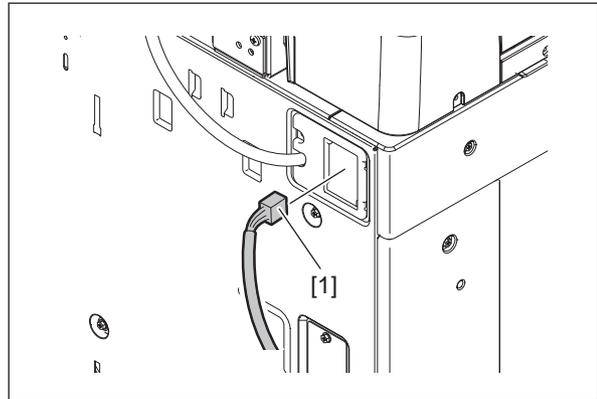
Fig. 4-427

(4) Open the front cover [1].
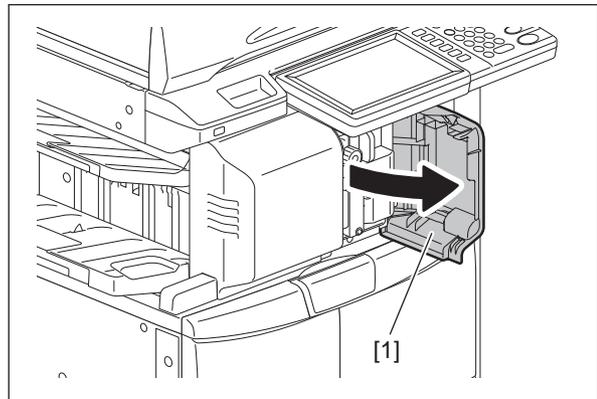
Fig. 4-428

(5)   Pull out the finisher from the equipment.
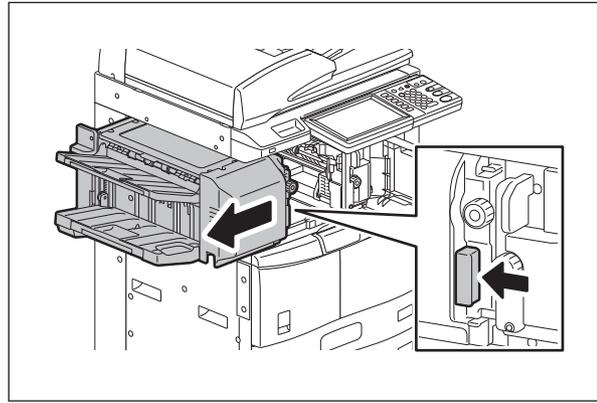
Fig. 4-429

(6)   Remove 1 screw and take off the bracket [1].

[1]
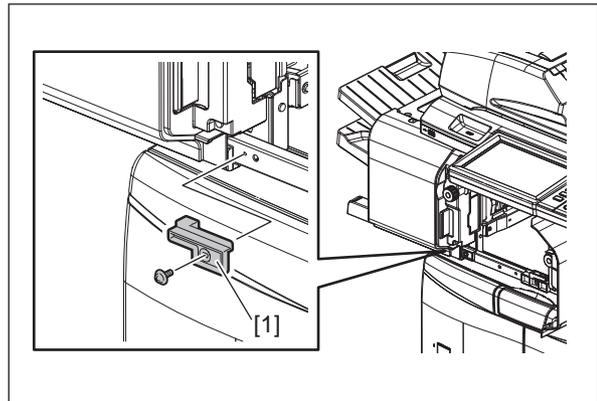
Fig. 4-430

(7)   Insert the finisher to the equipment.
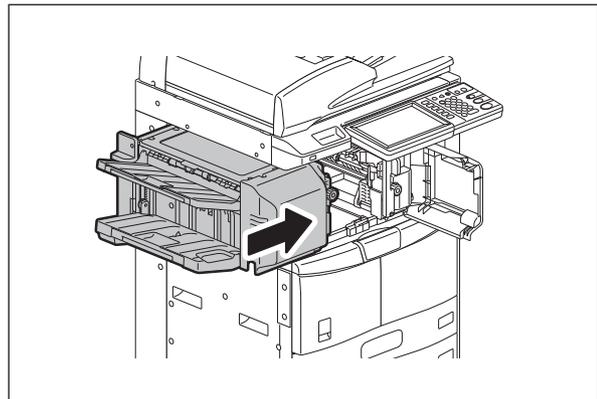
Fig. 4-431

(8) Remove 3 screws and take off the cover [1].

[1]
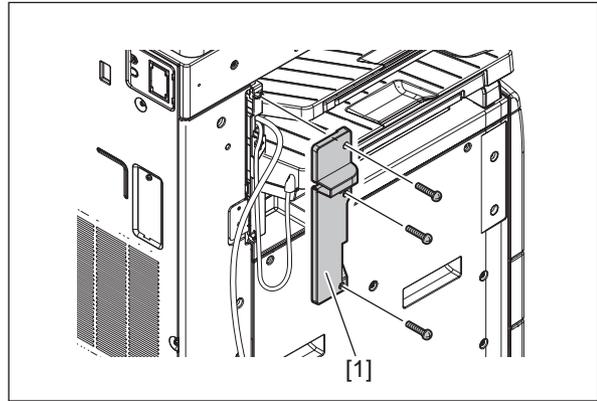
Fig. 4-432

(9) Remove 1 screw.
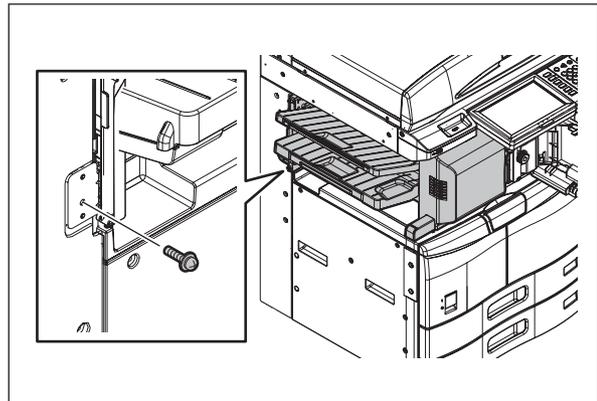
Fig. 4-433

(10) Take off the finisher from the equipment.

Fig. 4-434

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DISASSEMBLY AND REPLACEMENT
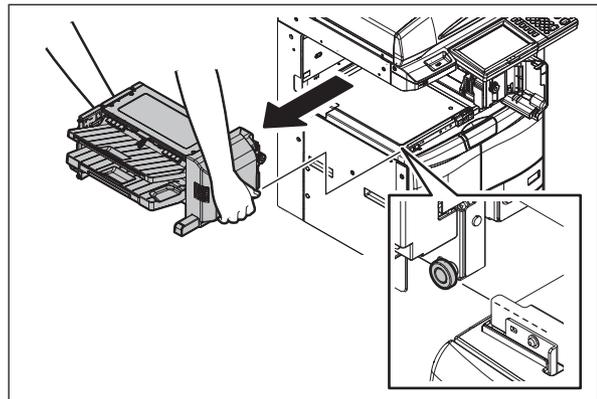
4.16.5 MJ-1033 (Finisher)

(1) Turn the power OFF and unplug the power cable.

(2) Take off the connector cover [1].
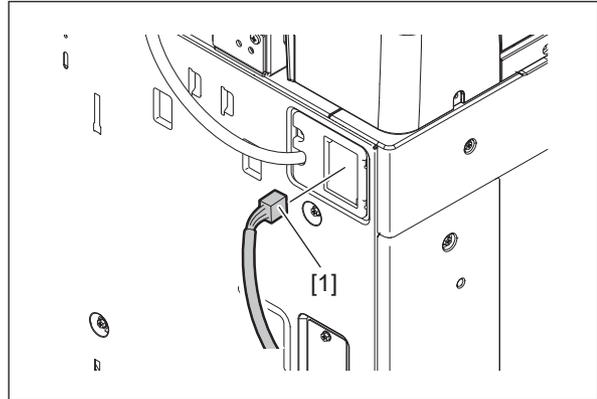
Fig. 4-435

(3) Disconnect the connector [1].
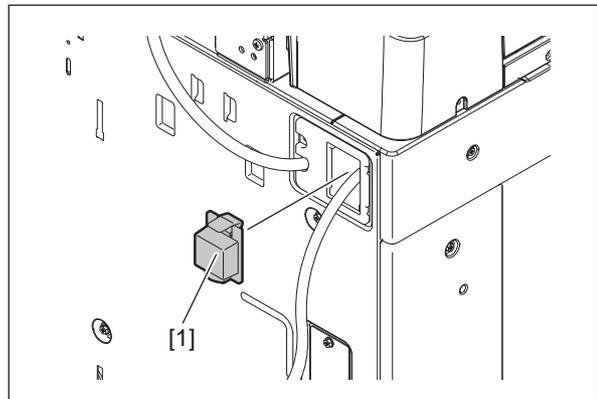
Fig. 4-436

(4) Open the front cover [1].
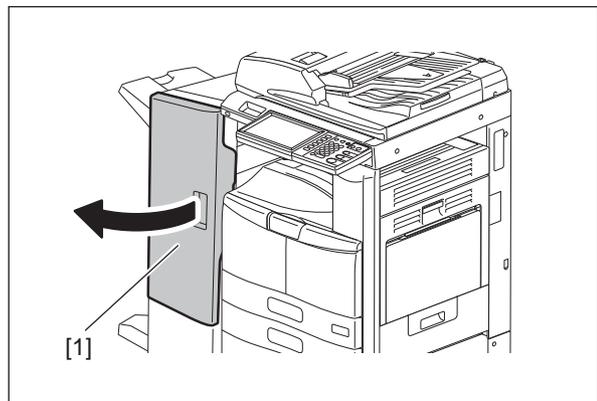
Fig. 4-437

(5) Remove 1 screw.
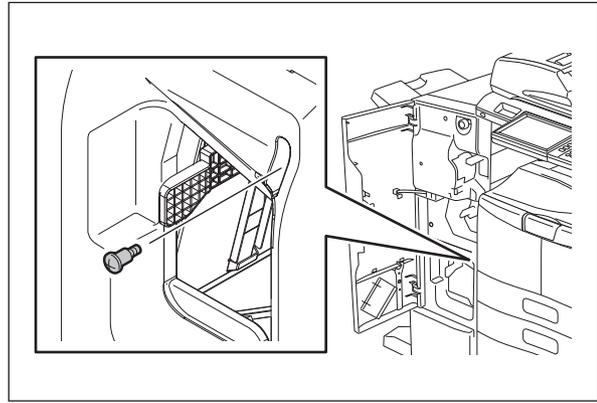
Fig. 4-438

(6) Close the front cover [1].
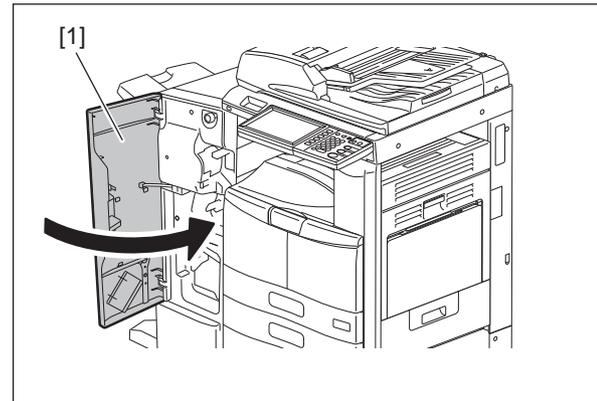
Fig. 4-439

(7) Remove 1 screw.
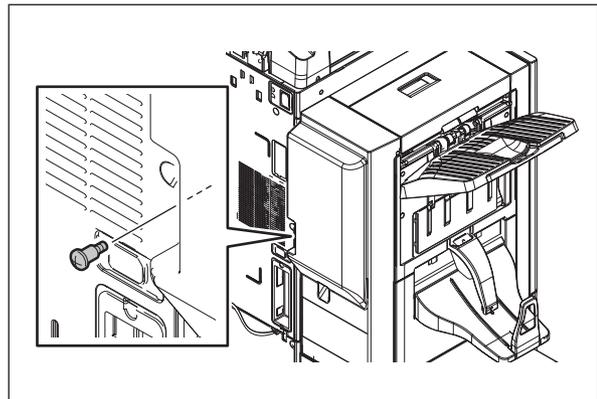
Fig. 4-440

(8) Pull out the finisher from the equipment.
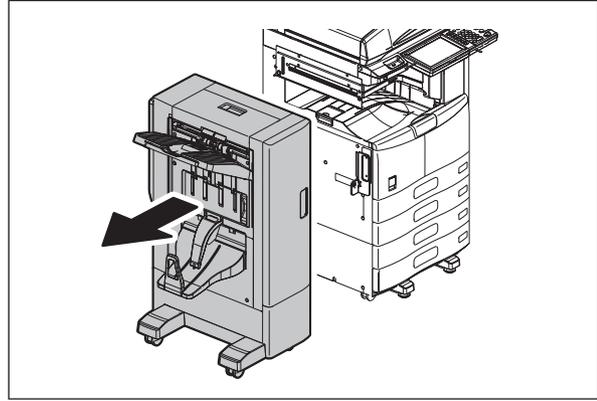
Fig. 4-441

4.16.6 MJ-1101/1107 (Finisher)

(1) Turn the power OFF and unplug the power cable.
(2) Take off the connector cover and disconnect the connector.

Connector cover

Connector
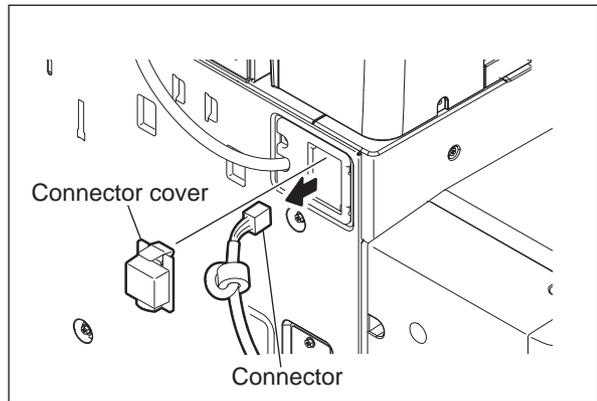
Fig. 4-442

(3) Open the front cover of the finisher.
(4) Remove 1 screw and take off the bracket.

Bracket
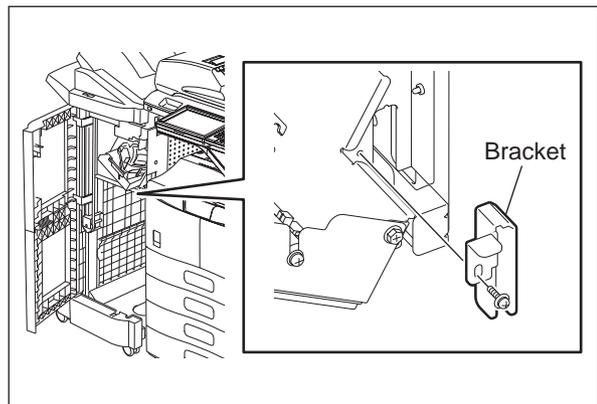
Fig. 4-443

(5) Pull out the fixing lever of the finisher. Then take off the Finisher.

Notes:
Be careful not to fell the finisher when moving the finisher unit only.

Lever
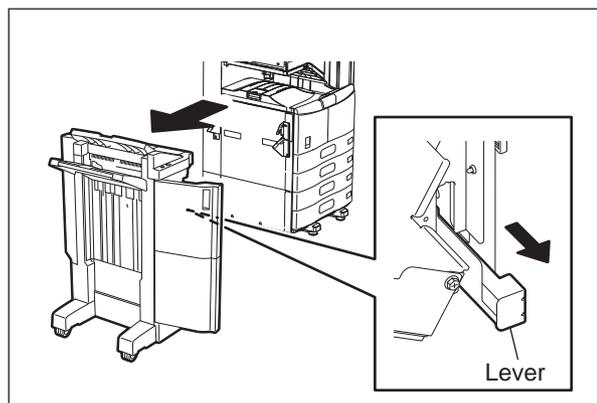
Fig. 4-444

4.16.7 MJ-1106/1108 (Finisher)

(1) Turn the power OFF and unplug the power cable.
(2) Take off the connector cover [1].
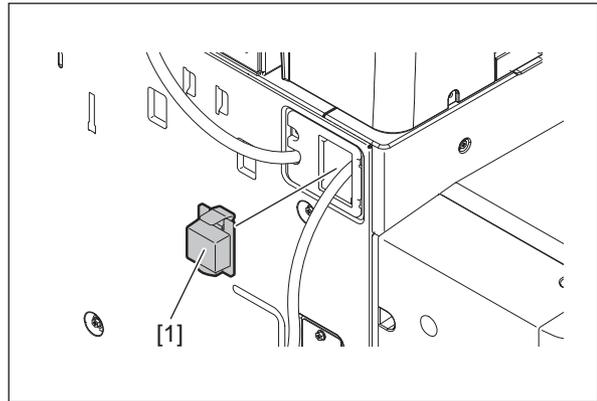
Fig. 4-445

(3) Disconnect the connector [1].
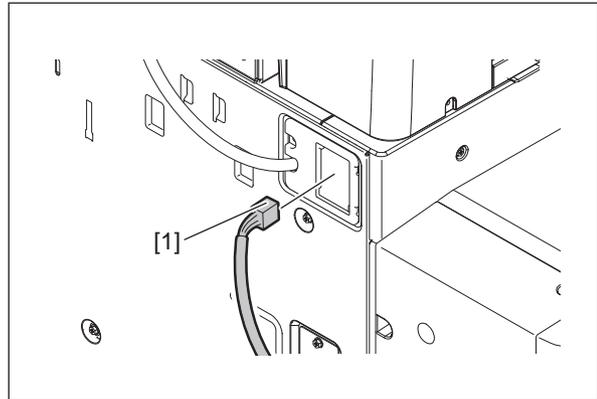
Fig. 4-446

(4) Open the front upper cover [1].
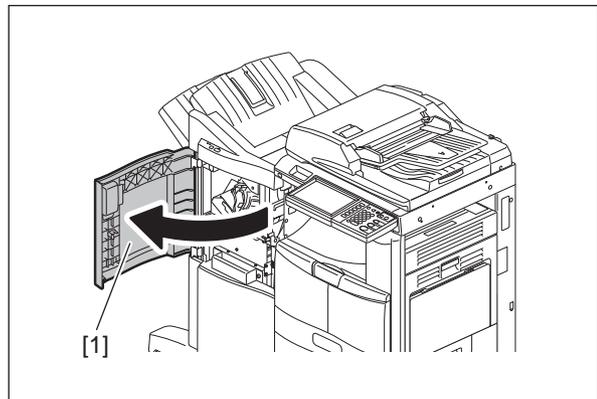
Fig. 4-447

(5) Remove 1 screw.

(6) Pull out the rail [1] from the equipment.
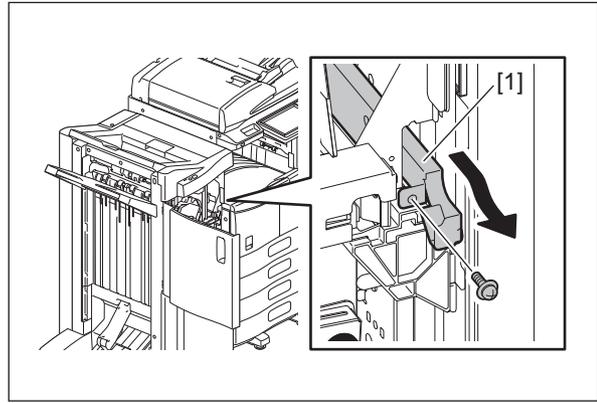
Fig. 4-448

(7) Attach the caster (front side) with 2 screws and fix it.
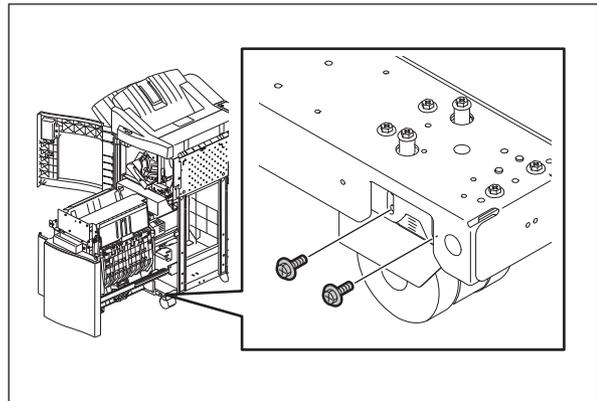
Fig. 4-449

(8) Pull out the finisher from the equipment.

Fig. 4-450

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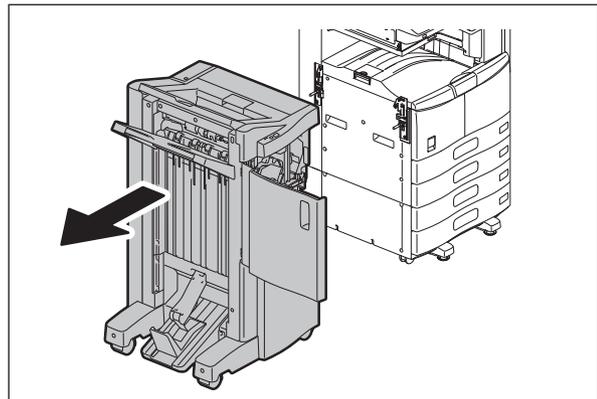
4.16.8 KN-2520 (Bridge unit)

(1) Turn the power OFF and unplug the power cable.
(2) Pull out the finisher from the equipment.
(3) Take off the right rear cover-1 and the right rear cover-2.
  📖 P. 4-6 "4.1.13 Right rear cover-1 / Right rear cover-2"
(4) Disconnect 1 connector.

Connector
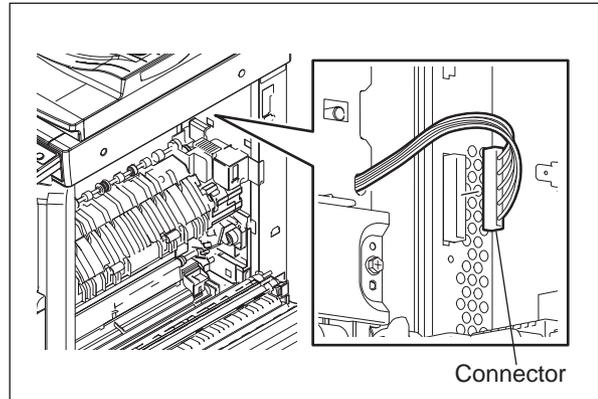
Fig. 4-451

(5) Remove 1 screw and take off the cover.

Cover
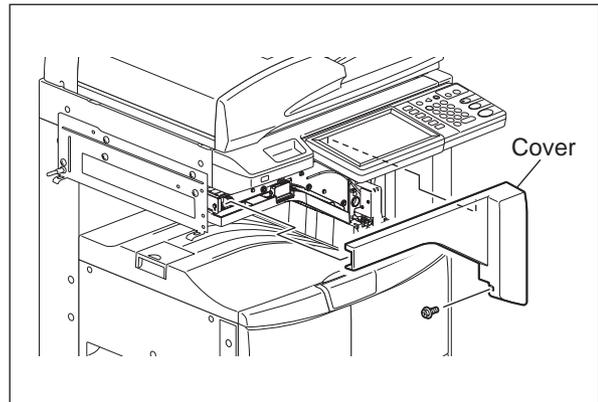
Fig. 4-452

(6) Remove 1 screw.
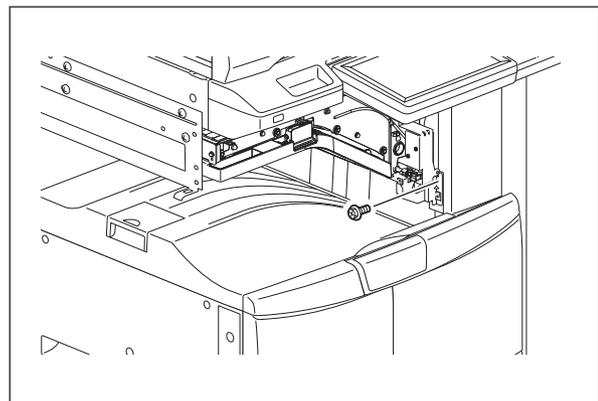
Fig. 4-453

(7)

- When MJ-1033 is installed; Remove 4 screws and take off the bracket.
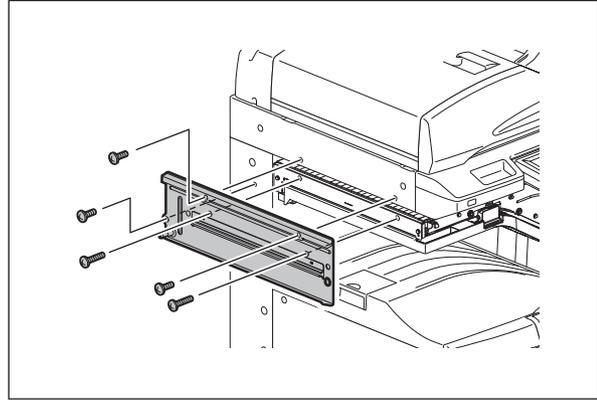
Fig. 4-454

- When MJ-1101/1107 is installed; Remove 4 screws and take off the bracket.
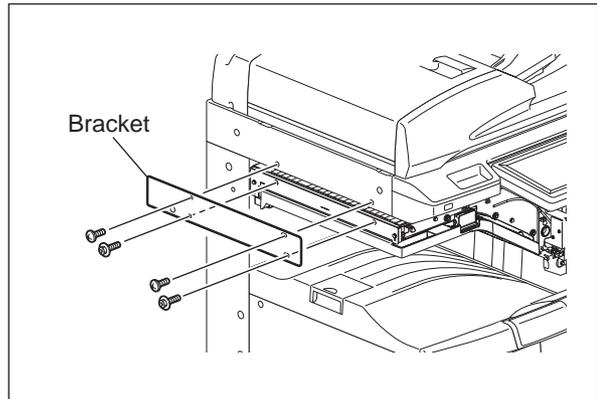
Bracket

Fig. 4-455

- When MJ-1106/1108 is installed; Remove 2 screws and take off the bracket [1].

[1]

Fig. 4-456

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DISASSEMBLY AND REPLACEMENT
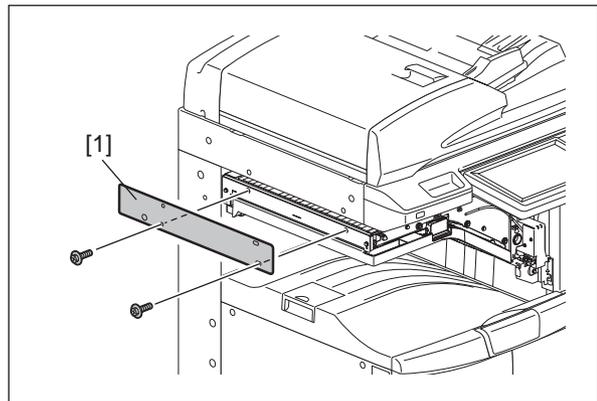
(8) Lift up the bridge unit and release the hook. Take off the bridge unit toward the front.
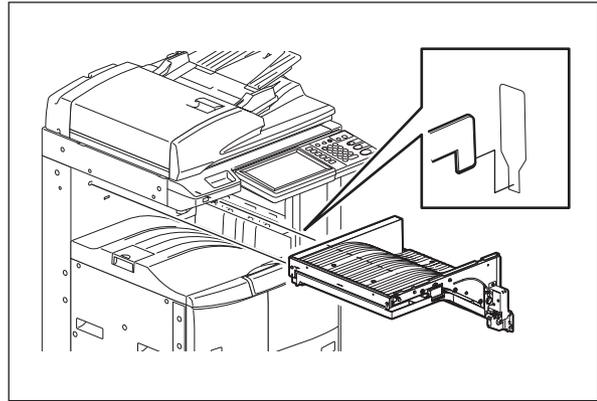
Fig. 4-457

4.16.9 MJ-5004 (Job separator) (e-STUDIO206L/256/306 / 207L/257/307)

(1) Turn the power OFF and unplug the power cable.
(2) Take off the tray.
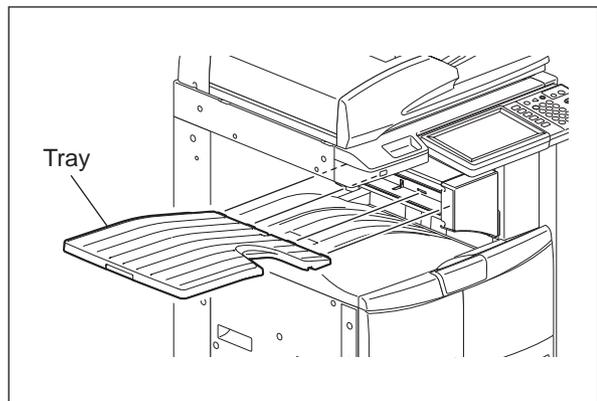
Fig. 4-458

(3) Remove 2 screws and take off the cover.
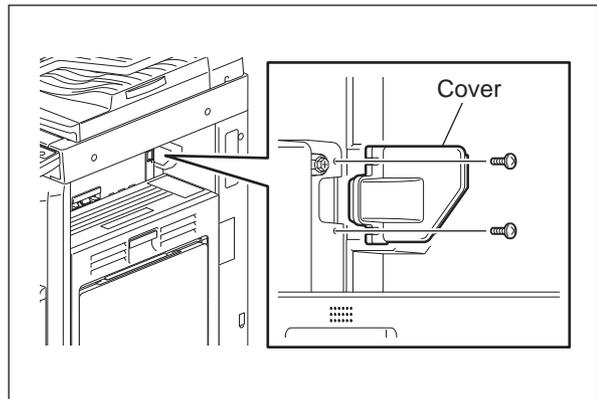
Fig. 4-459

(4) Take off the right rear cover-1 and the right rear cover-2.
   📖 P. 4-6 "4.1.13 Right rear cover-1 / Right rear cover-2"
(5) Disconnect 2 connectors.

4
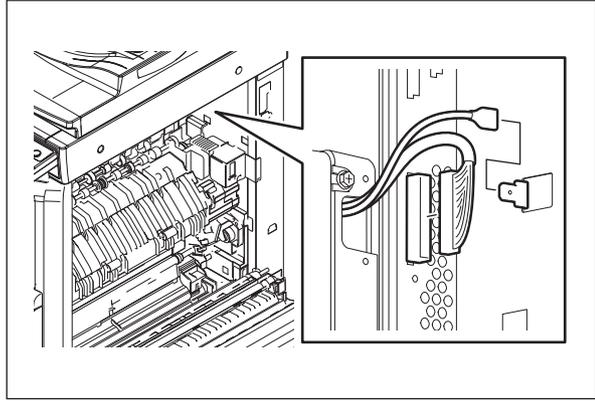
Fig. 4-460

(6) Loosen 2 screws and take off the cover.

Cover
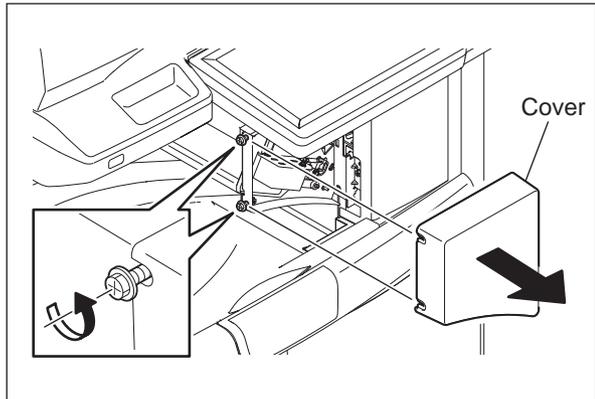
Fig. 4-461

(7) Remove 1 screw. Lift up the job separator and release the hook. Take off the job separator toward the front.

Fig. 4-462

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
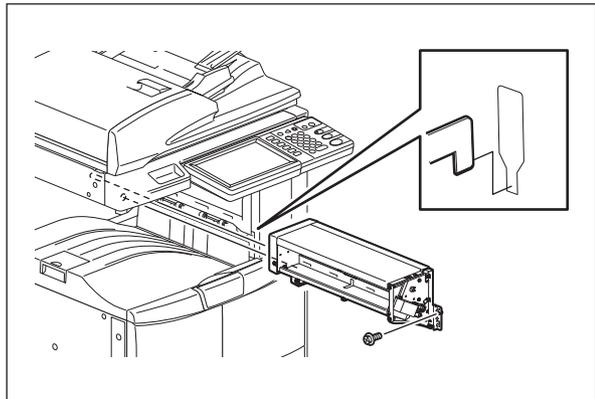
4.16.10 MJ-5005 (Offset tray) (e-STUDIO206L/256/306 / 207L/257/307)

(1) Turn the power OFF and unplug the power cable.
(2) Take off the tray.
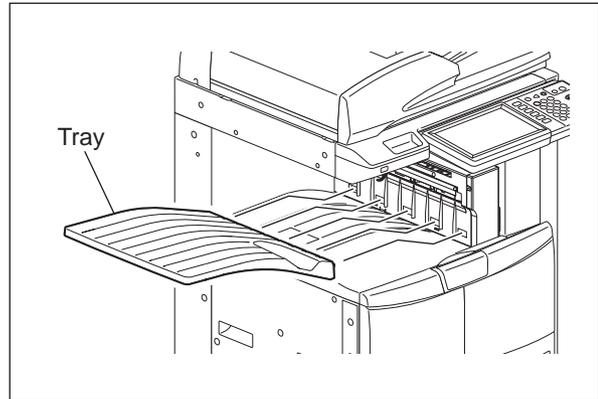
Fig. 4-463

(3) Remove 2 screws and take off the cover.
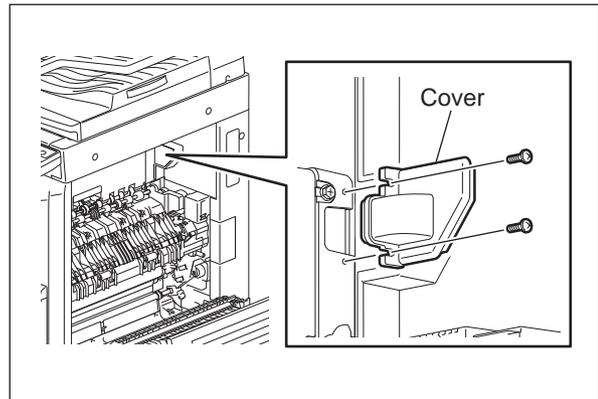
Fig. 4-464

(4) Take off the right rear cover-1 and the right rear cover-2.
    📖 P. 4-6 "4.1.13 Right rear cover-1 / Right rear cover-2"
(5) Disconnect 2 connectors.
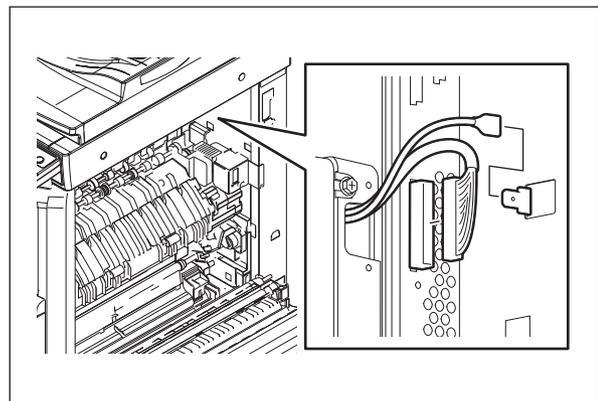
Fig. 4-465

(6) Remove 1 screw and take off the cover.
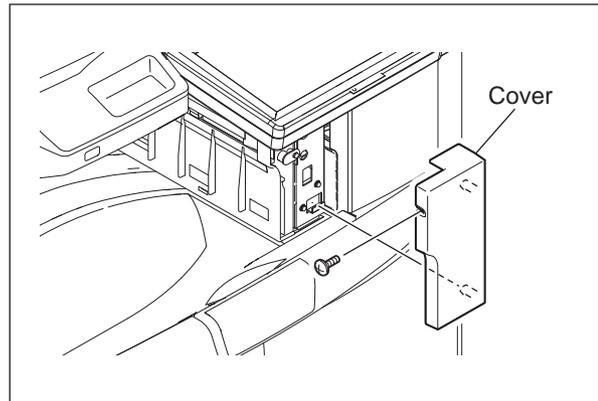
Fig. 4-466

(7) Lift up the offset tray and release the hook.
     Take off the offset tray toward the front.
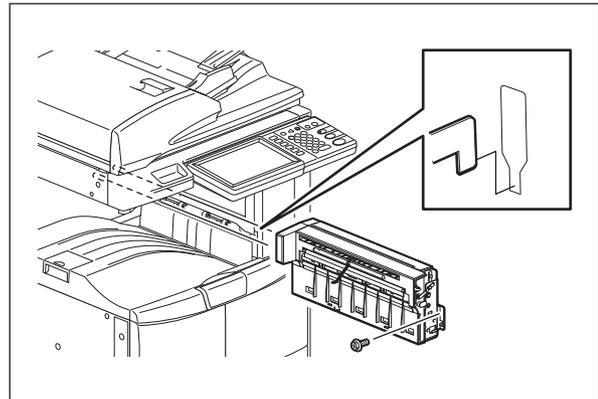
Fig. 4-467

4.16.11 MJ-5006 (Job separator) (e-STUDIO356/456/506 / 357/457/507)

(1) Turn the power OFF and unplug the power
     cable.
(2) Take off the tray.

Fig. 4-468

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
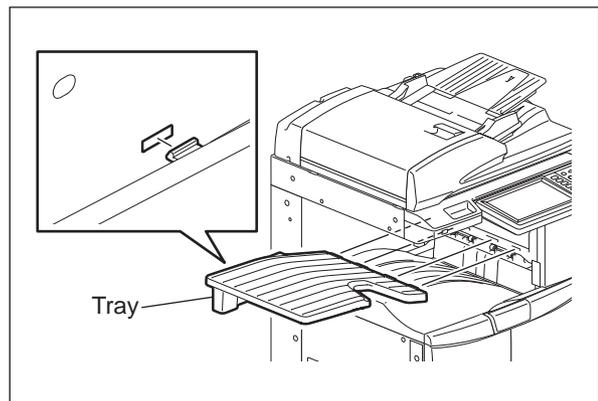
(3) Remove 2 screws and take off the cover.
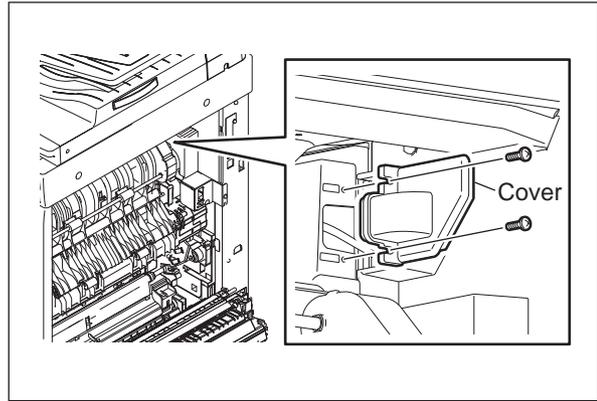
Fig. 4-469

(4) Take off the right rear cover-1 and the right rear cover-2.
📖 P. 4-6 "4.1.13 Right rear cover-1 / Right rear cover-2"
(5) Disconnect 2 connectors.
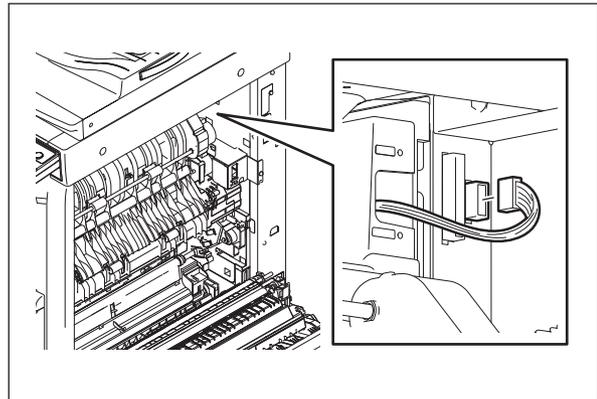
Fig. 4-470

(6) Remove 2 screws and take off the cover.
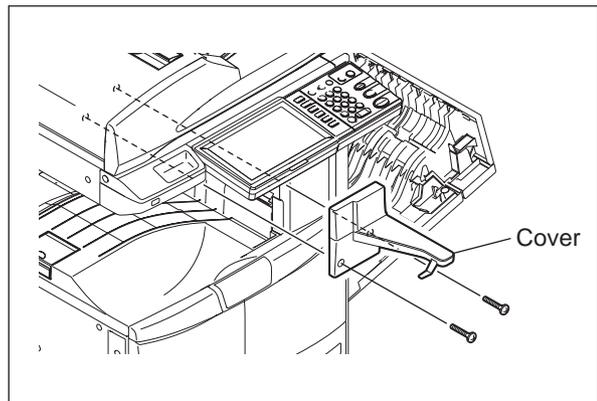
Fig. 4-471

4.17 Damp Heater Kit (MF-4550U/E) Installation Procedure

4.17.1 Preparation

Damp Heater Kit (check if all of the following parts are in it), tools

(a) Scanner Damp Heater (Left)
(b) Scanner Damp Heater (Right)
(c) Drum Damp Heater
(d) Fuse board
(e) Fixing screw M3x6 (for the scanner)
(f) Fixing screw M3x8 (for the fuse board and drum)
(g) Clamp (for the scanner (Left))
(h) Harness (for the scanner and drum)
(i) Harness (for the fuse board)
(j) Harness (for the scanner (right))
(k) Harness (for the fuse board and the switching regulator join)
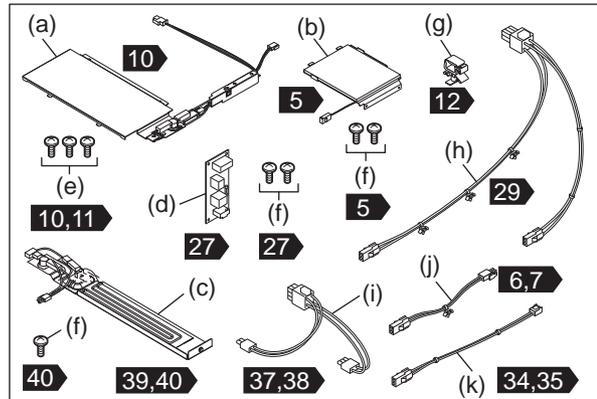
Fig. 4-472

Notes:
1. When installing the Damp Heater, ensure sufficient work space for disassembling the equipment.
2. Turn the power of the equipment OFF and unplug the power cable before the installation.
3. Take off the Finisher (optional), the FAX unit, the Job separator (optional), Offset tray (optional), or the Hole Punch Unit (optional) before starting the installation, if installed.
4. Be sure not to drop small parts such as screws into the equipment.

4.17.2 Procedure

(1) Remove 3 screws and take off the right upper cover.
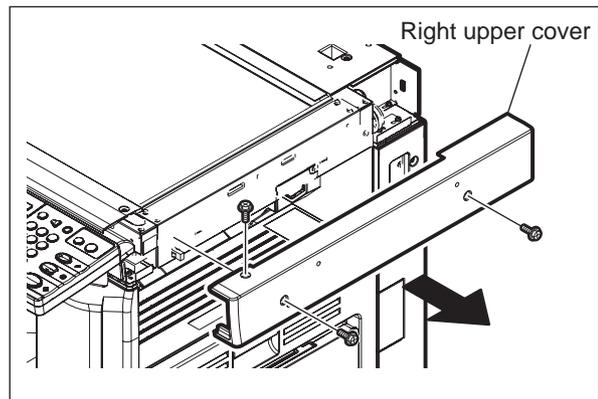
Fig. 4-473

(2) Remove 2 screws and take off the fixing bracket.
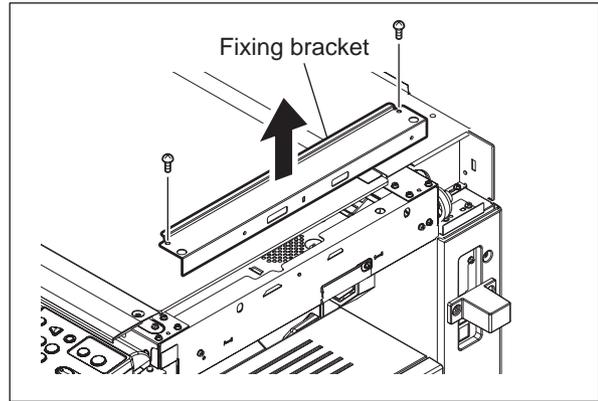
Fig. 4-474

(3) Take off the original glass.
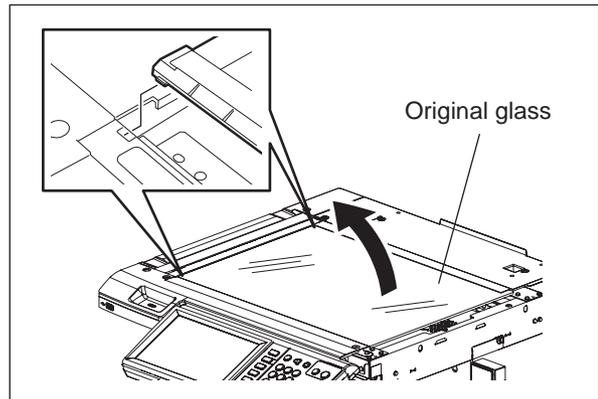
Fig. 4-475

(4) Remove 4 screws and take off the lens cover.
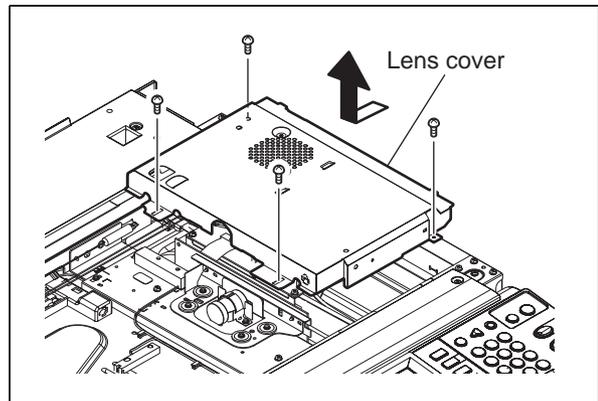
Fig. 4-476

(5) Install the Scanner Damp Heater (Right) on the lens cover with 2 screws.

Scanner Damp Heater (Right)
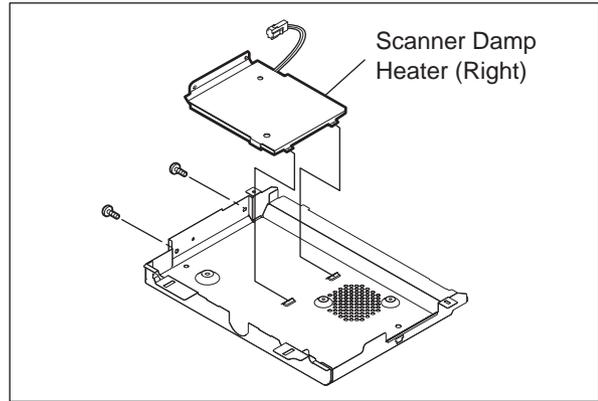
Fig. 4-477

(6) Connect the connector of the harness and install the clamp to the lens unit.
(7) Insert the connector into the lens unit.
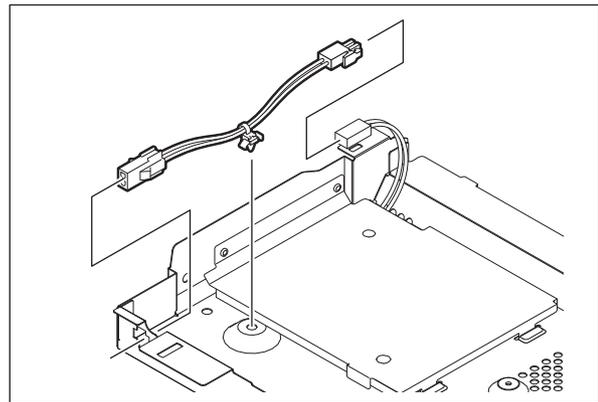
Fig. 4-478

(8) Install the lens cover with 4 screws.

Lens cover

Fig. 4-479

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DISASSEMBLY AND REPLACEMENT
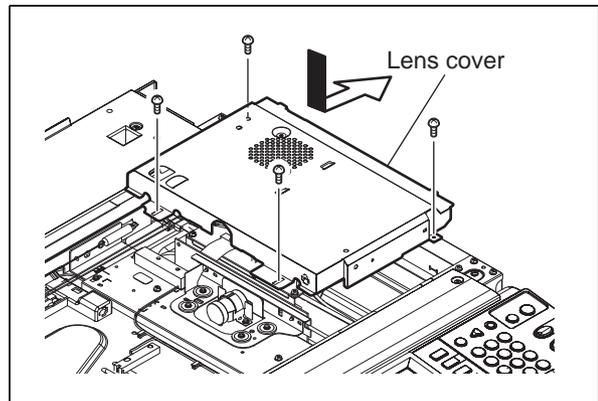
(9) Rotate the pulley to move the carriage to the paper exit side.

Carriage
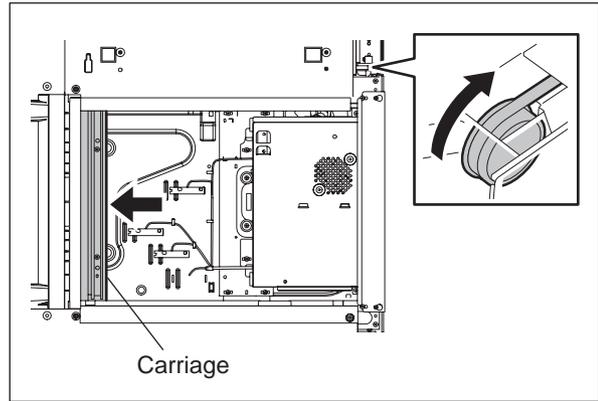
Fig. 4-480

(10) Install the Scanner Damp Heater (Left) with 2 screws.

Scanner Damp Heater (Left)
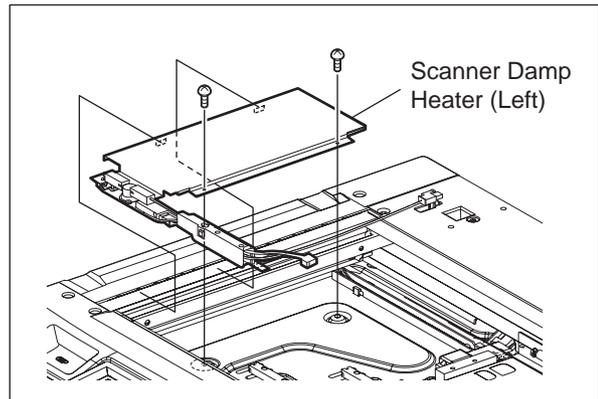
Fig. 4-481

(11) Install the Scanner Damp Heater (Left) in the cutout of the frame in the equipment as shown in the right-hand figure.
Fix the Scanner Damp Heater (Left) with 1 screw and then insert 1 connectors.

Notes:

Check that no harnesses will be caught by moving the carriage.
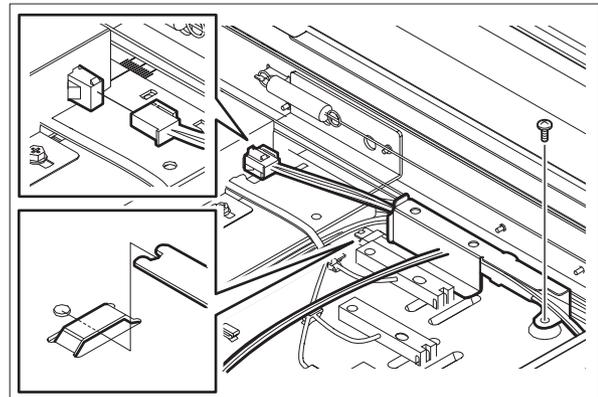
Fig. 4-482

(12) Attach the harness to 1 connector and then install the clamp in the equipment.

(13) Fix the harness with 2 clamps.
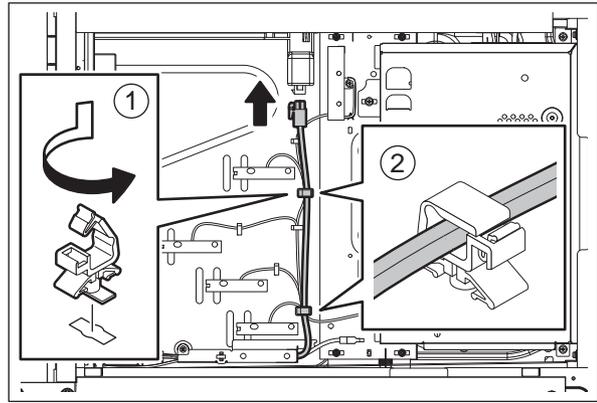
Fig. 4-483

(14) Install the original glass.

   Notes:
   When installing, fit 2 small protrusions of the original glass in the groove of the equipment and fix the original glass with the fixing bracket by pushing it to the left rear direction.
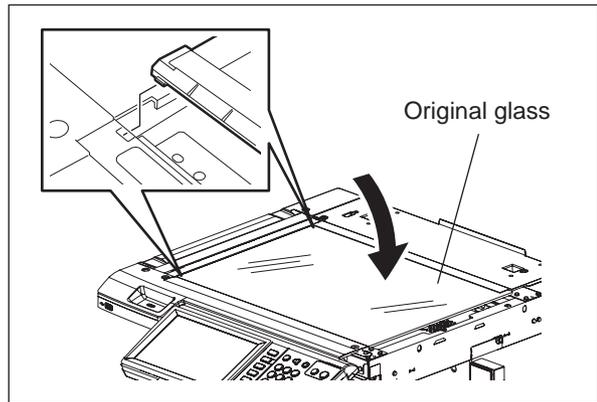
Fig. 4-484

(15) Install the fixing bracket with 2 screws.

Fig. 4-485

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
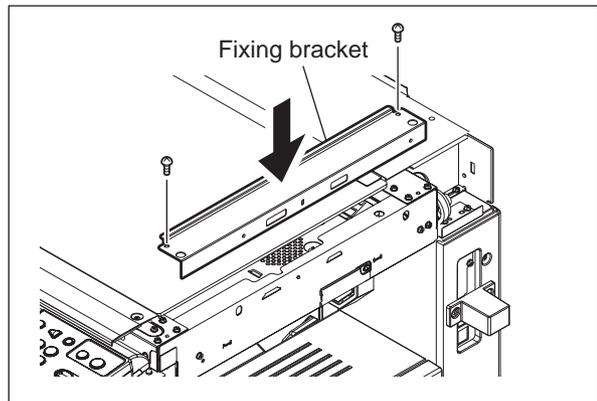
(16) Install the right upper cover with 3 screws.

Right upper cover
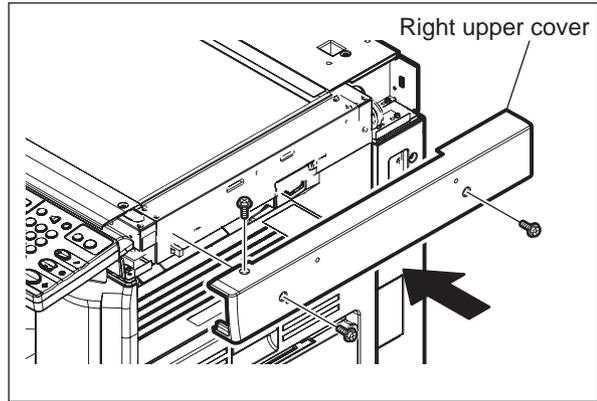
Fig. 4-486

(17) Open the front cover.

Front cover
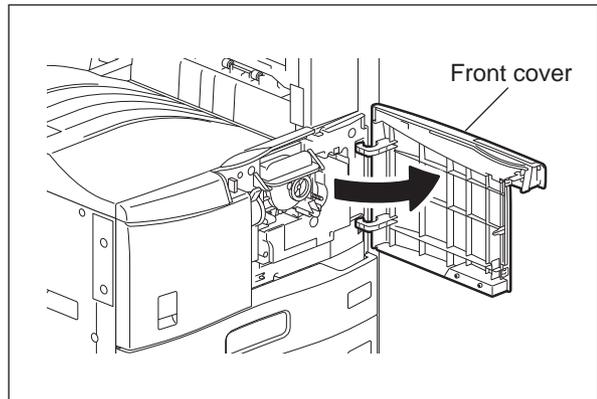
Fig. 4-487

(18) Take off the toner cartridge.

Toner cartridge
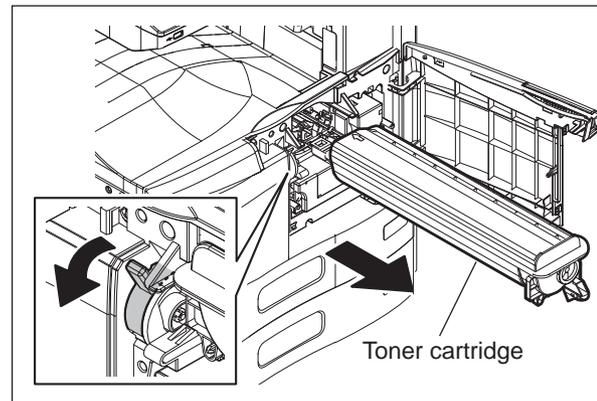
Fig. 4-488

(19) Open the automatic duplexing unit.

Automatic duplexing unit
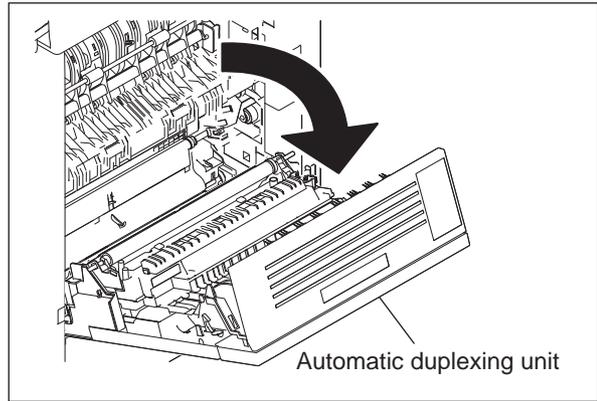
Fig. 4-489

(20) Loosen 2 screws and pull out the process unit.

Process unit
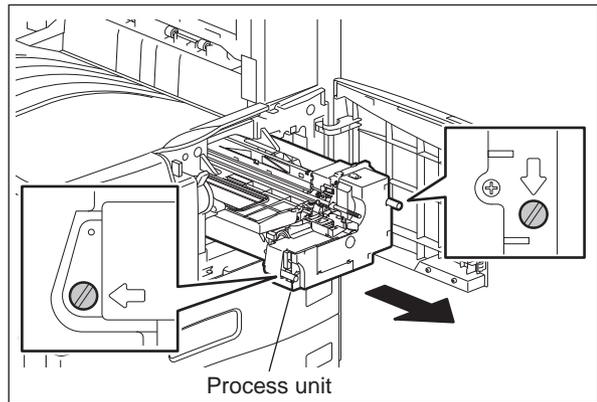
Fig. 4-490

(21) Remove 2 screws, and then take off the inner tray.

Inner tray

Fig. 4-491

4

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DISASSEMBLY AND REPLACEMENT
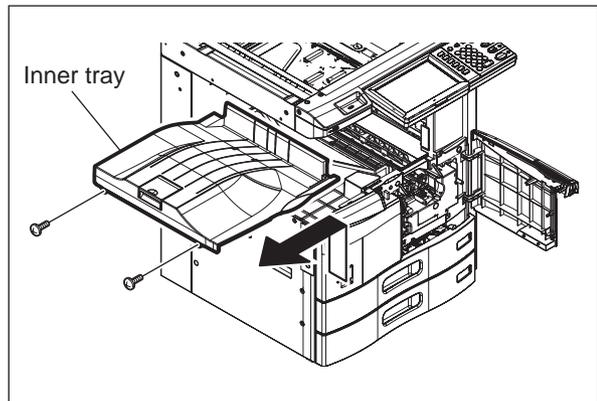
(22) Remove 1 screw and disconnect 1 connector. Take off the duct.
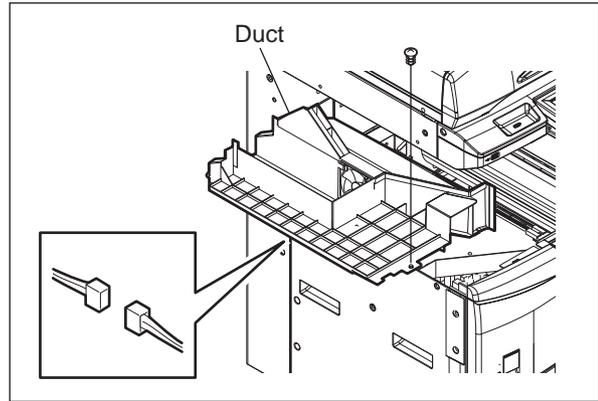
Fig. 4-492

(23) Remove 1 screw and then take off the Damp Heater cover.
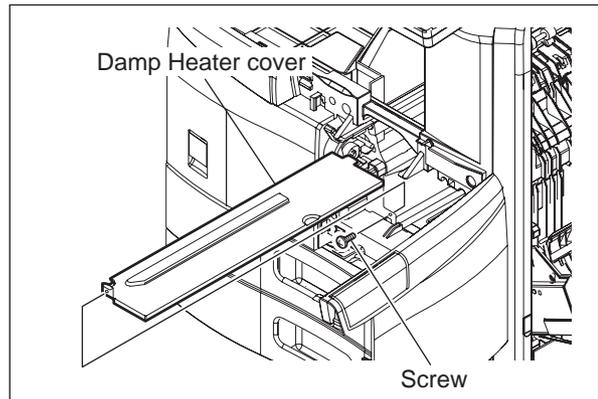
Fig. 4-493

(24) Remove 5 screws. Lift up the rear cover and then release 3 hooks on the upper side. Then open the upper side of the rear cover slightly toward you, and then take off the rear cover by lifting it up.
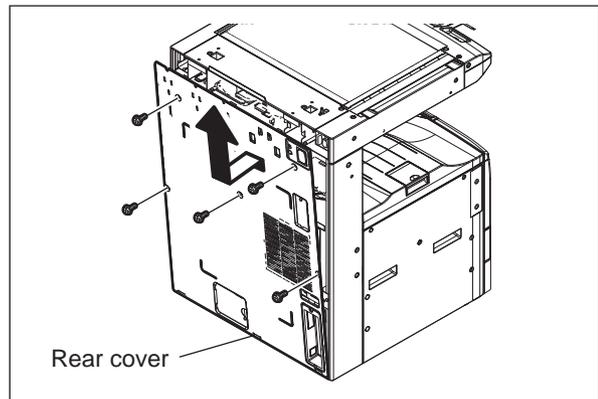
Fig. 4-494

(25) Disconnect 2 connectors from the LGC board.

LGC board

Connector
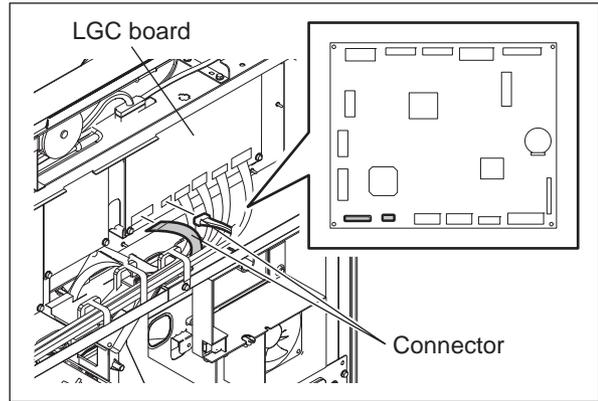
Fig. 4-495

(26) Remove 1 screw and take off the metal plate cover [1].

[1]
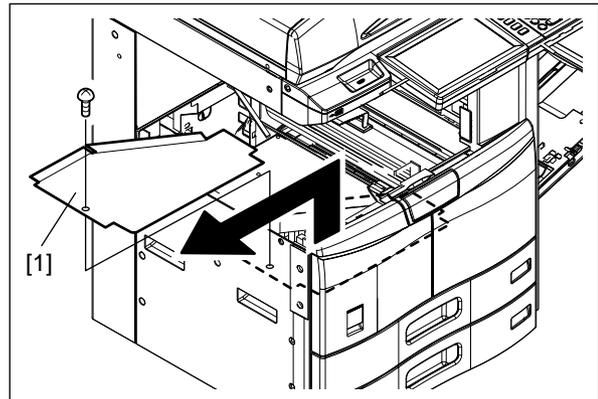
Fig. 4-496

(27) Remove 1 screw and take off the laser optical unit.

Notes:

When removing and installing the laser optical unit, be careful not to deform the leaf spring.

Laser optical unit

Leaf spring

Fig. 4-497

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DISASSEMBLY AND REPLACEMENT
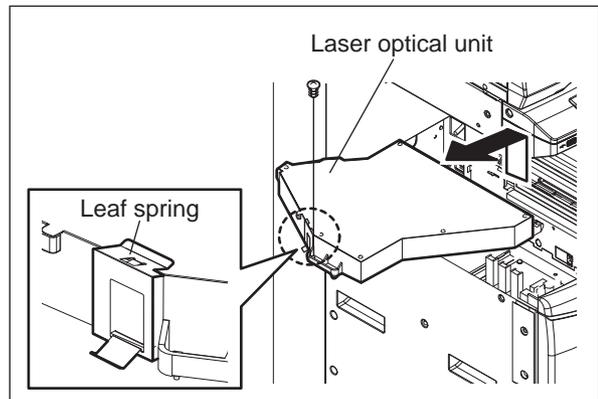
(28) Fix the fuse board with 2 screws.
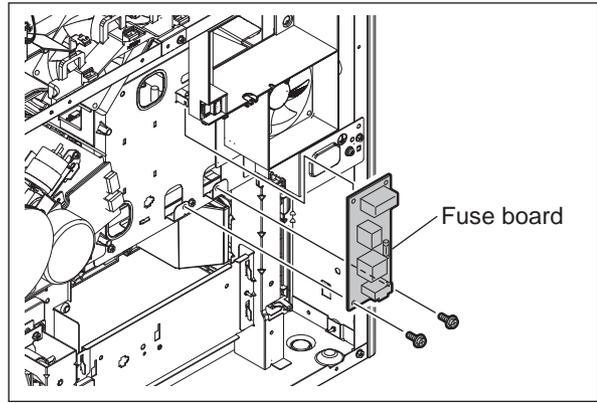
Fuse board

Fig. 4-498

(29) Attach the harness to the connector of the fuse board.

Fuse board
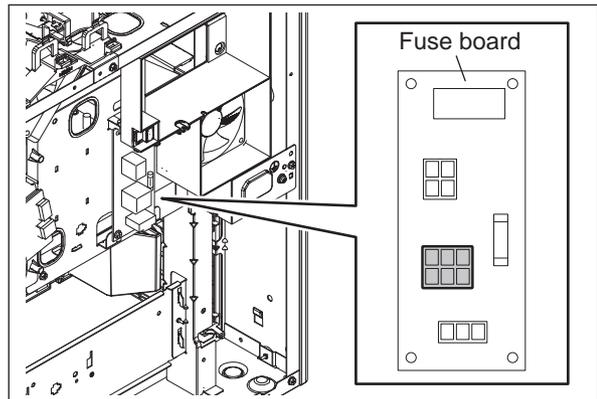
Fig. 4-499

(30) Run the harness through the clamp, and then through the hole of the frame of the equipment.
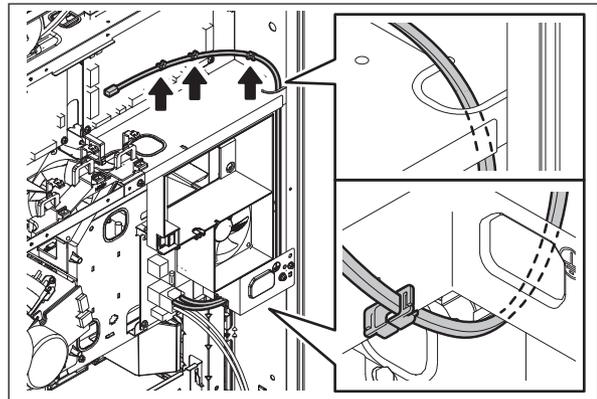
Fig. 4-500

(31) Run the harness through the clamp. Then run it through the hole in the equipment and wire it to the front side as shown in the right-hand figure.
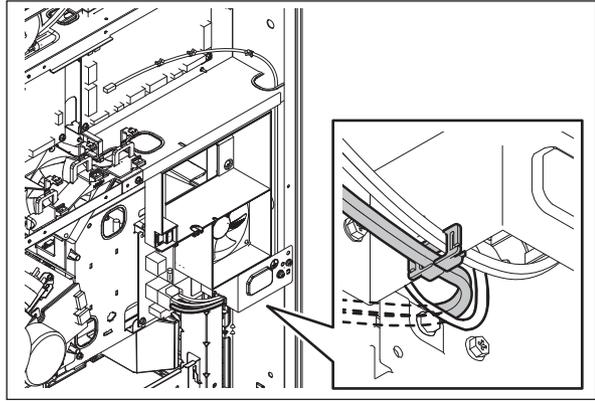
Fig. 4-501

(32) Connect 1 connector and install 3 clamps.
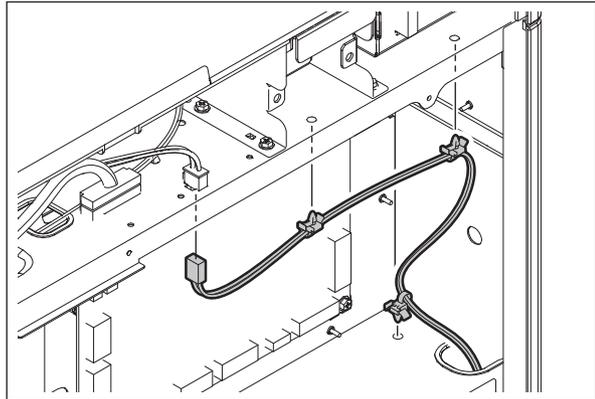
Fig. 4-502

(33) Remove 1 screw and take off the duct.

Duct
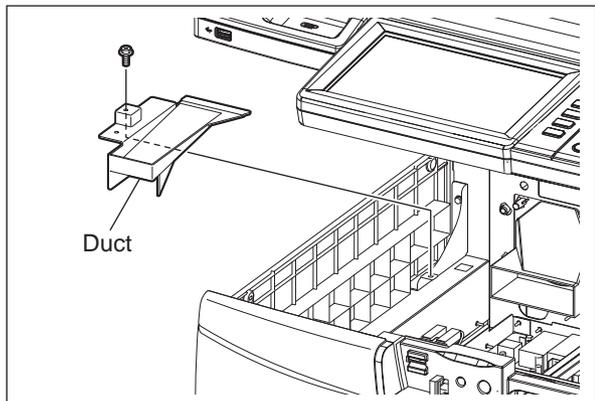
Fig. 4-503

(34) Fix the harness with 1 clamp, and then insert the connector into the hole of the frame of the equipment.
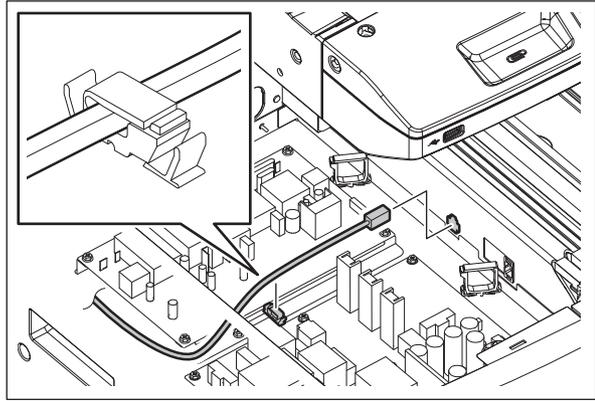
Fig. 4-504

(35) Attach the harness to the connector of the switching regulator.
(36) Run the harness through the hole of the frame of the equipment, and then wire it to the rear side.

Switching regulator
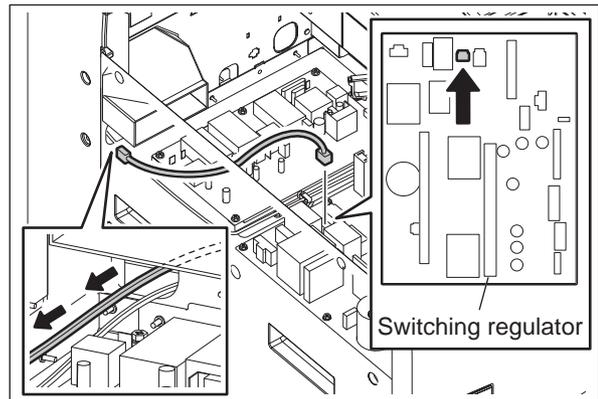
Fig. 4-505

(37) Attach the harness to the clamp.
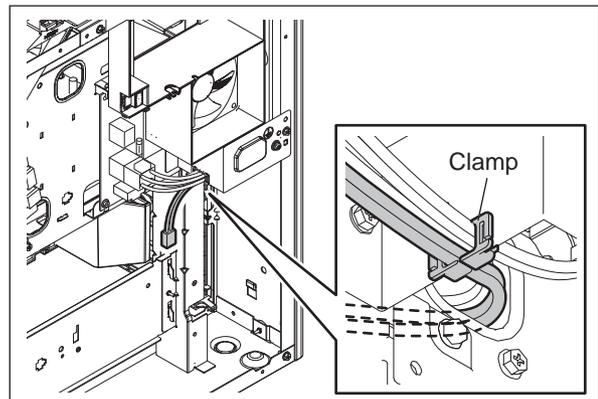
Clamp

Fig. 4-506

(38) Attach the harness to the connector of the fuse board and the one of the frame of the equipment.

(39) Connect the harness coming from the clamp to the connector.

Fuse board
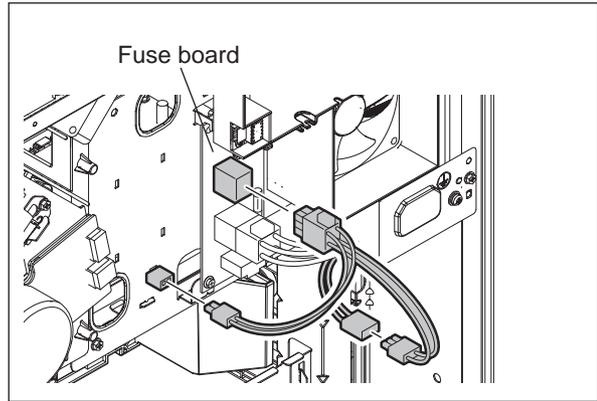
Fig. 4-507

(40) Apply 1 hook to the frame of the equipment.

(41) Attach the harness to the connector, and then fix the Drum Damp Heater with 1 screw.

Notes:
- After the Scanner Damp Heater (Left), Scanner Damp Heater (Right) and Drum Damp Heater have been installed, perform the installation following the opposite procedure of the disassembly.
- Check the following after the installation of the Damp Heater
  1. Image quality
  2. Abnormal heating
  3. Any screws not installed

Fig. 4-508

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DISASSEMBLY AND REPLACEMENT
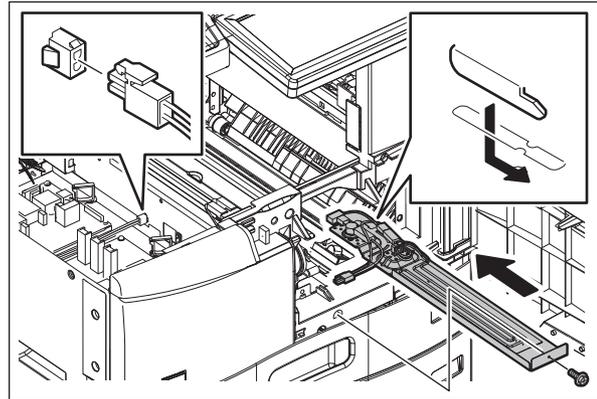
4.18 Damp Heater Kit (MF-5070U/E) Installation Procedure

4.18.1 Preparation

Damp heater kit (check if all of the following parts are in it), tools

(a) Harness (for the scanner)
(b) Scanner damp heater
(c) Fuse board
(d) Fixing screw M3x8 (for the fuse board and drum damp heater)
(e) Harness (for the scanner and drum)
(f) Harness (for the fuse board and the switching regulator join)
(g) Harness (for the fuse board)
(h) Drum damp heater
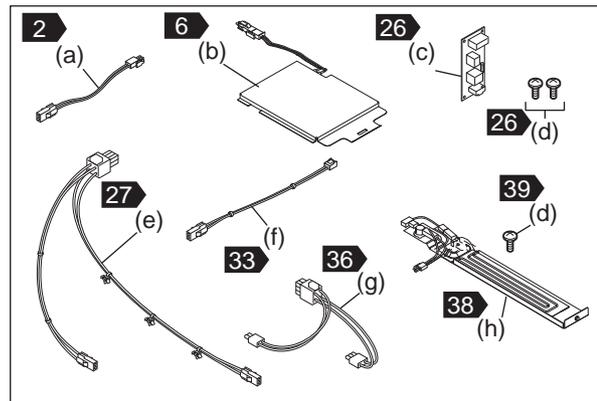
Fig. 4-509

Notes:
1. When installing the damp heater, ensure sufficient work space for disassembling the equipment.
2. Turn the power of the equipment OFF and unplug the power cable before the installation.
3. Take off the Finisher (optional), the FAX unit, the Job separator (optional), Offset tray (optional), or the Hole Punch Unit (optional) before starting the installation, if installed.
4. Be sure not to drop small parts such as screws into the equipment.

4.18.2 Procedure

(1) Remove 5 screws. Lift up the rear cover and then release 3 hooks on the upper side. Then open the upper side of the rear cover slightly toward you, and then take off the rear cover by lifting it up.

Remarks:
When installing the rear cover, hang the 3 hooks of the rear cover on the frame of the equipment, and then hang the 3 hooks on the holes of the upper rear cover to fix it. Then tighten 5 screws to fix it securely.
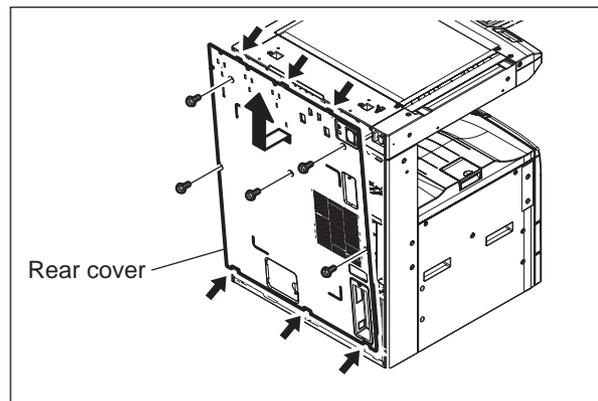
Rear cover

Fig. 4-510

(2) Connect the connector.
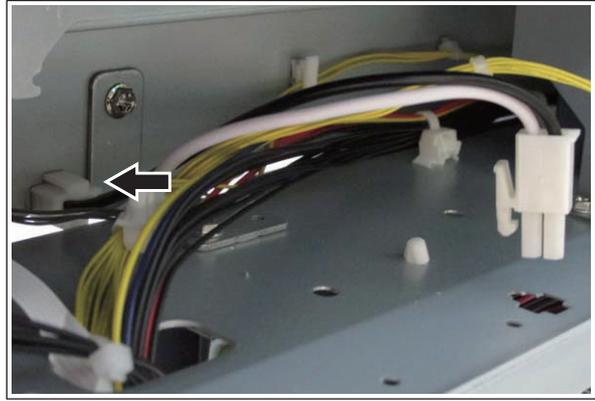
Fig. 4-511

(3) Remove 2 screws.
(4) Lift up the right upper cover [1], release the front and rear hooks and then take it off toward the right.
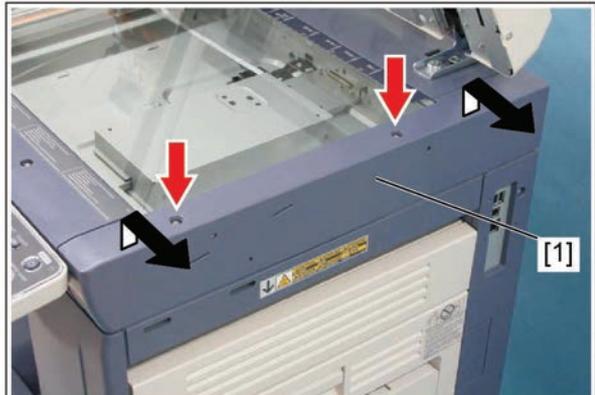
Fig. 4-512

(5) Remove 2 screws and take off the original glass [1].
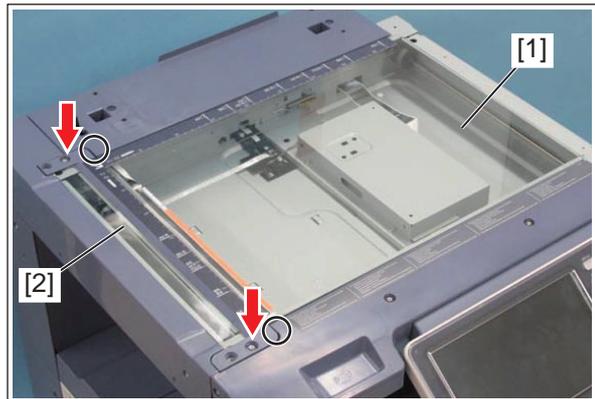
Fig. 4-513

(6) Install the scanner damp heater after sliding it as shown in figure.
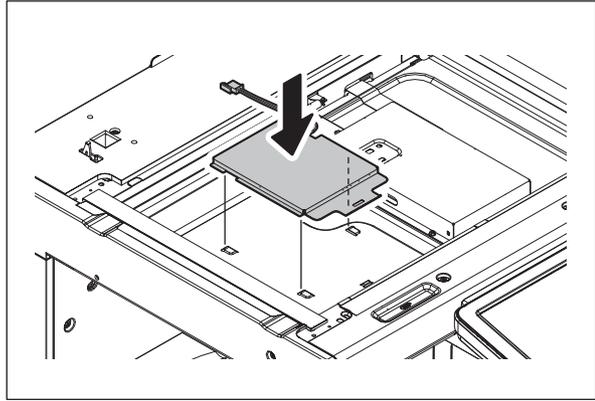
Fig. 4-514

Notes:

Push the protrusion on the scanner until it completely fits into the square holes on the scanner damp heater.
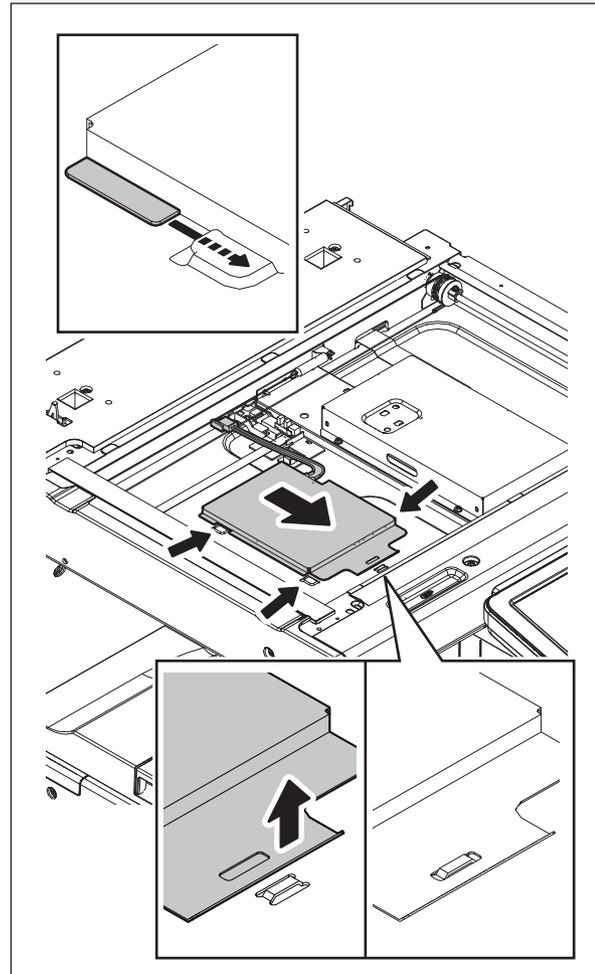
Fig. 4-515

(7) Wire the harness and connect the connector.
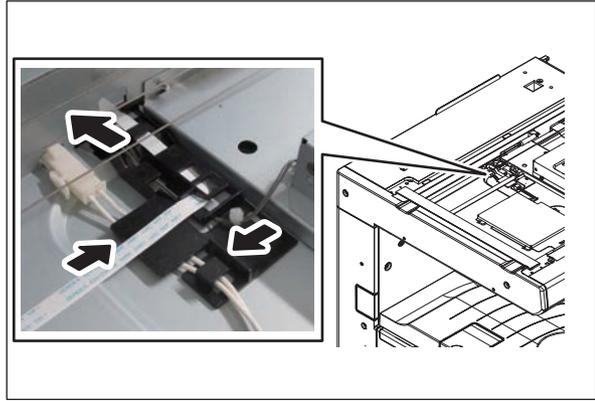
Fig. 4-516

(8) Install the original glass with 2 screws.

Notes:
- Make sure that the RADF original glass [2] is securely inserted into the groove of the fixing part of the original glass [1].
- Securely insert the 2 pins of the original glass [1] into the holes in the frame.
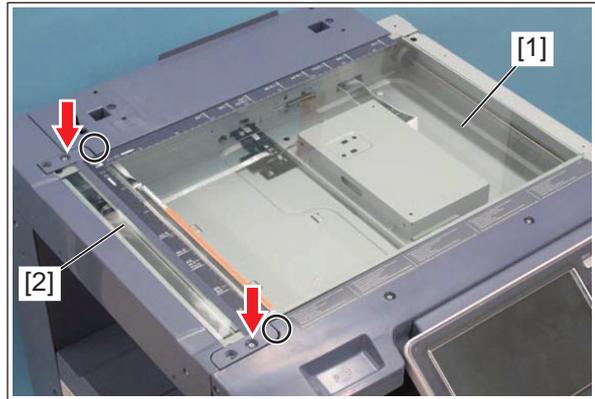
Fig. 4-517

(9) Install the right upper cover [1] with 2 screws.
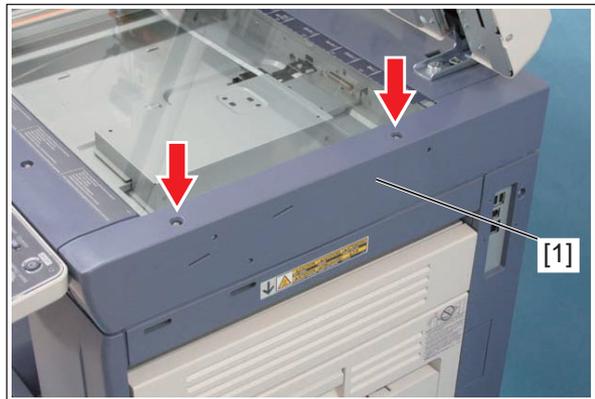
Fig. 4-518

(10) Open the front cover.

Front cover
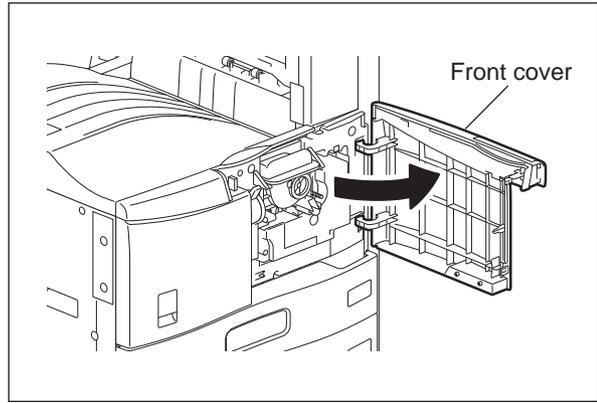
Fig. 4-519

(11) Take off the toner cartridge.

Toner cartridge
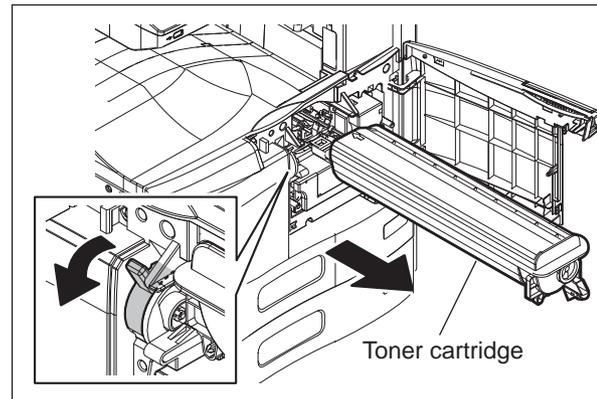
Fig. 4-520

(12) Open the automatic duplexing unit.

Automatic duplexing unit
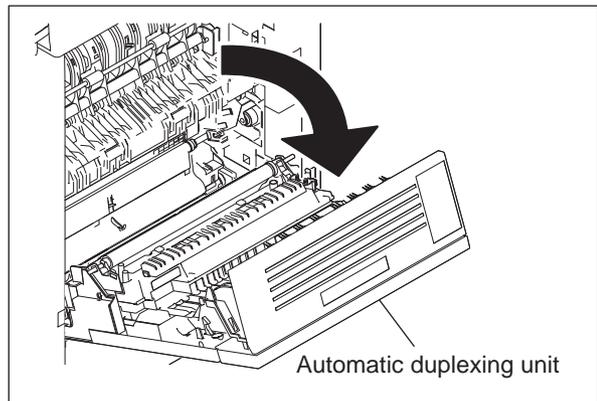
Fig. 4-521

(13) Loosen 2 screws and pull out the process unit.

Process unit
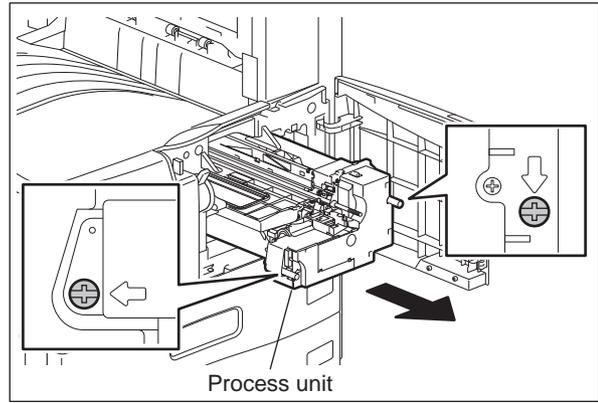
Fig. 4-522

(14) Remove 1 screw. Slide the left rear cover-1 [1] upward, and then take it off by sliding it to the rear side.

[1]
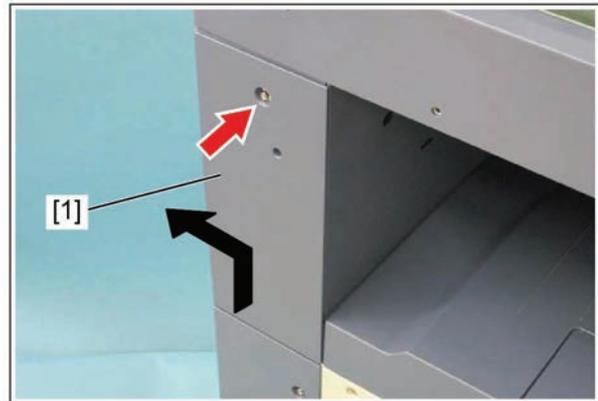
Fig. 4-523

(15) Remove 2 screws and take off the left rear cover-2 [1].

[1]

Fig. 4-524

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DISASSEMBLY AND REPLACEMENT
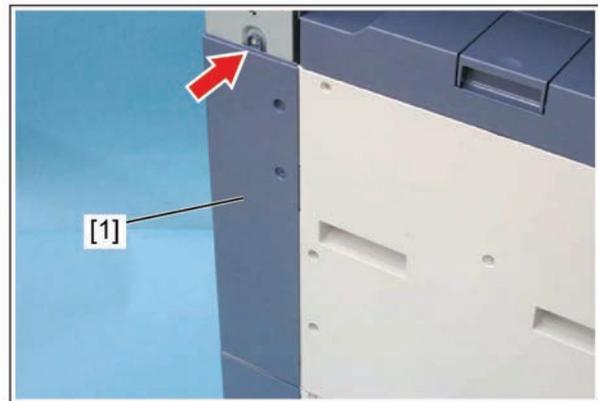
(16) Remove 2 tap-tight screws [1] and 5 screws.
Then take off the left cover [2].
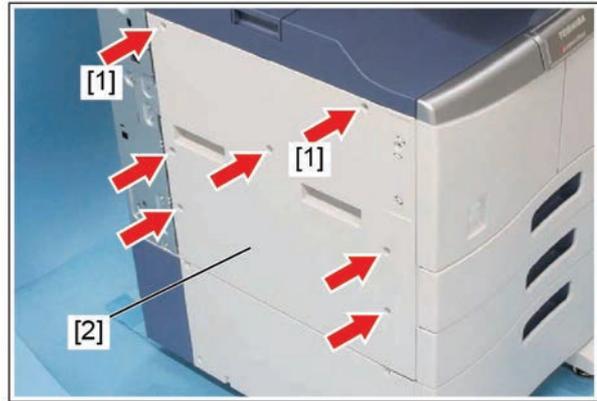
Fig. 4-525

(17) Remove the inner tray.

Inner tray
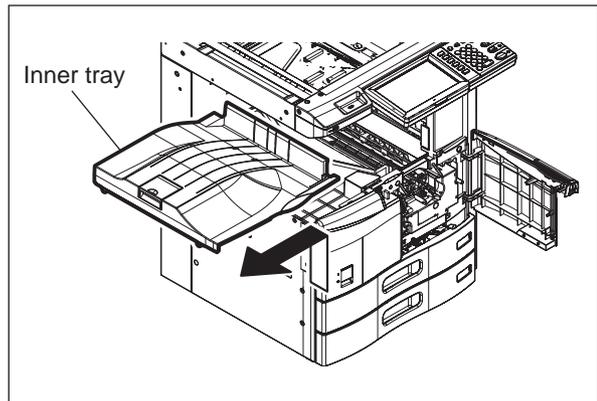
Fig. 4-526

(18) Disconnect 1 connector [1] of the process
unit fan.
(19) Remove the duct fixing screw [3]. Raise the
front side of duct [2] and then take it off.
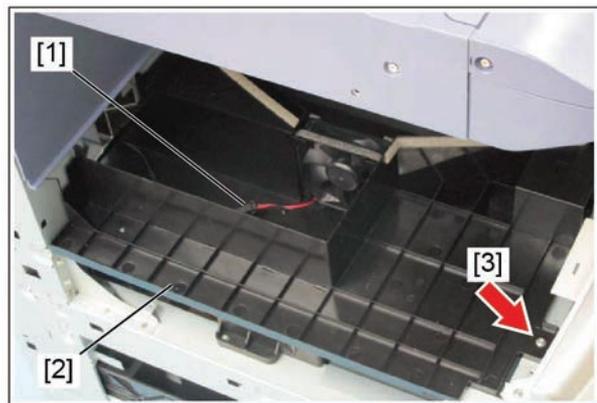
Fig. 4-527

(20) Take off the duct [2].
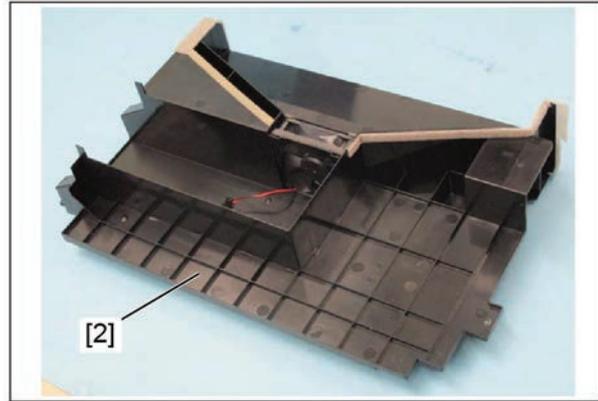

**Fig. 4-528**

(21) Take off the sponge [4].
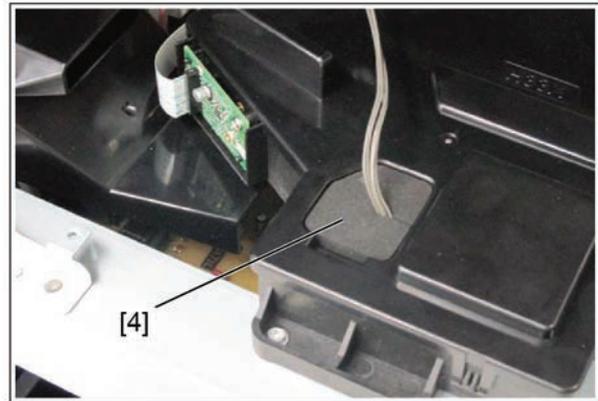
Fig. 4-529

(22) Disconnect 2 connectors [5]. Remove 1 screw [6].

Notes:

Connect the flat harness to the laser optical unit with its electrode side to the front. A "CA20" error will be displayed if the connection is incorrect.

Fig. 4-530

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
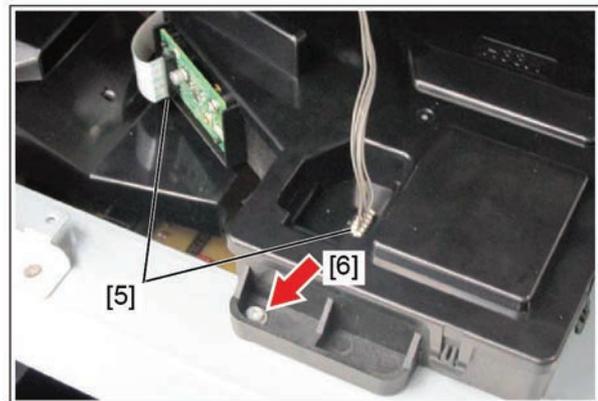
(23) Release the harness from the 2 clamps [7] of the laser optical unit.
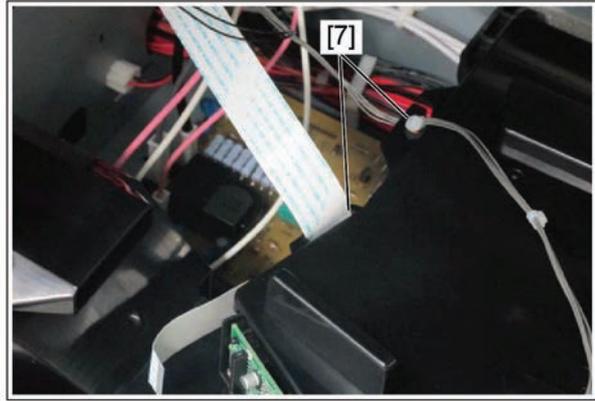
Fig. 4-531

(24) Take off the laser optical unit [8].
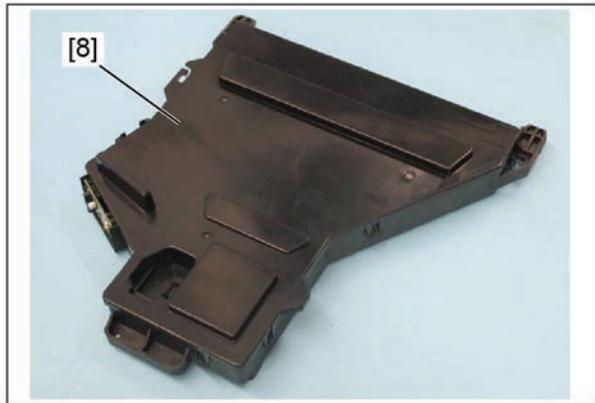
Fig. 4-532

(25) Remove 1 screw and then take off the damp heater cover.

Damp Heater cover
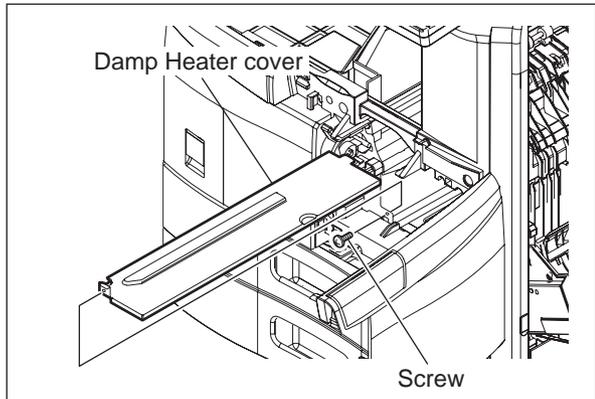
Screw

Fig. 4-533

(26) Fix the fuse board with 2 screws.
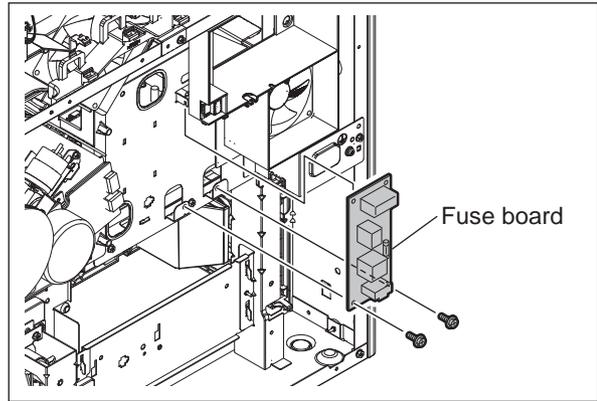
Fig. 4-534

(27) Attach the harness to the connector of the fuse board.
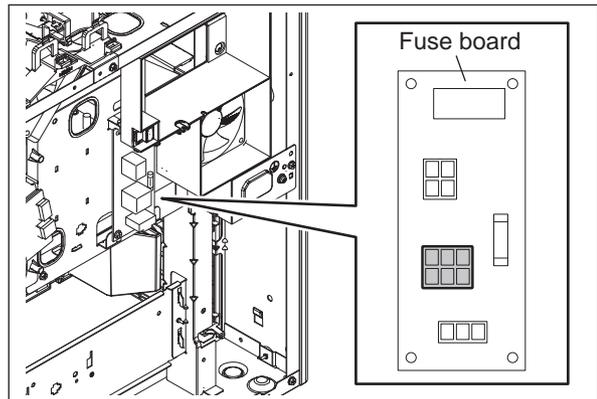
Fig. 4-535

(28) Run the harness through the clamp, and then through the hole of the frame of the equipment.

Fig. 4-536

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
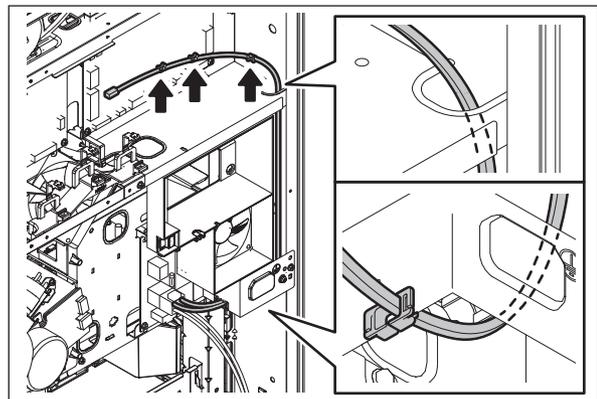
(29) Run the harness through the clamp. Then run it through the hole in the equipment and wire it to the front side as shown in the right-hand figure.
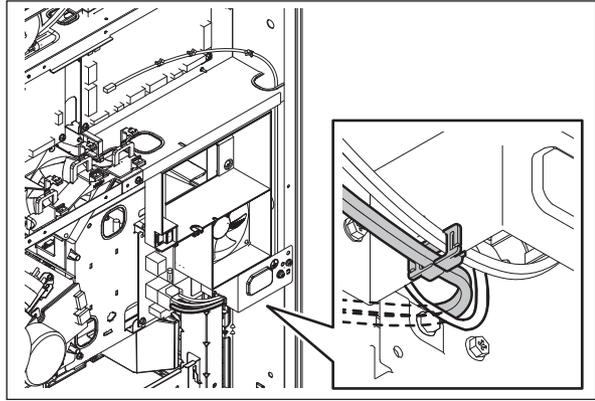
Fig. 4-537

(30) Connect 1 connector and install 3 clamps.
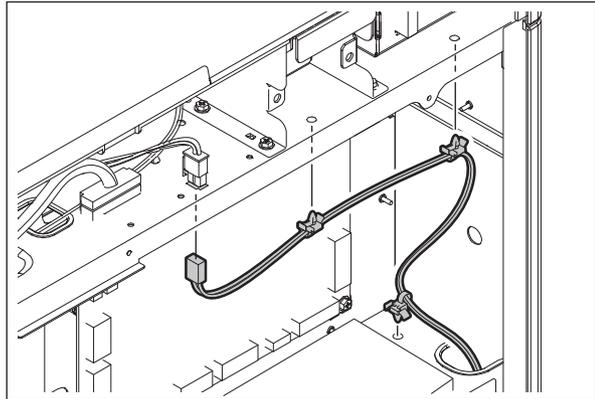
Fig. 4-538

(31) Connect 1 connector.
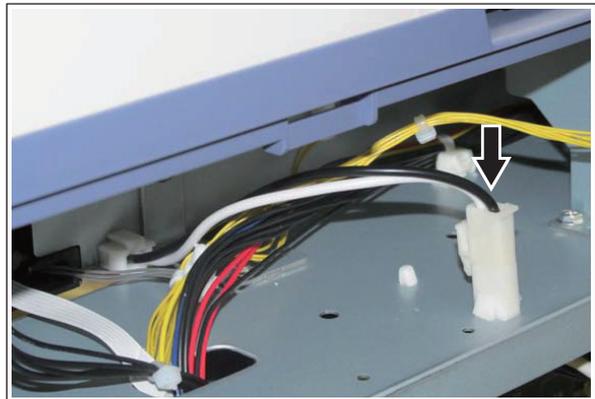
Fig. 4-539

(32) Fix the harness with 1 clamp, and then insert the connector into the hole of the frame of the equipment.
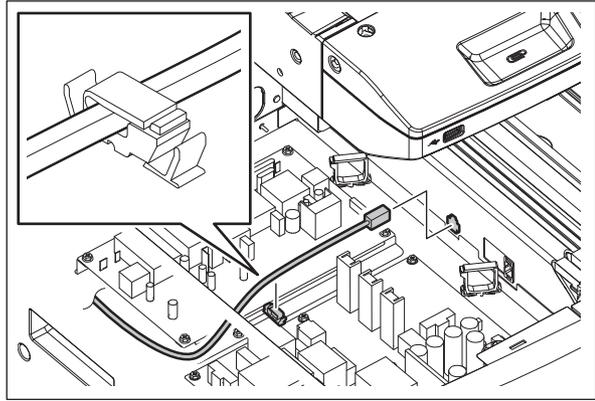
Fig. 4-540

(33) Attach the harness to the connector of the switching regulator.
(34) Run the harness through the hole of the frame of the equipment, and then wire it to the rear side.

Switching regulator
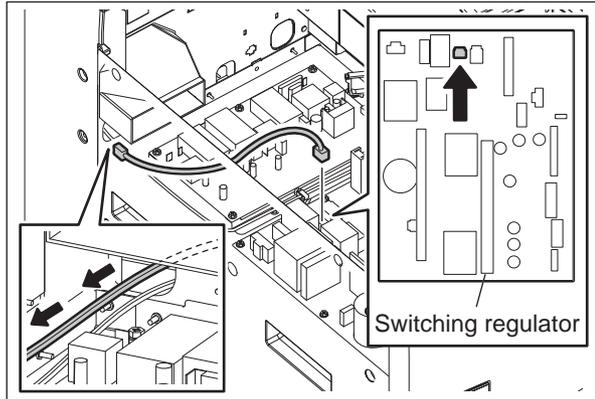
Fig. 4-541

(35) Attach the harness to the clamp.

Clamp

Fig. 4-542

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
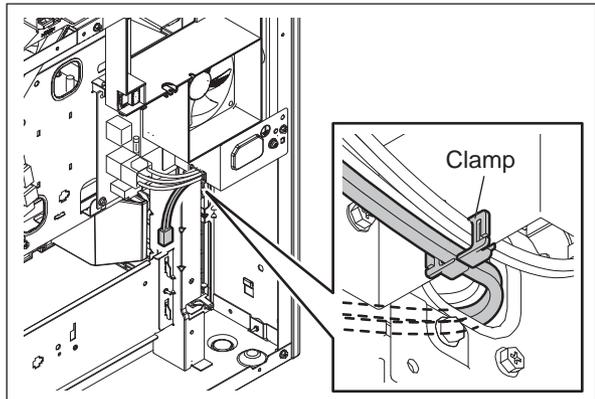
(36) Attach the harness to the connector of the fuse board and the one of the frame of the equipment.

(37) Connect the harness coming from the clamp to the connector.

Fuse board
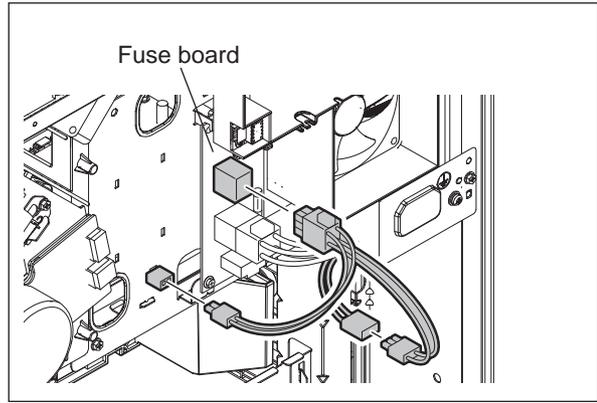
Fig. 4-543

(38) Apply 1 hook to the frame of the equipment.

(39) Attach the harness to the connector, and then fix the drum damp heater with 1 screw.

Notes:
- After the scanner damp heater and drum damp heater have been installed, perform the installation following the opposite procedure of the disassembly.
- Check the following after the installation of the damp heater
  1. Image quality
  2. Abnormal heating
  3. Any screws not installed

Fig. 4-544

4

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
DISASSEMBLY AND REPLACEMENT
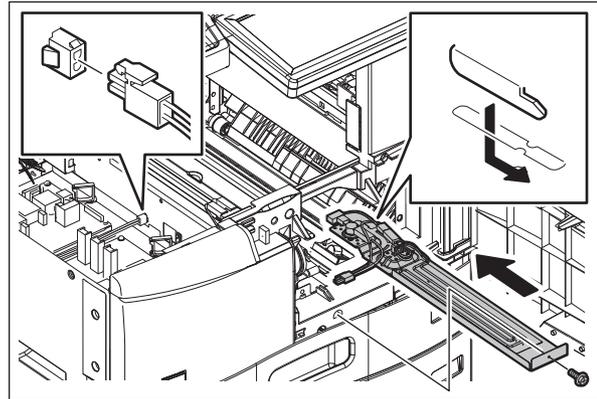
5. SELF-DIAGNOSIS MODES

5.1 Overview

[A] Starting each mode

To enter the desired mode, turn the power ON while pressing two digital keys designated to each mode (e.g. [0] and [5]) simultaneously. Hold the two keys until the [COPY] [e-FILING] [SCAN] [PRINT] [FAX] buttons are lit.

> **Notes:**
> The above buttons do not light in e-STUDIO207L/257/307/357/457/507. Therefore, press two digital keys until a "pip" sound is heard.

On the authentication screen displayed after starting up each mode, enter the service password, and then press [OK]. The password is not set by default.

Refer to chapter 15 for the codes in Test mode (03), Test print mode (04), Adjustment mode (05), and Setting mode (08).

[B] Exiting from each mode

Shut down the equipment. When the power should be turned OFF, be sure to shut down the equipment by pressing the [ON/OFF] button for a few seconds.

[C] List of modes

Mode	For start	Contents	For exit	Display
Control panel check mode	[0] + [1] + [POWER]	All LEDs on the control panel are lit, and all the LCD pixels blink.	[POWER] OFF/ON	
Test mode	[0] + [3] + [POWER]	Checks the status of input/output signals.	[POWER] OFF/ON	100% C A4 TEST MODE
Test print mode	[0] + [4] + [POWER]	Outputs the test patterns.	[POWER] OFF/ON	100% P A4 TEST PRINT
Adjustment mode	[0] + [5] + [POWER]	Adjusts various items.	[POWER] OFF/ON	100% A A4 TEST MODE
Setting mode	[0] + [8] + [POWER]	Sets various items.	[POWER] OFF/ON	100% D TEST MODE
Assist mode	[3] + [CLEAR] + [POWER]	Clears error flags or SRAM, or safely deletes data in the HDD or SRAM to support the replacement of the SYS board, SRAM or HDD.	[POWER] OFF/ON	-
HDD assist mode	[4]+[CLEAR]+ [POWER]	Assists the ADI-HDD by checking the type of the mounted HDD, reverting the HDD to a factory default or removing keys.	[POWER] OFF/ON	-
File system recovery mode	[5] + [CLEAR] + [POWER]	Checks, recovers or initializes the file system (HDD).	[POWER] OFF/ON	-
SRAM clear mode	[6]+[CLEAR]+ [POWER]	Recovers the equipment from particular errors such as F800 or F900.	[POWER] OFF/ON	-
List print mode	[9] + [START] + [POWER]	Prints various lists or outputs them in a CSV format.	[POWER] OFF/ON	100% L A4 LIST PRINT
PM support mode	[6] + [START] + [POWER]	Clears each counter.	[POWER] OFF/ON	100% K TEST MODE
EPU replacement mode	[7] + [START] + [POWER]	When replacing EPU, this mode is available for the installation of the EPU whose initial detection is possible.	[POWER] OFF/ON	
Firmware update mode	[4] + [9] + [POWER]	Performs firmware update with USB media.	[POWER] OFF/ON	-
	[8] + [9] + [POWER]	Performs firmware update with download jig.	[POWER] OFF/ON	-

Mode	For start	Contents	For exit	Display
Password reset mode	[4] + [8] + [9] + [POWER]	Resets the administrator password and service password.	[POWER] OFF/ON	-

Notes:

1. When the optional FAX unit is installed, Faxes received automatically during the self-diagnosis mode may not be printed out. Be sure to disconnect the modular code from the line connectors (LINE1, LINE2) of the equipment before starting the self-diagnosis mode. Also, be sure to finish the self-diagnosis mode by turning the power OFF and back ON before connecting the modular code.
2. Do not enter any of the modes shown below since they are provided only for production. If you do so, the equipment may not be restarted.

   [2]+[CLEAR]+[POWER]
   [7]+[CLEAR]+[POWER]
   [8]+[CLEAR]+[POWER]
   [9]+[CLEAR]+[POWER]

[D] State transition diagram of self-diagnosis modes
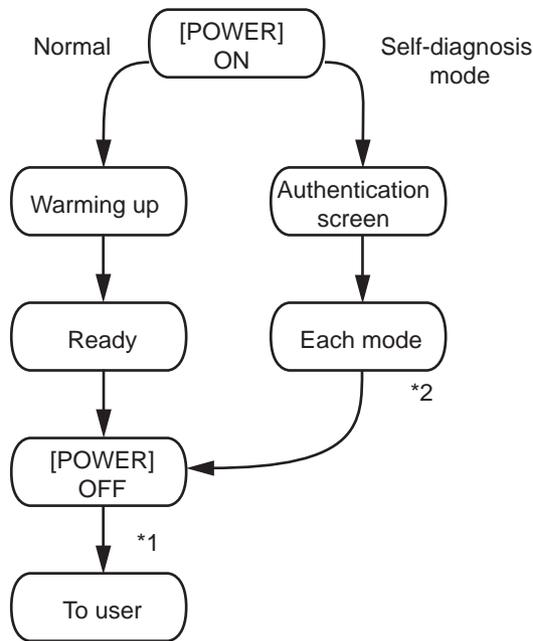
Fig.5-1

*1. Turn OFF the power after using the self-diagnosis modes, and leave the equipment to the user.
*2. Mode shown in the table "[C] List of modes"

[E] About each mode

- Control panel check mode (01)
  Operation procedure
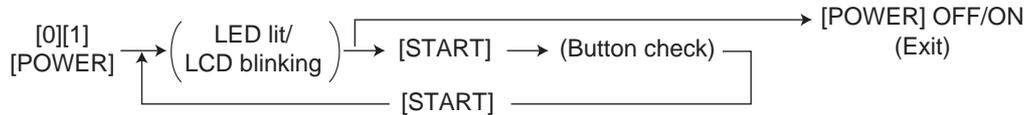
  Notes:
  - The mode can be canceled by [POWER] OFF/ON when the LED is lit and the LCD is blinking.
  - **Button Check**
    Press the buttons with LED to turn OFF the LED.
    Press the buttons without LED to display the message on the control panel.
    Press the button on touch panel to display the screen on the control panel at power-ON.
    Press [execution] on the touch panel and then the [CLEAR] button on the control panel.
    The screen then returns to the Button Check menu.

- Test mode (03)
  Refer to the following.
  📖 P. 5-8 "5.3 Input Check (Test Mode 03)"
  📖 P. 5-9 "5.4 Output Check (Test Mode 03)"

- Test print mode (04)
  Refer to the following.
  📖 P. 5-9 "5.5 Test Print Mode (Test Mode 04)"

- Adjustment mode (05)
  Refer to the following.
  📖 P. 5-10 "5.6 Operation Procedure in Adjustment Mode (05)"

- Setting mode (08)
  Refer to the following.
  📖 P. 5-12 "5.8 Operation Procedure in Setting Mode (08)"

- Assist mode (3C)
  Refer to the following.
  📖 P. 5-14 "5.9 Assist Mode (3C)"

- HDD assist mode (4C)
  Refer to 📖 P. 5-17 "5.10 HDD Assist Mode (4C)".

- File system recovery mode (5C)
  Refer to the following.
  📖 P. 5-21 "5.11 File System Recovery Mode (5C)"

- SRAM clear mode (6C)
  Refer to 📖 P. 5-26 "5.12 SRAM Clear Mode (6C)".

- List print mode (9S)
  Refer to the following.
  📖 P. 5-28 "5.13 List Print Mode (9S)"

- PM support mode (6S)
  Refer to the following.
  📖 P. 7-5 "7.4 PM Support Mode (6S)"

  Operation procedure

  ```
  [6][START] ─────┐──→ (Code) ──────→ [START] ───────┐──→ [POWER] OFF/ON
  [POWER]         │   1: Auto-toner adjustment   (Operation started)        (Exit)
                      2: PM Support Screen
  ```
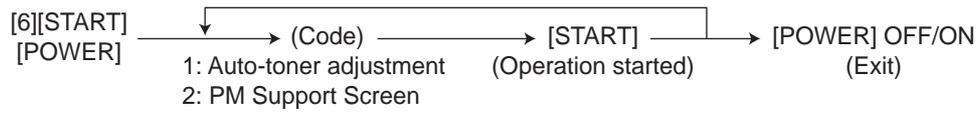
- EPU replacement mode (7S)
  Refer to the following.
  📖 P. 7-11 "7.5 EPU Replacement Mode (7S)"

- Firmware update mode (89)/(49)
  Refer to the following.
  📖 P. 11-1 "11. FIRMWARE UPDATING"

- Password reset mode (489)
  This mode resets the administrator password and service password.
  The user data is erased when resetting the passwords.

  Operation procedure

  ```
  [4][8][9] ──────────→ [START] ─────────→ [POWER] OFF/ON
  [POWER]            (Operation started)          (Exit)
  ```
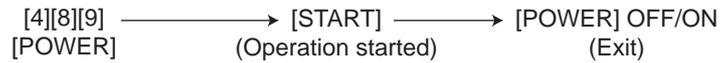
5.2 Service UI

5.2.1 Overview

The following self-diagnostic modes can be used with Service UI on the touch panel of the control panel.

- 04 TEST PRINT MODE
- 05 ADJUSTMENT MODE
- 08 SETTING MODE
- 6S PM SUPPORT MODE
- 9S LIST PRINT MODE
- FAX LIST PRINT MODE

Notes:

Not all codes of the self-diagnostic mode can be used with Service UI. Refer to chapter 15 for the codes available with Service UI.

5.2.2 Login procedure

[1] In the normal mode

(1) Turn the power ON.

(2) Press the [USER FUNCTIONS] button.

(3) With the [USER FUNCTIONS] menu displayed, enter the Service Mode password provided during product training.
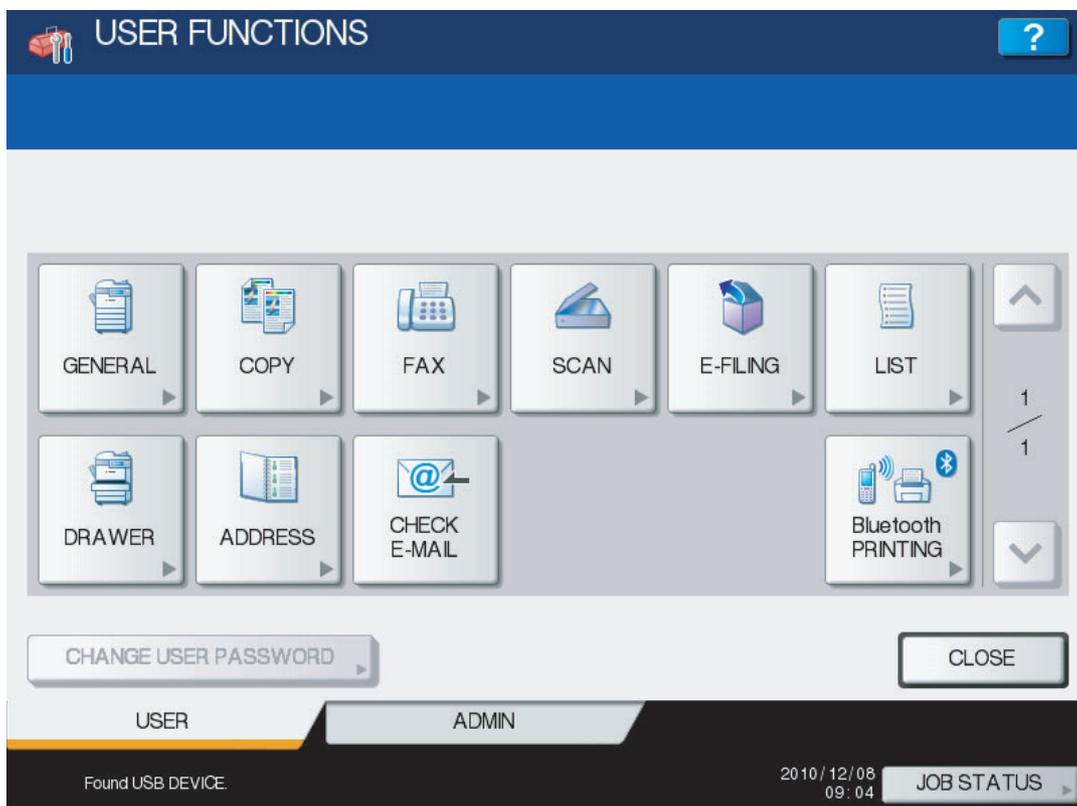
Fig.5-2

(4) Enter the user name and password on the SERVICE TECHNICIAN PASSWORD screen, then press [OK]. They are set by default as follows:

User Name	Service
Password	None
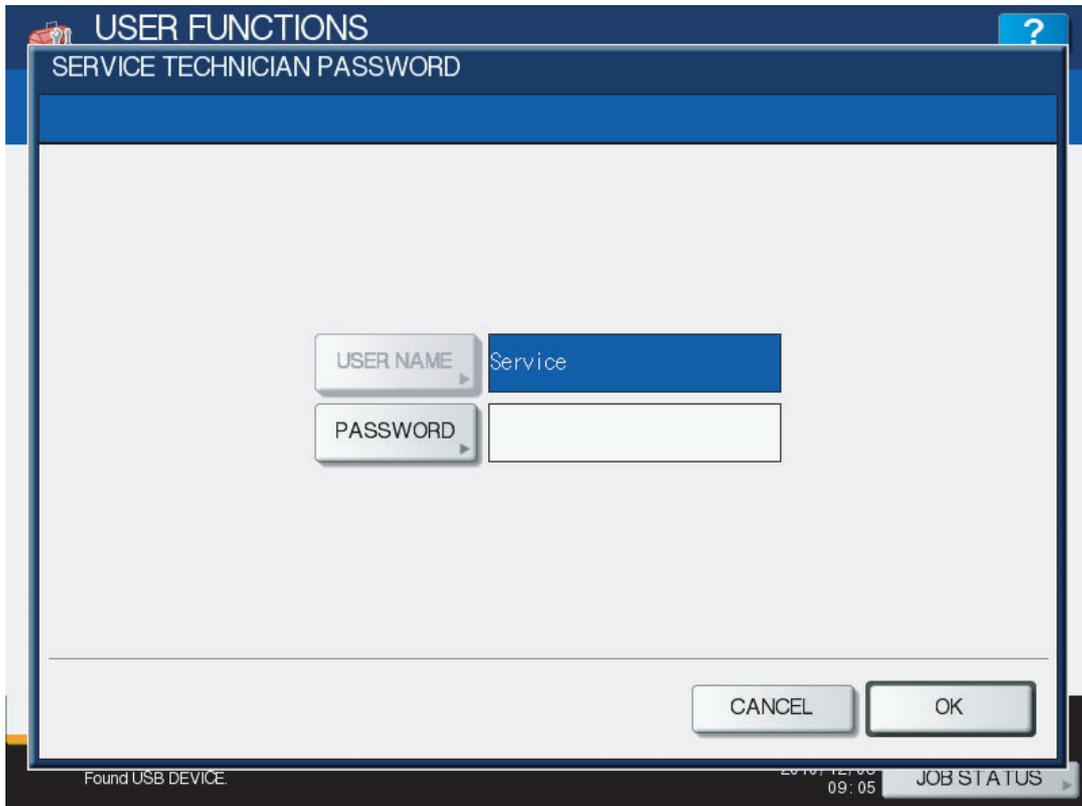
Fig.5-3

The SERVICE MODE screen is displayed.

[2] In the security mode

If the security mode (the value of 08-8911 is "3") is set, log into Service UI following the steps below.

(1) Turn the power ON.

(2) Enter the user name and password on the USER AUTHENTICATION screen. The password needs to be changed to log in for the first time.

Notes:
In case the password is forgotten, ask the administrator to reset the service password. In case both the service password and administrator password are forgotten, the passwords can be reset in the password reset mode. Note that the user data are deleted at that time.

(3) Press the [USER FUNCTIONS] button.

(4) Enter the password for Service UI on the USER FUNCTIONS screen. The SERVICE MODE screen is displayed.

5.2.3 [SERVICE MODE] Screen

After selecting the mode and pressing the [NEXT] button, the screen is switched to the selected mode.

• When the 05/08 mode is selected
The codes are displayed in one of the levels from the first to fifth.

You can proceed to the next level by selecting the item and pressing the [NEXT] button until the code appears up to the fifth level. Then if you select the code and press the [NEXT] button, the screen is switched to the adjustment mode or setting mode.

If you press the [CLASSIC] button on the screen in the first level, the screen is switched to the adjustment mode or setting mode, so that you can enter the code number.

• When the modes other than 05/08 mode are selected
The screen is switched to the selected mode.

5.2.4 Setting/Changing password

(1) Press the [SETTINGS] button on the SERVICE MODE screen to display the SETTINGS screen.
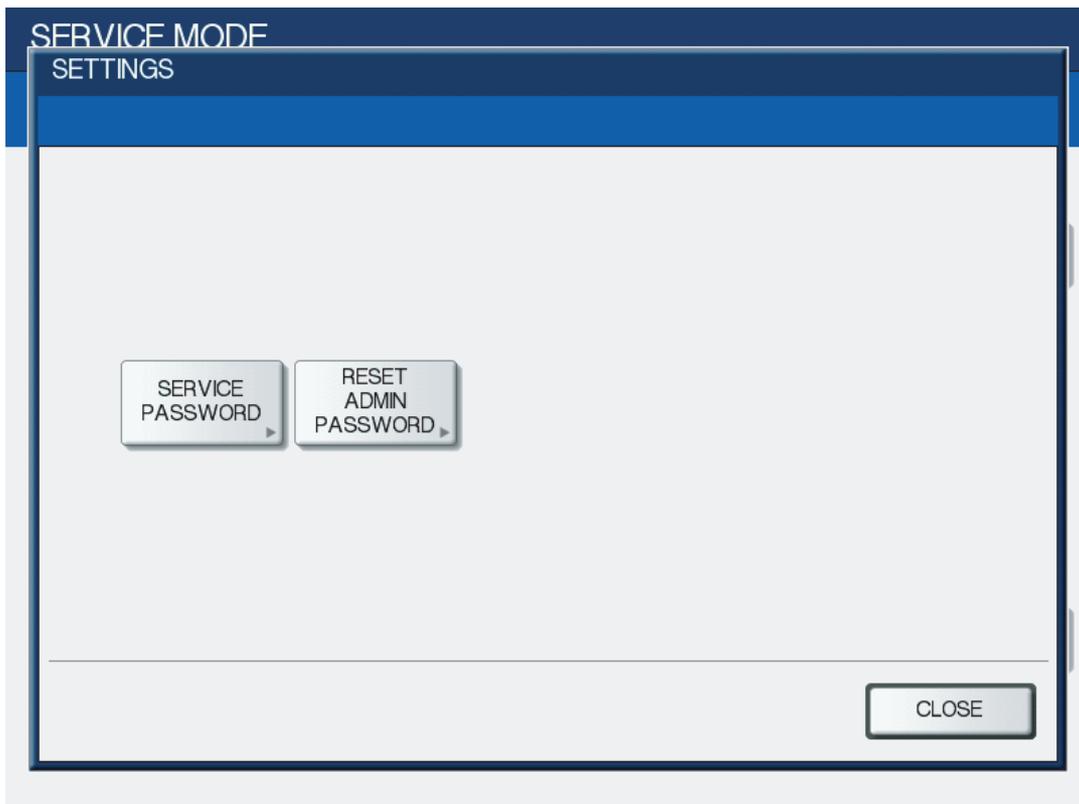
Fig.5-4

(2) Press the [SERVICE PASSWORD] button to change the service password, or [RESET ADMIN PASSWORD] to reset the administrator password.

5.3 Input Check (Test Mode 03)

The status of each input signal can be checked by pressing the [FAX] button, and the digital keys in the test mode (03).

Operation procedure

```
[0][3]                          ( [FAX] )
[POWER] ──┬─→ [START] ──┬─→ (  or   ) ──→ [Digital keys] ──→ (LCD ON) ──→ [POWER] OFF/ON
          └─[CLEAR]─┘    └─[COPY]─┘                                              (Exit)
                         └──────────── [CLEAR] ────────────────────┘
```
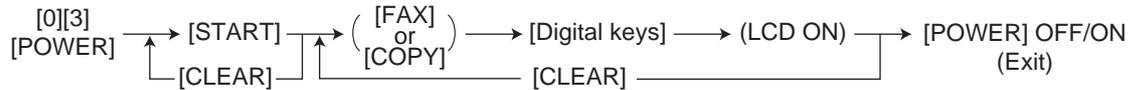
Notes:

Initialization is performed before the equipment enters the test mode.
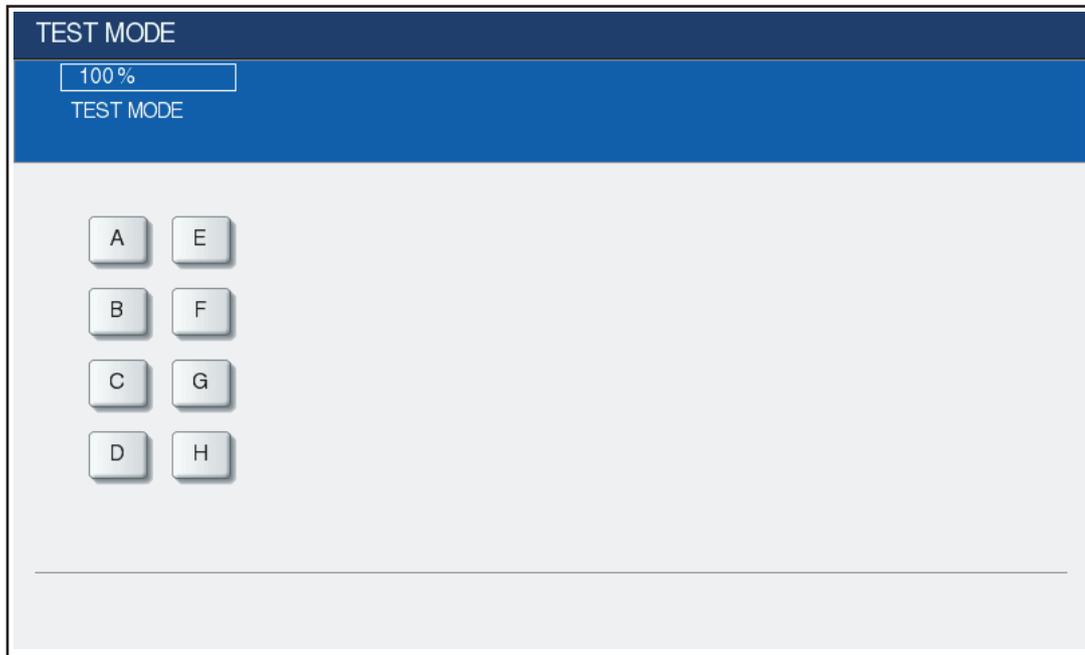
Fig.5-5 Example of display during input check

5.4 Output Check (Test Mode 03)

Status of the output signals can be checked by inputting in the following codes in the test mode 03.

Operation procedure
Procedure 1

[0][3]
[POWER] → (Code) → [START] → (Operation ON) → (Stop code) → [START] → (Operation OFF) → [POWER] OFF/ON (Exit)

Procedure 2

[0][3]
[POWER] → (Code) → [START] → (Operation One direction) → [CLEAR] → (Test mode standby) → [POWER] OFF/ON (Exit)

Procedure 3

[0][3]
[POWER] → (Code) → [START] → (Operation ON) → [START] → (Operation OFF) → [CLEAR] → (Test mode standby) → [POWER] OFF/ON (Exit)

Procedure 4

[0][3]
[POWER] → (Code) → [START] → [POWER] OFF

Procedure 5

[0][3]
[POWER] → (Code) → [START] → [Digital keys] → [START] → [POWER] OFF/ON (Exit)
[START]
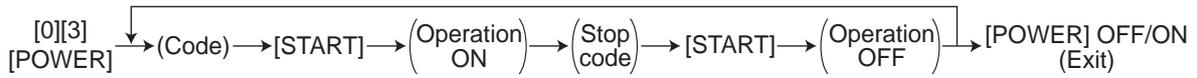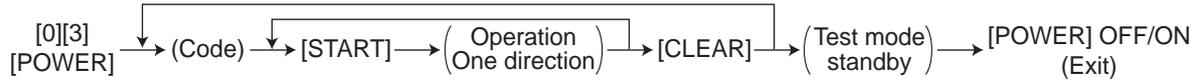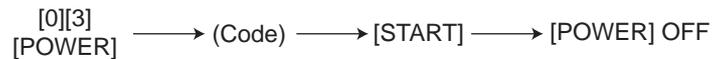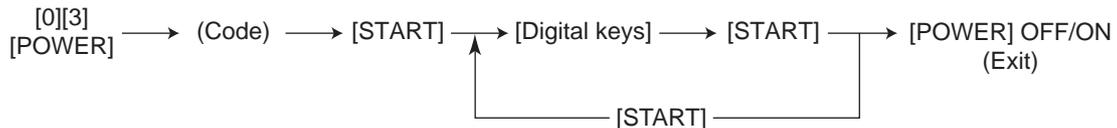
*   Return to the standby screen for code input by pressing the [CLEAR] button.

5.5 Test Print Mode (Test Mode 04)

The embedded test pattern can be printed out by keying in the following codes in the test print mode (04).

Operation procedure

[0][4]
[POWER] → (Code) → [START] → (Operation Continuous Test Printing) → [CLEAR] → [POWER] OFF/ON (Exit)

Notes:
1. When an error occurs, it is indicated on the panel, but the recovery operation is not performed. Turn OFF the power and then back ON to clear the error.
2. During test printing, the [CLEAR] button is disabled when "Wait adding toner" is displayed.

5.6 Operation Procedure in Adjustment Mode (05)

Procedure 1

[0][5]
[POWER] → [Digital key] (Code) → [START] → *[FUNCTION CLEAR] (Key in a value) → [Digital key] → [OK] or [INTERRUPT] (Stores value) → [FAX] [START] (Test copy) → [POWER] OFF/ON (Exit)

[CANCEL]

[CLEAR] (Corrects value)

*Press [FUNCTION CLEAR] to enter minus (-).

Procedure 2

[0][5]
[POWER] → (Code) → [START] → (Value displayed) → [OK] or [INTERRUPT] (Value unchangeable) → [FAX] [START] (Test copy) → [POWER] OFF/ON (Exit)

Procedure 3

[0][5]
[POWER] → [Digital key] (Code) → [START] → [UP] or [DOWN] (Adjust a value) → [OK] or [INTERRUPT] (Stores value) → [FAX] [START] (Test copy) → [POWER] OFF/ON (Exit)

[CANCEL]

[CLEAR] (Corrects value)

Procedure 4

[CANCEL]
[START]

[0][5]
[POWER] → [Digital key] (Code) → [START] → [Digital key] (Sub code) → [START] → [Digital key] *[FUNCTION CLEAR] (Key in a value) → [OK] or [INTERRUPT] (Stores value in RAM) → [FAX] [START] (Test copy) → [POWER] OFF/ON (Exit)

[CLEAR] (Corrects value)

[CLEAR] (Corrects value)

*Press [FUNCTION CLEAR] to enter minus (-).

Procedure 6

[0][5]
[POWER] → [Digital key] (Code) → [START] → (Automatic adjustment) → [FAX] [START] (Test copy) → [POWER]OFF/ON (Exit)

*[CANCEL] or [CLEAR]

* When the automatic adjustment ends abnormally, error message is displayed. Return to standby screen by pressing the [CANCEL] or [CLEAR] button.

Procedure 7
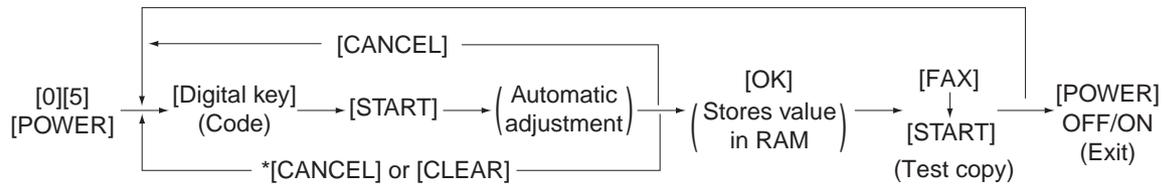
* When the automatic adjustment ends abnormally, error message is displayed.

Procedure 10
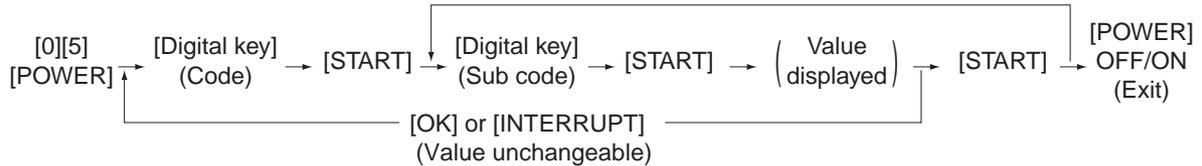
Procedure 12
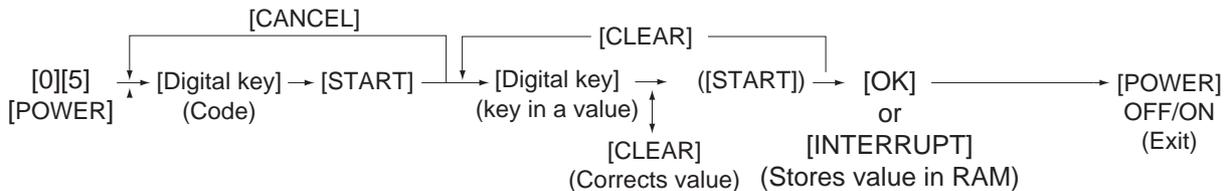
Procedure 17
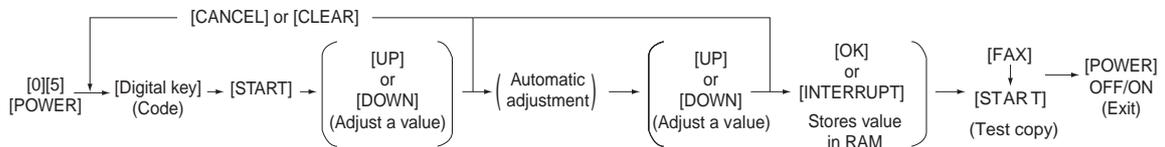
* The automatic adjustment starts when 2 minutes have passed after the [START] button is pressed.

Notes:
The fuser roller temperature control at the adjustment mode is different from that at the normal state.
Therefore, the problem of fusing efficiency may be occurred in the test copy at the adjustment mode. In that case, turn ON the power normally, leave the equipment for approx. 3 minutes after it has become ready state and then start up the adjustment mode again.

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5.7 Test print pattern in Adjustment Mode (05)

Operation: One test print is printed out when the [FAX] button is pressed after the code is keyed in at Standby Screen.

Code	Types of test pattern	Remarks
1	Grid pattern	Refer to 📖 P. 6-8 "6.3.3 Printer related adjustment".
3	Grid pattern (Duplex printing)	Refer to 📖 P. 6-8 "6.3.3 Printer related adjustment".
6	Copier gamma confirmation pattern	For confirming the reproduction of gradation.
10	Copier gamma adjustment pattern	Refer to 📖 P. 6-22 "6.4.1 Automatic gamma adjustment"

5.8 Operation Procedure in Setting Mode (08)

Procedure 1

[0][8] [POWER] → [Digital key] (Code) → [START] → [Digital key] *[FUNCTION CLEAR] (Sets or changes value) ← [CANCEL] → [OK] or [INTERRUPT] (Stores value in RAM) → [POWER] OFF/ON (Exit)

[CLEAR] (Corrects value)

* Press [FUNCTION CLEAR] to enter minus (-).

Procedure 2

[0][8] [POWER] → [Digital key] (Code) → [START] → [OK] or [INTERRUPT] (Adjustment value cannot be changed) → [POWER]OFF/ON (Exit)

Procedure 3

[0][8] [POWER] → [Digital key] (Code) → [START] → [OK] or [INTERRUPT] (Stores value in RAM) → (Automatic setting) → [POWER] OFF/ON (Exit)

[CANCEL] or [CLEAR]

Procedure 4

[0][8] [POWER] → [Digital key] (Code) → [START] → [Digital key] (Sub-code) → [START] → [Digital key] *[FUNCTION CLEAR] (Sets or changes value) ← [CANCEL] ← [START] → [OK] or [INTERRUPT] (Stores value in RAM) → [POWER] OFF/ON (Exit)

[CLEAR] (Corrects value)   [CLEAR] (Corrects value)

* Press [FUNCTION CLEAR] to enter minus (-).

Procedure 5

[0][8]
[POWER] → [Digital key] (Code) → [START] → [Digital key] (Sets or changes value) → [OK] or [INTERRUPT] (Stores value in RAM) → [POWER] OFF/ON (Exit)

[CANCEL]

[CLEAR] (Corrects value)

Procedure 9

[0][8]
[POWER] → [Digital key] (Code) → [START] → [Select icon] → [OK] or [INTERRUPT] (Stores value in RAM) → [POWER] OFF/ON (Exit)

[CANCEL]

[CLEAR] (Corrects value)

Procedure 10

[0][8]
[POWER] → [Digital key] (Code) → [START] → [Digital key] (1st setting) → [START] → [Digital key] (2nd setting) → [OK] or [INTERRUPT] (Stores value in RAM) → [POWER] OFF/ON (Exit)

[CANCEL]

[CLEAR] (Corrects value)   [CLEAR] (Corrects value)

Procedure 11 and 12

[0][8]
[POWER] → [Digital key] (Code) → [START] → [Digital key] or [Software keyboard] *1 [PAUSE] (Sets or changes value) → *2(Stores value in RAM) [OK] → [POWER] OFF/ON (Exit)

[CANCEL]

[CLEAR] (Corrects value)

*1. Press [PAUSE] to enter "-", when entering telephone number.
*2. The data are stored in SYS-RAM in procedure 11 and stored in NIC-RAM in procedure 12.

Procedure 14

[0][8]
[POWER] → [Digital key] (Code) → [START] → [Digital key] (Sub-code) → [START] → [OK] or [INTERRUPT] (Adjustment value cannot be changed) → [POWER] OFF/ON (Exit)

[CANCEL]

[CLEAR] (Corrects value)

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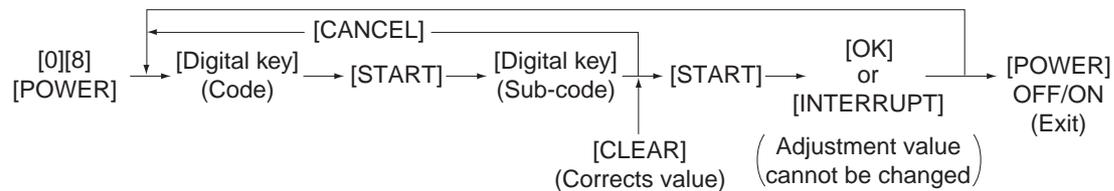
5.9 Assist Mode (3C)

5.9.1 Functions

This equipment has the Assist Mode to enable the following functions.

(1) Update error flag clearing (Clear Error Flag in Software Installation)
Even if the firmware downloading has been completed normally, the Recovery Mode may accidentally start up when the power is turned ON again. In this case, clear the Update Error flags used in the download process with this function. (Normally, the flags are automatically cleared in the download process.)
Also in the case the Recovery Mode accidentally starts up after the replacement of SRAM on the SYS board, the flags are cleared with this function.

(2) Data storage partition formatting (Format Root Partition)
When a defect occurs on the UI data, etc. which are stored in the HDD, the partition with the stored UI data, etc. is formatted with this function.
Do not use this function since it is not normally necessary.
HDD data must be installed after performing this function.

(3) HDD partition creation (Formant HDD)
When the HDD is replaced or UI data, etc. are downloaded using the USB storage, it is necessary to format a partition in the HDD before downloading. In this case, the partition is created in the HDD with this function.

   Notes:
   - When downloading with a download jig, it is not necessary to format a partition in advance.
   - Perform the HDD partition formatting only when a new HDD is installed since all data in the current HDD are erased by this operation.
   - When this operation has been done, do not perform SRAM data formatting (Clear SRAM) before the normal start-up.

(4) SRAM data format (Clear SRAM)
When SRAM is replaced with a new one, abnormal values may be written in the new SRAM. SRAM data must be formatted with this function for such case.

   Notes:
   - This function is required only when a new SRAM is installed.
   - Do not perform this function in cases other than the installation of a new SRAM because all data in the SRAM will be deleted with this function.
   - When this operation has been done, do not perform HDD partition creation (Format HDD) before the normal start-up.

(5) Encryption key / license backup/restoring (Key Backup Restore)
When the SRAM board (for the SYS board) or the SYS board is replaced or initialized, the encryption key and license are erased. Therefore, they need to be backed up or restored with this function.

   Configurations and functions of the "5.Key Backup Restore" menu

   1. Key SRAM to FROM
      Restore the encryption key from SRAM to FROM.

   2. Key FROM to SRAM
      Back up the encryption key from FROM to SRAM.

   3. License SRAM to FROM
      Restore the license from SRAM to FROM.

4. License FROM to SRAM
Back up the license from FROM to SRAM.

5. ADIKey SRAM to FROM
Restore the ADIKey from SRAM to FROM.

6. ADIKey FROM to SRAM
Back up the ADIKey from FROM to SRAM.

(6) HDD securely erasing (Erase HDD Securely)
This function is used before discarding the HDD.
It overwrites all the used areas on the HDD with the selected data, and makes it unusable.
After selecting this function, specify the level below to be overwritten.

1: LOW
This is the standard overwriting method.

2: MEDIUM
This overwriting method is more secure than LOW. The erasing time is between LOW and HIGH.

3: HIGH
This is the most secure overwriting method. It takes the longest time to erase data.

4: SIMPLE
This is the simple overwriting method. It takes the shortest time to erase data.

Key in the level number to display ">" next to it.
(At this time, if "0" is entered, the screen returns to the initial one of the Assist Mode.)
Press the [START] button to display the reconfirmation screen, and then press the [START] button again to start overwriting.

Notes:
When this operation has been done, do not perform SRAM data formatting (Clear SRAM) before the normal start-up.

(7) SRAM securely erasing (Erase SRAM Securely)
This function is used before discarding the SRAM board (for the SYS board).
It overwrites all the used areas on the SRAM board with the selected data, and makes it unusable.
Immediately after selecting this function, the processing starts and is completed.

(8) SRAM service tech password formatting (Clear Service Tech Password)
This function is needed after the HDD is replaced.
When the HDD is replaced, the service tech password stored in the new one is set as a blank.
Therefore, its password is copied to the SRAM board so that both passwords become the same with this function.

5

5.9.2　Operating Procedure of Assist Mode

(1) Turn ON the power while [3] button and [CLEAR] button are pressed simultaneously.
The following screen is displayed.

```
Firmware Assist Mode

Select number(1-8) and press START key

1. Clear Error Flag in Software Installation
2. Format Root Partition
3. Format HDD
4. Clear SRAM
5. Key Backup Restore
6. Erase HDD Securely
7. Erase SRAM Securely
8. Clear Service Tech Password
```
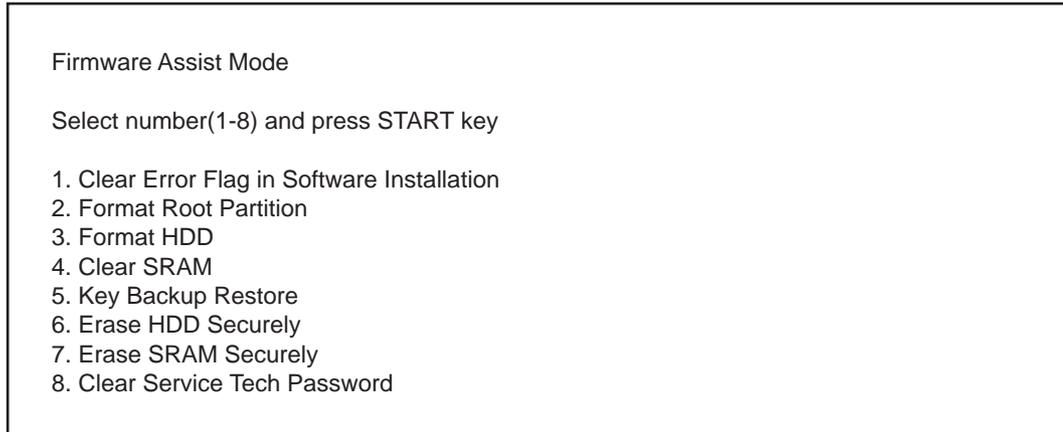
Fig.5-6

(2) Select the item with the digital keys and press the [START] button.

5.10 HDD Assist Mode (4C)

5.10.1 General description

This mode is available only when the security HDD (ADI-HDD) is mounted in the equipment. It enables you to check the type of the mounted HDD, revert the HDD to the factory default or remove keys.

Functions
- Checks the type (ADI or SATA) of the mounted HDD.
- Disposes of ADI-HDD data safely without any of leakage.
- Deletes image data when reusing a used ADI-HDD.

5.10.2 Operation procedure
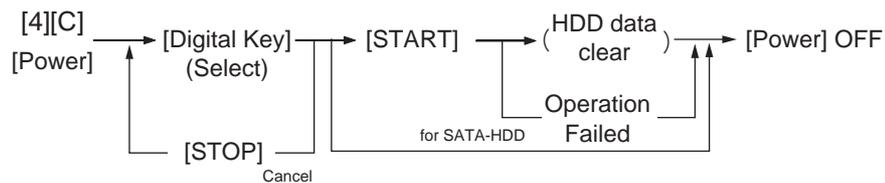
Turn the power ON while pressing the [4] and the [CLEAR] button simultaneously. Then the type of the mounted HDD is checked and either of the following screens is displayed.

- When the security HDD is mounted

| HDD Assist Mode | System Firmware Version : xxxx(x.x.x.x) |
| Current HDD type: ADI HDD | Update Mode : 4c Mode |

Select number (1-2) and press START key

    1. Revert factory initial status HDD
    2. Remove key

Fig.5-7

- When a normal HDD is mounted

```
┌─────────────────────────────────────────────────────────────────────┐
│ HDD Assist Mode  ◤            System Firmware Version  : xxxx(x.x.x.x) │
│ Current HDD type: SATA HDD            Update Mode            : 4c Mode │
├───────────────────────────────────────────────────────────────────── │
│ Select number (1-2) and press START key                               │
│                                                                       │
│     1. Revert factory initial status HDD                              │
│     2. Remove key                                                     │
│                                                                       │
├─────────────────────────────────────────────────────────────────────┤
│                                                                       │
│                                                                       │
│                                                                       │
│                                                                       │
└─────────────────────────────────────────────────────────────────────┘
```
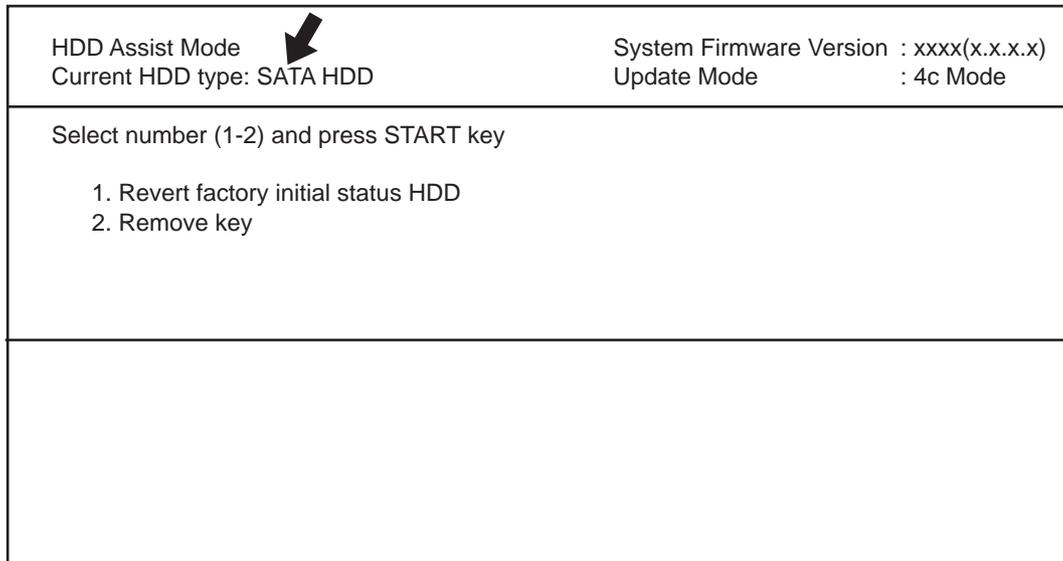
Fig.5-8

Remarks:
 If the HDD type cannot be identified, "Unknown HDD" may appear on the screen.
 Refer to 📖 P. 8-202 " [F106_1] ADI-HDD error: HDD type detection error"

Note:
 When "SATA HDD" (normal HDD) is displayed, items 1 and 2 are not selectable.
 If you select any of 1 and 2 and press the [START] button, the error message below appears.

```
┌─────────────────────────────────────────────────────────────────────┐
│ HDD Assist Mode              System Firmware Version  : xxxx(x.x.x.x) │
│ Current HDD type: SATA HDD            Update Mode            : 4c Mode │
├───────────────────────────────────────────────────────────────────── │
│ Select number (1-2) and press START key                               │
│                                                                       │
│  => 1. Revert factory initial status HDD                              │
│     2. Remove key                                                     │
│                                                                       │
├─────────────────────────────────────────────────────────────────────┤
│                                                                       │
│ Operation Failed.                                                     │
│ Press SoftPower Key to Switch Off                                     │
│                                                                       │
└─────────────────────────────────────────────────────────────────────┘
```
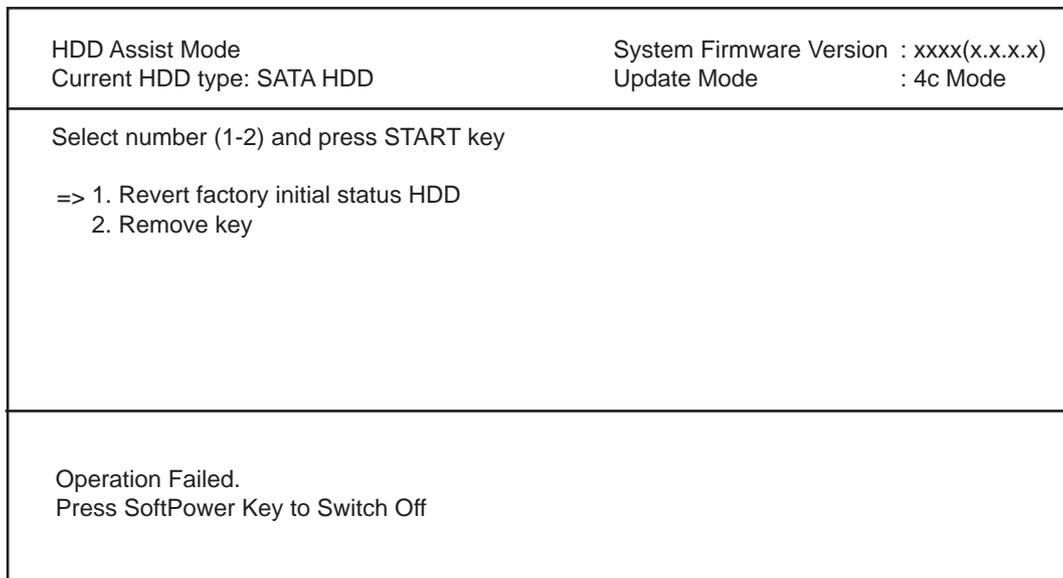
Fig.5-9

5.10.3 Functions

[A] 1. Revert factory initial status HDD

Select this to dispose of the HDD as well as the equipment.

When this item is selected, all data in the HDD are deleted and the HDD is reverted to its initial status at the factory shipment.

This operation requires only a few seconds; however, you must reinstall the HDD data in the 49 mode to make the HDD reusable.

When "1" is selected, the menu below appears.
To start, press the [START] button.

```
HDD Assist Mode                     System Firmware Version : xxxx(x.x.x.x)
Current HDD type: ADI HDD           Update Mode              : 4c Mode
─────────────────────────────────────────────────────────────────────────
Select number (1-2) and press START key

 => 1. Revert factory initial status HDD
      2. Remove key
                          ┌─────────────────────────────┐
                          │ Confirmation Screen          │
                          │        Are you sure ???       │
                          │                               │
                          │  Press START to continue      │
                          │  Press STOP to cancel         │
                          └─────────────────────────────┘
─────────────────────────────────────────────────────────────────────────
```

Fig.5-10

When the operation is finished, the result appears on the menu.

```
HDD Assist Mode                     System Firmware Version : xxxx(x.x.x.x)
Current HDD type: ADI HDD           Update Mode              : 4c Mode
─────────────────────────────────────────────────────────────────────────
Select number (1-2) and press START key

 => 1. Revert factory initial status HDD
      2. Remove key



─────────────────────────────────────────────────────────────────────────
   Data in the HDD has been complately erased.
   Press SoftPower Key to Switch Off
```

Fig.5-11

Note:

If the equipment is started in the normal mode with this condition, an HDD mounting error occurs.

[B] 2. Remove Key

Select this to reuse the HDD as well as the equipment.
When this item is selected, image data in the HDD are deleted.
This operation requires approx. 20 minutes since the partition must be rebuilt.

When "2" is selected, the menu below appears.
To start, press the [START] button.

```
HDD Assist Mode                    System Firmware Version : xxxx(x.x.x.x)
Current HDD type: ADI HDD          Update Mode             : 4c Mode
------------------------------------------------------------------------
Select number (1-2) and press START key

    1. Revert factory initial status HDD
=> 2. Remove key
                      +---------------------------+
                      | Confirmation Screen       |
                      |      Are you sure ???      |
                      |                           |
                      | Press START to continue   |
                      | Press STOP to cancel       |
                      +---------------------------+
------------------------------------------------------------------------


```

Fig.5-12

When the operation is finished, the result appears on the menu.

```
HDD Assist Mode                    System Firmware Version : xxxx(x.x.x.x)
Current HDD type: ADI HDD          Update Mode             : 4c Mode
------------------------------------------------------------------------
Select number (1-2) and press START key

    1. Revert factory initial status HDD
=> 2. Remove key




------------------------------------------------------------------------

    Data in the HDD has been erased.
    Press SoftPower Key to Switch Off


```

Fig.5-13

Note:
   After this operation, the equipment becomes reusable without reinstalling the firmware.

5.11 File System Recovery Mode (5C)

5.11.1 Overview

This is a mode to check if there is any damage to the file system (HDD) and recover it if necessary. Use this mode only in the following cases:.

There is a possibility of damage to the file system (HDD).
There is an apparent damage to the file system (HDD), requiring recovery or initialization.

This mode enables you to have the following functions:
- Check F/S: Checks the file system.
- Recovery F/S: Recovers the file system.
- Initialize HDD: Initializes HDD.
- Initialize DB: Initializes database such as log data.
- SMART Info: Displays the various information in the HDD.
- DISK Info: Displays the usage rate of HDD.

5.11.2 Operation procedure

[5][C] → [Digital key] → [START] → [Digital key] ⟶ [START] → (HDD formatting) → [POWER] OFF/ON
[POWER]   (Selection)   (Selection)   (DB formatting   (Exit)
                                                                          such as log data)
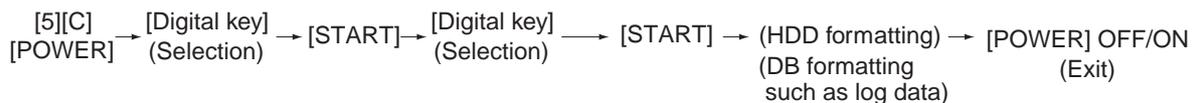
Notes:
- Do not turn the main power switch OFF after you select a menu and processing has started (during processing).
- After the processing is completed, a beep sounds 4 times and either "Completed" or "Failed" appears on the screen.

Turn ON the power while pressing the [5] and [CLEAR] button simultaneously. The following screen is displayed.

```
File System(F/S) Recovery Mode -> Check F/S

    Please Select Mode

>1. Check F/S
 2. Recovery F/S
 3. Initialize HDD
 4. Initialize DB
 5. SMART Info
 6. DISK Info
```
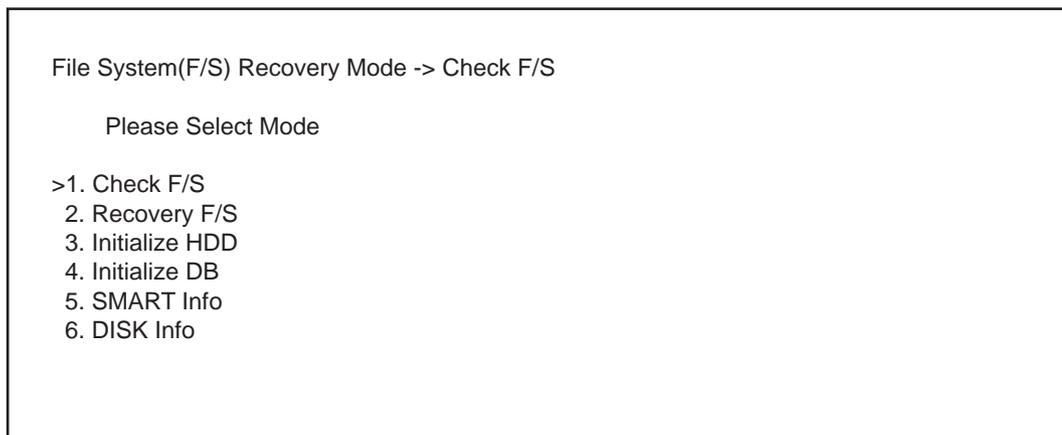
Fig.5-14

Remarks:
When the mode is started, "1. Check F/S" is selected by default.
(">" is displayed on the left of the selected number.)

5.11.3 Functions

[A] Check of the File System (Check F/S)

In case that particular service calls occur or there is a possibility of damage to the file system, the status of each partition in the HDD can be checked.

```
File System(F/S) Recovery Mode -> Check F/S

    Please Select Partition        0: Main menu

 1. ALL
 2. /
 3. /work
 4. /registration
 5. /backup
 6. /imagedata
 7. /storage
 8. /encryption
```
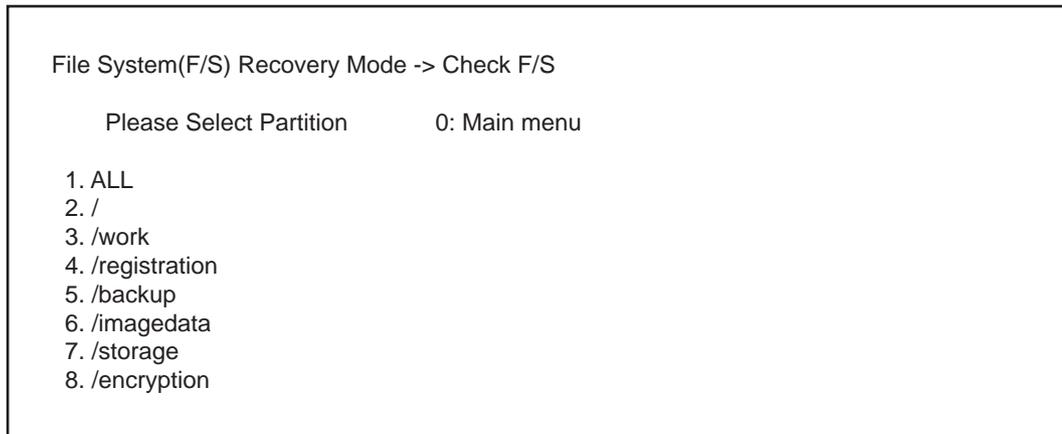
Fig.5-15

Explanation for each item
- 1: Checks all partitions.
- 2: Checks root partition only.
- 3-8: Checks each partition shown above.
  Notes:
    More than one partition can be selected. (">" is displayed on the left of the selected number.)
* If damage is discovered, recover or initialize the file system (HDD).

[B] Recovery of the File System (Recovery F/S)

In case that an error occurs during the file system check, each partition can be recovered.

```
File System(F/S) Recovery Mode ->  Recovery F/S

    Please Select Partition        0: Main menu

 1. ALL
 2. /
 3. /work
 4. /registration
 5. /backup
 6. /imagedata
 7. /storage
 8. /encryption
```
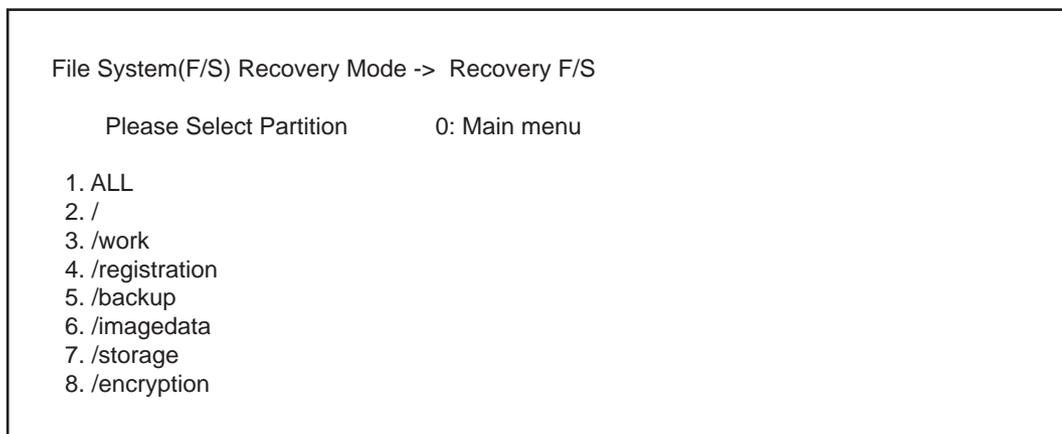
Fig.5-16

Explanation for each item
- 1: Recovers all partitions.
- 2: Recovers root partition only.
- 3-8: Recovers each partition shown above.
  Remarks:
    More than one partition can be selected. (">" is displayed on the left of the selected number.)

*   If an error occurs during recovery, initialize the file system (HDD).

[C]   Initialize the File System (Initialize HDD)

In case that an error occurs during the file system check and the partition cannot be recovered with the recovery, each partition can be initialized.

```
File System(F/S) Recovery Mode -> Initialize HDD

    Please Select Partition

1. Except /
2. /work
3. /registration
4. /backup
5. /imagedata
6. /storage
7. /encryption
8. /TAT
```
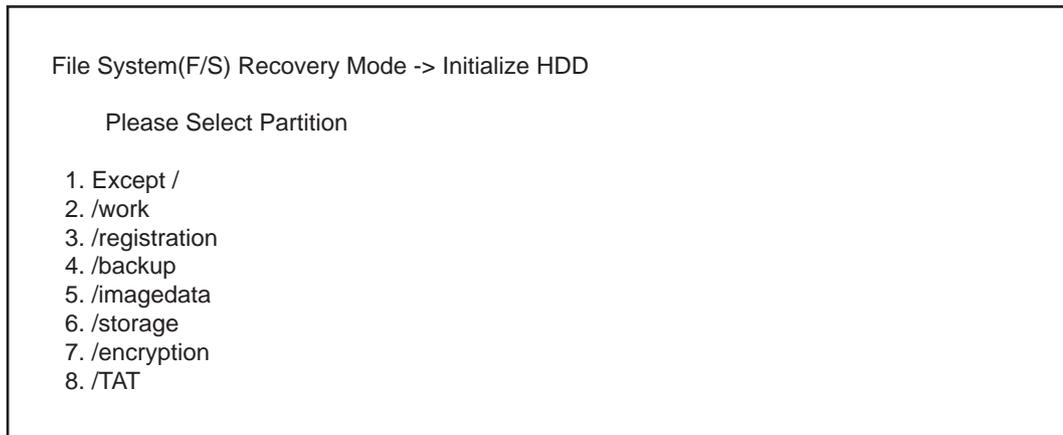
Fig.5-17

Explanation for each item
- 1: Initializes partitions other than root one and creates initial files.
- 2: Initializes a partition (/work) and creates an initial file.
- 3: Initializes a partition (/registration) and creates an initial file.
- 4: Initializes a partition (/backup) and creates an initial file.
- 5: Initializes a partition (/imagedata) and creates an initial file.
- 6: Initializes a partition (/storage) and creates an initial file
- 7: Initializes a partition (/encryption) and creates an initial file.
- 8: Initializes a partition (/TAT) and creates an initial file.

    Remarks:
    More than one partition can be selected. (">" is displayed on the left of the selected number.)

- If [1. Except /] or [7. /encryption] is selected, applications and OS data in the equipment are also initialized. In this case, the applications and the file system must be reinstalled. Install the system software (HD Data) by performing [49] -> [4] after initialization.
- If [1. Except /] is selected, minimal data necessary for normal startup are automatically recovered.
- If [1. Except /] is selected, log database is also initialized. Back up the data before initializing if necessary.
- If [1.Except/] is selected, do not perform SRAM data formatting (Clear SRAM) before the normal start-up.

[D]   Initialize the DB (Initialize DB)

In case that particular service calls occur or there is a possibility of damage to the databases, each one can be initialized.

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```
File System(F/S) Recovery Mode ->   Initialize DB

    Please Select Partition          0: Main menu

 1. LDAP DB
 2. Log DB(Job,Msg)
```
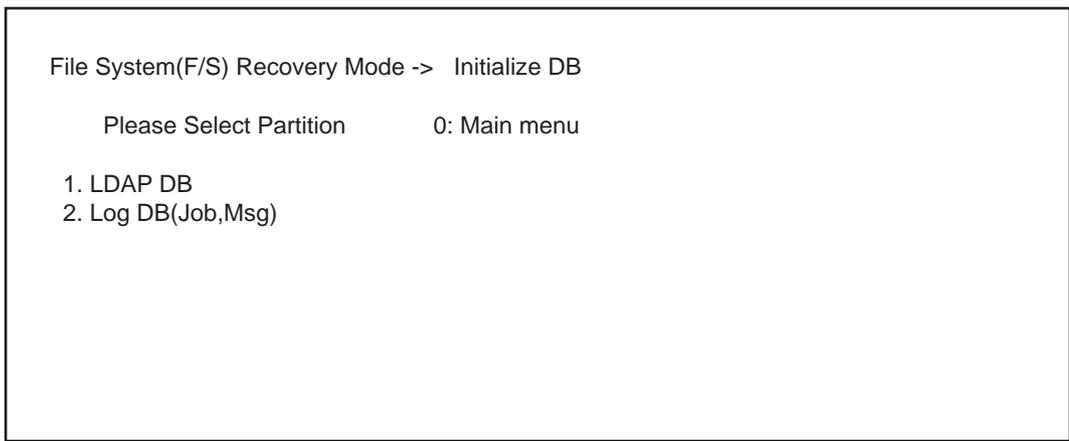
Fig.5-18

Explanation for each item
- 1: Initializes address book data and the user information database.
- 2: Initializes job log data and the message database.
  Remarks:
  The selected databases are initialized and recreated in the next normal startup.

[E] Displaying various data in the HDD (SMART Info)

Various data in the HDD can be displayed. (Data equivalent to the setting contents of 08-9065 are displayed.)
When this item is selected, data in the HDD embedded in the equipment are displayed.

```
File System(F/S) Recovery Mode ->   SMART Info

Please Select     1: PrevPage    2:NextPage    0: Main menu

Model : Hitachi  xxxxxxxxxxxx              Serial : xxxxxxxxx
ID NAME                        VALUE        NAV     Worst
01  Read Error Rate              0          100      100
02  Throughput Performance       0          100      100
03  Spin Up Time                15          253      253
.                                .           .        .
.                                .           .        .
.                                .           .        .
```
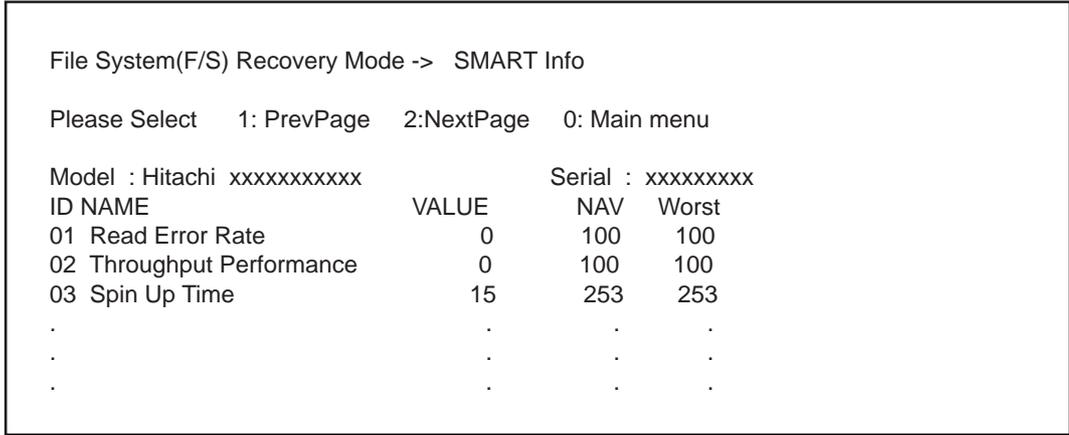
Fig.5-19

Remarks:
NAV: Normalized Attribute Value
Worst: Worst Ever Normalized Attribute Value
Notes:
The values of NAV and Worst should be treated as a rough reference since their basis may differ depending on the specification of HDD manufacturers.

[F] Displaying usage rate of each partition (DISK Info)

The usage rate of each partition can be checked.
When this item is selected, the usage rate of each partition is displayed.

```
File System(F/S) Recovery Mode ->   DISK Info

                             0: Main menu

Partition name        ALL(Mbyte)    FREE(Mbyte)    USE(%)
/                         8737          5401        33.1%
/work                    10326          9563         2.3%
/registration             3099          2861         2.6%
/backup                   1036           949         3.3%
/imagedata               24778         23343         0.7%
/storage                 26873         25332         0.7%
/encryption          --- encrypted partition ---
```

Fig.5-20

Remarks:

The disk information of a partition indicated as "Encrypted Partition" is not displayed as it is encrypted.

5.12 SRAM Clear Mode (6C)

5.12.1 General description

This is a mode in which you can clear particular errors such as F800 or F900 without entering a Service Technician password.

For example, when SYS-SRAM is in an abnormal status or needs replacement but service technicians cannot log into the 3C mode, SRAM can be initialized by entering the SRAM clear mode (6C) and selecting item 1 below.

The content of item 1 in this mode is the same as that of item 4 in the 3C mode (Clear SRAM).

Use this mode to clear the SRAM data when a particular error occurs or service technicians cannot log in with their password and therefore cannot use the 3C mode.

Functions
- Sets the serial number of this equipment.
- Clears SRAM data when the 3C mode cannot be used.
- Clears F800 error.
- Clears F900 error.

5.12.2 Operation procedure

```
[6][C]  ──→ [Digital Key] ──→ [START] ──→ [START] ──→ ( SRAM data ) ──→ [Power] OFF
[Power]      (Select)                                      clear
                                                            or
                             [STOP] ──Cancel──             S/N Input
```
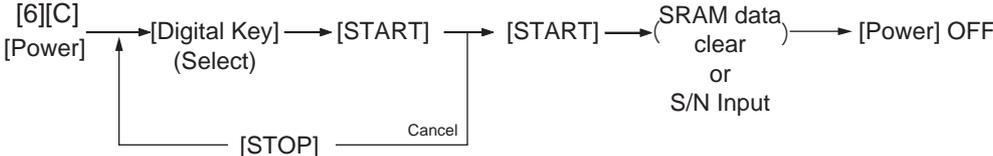
Turn the power ON while pressing the [6] and the [CLEAR] button simultaneously. Then the following screen is displayed.

Key in the desired item number and then press the [START] button.

SRAM Clear Mode	System Firmware Version : xxxx(x.x.x.x)
	Update Mode : 6c Mode
0. Set Serial Number	
1. Clear SRAM	
2. Reset Date and Time	
3. SRAM Re-Initialize Support	

Fig.5-21

Notes:
- When "0" is keyed in and the [START] button is pressed, the menu to key in the serial number appears. Key in the serial number of this equipment and then press [OK] to determine the setting.
- Items 1 and 2 can be canceled while 0 and 3 cannot.
- When "3" is keyed in and the [START] button is pressed, the operation starts.

5.12.3 Functions

[A] 0. Set Serial Number

When replacing SYS-SRAM, select this to set the serial number of the equipment since it must be done in advance of recovery from SRAM backup data.
- Clear SRAM first and then set the serial number in this mode.
- Recover from SRAM backup data after setting the serial number.
  Refer to 📖 P. 12-2 "12.1.4 Cloning procedure"

Select "0" and then press the [START] button. Then key in the serial number of this equipment.
The keyed in serial number appears on the menu.

```
┌─────────────────────────────────────────────────────────────────────┐
│  SRAM Clear Mode                    System Firmware Version : xxxx(x.x.x.x)  │
│                                     Update Mode             : 6c Mode   │
│  ─────────────────────────────────────────────────────────────────── │
│                                                                        │
│   > 0. Set Serial Number     Serial Number Setting Complated..  xxxxxxxxxx │
│     1. Clear SRAM                                                       │
│     2. Reset Date and Time                                             │
│     3. SRAM Re-Initialize Support                                      │
│                                                                        │
│                                                                        │
│  ─────────────────────────────────────────────────────────────────── │
│                                                                        │
│                                                                        │
│                                                                        │
└─────────────────────────────────────────────────────────────────────┘
```

Fig.5-22

[B] 1. Clear SRAM

Select this to clear all SRAM data when replacing SYS-SRAM.
- Replace the SRAM board and then clear the SRAM data.
- After clearing the SRAM data, initialize SRAM following its replacement procedure.
  Notes:
  > When this operation has been done, do not perform HDD partition creation (Format HDD) before the normal start-up.

[C] 2. Reset Date and Time

Select this to clear an F800 error which occurred when the date and time were set as after the end of the year 2037 or when the actual end of the year 2037 has come.
- After selecting this, start the equipment in the normal mode to reset the date and time.

[D] 3. SRAM Re-Initialize Support

Select this to clear an F900 error which occurred when SYS-SRAM and the SYS board are replaced at the same time, since this error cannot be cleared in the 3C mode.
- After updating with a download jig and clearing the SRAM data, select this item.
- After selecting this, initialize SRAM following its replacement procedure.

5.13 List Print Mode (9S)

5.13.1 Operation procedure

Print output

```
[9][START]
[POWER]  →  (Code)  ————————→ [START] → [Digital keys] → [START] → [Digital keys] ————→ [START] → [POWER]
            101: Adjustment mode (05)    ( Key in the first )          ( Key in the last )       ( List starts to )   OFF/ON
            102: Setting mode (08)       ( code to be printed )        ( code to be printed )     ( be printed )       (Exit)

         →  (Code) ————————————————————————————————————————————————————————————
            103: PM support mode
            104: Stored information of pixel counter (toner cartridge reference)
            105: Stored information of pixel counter (service technician reference)
            106: Error history (Maximum 1000 items)
            107: Error history (Latest 80 items)
            108: Firmware update log (Maximum 200 items)
            110: Power-ON/OFF log (Maximum 100 items)
            111: Version List
            114: Total counter list
            121: (05) adjustment value difference
            122: (08) setting value difference
```

CSV output

```
[9][START]
[POWER]  → Connect → (Code)  ————————→ [START]→ [Digital keys]→[START]→[Digital keys] ————→[START]→ Disconnect→[POWER]
           USB       201: Adjustment mode (05)  ( Key in the first )     ( Key in the last )     ( List starts to )  USB       OFF/ON
                     202: Setting mode (08)     ( code to be printed )   ( code to be printed )   ( be printed )               (Exit)

                   → (Code) ————————————————————————————————————————————————————————————
                     203: PM support mode
                     204: Stored information of pixel counter (toner cartridge reference)
                     205: Stored information of pixel counter (service technician reference)
                     206: Error history (Maximum 1000 items)
                     208: Firmware update log (Maximum 200 items)
                     210: Power-ON/OFF log (Maximum 100 items)
                     211: Version list CSV file output
                     214: Total counter list CSV file output
                     221: (05) adjustment value difference
                     222: (08) setting value difference
                     223: Job log/Message log
                     300: All CSV files
```

Notes:

Precautions when storing information into USB media
- When storing the setting information of the equipment into a USB media, be sure to obtain permission from a user in advance.
- When storing the setting information of the equipment into a USB media, the information is printed out in a CSV format. Handle and manage the information with extra care.
- Do not lose or leak the setting information of the equipment.
- Do not use the setting information of the equipment for purposes other than maintenance or product services.
- Provide the information promptly if a user requires so.
- The buttons on the control panel keep blinking while data are being stored in the USB media. Do not disconnect the USB media while data are being stored.

Remarks:

In the USB storage procedure above, lists are stored in a CSV format. The names of the CSV files are shown below.
201: ADJUSTMENT_LIST_serial_date and time(YYYYMMDDHHMMSS).csv
202: SETTING_LIST_serial_date and time(YYYYMMDDHHMMSS).csv
203: PM_LIST_serial_date and time(YYYYMMDDHHMMSS).csv
204: PIXEL_TONER_LIST_serial_date and time(YYYYMMDDHHMMSS).csv

205: PIXEL_SERVICE_LIST_serial_date and time(YYYYMMDDHHMMSS).csv
206: ERROR_LOG_serial_date and time(YYYYMMDDHHMMSS).csv
208: FW_UPGRADE_LOG_serial_date and time(YYYYMMDDHHMMSS).csv
210: POWER_ONOFF_LOG_serial_date and time(YYYYMMDDHHMMSS).csv
211: VERSION_LIST_serial_date and time(YYYYMMDDHHMMSS).csv
214: TOTAL_COUNTER_LIST_serial_date and time(YYYYMMDDHHMMSS).csv
221: 05DIFFERENCE_CODE_LIST_serial_date and time(YYYYMMDDHHMMSS).csv
222: 08DIFFERENCE_CODE_LIST_serial_date and time(YYYYMMDDHHMMSS).csv
223: JOB_LOG_serial_date and time(YYYYMMDDHHMMSS).tar.gz (encrypted file)/
      MESSAGE_LOG_ serial_date and time(YYYYMMDDHHMMSS).tar.gz (encrypted file)

5.13.2   List printing

Lists below are output in the list print mode.
List data are printed out or output in a CSV format by storing them in a USB media. Paper sizes available for this printing are A4 or LT or larger. This section introduces a sample of each list.
Starting the list print mode: [9] + [START] + [ON/OFF]

Lists	List code	
	Printout	**CSV file output**
Adjustment mode (05) data list	101	201
Setting mode (08) data list	102	202
PM support mode data list	103	203
Pixel counter list (toner cartridge reference)	104	204
Pixel counter list (service call reference)	105	205
Error history list	106 (Maximum 1000 items)	206 (Maximum 1000 items)
Error history list	107 (Latest 80 items)	-
Firmware upgrade log	108 (Maximum 200 items)	208 (Maximum 200 items)
Power ON/OFF log	110 (Maximum 100 items)	210 (Maximum 100 items)
Version list	111	211
Total counter list	114	214
(05) adjustment value difference	121	221
(08) setting value difference	122	222
Job log/Message log	-	223
All CSV files	-	300

- Adjustment mode (05)


```
05 ADJUSTMENT  MODE    DATA  LIST        S/N: xxxxxxxxx        TOTAL:       9999999

20xx-xx-xx xx:xx                         TOSHIBA e-STUDIOxxx   DF TOTAL:    9999999


 CODE      DATA    CODE      DATA    CODE      DATA    CODE      DATA

 2000      128     3860       88     4830      128     5920      128
```

Fig.5-23

The selected adjustment codes and the current adjustment value for each code are output in a list.
See the following page for the adjustment code (05):
Refer to chapter 15 - "Adjustment Code (05)".

- Setting mode (08)


```
08 SETTING MODE   DATA LIST        S/N: xxxxxxxx      TOTAL:      9999999
                                   TOSHIBA e-STUDIOxxx   DF TOTAL:  9999999
20xx-xx-xx xx:xx


CODE      DATA    CODE      DATA    CODE      DATA    CODE      DATA

2010        2    2880        12    3040         0    3070         0
```

Fig.5-24

The selected setting codes and the current setting value for each code are output in a list. See the
following page for the setting code (08):
Refer to chapter 15 - "Adjustment Code (05)".

- PM support mode


```
PM SUPPORT CODE LIST
                                   S/N: xxxxxxxx      TOTAL:      9999999
                                   TOSHIBA e-STUDIOxxx   DF TOTAL:  9999999
20xx-xx-xx xx:xx

UNIT                   OUTPUT PAGES/    PM OUTPUT PAGE/    DRIVE COUNTS    PM DRIVE COUNTS
                       DEVELOP COUNTS   DEVELOP COUNTS
DRUM                        2516           70000            11735           170000
DRUM BLADE                  2516           70000            11735           170000
GRID                        2516           70000            11735           170000
MAIN CHARGER NEEDLE         2516           70000            11735           170000
CHARGER CLEANING PAD        2516           70000            11735           170000
```

Fig.5-25

The number of pages currently output (OUTPUT PAGES/DEVELOP COUNTS), the recommended
number of output pages for PM (PM OUTPUT PAGES/DEVELOP COUNTS), the current drive count
(DRIVE COUNTS) and the recommended drive count for PM (PM DRIVE COUNTS) are output
together with PM units. Use this list for confirming the PM units to be replaced at each PM. See the
following page for PM:
Refer to 📖 P. 7-1 "7. PREVENTIVE MAINTENANCE (PM)".

- Stored information of pixel counter (toner cartridge reference)

```
PIXEL COUNTER CODE LIST          S/N: xxxxxxxxx      TOTAL:        9999999
                                 TOSHIBA e-STUDIOxxx  DF TOTAL:     9999999
20xx-xx-xx xx:xx

TONERCARTRIDGE


No DATE              COLOR                PPC    PRN    FAX    TOTAL

0  20xx-xx-xx        Print Count[LT/A4]   181    45     ---    226
1  20xx-xx-xx        Average Pixel Count[%]  2.70  1.74   ---    2.51
2  20xx-xx-xx        Latest Pixel Count[%]   6.15  0.39   ---    0.39
```

Fig.5-26

Pixel counter data (toner cartridge reference) are output in a list. See the following page for the pixel counter:

📖 P. 5-39 "5.14 Pixel counter and its related code"

- Stored information of pixel counter (service technician reference)

```
PIXEL COUNTER CODE LIST          S/N: xxxxxxxxx      TOTAL:        9999999
                                 TOSHIBA e-STUDIOxxx  DF TOTAL:     9999999
20xx-xx-xx xx:xx

SERVICEMAN


No  DATE             COLOR                PPC    PRN    FAX    TOTAL

0   20xx-xx-xx       Print Count[LT/A4]   181    45     ---    226
1   20xx-xx-xx       Average Pixel Count[%]  4.95  2.34   ---    4.43
2   20xx-xx-xx       Latest Pixel Count[%]   8.36  2.34   ---    2.34
```

Fig.5-27

Pixel counter data (service call reference) are output in a list. See the following page for the pixel counter:

📖 P. 5-39 "5.14 Pixel counter and its related code"

• Error history

```
ERROR  HISTORY  LIST
                                        S/N: xxxxxxxxx      TOTAL:        9999999
                                        TOSHIBA e-STUDIOxxx   DF TOTAL:     9999999
20xx-xx-xx xx:xx

CODE   COUNTER    DATE        TIME     ZOOM_XY      ABCD EFHI JLOP Q R
F110   00000000   xxxx-xx-xx  xx:xx:xx  000 000     0000_0000_0000_0_0000000000
F110   00000000   xxxx-xx-xx  xx:xx:xx  000 000     0000_0000_0000_0_0000000000
F110   00000000   xxxx-xx-xx  xx:xx:xx  000 000     0000_0000_0000_0_0000000000
F110   00000000   xxxx-xx-xx  xx:xx:xx  000 000     0000_0000_0000_0_0000000000
F110   00000000   xxxx-xx-xx  xx:xx:xx  000 000     0000_0000_0000_0_0000000000
EAD0   00000000   xxxx-xx-xx  xx:xx:xx  000 000     0000_0000_0000_0_0000000000
E860   00000000   xxxx-xx-xx  xx:xx:xx  000 000     0000_0000_0000_0_0000000000
E731   00000000   xxxx-xx-xx  xx:xx:xx  000 000     0000_0000_0000_0_0000000000
E090   00000000   xxxx-xx-xx  xx:xx:xx  000 000     0000_0000_0000_0_0000000000
E870   00000000   xxxx-xx-xx  xx:xx:xx  000 000     0000_0000_0000_0_0000000000
E724   00000000   xxxx-xx-xx  xx:xx:xx  000 000     0000_0000_0000_0_0000000000
```

Fig.5-28

The error history is output. See the following page for the parameters for each error:
Refer to 📖 P. 8-31 "8.2.4 Printer function error".

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
SELF-DIAGNOSIS MODES

- Firmware update log

Fig.5-29

Firmware upgrade logs are output.
- The MANUFACTURE field shows the date of manufacture. The UNPACKING field shows the date that the equipment was unpacked.
- Only the versions of ROMs downloaded using a USB download jig are displayed.

Item	Content
USER	User who updated firmware
ROM/VERSION	Version of firmware
DATE	Date that firmware was updated
TOTAL	Total counter data when firmware was updated
COPY (B)	Copier counter data (black) when firmware was updated
COPY (2)	Copier counter data (twin color) when firmware was updated
COPY (C)	Copier counter data (full color) when firmware was updated
PRINT (B)	Printer counter data (black) when firmware was updated
PRINT (2)	Printer counter data (twin color) when firmware was updated
PRINT (C)	Printer counter data (full color) when firmware was updated
LIST	List print counter data when firmware was updated
FAX	Fax print counter data when firmware was updated
STATUS	Result of update

- Power-ON/OFF log


```
POWER ON_OFF LOG
                                    S/N: xxxxxxxxx      TOTAL:        9999999
                                    TOSHIBA e-STUDIOxxx   DF TOTAL:      9999999
20xx-xx-xx xx:xx

DATE       TIME      FUNCTION    TOTAL        DATE       TIME      FUNCTION    TOTAL
xxxx-xx-xx  xx:xx:xx  ON          99999999     xxxx-xx-xx  xx:xx:xx  ON          99999999
xxxx-xx-xx  xx:xx:xx  OFF         99999999     xxxx-xx-xx  xx:xx:xx  OFF         99999999
xxxx-xx-xx  xx:xx:xx  ON          99999999     xxxx-xx-xx  xx:xx:xx  ON          99999999
xxxx-xx-xx  xx:xx:xx  OFF         99999999     xxxx-xx-xx  xx:xx:xx  OFF         99999999
xxxx-xx-xx  xx:xx:xx  ON          99999999     xxxx-xx-xx  xx:xx:xx  RMT_OFF     99999999
xxxx-xx-xx  xx:xx:xx  OFF         99999999
xxxx-xx-xx  xx:xx:xx  ON          99999999
xxxx-xx-xx  xx:xx:xx  OFF         99999999
xxxx-xx-xx  xx:xx:xx  RMT_OFF     99999999
xxxx-xx-xx  xx:xx:xx  OFF         99999999
    .        .         .            .
    .        .         .            .
    .        .         .            .
```

Fig.5-30

Power ON/OFF logs are output.
- Note that cases that the power was turned OFF with the main power switch (not with the [ON/ OFF] button on the control panel) will not be displayed.

Item	Content
DATE	Date that the power was turned ON or OFF
TIME	Time that the power was turned ON or OFF
FUNCTION	Whether the power was turned ON or OFF, or if it was turned ON or OFF with a remote reset function
TOTAL	Total counter data when the power was turned OFF and then back ON

- Version list

```
VERSION LIST                    S/N: xxxxxxxxx      TOTAL:      9999999

                                TOSHIBA e-STUDIOxxx  DF TOTAL:   9999999

20xx-xx-xx xx:xx

SYSTEM FIRMWARE ROM VERSION          : Txxxxxxxxxxx
SYSTEM FIRMWARE INTERNAL ROM VERSION: Vx.x.x.xx.xx
PRINTER ROM VERSION                  : xxxM-xxx
SCANNER ROM VERSION                  : xxxS-xxx
RADF ROM VERSION                     : DF-xxx
FINISHER STACKER ROM VERSION         : FIN-
FINISHER SADDLE ROM VERSION          : SDL-
FINISHER PUNCH ROM VERSION           : PUN-
CONVERTER ROM VERSION                : CNV-xxx
FAX BOARD FIRMWARE ROM VERSION       : Fxx-xxx
SYSTEM FIRMWARE INTERNAL OS VERSION  : Vx.xxx.x.x
HDD DATA VERSION                     : Txxxxxxxxxxx
SYSTEM FIRMWARE OS VERSION           : Txxxxxxxxxxx
LANGUAGE VERSION
   English(US)                       : xxx.xxx  xxx xxx xx xx:xx:xx xxxx
                .                                       .
                .                                       .
                .                                       .

CAPACITY OF HDD                      : xx.x GB
DEVICE INFORMATION OF HDD            : xxx xxxxxxx-xxxxxx
SERIAL NUMBER OF HDD                 : xx-xxxxxxxxxxxx
MEMORY SIZE                          : xxxx MB / xxxx MB
INSTALLED ELK NAME                   : Data overwrite enabler
                                        IPSec enabler
                                        Meta scan enabler
                                        External interface enabler
                                              .
                                              .
                                              .
```

Fig.5-31

The list of versions is output.

Notes:

Some of the characters in the fonts that are used to print the version list are not supported.
As a result, the language names under LANGUAGE VERSION may not be printed correctly
when printing the version list.

• Total counter list

```
┌─────────────────────────────────────────────────────────────────────────────┐
│                                                                               │
│  TOTAL COUNTER LIST                 S/N: xxxxxxxxx      TOTAL:      9999999    │
│  20xx-xx-xx xx:xx                   TOSHIBA e-STUDIOxxx  DF TOTAL:   9999999   │
│                                                                               │
│                                                                               │
│  PRINT COUNTER                                                                │
│      COPY                                                                     │
│                        COPY       FAX        PRINTER    LIST       TOTAL      │
│            SMALL        xxxxxxxxx  xxxxxxxxx  xxxxxxxxx  xxxxxxxxx  xxxxxxxxx  │
│            LARGE        xxxxxxxxx  xxxxxxxxx  xxxxxxxxx  xxxxxxxxx  xxxxxxxxx  │
│            TOTAL        xxxxxxxxx  xxxxxxxxx  xxxxxxxxx  xxxxxxxxx  xxxxxxxxx  │
│                                                                               │
│  SCAN COUNTER                                                                 │
│      TOTAL                                                                    │
│                        FULL COLOR  BLACK      TOTAL                           │
│            COPY         xxxxxxxxx   xxxxxxxxx  xxxxxxxxx                       │
│            FAX          xxxxxxxxx   xxxxxxxxx  xxxxxxxxx                       │
│            NETWORK      xxxxxxxxx   xxxxxxxxx  xxxxxxxxx                       │
│            TOTAL        xxxxxxxxx   xxxxxxxxx  xxxxxxxxx                       │
│                                                                               │
│      COPY                                                                     │
│                        FULL COLOR  BLACK      TOTAL                           │
│            SMALL        xxxxxxxxx   xxxxxxxxx  xxxxxxxxx                       │
│            LARGE        xxxxxxxxx   xxxxxxxxx  xxxxxxxxx                       │
│            TOTAL        xxxxxxxxx   xxxxxxxxx  xxxxxxxxx                       │
│                                                                               │
│      FAX                                                                      │
│                        FULL COLOR  BLACK      TOTAL                           │
│            SMALL        xxxxxxxxx   xxxxxxxxx  xxxxxxxxx                       │
│            LARGE        xxxxxxxxx   xxxxxxxxx  xxxxxxxxx                       │
│            TOTAL        xxxxxxxxx   xxxxxxxxx  xxxxxxxxx                       │
│                                                                               │
│      NETWORK                                                                  │
│                        FULL COLOR  BLACK      TOTAL                           │
│            SMALL        xxxxxxxxx   xxxxxxxxx  xxxxxxxxx                       │
│            LARGE        xxxxxxxxx   xxxxxxxxx  xxxxxxxxx                       │
│            TOTAL        xxxxxxxxx   xxxxxxxxx  xxxxxxxxx                       │
│                                                                               │
│  CALIBRATION COUNTER ：0                                                       │
│                                                                               │
└─────────────────────────────────────────────────────────────────────────────┘
```

Fig.5-32

The list of total counter is output.

- (05) adjustment value/(08) setting value difference list

```
05 DIFFERENCE LIST                        S/N: xxxxxxxxx      TOTAL:       9999999

xx-xx-xx xx:xx                            TOSHIBA e-STUDIOxxxx  DF TOTAL:    9999999


    CODE      BACKUP      CURRENT       CODE      BACKUP      CURRENT

 *  2400       128          160
      .          .            .
      .          .            .
      .          .            .
      .          .            .
      .          .            .
      .          .            .
      .          .            .
      .          .            .
      .          .            .
      .          .            .
      .          .            .
      .          .            .
      .          .            .
```

Fig.5-33

The function in which the 05/08 setting value differences between the factory default and the current value can be printed or output with a CSV file.

The list of differences between the current and the backed-up values of the (05) adjustment and the (08) setting values is output. "*" is marked on the left side of the code if there is a difference, and "+" is marked on the left side of the code if there is no backed-up value.

Notes:
- Back-up data of the factory default are automatically created when the automatic gamma adjustment of the easy set-up mode has been completed during the unpacking and setting up of the equipment. The back-up file is retained even if the firmware is upgraded. However, the file is deleted when 3C-3 (Format HDD) is performed or HDD/SSD is replaced.
- A back-up file does not exist for equipment to which the easy set-up mode has been performed before this function is applied.
- When the easy set-up mode is restarted while a specified value such as 3 is set for 08-9022 (Production process management status for easy setup), the back-up file stored during unpacking and setting up after the completion of the automatic gamma adjustment is deleted, and another file as of then is newly created.
- When no back-up file exists:
  - When 9S-121 (122) is performed, the equipment returns to the ready state of the 9S mode without performing printing.
  - When 9S-221 (222) is performed, the equipment returns to the ready state of the 9S mode and the error message "The file cannot be saved." appears on the panel.
- When you want to create a back-up file if one does not exist:
  A back-up file can be automatically created after the completion of the automatic gamma adjustment when the easy set-up mode is restarted while a specified value such as 3 is set for 08-9022 (Production process management status for easy setup).
  In this case, the current values are stored in the file, but not the ones for unpacking and setting up.

5.14 Pixel counter and its related code

5.14.1 Outline

1. Outline
   Pixel counter is a function that counts the number of dots emitted by the laser and converts it into the print ratio (%) per standard paper size. This "Print ratio (%) per standard paper size" is called Pixel count (%).

   This function enables you to know how each user uses the equipment and to grasp the tendency of toner consumption (number of output pages per cartridge).

2. Factors affecting toner consumption
   Standard number of output pages per cartridge shows the average number of output pages under the condition that the data of print ratio 6% is printed on the standard paper size (A4/LT) at a normal temperature and humidity.
   However, users do not always print under the above condition. As for the type of original, copy/print mode and environment, each user has different tendency, and as a result, the number of output pages per cartridge becomes different depending on the user.

   The major factors affecting toner consumption are as follows:
   - Original/Data coverage
   - Original/Data density
   - Original/Print mode
   - Density setting
   Also there are other factors in addition to the above, such as environment, individual difference of equipment, difference in lot quality of materials, toner density and drum surface potential.

5

The general relations between the 4 factors mentioned in the previous page and toner consumption per output page in the Copier Function are as follows:
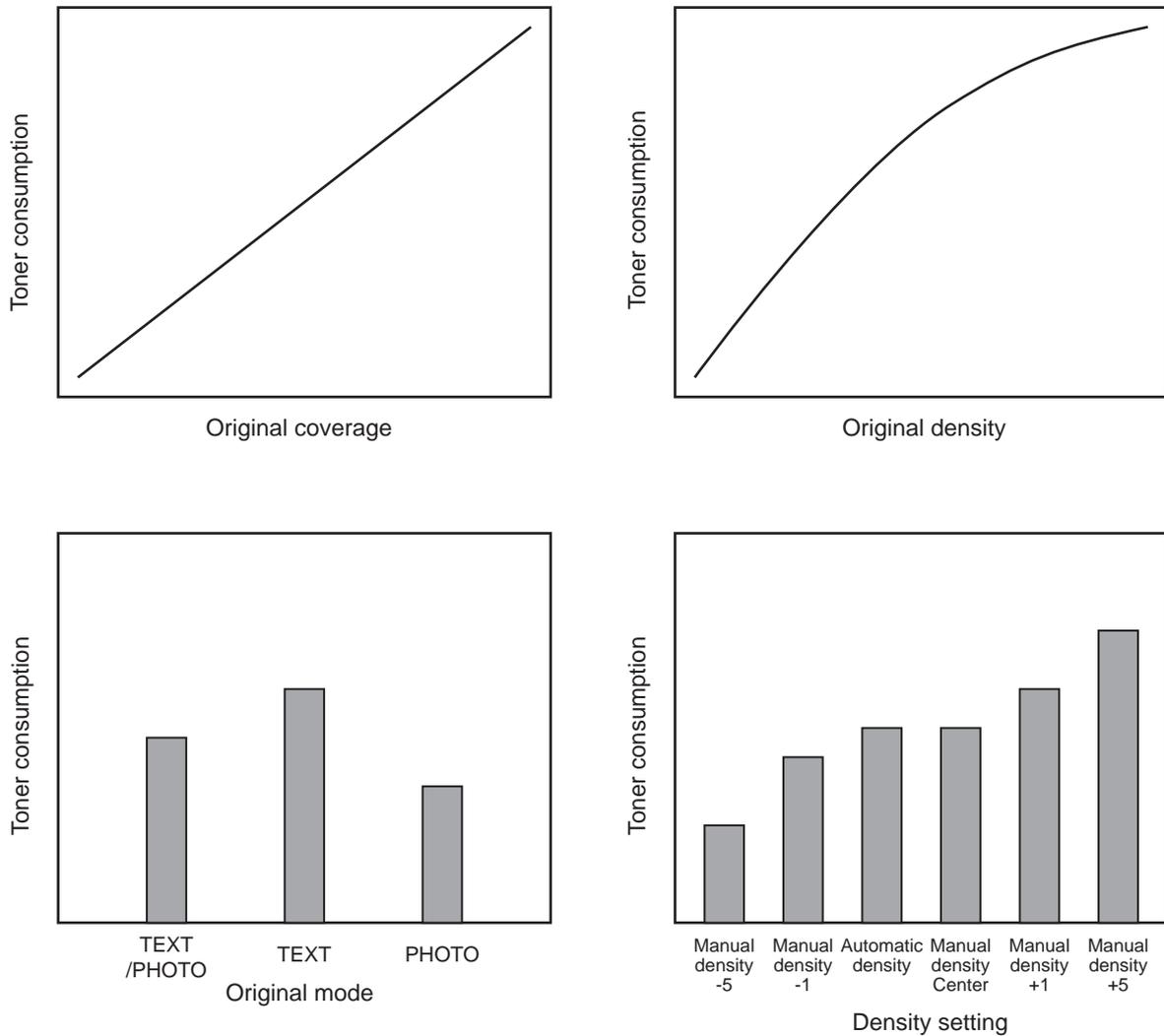
Fig.5-34 Factors affecting toner consumption and the tendency

3. Details of pixel counter
   - Toner cartridge reference and service technician reference
     The pixel counter function in this equipment has 2 references, toner cartridge reference and service technician reference.

     Toner cartridge reference
     This is a system that accumulates data between the installation of a new toner cartridge and next installation.
     The installation of new toner cartridge is judged when the total number of pixel count or output pages after the detection of toner empty has exceeded the threshold.
     The threshold to be used is selectable in the setting mode (08-6506) between the pixel count and output pages (0: Output pages 1: Pixel counter). The threshold of pixel count is set in the setting mode (08-6508) and that of output pages is set in the setting mode (08-6507). When the new toner cartridge is judged as installed, the data related with the previous cartridge is cleared and replaced with the data after the installation of new cartridge. Clearing of the counter of the toner cartridge reference is performed in the setting mode (08-6503).

Service technician reference
This is a system that accumulates data between clearing the counter of the service technician reference by service technician and subsequently clearing the same counter.
Clearing of the counter of the service technician reference is performed in the setting mode (08-6502).

- Print count (number of output pages)
  The number of output pages shown at the pixel counter is counted after converting all paper sizes to the standard paper size (A4/LT). Printing on other than the standard size is converted by paper area ratio. The standard paper size is set in the setting mode (08-6500).
  The examples of conversion are as follows:

  Ex.)
  "1" is added to the print count when printing on A4/LT size.

  "2" is added to the print count when printing on A3/LD size. (area ratio to A4/LT: 200%)

  "1.49" is added to the print count when printing on B4 size. (area ratio to A4: 149%)

  "1.27" is added to the print count when printing on LG size. (area ratio to LT: 127%)

- Pixel count (%)
  Pixel count (%) shows the ratio of laser emitting pixels to all pixels on standard paper.
  The examples of pixel count are as follows:

  Notes:
  In the following examples, 'solid copy' is considered to be 100%. But since the image has 4 margins, it never becomes 100% actually.

  Ex.)
  Printing 5 pages on A4/LT size with solid copy (Laser emits to all pixels.)
  → Pixel count: 100%, Print count: 5

  Printing 5 pages on A4/LT size with blank copy (Laser never emits.)
  → Pixel count: 0%, Print count: 5

  Printing 2 pages on A4/LT size with solid copy (Laser emits to all pixels.)
  Printing 2 pages on A4/LT size with blank copy (Laser never emits.)
  → Pixel count: 50%, Print count: 4

  Printing 3 pages on A4/LT size with 6% of laser emission
  Printing 1 page on A4/LT size with 2% of laser emission
  → Pixel count: 5%, Print count: 4

  Printing 2 pages on A3/LD size with solid copy (Laser emits to all pixels.)
  → Pixel count: 100%, Print count: 4

  Printing 2 pages on A3/LD size with 6% of laser emission
  → Pixel count: 6%, Print count: 4

- Average pixel count (%) and latest pixel count (%)
  There are 2 types of the value calculated as the pixel count, average pixel count (%) and latest pixel count (%).

  Average pixel count (%)
  The average value of all pixel count data after each reference data is cleared is calculated and displayed.

  Latest pixel count (%)
  The value is displayed for printing just before the pixel counter is confirmed.

- Type of calculated data
  Since this is multifunctional, the data of pixel count is calculated for each function.
  The following list is the information that can be confirmed by LCD screen. But actually, more information can be confirmed by the setting mode (08).
  See after-mentioned "5)-Display in the setting mode (08)" for details.

<div align="right">

○: With data
—: Without data
</div>

	Toner cartridge reference	Service technician reference
Copier function	○	○
Printer function	○	○
FAX function	○	○
Total	○	○

Table 5-201 Type of calculated data

- Setting related with the pixel counter function
  Standard paper size setting
  The standard paper size (A4 or LT) to convert it into the pixel count is selected (08-6500).

  Pixel counter display setting
  Whether or not to display the pixel counter on the LCD screen is selected (08-6504).

  Display reference setting
  The reference when displaying the pixel counter on the LCD screen (toner cartridge reference or service technician reference) is selected (08-6505).

  Determination counter of toner empty
  This is the counter to determine the replacement of new toner cartridge after the toner empty is detected.
  After the toner empty is detected by the auto-toner sensor, this counter checks if toner empty is not detected one more time while the specified number of pixel count or output pages is counted.

  Pixel counter clearing
  There are 3 types for the pixel count clear as follows:
  08-6501: All information related to the pixel count is cleared.
  08-6502: All information related to the service technician reference pixel count is cleared.
  08-6503: All information related to the toner cartridge reference pixel count is cleared.

4. Relation between pixel count and toner consumption

    The user's printing out the image with large coverage or high density may cause the large value of pixel count. And the setting that toner consumption becomes high in the original mode or density setting may cause it as well.

    In this case, the replacement cycle of toner cartridge is faster than the standard number of output pages. Therefore, this trend needs to be grasped for the service.

    The relation between pixel count and number of output pages per cartridge is as follows:
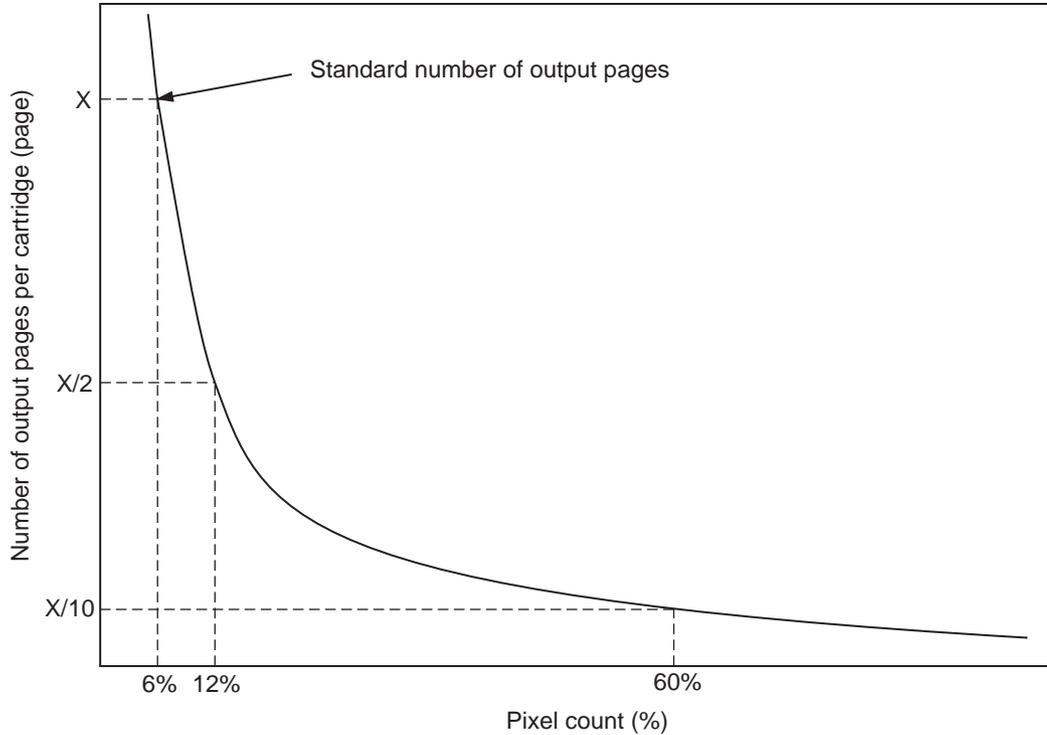
Fig.5-35 Pixel count and number of output pages per cartridge

5. Pixel counter confirmation
   - Display on LCD screen
     Whether or not to display the pixel counter on the LCD screen is selected (0: Displayed, 1: Not displayed) in the setting mode (08-6504), and whether or not to display it at the service technician reference or toner cartridge reference is selected (0: Service technician reference, 1: Toner cartridge reference) in the setting mode (08-6505).

     The following screen is displayed when the buttons, [USER FUNCTIONS], [COUNTER] and [PIXEL COUNTER] are pressed in this order after "Displayed" is selected with the code above and the power is, as usual, turned ON.

     The following screen is displayed when the toner cartridge reference is selected in the setting mode (08-6505).

Fig.5-36 Information screen of toner cartridge reference

The following screen is displayed when the service technician reference is selected in the setting mode (08-6505).
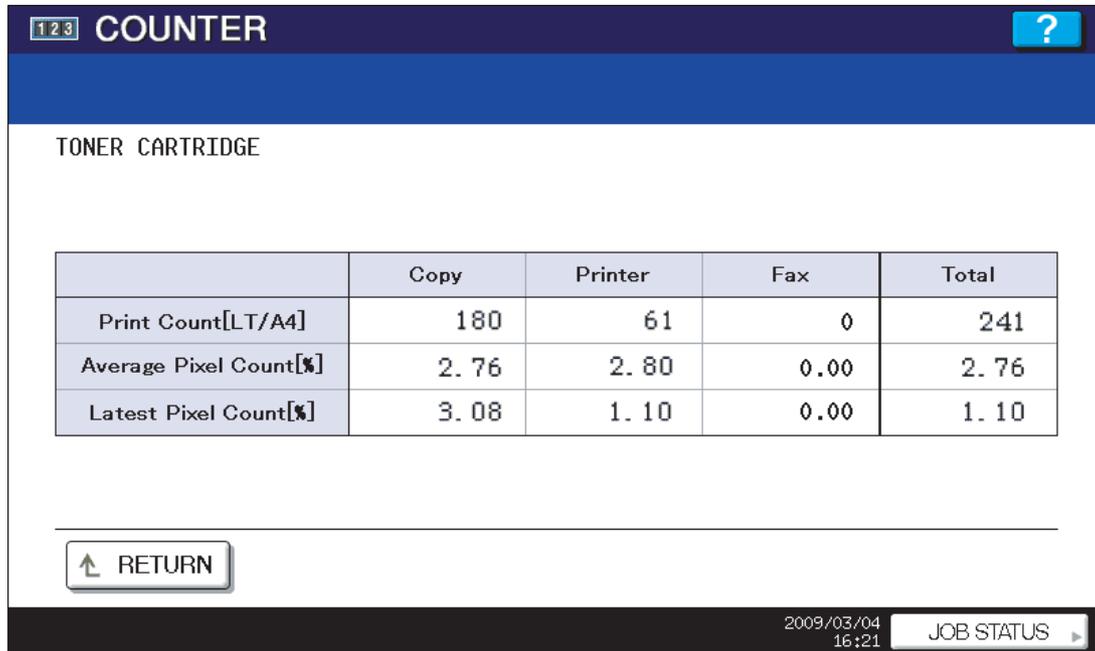
COUNTER

SERVICE

	Copy	Printer	Fax	Total
Print Count [LT /A4]	180	61	0	241
Average Pixel Count [%]	2.76	2.80	0.00	2.76
Latest Pixel Count [%]	3.08	1.10	0.00	1.10

↑ RETURN

2009/03/04
16:17

JOB STATUS ▶

Fig.5-37 Information screen of service technician reference

- Data list printing
  The data for pixel counter can be printed in the list print mode (9S).
  9S-104: The data of the toner cartridge reference is printed.
  9S-105: The data of service technician reference is printed.

```
PIXEL COUNTER CODE LIST            S/N: xxxxxxxxx       TOTAL:      9999999
                                   TOSHIBA e-STUDIOxxx  DF COUNTER: 9999999
'08-02-08 20:13


TONERCARTRIDGE

No DATE      COL.                        PPC   PRN   FAX   TOTAL
--------------------------
0  20080208  Y    Print Count[LT/A4]      181    45   ---    226
1  20080208  Y    Average Pixel Count[%]  2.70  1.74  ---    2.51
2  20080208  Y    Latest Pixel Count[%]   6.15  0.39  ---    0.39
3  20080208  M    Print Count[LT/A4]      181    45   ---    226
4  20080208  M    Average Pixel Count[%]  6.11    2   ---    5.29
5  20080208  M    Latest Pixel Count[%]   6.82  2.15  ---    2.15
6  20080208  C    Print Count[LT/A4]      181    45   ---    226
7  20080208  C    Average Pixel Count[%]  5.46    2   ---    4.81
8  20080208  C    Latest Pixel Count[%]   6.42  2.73  ---    2.73
9  20080208  K    Print Count[LT/A4]      278   145     9    432
10 20080208  K    Average Pixel Count[%]  6.15  3.86  23.25  5.74
11 20080208  K    Latest Pixel Count[%]   7.32  2.19  6.25   2.19
```

Fig.5-38 Data list of toner cartridge reference

```
PIXEL COUNTER CODE LIST

                                S/N: xxxxxxxxx        TOTAL:        9999999

'08-02-08 20:13                 TOSHIBA e-STUDIOxxx   DF COUNTER:   9999999


SERVICEMAN


No  DATE      COL.                          PPC     PRN     FAX    TOTAL
----------------------------
0   20080208  F   Print Count[LT/A4]        181      45     ---      226
1   20080208  F   Average Pixel Count[%]    4.95    2.34    ---     4.43
2   20080208  F   Latest Pixel Count[%]     8.36    2.34    ---     2.34
3   20080208  Y   Print Count[LT/A4]        181      45     ---      226
4   20080208  Y   Average Pixel Count[%]    2.7     1.74    ---     2.51
5   20080208  Y   Latest Pixel Count[%]     6.15    0.39    ---     0.39
6   20080208  M   Print Count[LT/A4]        181      45     ---      226
7   20080208  M   Average Pixel Count[%     6.11     2      ---     5.29
8   20080208  M   Latest Pixel Count[%]     6.82    2.15    ---     2.15
9   20080208  C   Print Count[LT/A4]        181      45     ---      226
10  20080208  C   Average Pixel Count[%]    5.46    2.18    ---     4.81
11  20080208  C   Latest Pixel Count[%]     6.42    2.73    ---     2.73
12  20080208  K   Print Count[LT/A4]        181      45     ---      226
13  20080208  K   Average Pixel Count[%]    5.51    3.43    ---     5.10
14  20080208  K   Latest Pixel Count[%]    14.05    4.10    ---     4.10
15  20080208  K   Print Count[LT/A4]         97     100      9       206
16  20080208  K   Average Pixel Count[%]    7.36    4.06   23.25    6.45
17  20080208  K   Latest Pixel Count[%]     7.32    2.19    6.25    2.19
```

Fig.5-39 Data list of service technician reference

- Display in the setting mode (08)
  Information of pixel count can be also checked in the setting mode (08).
  For details, see "Chapter 15" -"Setting Code (08)"

Print count, pixel count

		Toner cartridge reference	Service technician reference
Copier function	Print count (page)	6563	6558
	Average pixel count (%)	6623	6602
	Latest pixel count (%)	6724	6616
Printer function	Print count (page)	6565	6560
	Average pixel count (%)	6629	6603
	Latest pixel count (%)	6725	6617
FAX function	Print count (page)	6566	6561
	Average pixel count (%)	6635	6604
	Latest pixel count (%)	6644	6618
Total	Average pixel count (%)	6634	6605

Table 5-202 Pixel count code table

Pixel count distribution

	Pixel count distribution (page)
Copier function	6721
Printer function	6722
FAX function	6723

Table 5-203 Pixel count code table

Notes:

By entering the sub code at the above code, the pixel count distribution can be displayed dividing into 10 ranges. The sub codes are as follows.

0: 0 - 5%   1: 5.1 - 10%   2: 10.1 - 15%   3: 15.1 - 20%   4: 20.1 - 25%

5: 25.1 - 30% 6: 30.1 - 40% 7: 40.1 - 60% 8: 60.1- 80% 9: 80.1 - 100%

Other information

Toner cartridge replacement counter

The toner cartridge replacement count is displayed. (08-6576)

Toner cartridge reference count started date

The toner cartridge reference count started date is displayed. (08-6522)

Service technician reference cleared date

The service technician reference cleared date is displayed.(08-6510)

The date (08-6502 was performed) is stored.

Toner cartridge reference cleared date

The toner cartridge reference cleared date is displayed.

The date (08-6503 was performed) is stored.

6. SETTING / ADJUSTMENT

6.1 Adjustment Order

This chapter mainly explains the procedures for image related adjustment. When replacing components which have other specified instructions for adjustment, those specified instructions are to be obeyed in priority. In the following diagram, the solid lines with arrow lead to essential adjustments, while the dotted lines lead to adjustments to be performed if necessary.

Parts to be replaced		
Developer material	Photoconductive drum	Laser optical unit
	Transfer roller	Drum cleaning blade
	Main charger grid	

Item to be adjusted	Code in mode 05
6.2 Adjustment of the auto-toner sensor	2000

6.3 Image dimensional adjustment			
Order	Items		Code in mode 05
1	6.3.2 Paper alignment at the registration roller		4100, 4101, 4103, 4104, 4105, 4106, 4107,4108, 4109, 4110, 4111, 4115, 4116, 4117, 4118, 4119, 4120
2	6.3.3 Printer related adjustment	[A] Reproduction ratio of primary scanning direction	4001
3		[B] Primary scanning data laser writing start position	4006
4		[C] Reproduction ratio of secondary scanning direction	4009
5		[D] Secondary scanning data laser writing start position	4058, 4059, 4060, 4061, 4062, 4063
6		[E] Primary scanning data laser writing start position at duplexing	4019
7	6.3.4 Scanner related adjustment	[A] Image distortion	3033
8		[B] Reproduction ratio adjustment of the primary scanning direction	4000
9		[C] Image position adjustment of the primary scanning direction	3030
10		[D] Reproduction ratio adjustment of the secondary scanning direction	3032
11		[E] Image position adjustment of the secondary scanning direction	3031
12		[F] Top margin	4050
13		[G] Right margin	4052
14		[H] Bottom margin	4053

Item to be adjusted	Code in mode 05
6.4.1 Automatic gamma adjustment	7165

Adjust the image quality if necessary. ► (Chapter 6.3, 6.4, 6.5, 6.6, 6.7)

END

Fig.6-1

6.2 Adjustment of Auto-Toner Sensor

When the developer material is replaced, adjust the auto-toner sensor in the following procedure.

<Procedure> (Adjustment Mode (05-2000))

(1) Install the process unit into the equipment.

(2) While pressing [0] and [5] simultaneously, turn the power ON.
The following message will be displayed.

```
          ┌─────────────────────────────────────┐
          │  100%            A            A3     │
[0][5] →  │─────────────────────────────────────│
[POWER]   │  TEST MODE                           │
          │─────────────────────────────────────│
          │                                     │
          └─────────────────────────────────────┘
```
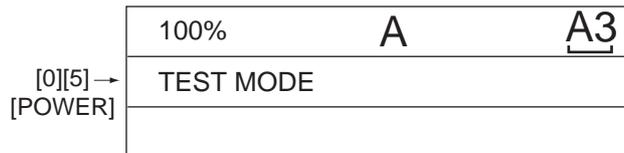
Fig.6-2

(3) Key in code [2000] and press the [START] button.
The display changes as follows.

```
                        ┌─B
                ┌──────────────────────────────────┐
                │  230%          2000        A3     │
[2000]→[START]→ │──────────────────────────────────│
                │  TEST MODE                        │
                │──────────────────────────────────│
                │  128                     128      │
                └──────────────────────────────────┘
                   C─┘                         └─A
```
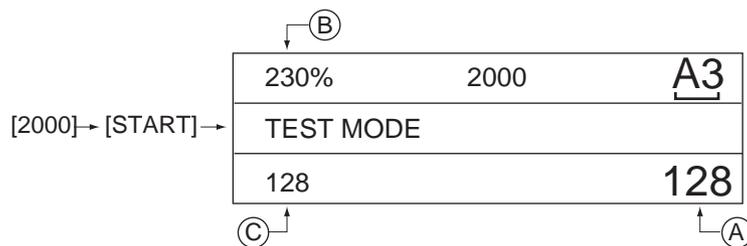
Fig.6-3

Notes:
- A indicates the controlled value of the auto-toner sensor output. Press the Up or Down button to change the value.
- B indicates the output voltage of the auto-toner sensor (2.30 V in the above case).
  The drum, developer unit, etc. are in operation.
- C indicates the latest adjustment value.

(4) After about two minutes, the value B automatically starts changing.

```
┌──────────────────────────────────┐
│  230%          2000        A3     │
│──────────────────────────────────│
│  TEST MODE              WAIT      │
│──────────────────────────────────│
│  128                     128      │
└──────────────────────────────────┘
```
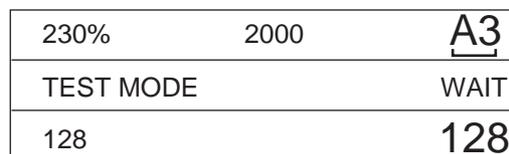
Fig.6-4

(5) After a short time, the value B becomes stable and the display changes as follows.

Fig.6-5

(6) Check if the value B is within the range of 234 to 246 (the output voltage range of the auto-toner sensor is 2.34 V to 2.46 V).

(7) If the value B is not within the range of 234 to 246, press the Up or Down button to adjust the value manually.
  Notes:
  The relation between the button and the values A and B is as follows.

Button to be pressed	Value A	Value B
Up	Increased	Increased
Down	Decreased	Decreased

(8) Press the [OK] or [INTERRUPT] button.
  The drum, developer unit, etc. are stopped and the following is displayed.

Fig.6-6

(9) Turn the power OFF.

(10) Install the toner cartridge.

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
SETTING / ADJUSTMENT

6.3　Image Dimensional Adjustment

6.3.1　General description

There are several adjustment items in the image dimensional adjustment, as listed below. When adjusting these items, the following adjustment order should strictly be observed.

	Item to be adjusted		Code in mode 05
1	Paper alignment at the registration roller		4100, 4101, 4103, 4104, 4105, 4106, 4107, 4108, 4109, 4110, 4111, 4115, 4116, 4117, 4118, 4119, 4120
2　Printer related adjustment		(a) Reproduction ratio of primary scanning direction (Fine adjustment of polygonal motor rotation speed)	4001
		(b) Primary scanning data laser writing start position	4006
		(c) Reproduction ratio of secondary scanning direction (Fine adjustment of main motor rotation speed)	4009
		(d) Secondary scanning data laser writing start position	4058, 4059, 4060, 4061, 4062, 4063
		(e) Primary scanning data laser writing start position at duplexing	4019
3　Scanner related adjustment		(a) Image distortion	3033
		(b) Reproduction ratio of primary scanning direction	4000
		(c) Image location of primary scanning direction	3030
		(d) Reproduction ratio of secondary scanning direction	3032
		(e) Image location of secondary scanning direction	3031
		(f) Top margin	4050
		(g) Right margin	4052
		(h) Bottom margin	4053

[Procedure to key in adjustment values]
In accordance with the procedure described below, make adjustment of each adjustment item so that the measured values obtained from test copies satisfy the specification. By pressing the [FAX] button, immediately after starting the Adjustment Mode (05), single-sided test copying can be performed (normal copy mode).

<Operation keys>   <Display>

100%	A	A3
TEST MODE		

[0] [5]
[POWER]
①→
[Digital keys] : Enter codes.   Code No.

100%	XXX	A3
TEST MODE		
YYY	ZZZ	

[START]

[Digital keys] : Enter adjustment values.
([CLEAR] Use to make corrections)

Adjustment value newly entered (If no entering, YYY is displayed.)
Current adjustment value

[OK] Value ZZZ is stored
or   replacing values YYY.
[INTERRUPT]

100%	A	A3
TEST MODE		

[FAX]
        Test copy
[START]

100%	A	A3
Wait Warming Up		

If the test copy does not satisfy the specified values, return to step 1 and repeat the adjustment procedure.

100%	A	A3
COPYING		

[Power OFF/ON] : Exit the Adjustment Mode.

Fig.6-7

6

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
SETTING / ADJUSTMENT

6.3.2 Paper alignment at the registration roller

The aligning amount is adjusted by using the following codes in Adjustment Mode (05).

Paper type	Weight	Upper drawer	Lower drawer	PFP upper drawer	PFP lower drawer	LCF	ADU	Bypass feed
Plain paper	64 - 80 g/m2 17 - 20 lb. Bond	4100 (*1)	4101 (*1)	4108(*1)	4109 (*1)	4111	4110 (*1)	4103 (*1)
Thick paper 1	81 - 105g/m2 21 - 28 lb. Bond	4115 (*1)	4116 (*1)	4117 (*1)	4118 (*1)	4119	4120 (*1)	4104 (*1)
Thick paper 2	106 - 163g/m2 29 lb. Bond - 90 lb. Index	-	-	-	-	-	-	4105 (*1)
Thick paper 3	164 - 209g/m2 91 - 110 lb. Index	-	-	-	-	-	-	4106 (*2)
OHP	-	-	-	-	-	-	-	4107 (*3)

Sub-code

(*1) 0: Long size 1: Middle size 2: Short size
(*2) 0: Long size 1: Middle size 2: Short size 3: Post card
(*3) 0: Long size of OHP film 1: Middle size of OHP film 2: Short size of OHP film

Notes:
1. Long size: 330 mm or longer (13.0 inches or longer)
   Middle size: 220-239 mm (8.7-12.9 inches)
   Short size: 219 mm or shorter (8.6 inches or shorter)
2. The adjustment of "Post card" is for Japan only.

<Procedure>
(1) Perform the test print according to the following procedure.
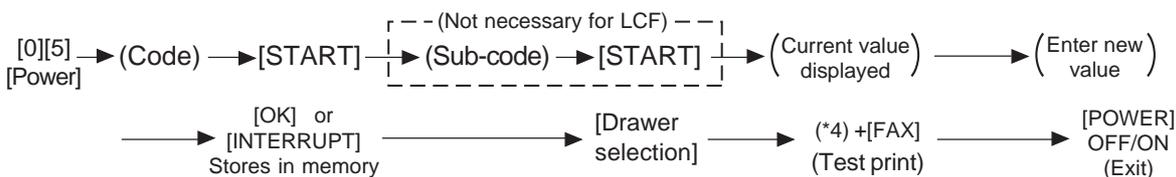
(*4) 1: Single-sided grid pattern 3: Double-sided grid pattern

(2) Check if any transfer void is occurring. If there is a transfer problem, try the values in descending order as "31" → "30" → "29"··· until the transfer void disappears. At the same time, confirm if any paper jam occurs. Also, when the aligning amount has been increased, this may increase the scraping noise caused by the paper and the film sheet as it is transported by the registration roller. If this scraping noise is annoying, try to decrease the value.
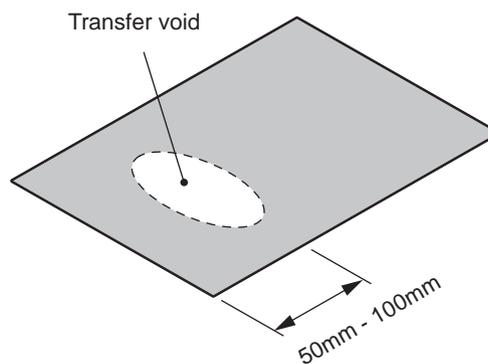
Fig.6-8

(3) Perform the same procedure for all paper sources.

Notes:

When paper thinner than specified is used, paper jams may occur frequently at the registration section. In this case, it is advisable to change (or reduce) the aligning amount.
However, if the aligning amount is reduced too much, this may cause the shift of leading edge position. So, when adjusting the aligning amount, try to choose the appropriate amount while confirming the leading edge position is not shifted.

*   As a tentative countermeasure, the service life of the feed roller can be extended by increasing the aligning amount.

6

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
                                                                                          SETTING / ADJUSTMENT

6.3.3 Printer related adjustment

The printer related adjustment is performed by using the printed out grid pattern.
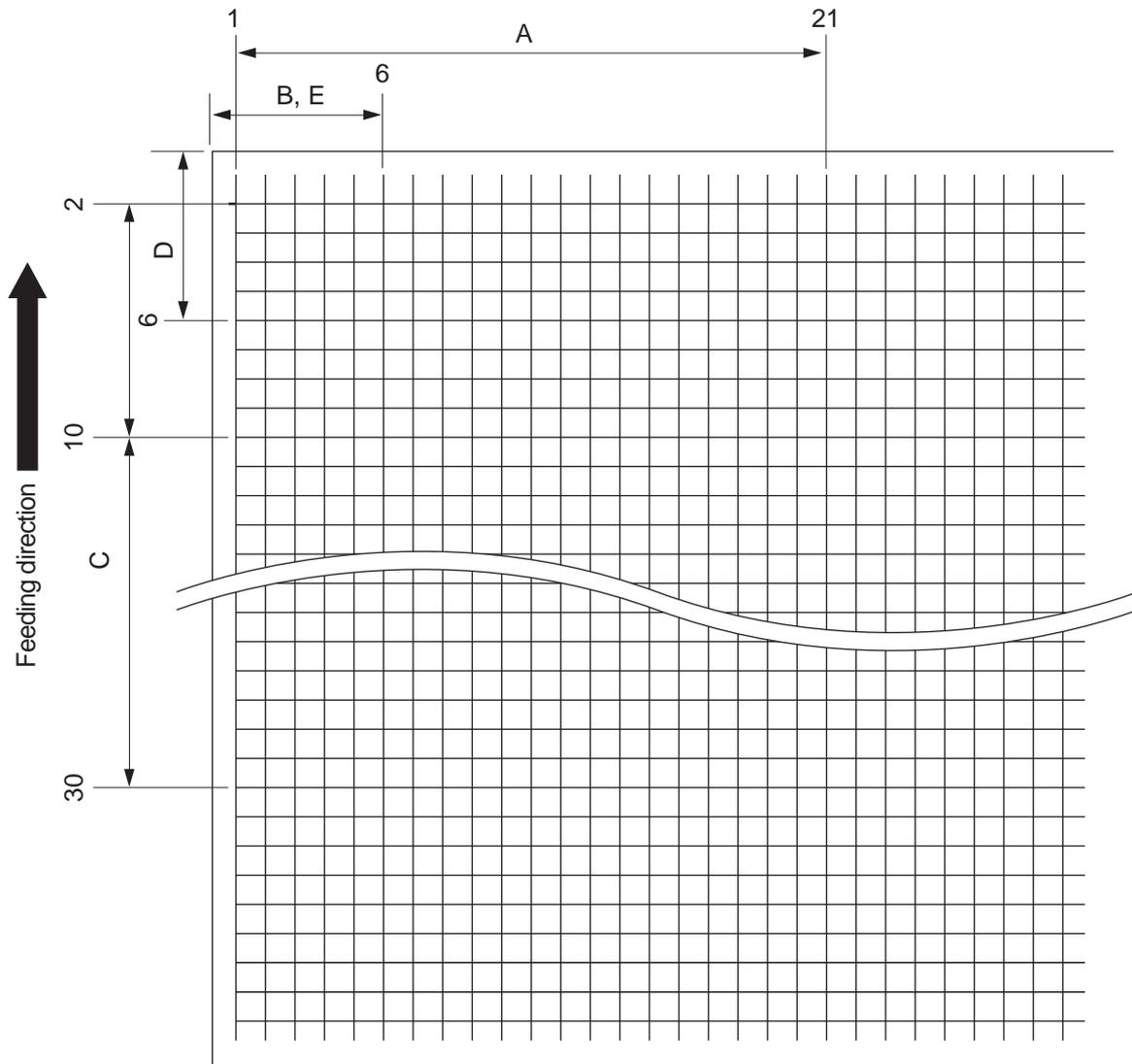
Fig.6-9 Grid pattern

	Adjustment Tolerance	Detail of adjustment
A	200 ± 0.5mm	📖 P. 6-9 "[A] Reproduction ratio of primary scanning direction (Fine adjustment of polygonal motor rotation speed (Printer))"
B	52 ± 0.5mm	📖 P. 6-9 "[B] Primary scanning data laser writing start position (Printer)"
C	200 ± 0.5mm	📖 P. 6-10 "[C] Reproduction ratio of secondary scanning direction (Fine adjustment of main motor rotation speed (Copier/Printer))"
D	52 ± 0.5mm	📖 P. 6-11 "[D] Secondary scanning data laser writing start position"
E	52 ± 0.5mm	📖 P. 6-12 "[E] Primary scanning data laser writing start position at duplexing"

[A] Reproduction ratio of primary scanning direction (Fine adjustment of polygonal motor rotation speed (Printer))

<Procedure>

(1) While pressing [0] and [5] simultaneously, turn the power ON. → (Adjustment Mode)

(2) Press [1] → [FAX]. (A grid pattern with 10 mm squares is printed out. Use A3/LD from the lower drawer (Refer to *).

(3) Check the grid pattern on the test chart printed out and measure the distance A from the 1st line to the 21st line of the grid pattern.

(4) Check if the distance A is within 200±0.5 mm.

(5) If not, use the following procedure to change values and measure the distance A again.

 (Adjustment Mode) → (Key in code [4001]) → [START]
 → (Key in a value (acceptable values: 0 to 255))
 → [OK] or [INTERRUPT] (Stored in memory)
 → "100% A" is displayed
 → Press [1] → [FAX] → (A grid pattern is printed out.)
 *   The larger the adjustment value is, the longer the distance A becomes.
  e-STUDIO206L/256/306/356/456/506: approx. 0.125 mm/step
  e-STUDIO207L/257/307/357/457/507: approx. 0.15 mm/step

[B] Primary scanning data laser writing start position (Printer)

<Procedure>
(1) While pressing [0] and [5] simultaneously, turn the power ON. → (Adjustment Mode)

(2) Press [1] → [FAX]. (A grid pattern with 10 mm squares is printed out. Use A3/LD from the lower drawer (Refer to *).

(3) Check the grid pattern on the test chart printed out and measure the distance B from the left edge of the paper to the 6th line of the grid pattern.

(4) Check if the distance B is within 52±0.5 mm.

(5) If not, use the following procedure to change values and measure the distance B again.

 (Adjustment Mode) → (Key in the code [4006]) → [START]
 → (Key in a value (acceptable values: 0 to 255))
 → [OK] or [INTERRUPT] (Stored in memory)
 → "100% A" is displayed
 → Press [1] → [FAX] → (A grid pattern is printed out.)
 *   The larger the adjustment value is, the longer the distance B becomes.
  e-STUDIO206L/256/306/356/456/506: approx. 0.05 mm/step
  e-STUDIO207L/257/307/357/457/507: approx. 0.0423 mm/step

(6) After the adjustment for the code 4006 is completed, apply the same adjustment value for the code 4005.

 (Adjustment Mode) → (Key in the code [4005]) → [START]
 → (Key in the same value in the step 5 above)
 → Press [OK] or [INTERRUPT] (Stored in memory).

 Notes:
  Make sure the first line of the grid pattern is printed out since the line is occasionally vanished.

[C] Reproduction ratio of secondary scanning direction (Fine adjustment of main motor rotation speed (Copier/Printer))

<Procedure>

(1)   While pressing [0] and [5] simultaneously, turn the power ON. → (Adjustment mode)

(2)   Press [1] → [FAX]. (A grid pattern with 10 mm squares is printed out. Use A3/LD from the lower drawer (Refer to *).

(3)   Check the grid pattern on the test chart printed out and measure the distance C from the 10th line at the leading edge of the paper to the 30th line of the grid pattern.
   *   Normally, the 1st line of the grid pattern is not printed.

(4)   Check if the distance C is within 200±0.5 mm.

(5)   If not, use the following procedure to change values and measure the distance C again.

   (Adjustment Mode) → (Key in code [4009]) → [START]
   → (Key in a value (acceptable values: 0 to 255))
   → [OK] or [INTERRUPT] (Stored in memory)
   → "100% A" is displayed
   → Press [1] → [FAX] → (A grid pattern is printed out.)
   *   The larger the adjustment value is, the longer the distance C becomes.
     e-STUDIO206L/256/306/356/456/506: approx. 0.125 mm/step
     e-STUDIO207L/257/307/357/457/507: approx. 0.25 mm/step

[D] Secondary scanning data laser writing start position

This adjustment has to be performed for each paper source. (If there is no paper source, skip this step.) The following table shows the order of the paper source to be adjusted, code, paper size and acceptable values.

Order for adjustment	Paper source	Code	Paper size	Acceptable value	Remarks
1	Lower drawer	4059	A3/LD	0 to 40	
2	Upper drawer	4058	A4/LT	0 to 15	
3	PFP or LCF	4060/4063	A4/LT	0 to 15	
4	Bypass feed	4061	A4/LT	0 to 15	
5	Duplexing	4062	A3/LD	0 to 15	Paper fed from the lower drawer

<Procedure>
(1)   While pressing [0] and [5] simultaneously, turn the power ON. → (Adjustment Mode)

(2)   Press [1] ([3] for duplexing) → [FAX]. (A grid pattern with 10 mm squares is printed out.)

(3)   Check the grid pattern on the test chart printed out and measure the distance D from the leading edge of the paper to the 6th line of the grid pattern.
   *   Normally, the 1st line of the grid pattern is not printed.
   *   At the duplexing, measure it on the top side of the grid pattern.

(4)   Check if the distance D is within 52±0.5 mm.

(5)   If not, use the following procedure to change values and measure the distance D again.

   (Adjustment Mode) → (Key in the code shown above) → [START]
   → (Key in an acceptable value shown above)
   → [OK] or [INTERRUPT] (Stored in memory)
   → "100% A" is displayed
   → Press [1] ([3] for duplexing)→ [FAX] → (A grid pattern is printed out.)
   *   e-STUDIO206L/256/306/356/456/506:
       The larger the adjustment value is, the longer the distance D becomes (approx. 0.4 mm/step).
   *   e-STUDIO207L/257/307:
       The larger the adjustment value is, the shorter the distance D becomes (approx. 0.54 mm/ step).
   *   e-STUDIO357/457/507:
       The larger the adjustment value is, the shorter the distance D becomes (approx. 0.84 mm/ step).

[E] Primary scanning data laser writing start position at duplexing

Notes:

Make sure the first line of the grid pattern is printed out since the line is occasionally vanished.

[E-1] Adjustment for long-sized paper

<Procedure>

(1) While pressing [0] and [5] simultaneously, turn the power ON. → (Adjustment Mode)

(2) Press [3] → [FAX]. (A grid pattern with 10 mm squares is printed out. Use A3/LD from the lower drawer (Refer to *).

(3) Check the grid pattern on the test print and measure the distance E from the left edge of the paper to the 6th line of the grid pattern.

(4) Check if the distance E is within 52±0.5 mm.

(5) If not, use the following procedure to change values and measure the distance E again.

(Adjustment Mode) → (Key in code [4019]) → [START] → [0] → [START]
→ (Key in a value (acceptable values: 0 to 255))
→ [OK] or [INTERRUPT] (Stored in memory)
→ "100% A" is displayed.
→ Press [3] → [FAX] →   (A grid pattern is printed out.)
* The larger the adjustment value is, the longer the distance E becomes (approx. 0.05 mm/ step).

[E-2] Adjustment for short-sized paper

<Procedure>

(1) While pressing [0] and [5] simultaneously, turn the power ON. → (Adjustment Mode)

(2) Press [3] → [FAX]. (A grid pattern with 10 mm squares is printed out. Use A4/LT from the upper drawer.)

(3) Check the grid pattern on the test print and measure the distance E from the left edge of the paper to the 6th line of the grid pattern.

(4) Check if the distance E is within 52±0.5 mm.

(5) If not, use the following procedure to change values and measure the distance E again.

(Adjustment Mode) → (Key in the code [4019]) → [START] → [1] → [START]
→ (Key in a value (acceptable values: 0 to 255))
→ [OK] or [INTERRUPT] (Stored in memory).
→ "100% A" is displayed
→ Press [3] → [FAX] → (A grid pattern is printed out.)
* The larger the adjustment value is, the longer the distance E becomes (approx. 0.05 mm/ step).

<Adjustment procedure summarization for A to E>

e-STUDIO206L/256/306/356/456/506:

When the value is 1.

[0] [5] [Power ON] → [1] ([3](05-4062, 4019) for duplexing) → [FAX]

- A: 05-4001 (Lower drawer, A3/LD) → 200±0.5 mm (0.125 mm/step)
- B: 05-4006 (Lower drawer, A3/LD) → 52±0.5 mm (0.05 mm/step)
  → Key in the same value for 05-4005.
- C: 05-4009 (Lower drawer, A3/LD) → 200±0.5 mm (0.125 mm/step)
- D: 05-4058 (Lower drawer, A3/LD), 4059 (Lower drawer, A4/LT), 4060 (PFP, A4/LT), 4063 (LCF, A4/LT), 4061 (Bypass feed, A4/LT), 4062 (Duplexing, A3/LD)
  → 52±0.5 mm(0.4 mm/step)
- E: 05-4019-0 (Lower drawer, A3/ LD), 4019-1 (Lower drawer, A4/ LT)) → 52±0.5 mm (0.05 mm/step)

e-STUDIO207L/257/307/357/457/507:

When the value is 1.

[0] [5] [Power ON] → [1] ([3](05-4062, 4019) for duplexing) → [FAX]

- A: 05-4001 (Lower drawer, A3/LD) → 200±0.5 mm (0.15 mm/step)
- B: 05-4006 (Lower drawer, A3/LD) → 52±0.5 mm (0.0423 mm/step)
  → Key in the same value for 05-4005.
- C: 05-4009 (Lower drawer, A3/LD) → 200±0.5 mm (0.25 mm/step)
- D: 05-4058 (Lower drawer, A3/LD), 4059 (Lower drawer, A4/LT), 4060 (PFP, A4/LT), 4063 (LCF, A4/LT), 4061 (Bypass feed, A4/LT), 4062 (Duplexing, A3/LD)
  → 52±0.5 mm (0.54 mm/step [e-STUDIO207L/257/307]
  → 52±0.5 mm (0.84 mm/step [e-STUDIO357/457/507]
- E: 05-4019-0 (Lower drawer, A3/ LD), 4019-1 (Lower drawer, A4/ LT)) → 52±0.5 mm (0.5 mm/step)

Remarks:

When the adjustment (05-4009) is performed, the same adjustment for FAX (05-4010) is automatically and consecutively performed.

6

6.3.4 Scanner related adjustment

[A] Image distortion
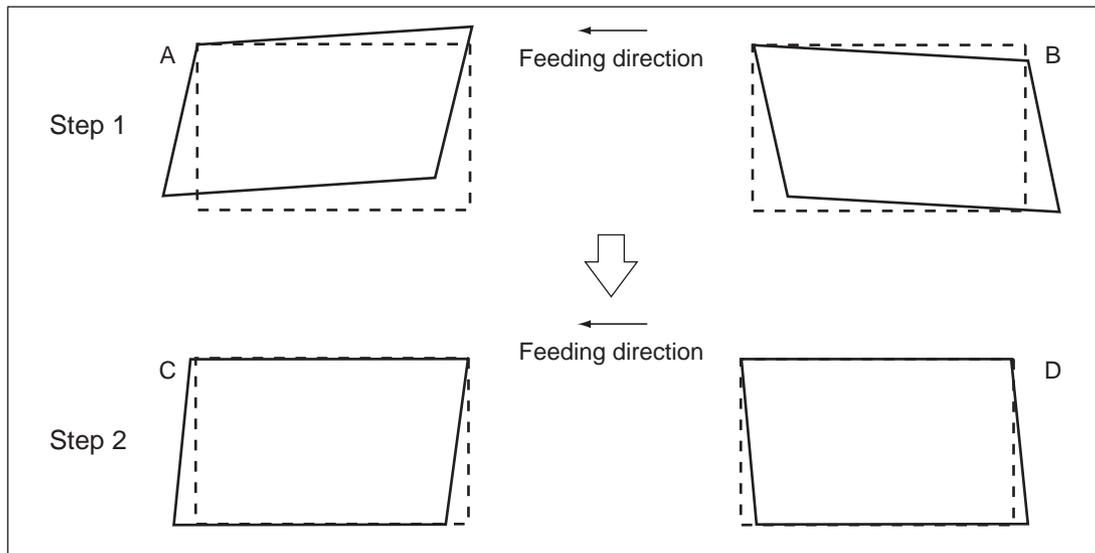
Fig.6-10

<Procedure>

(1) While pressing [0] and [5] simultaneously, turn the power ON.

(2) Press [FAX] next [START] to make a copy of any image on a sheet of A3/LD paper.

(3) Key in [3033] and press the [START] button to move the carriage to the adjustment position.

(4) Make an adjustment in the order of step 1 and 2.
- Step 1
  - In case of A:
    Tighten the mirror-3 adjustment screw (CW).
  - In case of B:
    Loosen the mirror-3 adjustment screw (CCW).
- Step 2
  - In case of C:
    Tighten the mirror-1 adjustment screw (CW).
  - In case of D:
    Loosen the mirror-1 adjustment screw (CCW).

(5) Apply the screw locking agents to the adjustment screws. (2 areas)
- Recommended screw lock agent
  Manufacturer: Three Bond
  Product name: 1401E

Adjustment screw for the mirror-3 (Rear)

Carriage-2

Fig.6-11

Adjustment screw for the mirror-1 (Rear)
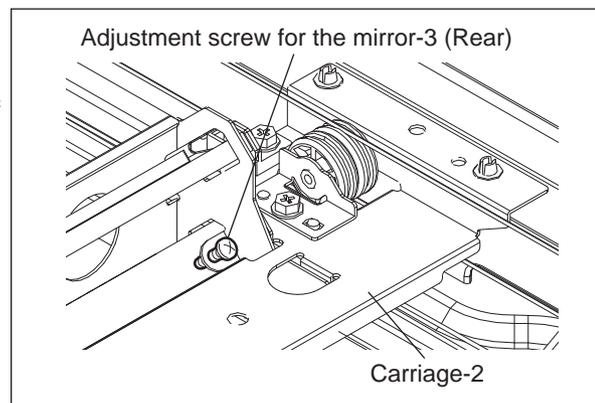
Carriage-1
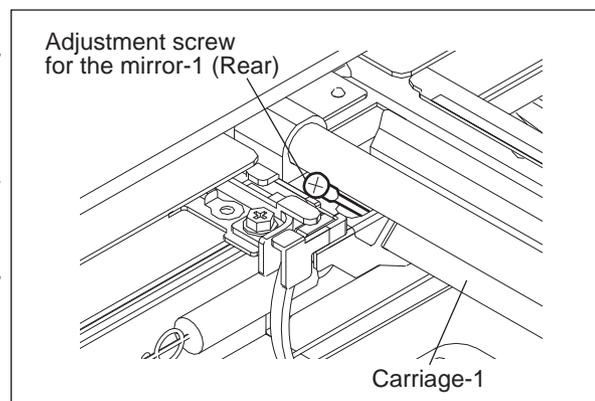
Fig.6-12

[B]   Reproduction ratio adjustment of the primary scanning direction

<Procedure>

(1)   While pressing [0] and [5] simultaneously, turn the power ON → (Adjustment Mode)

(2)   Place a ruler on the original glass (along the direction from the rear to the front of the equipment).

(3)   Press [FAX] -> [START] to make a copy at the mode of A3 (LD), 100% and the lower drawer (Refer to *).

(4)   Measure the distance A from 10 mm to 270 mm of the copied image of the ruler.

(5)   Check if the distance A is within the range of 260±0.5 mm.

(6)   If not, use the following procedure to change values and repeat the steps (3) to (5) above.
   (Adjustment Mode) → (Key in the code [4000]) → [START]
   → (Key in a value (acceptable values: 0 to 255))
   → Press the [OK] or the [INTERRUPT] button (stored in memory).
   → ("100% A" is displayed.)
   *   The larger the adjustment value is, the higher the reproduction ratio and the longer the distance A become.
      e-STUDIO206L/256/306/356/456/506: approx. 0.125 mm/step
      e-STUDIO207L/257/307/357/457/507: approx. 0.15 mm/step

6

Copied image of the ruler

Feeding direction

Fig.6-13

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
SETTING / ADJUSTMENT

[C] Image position adjustment of the primary scanning direction

<Procedure>
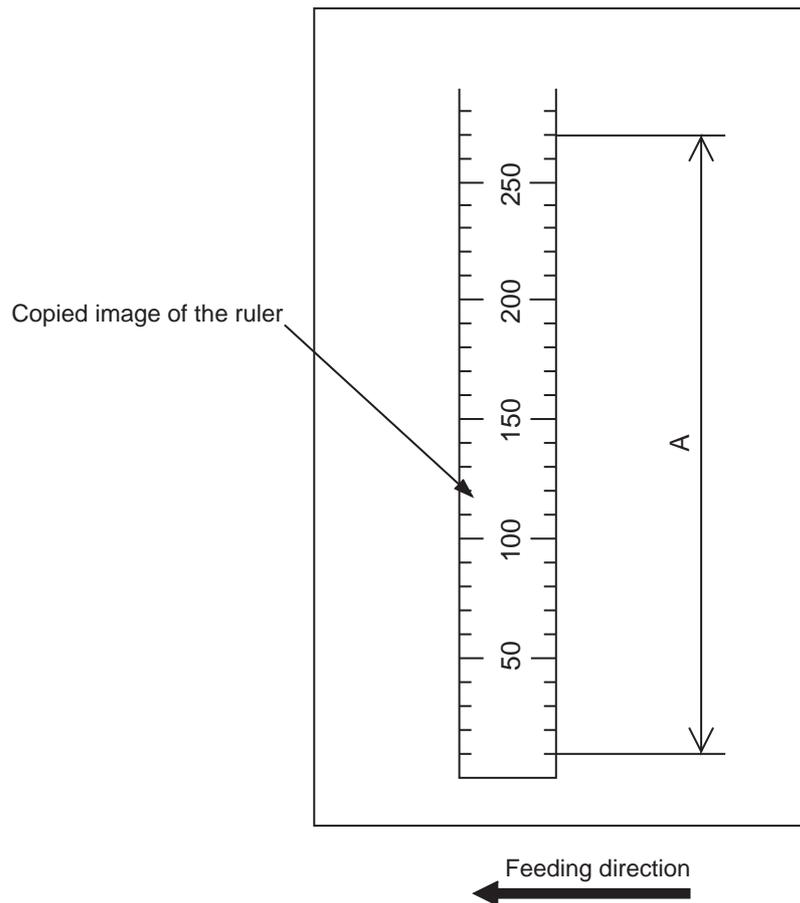
(1) While pressing [0] and [5] simultaneously, turn the power ON. → (Adjustment Mode)

(2) Place a ruler on the original glass with its leading edge pushed against the rear side and its side along the original scale on the left.

(3) Press [FAX] -> [START] to make a copy at the mode of A3 (LD), 100% and the lower drawer (Refer to *).

(4) Measure the distance B from the left edge of the paper to 10 mm of the copied image of the ruler.

(5) Check if the distance B is within the range of 10±0.5 mm.

(6) If not, use the following procedure to change values and repeat the steps (3) to (5) above.

   (Adjustment Mode) → (Key in the code [3030]) → [START]
   → (Key in a value (acceptable values: 0 to 255))
   → Press the [OK] or the [INTERRUPT] button (stored in memory).
   → ("100% A" is displayed.)
   *   The smaller the adjustment value is, the more the image is shifted to the left and the distance B becomes narrower.
      e-STUDIO206L/256/306/356/456/506: approx. 0.042 mm/step
      e-STUDIO207L/257/307/357/457/507: approx. 0.085 mm/step

Copied image of the ruler
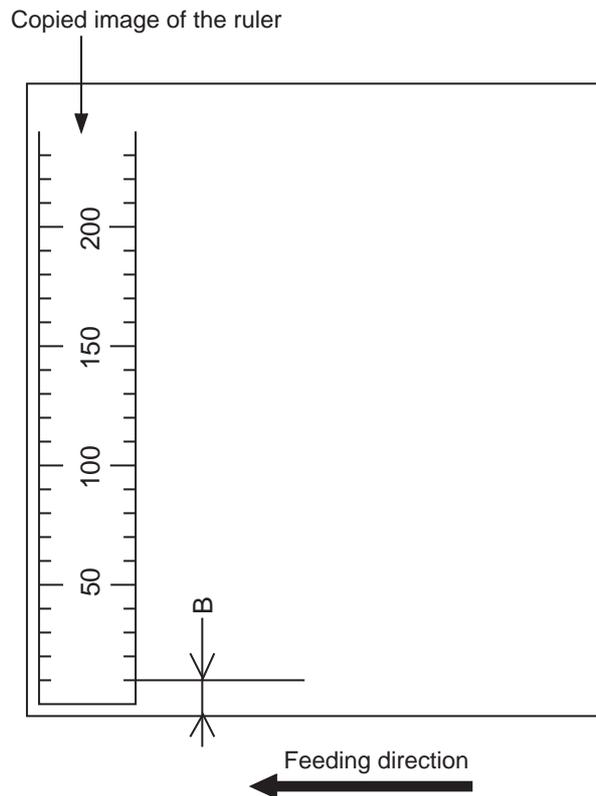
Feeding direction

Fig.6-14

[D] Reproduction ratio adjustment of the secondary scanning direction

<Procedure>

(1) While pressing [0] and [5] simultaneously, turn the power ON. → (Adjustment Mode)

(2) Place a ruler on the original glass with its leading edge pushed against the original scale on the left.

(3) Press [FAX] -> [START] to make a copy at the mode of A3 (LD), 100% and the lower drawer (Refer to *).

(4) Measure the distance C from 200 mm to 400 mm of the copied image of the ruler.

(5) Check if the distance C is within the range of 200±0.5 mm.

(6) If not, use the following procedure to change values and repeat steps (3) to (5) above.

   (Adjustment Mode) → (Key in the code [3032]) → [START]
   → (Key in a value (acceptable values: 63 to 193))
   → Press the [OK] or the [INTERRUPT] button (stored in memory).
   → ("100% A" is displayed.)
   * The smaller the adjustment value is, the lower the reproduction ratio becomes.
      e-STUDIO206L/256/306/356/456/506: approx. 0.05 mm/step
      e-STUDIO207L/257/307/357/457/507: approx. 0.45 mm/step
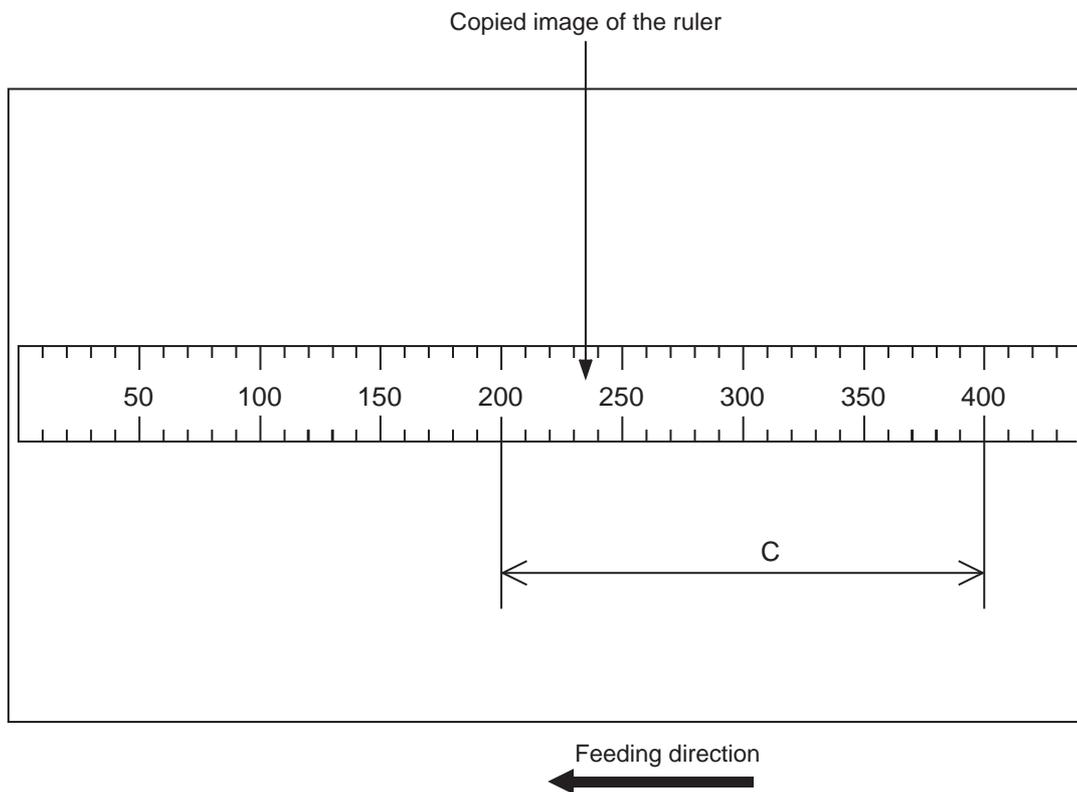
6

Copied image of the ruler

Feeding direction

Fig.6-15

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
                                                                                 SETTING / ADJUSTMENT

[E] Image position adjustment of the secondary scanning direction

<Procedure>

(1) While pressing [0] and [5] simultaneously, turn the power ON. → (Adjustment Mode)

(2) Place a ruler on the original glass with its leading edge pushed against the original scale on the left.

(3) Press [FAX] -> [START] to make a copy at the mode of A3 (LD), 100% and the lower drawer (Refer to *).

(4) Measure the distance D from the leading edge of the paper to 10 mm of the copied image of the ruler.

(5) Check if the distance D is within the range of 10±0.5 mm.

(6) If not, use the following procedure to change values and repeat the steps (3) to (5) above.

(Adjustment Mode) → (Key in the code [3031]) → [START]
→ (Key in a value (acceptable values: 90 to 166))
→ Press the [OK] or the [INTERRUPT] button (stored in memory).
→ ("100% A" is displayed.)
* The larger the adjustment value is, the more the image is shifted to the trailing edge.
  e-STUDIO206L/256/306/356/456/506: approx. 0.13 mm/step
  e-STUDIO207L/257/307/357/457/507: approx. 0.14 mm/step

Copied image of the ruler

D

Feeding direction
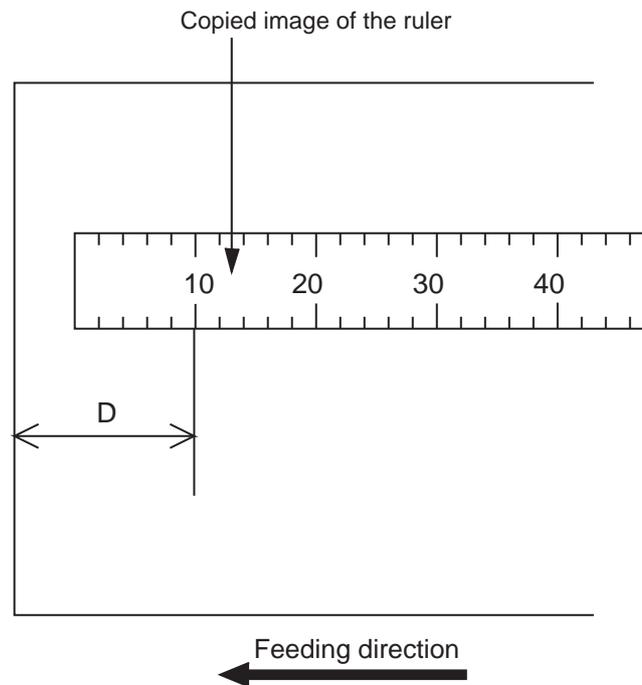
Fig.6-16

[F]   Top margin

<Procedure>

(1)   While pressing [0] and [5] simultaneously, turn the power ON. → (Adjustment Mode)

(2)   Open the original cover or RADF.

(3)   Press [FAX] -> [START] to make a copy at the mode of A3/LD, 100%, Text/Photo and the lower drawer (Refer to *).

(4)   Measure the blank area E at the leading edge of the copied image.

(5)   Check if the blank area E is within the range of 3 ± 0.5 mm.

(6)   If not, use the following procedure to change values and repeat the steps (3) to (5) above.

    (Adjustment Mode) → (Key in the code [4050]) → [START]
    → (Key in a value (acceptable values: 0 to 255))
    → Press the [OK] or the [INTERRUPT] button (stored in memory).
    → ("100% A" is displayed.)
    *   The larger the adjustment value is, the wider the blank area becomes (approx. 0.04 mm/ step).

6

Feeding direction

Fig.6-17

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
SETTING / ADJUSTMENT
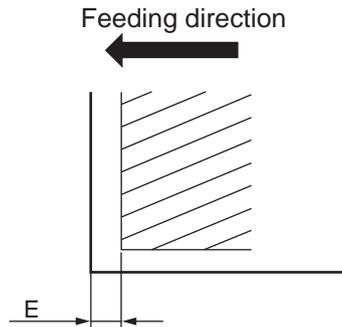
[G] Right margin

<Procedure>

(1) While pressing [0] and [5] simultaneously, turn the power ON. → (Adjustment Mode)

(2) Open the original cover or RADF.

(3) Press [FAX] -> [START] to make a copy at the mode of A3/LD, 100%, Text/Photo and the lower drawer (Refer to *).

(4) Measure the blank area F at the right side of the copied image.

(5) Check if the blank area F is within the range of 2±1.0 mm.

(6) If not, use the following procedure to change values and repeat the steps (3) to (5) above.

(Adjustment Mode) → (Key in the code [4052]) → [START]
→ (Key in a value (acceptable values: 0 to 255))
→ Press the [OK] or the [INTERRUPT] button (stored in memory).
→ ("100% A" is displayed.)
* The larger the adjustment value is, the wider the blank area at the right side becomes (approx. 0.04 mm/step).

Feeding direction
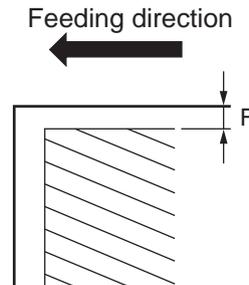
Fig.6-18

[H] Bottom margin

<Procedure>

(1) While pressing [0] and [5] simultaneously, turn the power ON. → (Adjustment Mode)

(2) Open the original cover or RADF.

(3) Press [FAX] -> [START] to make a copy at the mode of A3/LD, 100%, Text/Photo and the lower drawer (Refer to *).

(4) Measure the blank area G at the trailing edge of the copied image.

(5) Check if the blank area G is within the range of 2±1.0 mm.

(6) If not, use the following procedure to change values and repeat the steps (3) to (5) above.

   (Adjustment Mode) → (Key in the code [4053]) → [START]
   → (Key in value (acceptable values: 0 to 255))
   → Press the [OK] or the [INTERRUPT] button (stored in memory).
   → ("100% A" is displayed.)
   *   The larger the adjustment value is, the wider the blank area at the trailing edge becomes (approx. 0.04 mm/step).

Feeding direction
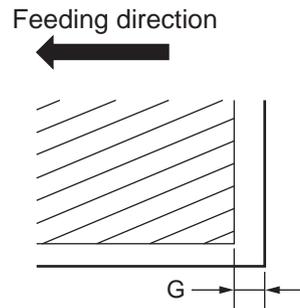
Fig.6-19

6.4 Image Quality Adjustment (Copying Function)

6.4.1 Automatic gamma adjustment

When the reproduction of gradation is not appropriate, it can be corrected by performing this automatic gamma adjustment. At the parts replacement and in case the gradation reproduction of the image is not satisfactory, make this adjustment as described below.

(1) When unpacking or any of the following parts has been replaced, be sure to make this adjustment:
- Photoconductive drum
- Developer material
- Laser optical unit
- Transfer roller
- Drum cleaning blade
- Main charger grid
- SRAM board

(2) Be sure to perform this adjustment whenever HDD data are cleared.

Code	Item to be adjusted	Contents
05-7165	Automatic gamma adjustment	When the reproduction of gradation is not appropriate, it can be corrected by performing this automatic gamma adjustment.

<Procedure>

(1) While pressing [0] and [5] simultaneously, turn the power ON. → Adjustment Mode
(2) Select the A4/LT drawer. Key in "10" and press the [FAX] button to print a "Patch chart for gamma adjustment".
(3) Place the patch chart for adjustment printed in step (2) face down on the original glass. Place the chart aligning its black side of the gradation pattern against the original scale.
(4) Key in a code and press the [START] button.
(5) If the adjustment is finished properly, press [OK] to have its results reflected.
(To cancel the reflection of adjustment results, press the [CANCEL] button.)
In the case of an abnormal ending, "ADJUSTMENT ERROR" is shown.
Press the [CANCEL] button to clear the error display. When it is cleared, the control panel display will return to the ready state. Then, check if the patch chart on the original glass is placed in the wrong direction or if it is placed inclined on the original glass, and then repeat step (3) and afterward.

6.4.2 Density adjustment

The center density and the density variation controlled by density adjustment keys can be adjusted as follows.

e-STUDIO206L/256/306/356/456/506   < Adjustment Mode (05) >

Original mode					Item to be adjusted	Remarks
Text/ Photo	Photo	Text	User Custom	Color Document		
7114	7116	7115	7258	7126	Manual density mode center value	The larger the value is, the darker the image becomes. Acceptable values: 0 to 255 (Default: 128)
7117	7119	7118	7261	-	Manual density mode light step value	The larger the value is, the lighter the light side becomes. Acceptable values: 0 to 255 (Default: 20)
7120	7122	7121	7264	-	Manual density mode dark step value	The larger the value is, the darker the dark side becomes. Acceptable values: 0 to 255 (Default: 20)
7123	7125	7124	7267	7129	Automatic density mode	The larger the value is, the darker the image becomes. Acceptable values: 0 to 255 (Default: 128)

e-STUDIO207L257/307/357/457/507   < Adjustment Mode (05) >

Original mode				Item to be adjusted	Remarks
Text/ Photo	Photo	Text	User Custom		
7114	7116	7115	7134	Manual density mode center value	The larger the value is, the darker the image becomes. Acceptable values: 0 to 255 (Default: 128)
7123	7125	7124	7137	Automatic density mode	The larger the value is, the darker the image becomes. Acceptable values: 0 to 255 (Default: 128)

Make a test copy and compare the image obtained with the current settings; if necessary, make adjustment using the following procedure.

<Procedure>

(1) While pressing [0] and [5] simultaneously, turn the power ON.

(2) Key in a code and press the [START] button.

(3) Key in an adjustment value.

(To correct the keyed-in value, press the [CLEAR] button.)

(4) Press the [OK] or [INTERRUPT] button to store the value. → The equipment goes back to the ready state.

(5) Press the [FAX] button and then the [START] button. Then perform test copying.

(6) If the desired image density has not been attained, repeat step (1) to (5).

6.4.3　Background adjustment

The density of the background can be adjusted as follows.
e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507　　　< Adjustment Mode (05) >

Original mode					Item to be adjusted	Remarks
Text/ Photo	Photo	Text	User Custom	Color Document		
7033	7043	7034	7279 (*1)	7050 (*1)	Automatic density mode	The larger the value is, the lighter the background becomes. Acceptable values:0 to 255 (Default: 128)
7041	7048	7042	7280 (*1)	7051 (*1)	Manual density mode	

Make a test copy and compare the image obtained with the current settings; if necessary, make adjustment using the following procedure.
*1: e-STUDIO206L/256/306/356/456/506 only.

e-STUDIO207L/257/307/357/457/507　　　　　　　　　　　　　　< Adjustment Mode (05) >

Original mode				Item to be adjusted	Remarks
Text/ Photo	Photo	Text	User Custom		
7100	7102	7101	7106	Background adjustment	The larger the value is, the darker the background becomes. Acceptable values:0 to 255 (Default: 128)

Make a test copy and compare the image obtained with the current settings; if necessary, make adjustment using the following procedure.

<Procedure>
Procedure is same as that of 📖 P. 6-23 "6.4.2 Density adjustment".

6.4.4　Sharpness adjustment

If you want to make copy images look softer or sharper, perform the following adjustment.

*　The values in "( )" are the adjustment codes of the Custom Mode.
Make a test copy and compare the image obtained with the current settings; if necessary, make adjustment using the following procedure.

< Adjustment Mode (05) >

Original mode					Item to be adjusted	Remarks
Text/ Photo	Photo	Text	User Custom	Color Document		
7056	7058	7057	7249	7059 (*1)	Sharpness adjustment	The larger the value is, the sharper the image becomes; while the smaller the value is, the softer the image becomes. The smaller the value is, the less moire tends to appear. Acceptable values: 0 to 255 (Default: 128)

Make a test copy and compare the image obtained with the current settings; if necessary, make adjustment using the following procedure.
*1: e-STUDIO206L/256/306/356/456/506 only.

<Procedure>
Procedure is same as that of 📖 P. 6-23 "6.4.2 Density adjustment".

6.4.5 Setting range correction

The values of the background peak in the range correction can be switched to "varied" or "fixed" in the following codes. If they are fixed, the range correction is performed with standard values.
The values of the background peak affect the reproduction of the background density.

e-STUDIO206L/256/306/356/456/506   < Adjustment Mode (05) >

Original mode					Item to be adjusted	Remarks
Text/ Photo	Photo	Text	User Custom	Color Docume nt		
7283	7285	7284	7236	7289	Automatic density mode	0: Background peak / fixed 1: Background peak / varied
7286	7288	7287	7237	7290	Manual density mode	

e-STUDIO207L257/307/357/457/507   < Adjustment Mode (05) >

Original mode			Item to be adjusted	Remarks
Text/ Photo	Text	User Custom		
7286	7287	7237	Manual density mode	0: Background peak / fixed 1: Background peak / varied

Make a test copy and compare the image obtained with the current settings; if necessary, make adjustment using the following procedure.

<Procedure>
Procedure is same as that of 📖 P. 6-23 "6.4.2 Density adjustment".

6.4.6 Adjustment of smudged/faint text

The smudged/faint text can be set at the following codes.

< Adjustment Mode (05) >

Original mode			Item to be adjusted	Remarks
Text/ Photo	Text	User custom		
7097	7098	7252	Adjustment of smudged/ faint spotted text	When the value increases, the smudged text is improved. When the value decreases, the faint text is improved. Acceptable values: 0 to 4 (Default: 2) **Notes:** Remember the image specifications and life span of the replacing parts may not meet the standard when the setting value is changed from the default value.

<Procedure>
Procedure is same as that of 📖 P. 6-23 "6.4.2 Density adjustment".

6.4.7　Gamma balance adjustment

The density is adjusted by adjusting the gamma balance. The adjustment is performed by selecting its density area from the following: low density, medium density and high density.

< Adjustment Mode (05) >

Language and screen					Item to be adjusted	Remarks
Text/ Photo	Photo	Text	User custom	Color Docume nt		
7190-0	7192-0	7191-0	7276-0	7193-0 (*1)	Low density	The larger the value is, the density of the item to be adjusted becomes darker. Acceptable values: 0 to 255. (Default: 128)
7190-1	7192-1	7191-1	7276-1	7193-1 (*1)	Medium density	
7190-2	7192-2	7191-2	7276-2	7193-2 (*1)	High density	

Notes:
Changing the adjustment setting influences the adjacent density area slightly.
E.g.: When the value of the medium density is larger, the adjacent areas in the low density and high density range will become slightly darker.

*1: e-STUDIO206L/256/306/356/456/506 only.

<Procedure>

(1)　While pressing [0] and [5] simultaneously, turn the power ON.

(2)　Key in the code for an item to be adjusted and then press the [START] button.

(3)　Key in a number for the density area to be adjusted (0, 1 or 2), and then press the [START] button.
0: Low density　1: Medium density　2: High density

(4)　Key in an adjustment value.
(To correct the keyed-in value, press the [CLEAR] button.)

(5)　Press the [OK] or [INTERRUPT] button to store the value in memory. The equipment goes back to the ready state.

(6)　For resetting the value, repeat step (2) to (5).

(7)　Press the [FAX] button and then the [START] button. Then perform test copying.

(8)　If the desired image density has not been attained, repeat step (2) to (7).

6.4.8　Adjustment of image density

The image density level can be set at the following codes.

< Adjustment Mode (05) >

Code				Item to be adjusted	Remarks
Text/ photo	Text	Photo	Present ation		
7218-0 to 4	7219-0 to 4	7220-0 to 4	7221-0 to 4(*1)	Adjustment of image density	When the value is decreased, text becomes lighter. Acceptable values: 0 to 10 **Notes:** 1. Set not to reverse the large and small number of the setting value corresponding to the sub code. Ex.) When the image density level for 7218-0, 7218-1, 7218-2, 7218-3, and 7218-4 is assumed to be "A", "B", "C", "D", and "E" respectively, they should have the following correlation: $A \leq B \leq C \leq D \leq E$ 2. Remember that the image specifications and life span of the replacing parts may not meet the standard when the setting value is changed from the default value.

*1: e-STUDIO206L/256/306/356/456/506 only.

<Procedure>

(1)　While pressing [0] and [5] simultaneously, turn the power ON.

(2)　Key in a code and press the [START] button.

(3)　Key in the sub code (0, 1, 2, 3 or 4), and press the [START] button.

(4)　Key in an adjustment value.
　　　(To correct the keyed-in value, press the [CLEAR] button.)

(5)　Press the [OK] or [INTERRUPT] button to store the value in memory. The equipment goes back to the ready state.

(6)　For resetting the value, repeat step (2) to (5).

(7)　Press the [FAX] button and then select an original mode. Then press the [START] button to perform test copying.

(8)　If the desired image density has not been attained, repeat step (2) to (7).

6.4.9 Background offsetting adjustment for RADF

The background level for scanning originals with the RADF is adjusted when the background fogging at the scanning of a manually-set original and an original used with the RADF is different. This is to adjust the level of the background image removed when the scanning of the originals with the RADF is performed.

< Adjustment Mode (05) >

Code	Item to be adjusted	Remarks
7025	Background offsetting adjustment for RADF (black and white)	The smaller the adjustment value is, the lighter the background becomes. The larger the adjustment value is, the darker the background becomes. Acceptable values: 0 to 255 (Default: 128)

<Procedure>
Procedure is same as that of 📖 P. 6-23 "6.4.2 Density adjustment".

6.4.10 RADF scan noise reduction (Copying Function)

The reduction amount of color streaks generated when 08-7617 (RADF scan noise reduction) is set to 0, 1 or 2 can be adjusted with the following codes.

< Adjustment Mode (05) >

Code				Item to be adjusted	Remarks
Text/ photo	Text	Photo	User custom		
7151	7152	7153	7150	Scan noise reduction	When the value decreases, the effect of reducing streaks becomes larger. When the value increases, the effect of reducing streaks becomes smaller. When "0" is set, this function is disabled. Acceptable values: 0 to 200 (Default: 100) **Notes:** If too small a value is set, the text may not be printed clearly.

<Procedure>
Procedure is same as that of 📖 P. 6-23 "6.4.2 Density adjustment".

6.4.11 Judgment threshold adjustment for blank originals

The judgment level is adjusted for automatic identification of whether the original set is blank or not. This adjustment is made when "OMIT BLANK PAGE" is selected on the control panel.
The adjustment value is simultaneously applied to all modes at PPC and scanning.

< Adjustment Mode (05) >

Code	Item to be adjusted	Remarks
7618	Judgment threshold adjustment for blank originals	The larger the value is, the more an original tends to be judged as a blank sheet. Acceptable values: 0 to 255 (Default: 128)

<Procedure>
The procedure is the same as that of 📖 P. 6-23 "6.4.2 Density adjustment".

6.5　Image Quality Adjustment (Printing Function)

6.5.1　Adjustment of smudged/faint text

The smudged/faint text can be set at the following codes.

< Adjustment Mode (05) >

Language			Remarks
PS	PCL	XPS	
7325	7326	7327	When the value increases, the smudged text is improved. When the value decreases, the faint text is improved. Acceptable values: 0 to 9 (Default: 5)

<Procedure>

(1)　While pressing [0] and [5] simultaneously, turn the power ON.

(2)　Key in a code and press the [START] button.

(3)　Key in an adjustment value.
　　　(To correct the keyed-in value, press the [CLEAR] button.)

(4)　Press the [OK] or [INTERRUPT] button to store the value. The equipment goes back to the ready state.

(5)　Turn the power OFF and then back ON to perform printing job.

(6)　If the desired text density has not been attained, repeat step (2) to (5).

6.5.2   Adjustment of image density

The image density when normal printing is performed while [Toner Save] and [Hardcopy Security Kit] are selected from a printer driver can be adjusted.

< Adjustment Mode (05) >

Normal Print	Toner mode			Hardcopy security printing	Test print	Box printing	Item to be adjusted	Remarks
	Toner save (PS)	Toner save (PCL)	Toner save (XPS)					
7350-0 to 4	7351-0 to 4	7352-0 to 4	7353-0 to 4	7354-0 to 4	7355-0 to 4	7356-0 to 4	Adjustment of image density	When the value is decreased, text becomes lighter. Acceptable values: 0 to 10 **Notes:** 1. Set not to reverse the large and small number of the setting value corresponding to the sub code. Ex.) When the image density level for 7350-0, 7350-1, 7350-2, 7350-3, and 7350-4 is assumed to be "A", "B", "C", "D", and "E" respectively, they should have the following correlation: $A \leq B \leq C \leq D \leq E$ 2. Remember that the image specifications and life span of the replacing parts may not meet the standard when the setting value is changed from the default value.

<Procedure>
 (1)   While pressing [0] and [5] simultaneously, turn the power ON.

 (2)   Key in a code and press the [START] button.

 (3)   Key in the sub code (0, 1, 2, 3 or 4), and press the [START] button.

 (4)   Key in an adjustment value.
        (To correct the keyed-in value, press the [CLEAR] button.)

 (5)   Press the [OK] or [INTERRUPT] button to store the value in memory. The equipment goes back to the ready state.

 (6)   For resetting the value, repeat step (2) to (5).

 (7)   Turn the power OFF and then back ON to perform printing job.

 (8)   If the desired image density has not been attained, repeat step (2) to (7).

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6.5.3 Gamma balance adjustment

The density is adjusted by adjusting the gamma balance. The adjustment is performed by selecting its density area from the following: low density, medium density and high density.

<Adjustment Mode (05)>

Color mode	Smooth (PS)	Detail (PS)	Smooth (PCL)	Detail (PCL)	Smooth (XPS)	Detail (XPS)	Item to be adjusted Item to be adjusted	Remarks
Black (600dpi)	7315-0	7316-0	7317-0	7318-0	7319-0	7320-0	Low density	The larger the value is, the density of the item to be adjusted becomes darker. Acceptable values: 0 to 255 (Default: 128)
	7315-1	7316-1	7317-1	7318-1	7319-1	7320-1	Medium density	
	7315-2	7316-2	7317-2	7318-2	7319-2	7320-2	High density	

Color mode	Auto (PS)			Item to be adjusted	Remarks
	Text	Graphics	Image		
Black (600dpi)	7360-0	7361-0	7362-0	Low density	The larger the value is, the density of the item to be adjusted becomes darker. Acceptable values: 0 to 255 (Default: 128)
	7360-1	7361-1	7362-1	Medium density	
	7360-2	7361-2	7362-2	High density	

Color mode	Auto (XPS)			Item to be adjusted	Remarks
	Text	Graphics	Image		
Black (600dpi)	7366-0	7367-0	7368-0	Low density	The larger the value is, the density of the item to be adjusted becomes darker. Acceptable values: 0 to 255 (Default: 128)
	7366-1	7367-1	7368-1	Medium density	
	7366-2	7367-2	7368-2	High density	

Notes:
Changing the adjustment setting influences the adjacent density area slightly.
E.g.: When the value of the medium density is larger, the adjacent areas in the low density and high density range will become slightly darker.

<Procedure>

(1) While pressing [0] and [5] simultaneously, turn the power ON.
(2) Key in the codes to be adjusted (language and screen) and press the [START] button.
(3) Key in the value corresponding to the density area to be adjusted (0, 1 or 2) and press the [START] button.
0: Low density 1: Medium density 2: High density
(4) Key in the adjustment value. (To correct the value once keyed in, press the [CLEAR] button.)
(5) Press the [OK] or [INTERRUPT] button to store the value in memory. → The equipment goes back to the ready state.
(6) For resetting the value, repeat step (2) to (5).
(7) Turn the power OFF and then back ON. Then perform printing.
(8) If the image density has not been attained, repeat step (2) to (7).

6.6 Image Quality Adjustment (Scanning Function)

6.6.1 Gamma balance adjustment

The density is adjusted by adjusting the gamma balance. The adjustment is performed by selecting its density area from the following: low density, medium density and high density.

<Adjustment Mode (05)>

Black			Gray Scale	Item to be adjusted	Remarks
Original mode					
Text/ Photo	Photo	User custom			
7485-0	7487-0	7480-0	7488-0	Low density	The larger the value is, the density of the item to be adjusted becomes darker. Acceptable values: 0 to 255 (Default: 128)
7485-1	7487-1	7480-1	7488-1	Medium density	
7485-2	7487-2	7480-2	7488-2	High density	

Notes:
Changing the adjustment setting influences the adjacent density area slightly.
E.g.: When the value of the medium density is larger, the adjacent areas in the low density and high density range will become slightly darker.

<Procedure>

(1) While pressing [0] and [5] simultaneously, turn the power ON.
(2) Key in the code corresponding to the desired original mode and press the [START] button.
(3) Key in the value corresponding to the density area to be adjusted (0, 1 or 2) and press the [START] button.
   0: Low density (L), 1: Medium density (M), 2: High density (H)
(4) Key in the adjustment value. (To correct the value once keyed in, press the [CLEAR] button.)
(5) Press the [OK] or [INTERRUPT] button to store the value in memory. → The equipment goes back to the ready state.
(6) For resetting the value, repeat step (2) to (5).
(7) Turn the power OFF and then back ON. Then perform scanning.
(8) If the desired image has not been attained, repeat step (2) to (7).

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6.6.2   Density adjustment

Adjusts the center density and the variation of density adjustment buttons.

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Color				Item to be adjusted	Remarks
Original mode					
Text /Photo	Text	Photo	User custom		
8339	8340	8341	8380	Manual density center value	The larger the value is, the darker the image becomes. Acceptable values: 0 to 255 (Default: 128)
-	8344	8345	8381	Manual density light step value	Sets the changing amount by 1 step at the density adjustment on the control panel. The larger the value is, the lighter the light side becomes. Acceptable values: 0 to 255 (Default: 20)
-	8348	8349	8382	Manual density dark step value	Sets the changing amount by 1 step at the density adjustment on the control panel. The larger the value is, the darker the dark side becomes. Acceptable values: 0 to 255 (Default: 20)

e-STUDIO207L/257/307/357/457/507   <Adjustment Mode (05)>

Color				Item to be adjusted	Remarks
Original mode					
Text /Photo	Text	Photo	User custom		
8339	8340	8341	8380	Manual density center value	The larger the value is, the darker the image becomes. Acceptable values: 0 to 255 (Default: 128)

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Black				Gray Scale	Item to be adjusted	Remarks
Original mode						
Text/ Photo	Text	Photo	User custom			
7444	7445	7446	7475	7447	Manual density center value	The larger the value is, the darker the image becomes. Acceptable values: 0 to 255 (Default: 128)
7456	7457	7458	7478	7459	Automatic density	

<Procedure>

(1) While pressing [0] and [5] simultaneously, turn the power ON.
(2) Key in a code and press the [START] button.
(3) Key in an adjustment value (acceptable values: 0 to 255).
     (To correct a value once keyed in, press the [CLEAR] button.)
(4) Press the [OK] or [INTERRUPT] button to store the value in memory. → The equipment goes back to the ready state.
(5) Turn the power OFF and then back ON. Then perform scanning.
(6) If the desired image quality has not been attained, repeat step (1) to (5).

6.6.3   Judgment threshold for ACS

The judgment level is adjusted for the automatic identification of whether the original set on the glass is black or color. Namely, this is to adjust the judgment level used when "Auto Color" is selected at color modes.

<div align="right"><Adjustment Mode (05)></div>

Code	Item to be adjusted	Contents
7630	Judgment threshold for ACS	The larger the value is, the more an original tends to be judged as black even at the Auto Color Mode. The smaller the value is, the more it tends to be judged as color. Acceptable values: 0 to 255 (Default: 70)

<Procedure>:
The procedure is the same as that of 📖 P. 6-34 "6.6.2 Density adjustment".

6.6.4   Sharpness adjustment

If you want to make scan images look softer or sharper, perform the following adjustment. The adjustment can be made for each of the color modes and original modes independently.

<div align="right"><Adjustment Mode (05)></div>

Code	Color mode	Original mode	Contents
8335	Full Color	Text	The larger the value is, the sharper the image becomes; while the smaller the value is, the softer the image becomes. The smaller the value is, the less moire tends to appear. The acceptable values are 0 to 255 (Default: 128)
8336		Photo	
8354		Text/Photo	
8375		User custom	
7430	Black	Text/Photo	
7431		Text	
7432		Photo	
7470		User custom	
7433	Gray Scale	-	

Notes:
  You have to make adjustment by balancing between moire and sharpness.

<Procedure>
The procedure is the same as that of 📖 P. 6-34 "6.6.2 Density adjustment".

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6.6.5 Setting range correction

The values of the background peak in the range correction can be switched to "varied" or "fixed" in the following codes.
If they are fixed, the range correction is performed with standard values.
The values of the background peak affects the reproduction of the background density and the values of the text peak affects that of the text density.

e-STUDIO206L/256/306/356/456/506   <Adjustment Mode (05)>

Black				Gray Scale	Item to be adjusted	Remarks
Original mode						
Text/ Photo	Text	Photo	User custom			
7416	7417	7418	7425	7419	Range correction (Automatic density adjustment)	0: Background peak - fixed 1: Background peak - varied
7421	7422	7423	7426	7424	Range correction (Manual density adjustment)	

Color				Item to be adjusted	Remarks
Original mode					
Text/ Photo	Text	Photo	User custom		
-	8330	8331	8334	Range correction (Automatic density adjustment)	0: Background peak - fixed 1: Background peak - varied
8360	8361	8362	8365	Range correction (Manual density adjustment)	

<Procedure>
The procedure is the same as that of 📖 P. 6-34 "6.6.2 Density adjustment".

6.6.6 Background adjustment

The adjustment level of background center value is adjusted.

[1] Color
e-STUDIO206L/256/306/356/456/506   <Adjustment Mode (05)>

Code	Original mode	Remarks
8309	Text/Photo	The smaller the value is, the background becomes lighter. Acceptable values: 0 to 50 (Default: 50)
8310	Text	
8311	Photo	
8370	User custom	

The control value of background adjustment button is automatically adjusted to the same level as the adjusted center value.
For example, when the control value of background adjustment key ranges from 0 to 6, the background center value (-2 to +2) is used to be the range from 6 to 14 accordingly.
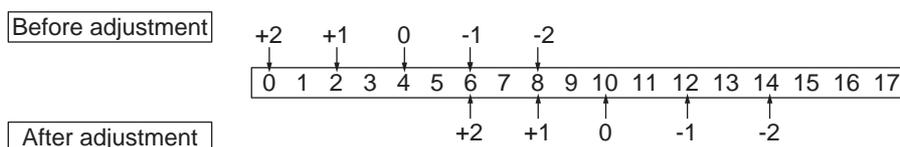
Fig.6-20

e-STUDIO207L/257/307/357/457/507   <Adjustment Mode (05)>

Code	Original mode	Remarks
8309	Text/Photo	The larger the value is, the background becomes darker. The smaller the value is, the background becomes lighter. Acceptable values: 0 to 255 (Default: 128)
8310	Text	
8311	Photo	
8370	User custom	

If the setting value is changed, each step for the background adjustment performed by using the buttons will be affected.

[2] Black/Grayscale
e-STUDIO207L/257P/357/457/507   <Adjustment Mode (05)>

Code	Color mode	Original mode	Remarks
7436	Black	Text/Photo	The larger the value is, the background becomes darker. The smaller the value is, the background becomes lighter. Acceptable values: 0 to 255 (Default: 128)
7437		Text	
7438		Photo	
7441		Custom mode	
7439	Grayscale	-	

<Procedure>
The procedure is the same as that of 📖 P. 6-34 "6.6.2 Density adjustment".

6.6.7 Fine adjustment of black density

The density of black side on scanned image is adjusted at color-scanning.

<Adjustment Mode (05)>

Code	Original mode	Remarks
8314	Text / Photo	The larger the value is, the black side of the image becomes darker. Acceptable values: 0 to 4 (Default: Text/Photo: 1, Others: 0)
8315	Text	
8316	Photo	
8371	User custom	

Notes:
   Be careful for the value not to be too large since the gradation is reproduced worse in darker side.

<Procedure>
The procedure is the same as that of 📖 P. 6-34 "6.6.2 Density adjustment".

6.6.8 RGB conversion method selection

The color space conversion method of image is decided at color-scanning.

<Adjustment Mode (05)>

Code	Original mode	Remarks
8319	Text /Photo	0: sRGB, 1: AppleRGB, 2: ROMMRGB, 3: AdobeRGB (Default: 0)
8320	Text	
8321	Photo	
8372	User custom	

<Procedure>
The procedure is the same as that of 📖 P. 6-34 "6.6.2 Density adjustment".

6.6.9 Adjustment of saturation

The saturation of the scanned image is adjusted for color-scanning.

<Adjustment Mode (05)>

Code	Original mode	Remarks
8324	Text / Photo	The larger the value is, the brighter the image becomes. The smaller the value is, the duller the image becomes. Acceptable values: 0 to 255 (Default: 128)
8325	Text	
8326	Photo	
8373	User custom	

<Procedure>
The procedure is the same as that of 📖 P. 6-34 "6.6.2 Density adjustment".

6.6.10 Background processing offset adjustment

The density of background is adjusted.

e-STUDIO206L/256/306/356/456/506   \<Adjustment Mode (05)\>

Black				Item to be adjusted	Remarks
Original mode					
Text/ Photo	Photo	User Custom	Gray Scale		
8400	8402	8404	8403	Background density adjustment / Automatic density adjustment	The smaller the value is, the lower the density of the image background (low density section) becomes. The larger the value is, the higher the density of the image background (low density section) becomes. Acceptable values: 0 to 255 (Default: 128)
8405	8407	8409	8408	Background density adjustment / Manual density adjustment	

Color				Item to be adjusted	Remarks
Original mode					
Text/ Photo	Text	Photo	User Custom		
8355	8385	8386	8389	Background density adjustment / Automatic density adjustment	The smaller the value is, the lower the density of the image background (low density section) becomes. The larger the value is, the higher the density of the image background (low density section) becomes. Acceptable values: 0 to 255 (Default: 128)
8356	8390	8391	8394	Background density adjustment / Manual density adjustment	

6.6.11 Background offsetting adjustment for RADF

RADF	Item to be adjusted	Remarks
7025	Background density processing / RADF scanning (Black and white)	Adjusts the density of background for RADF scanning. The smaller the adjustment value is, the lighter the background becomes. The larger the adjustment value is, the darker the background becomes. Acceptable values: 0 to 255 (Default: 128)
7026	Background density processing / RADF scanning (Color)	Adjusts the density of background for RADF scanning. The smaller the adjustment value is, the lighter the background becomes. The larger the adjustment value is, the darker the background becomes. Acceptable values: 0 to 255 (Default: 128) *e-STUDIO257/257P/357/457/507 only

\<Procedure\>

The procedure is the same as that of 📖 P. 6-34 "6.6.2 Density adjustment".

6.6.12 Adjustment of the capacity and image quality of SlimPDF

The compression quality or the resolution is adjusted to reduce the file capacity of a SlimPDF or improve its quality.

< Adjustment Mode (05) >

Code	Item to be adjusted	Remarks
9104	Compression quality of SlimPDF background processing	The smaller the value, the less the file capacity and the lower the image quality becomes. The larger the value, the greater the file capacity and the higher the image quality becomes. Acceptable values: 0 to 10 (Default: 5)

<Procedure>

(1) While pressing [0] and [5] simultaneously, turn the power ON.

(2) Key in the codes to be adjusted and press the [START] button.

(3) Key in the adjustment value. (To correct a value once keyed in, press the [CLEAR] button.)

(4) Press the [OK] or [INTERRUPT] button to store the value in memory. -> The equipment goes back to the ready state.

(5) Let the equipment restart. Acquire the SlimPDF file and check it.

(6) If the desired image quality has not been attained, repeat step (1) to (5).

6.6.13 Surrounding void amount adjustment

The void amount around the network scanned image is adjusted.
In network scanning, since the void amount is very small in stored images, a shadow may appear around the scanned image due to the subtle difference in the original sizes. This shadow can be eliminated by adjusting the setting value.
The setting value is applied to all resolutions and color modes.

< Adjustment Mode (05) >

Code	Item to be adjusted	Remark
7489	Surrounding void amount adjustment	When the value increases, the blank area around the scanned image becomes wider, and the data on the image decrease. Acceptable values: 0 to 255 (Default: 0) The setting value "1" is equal to 1 dot with 600 dpi. (The value "24" is equal to approx. 1 mm.)

<Procedure>
The procedure is the same as that of 📖 P. 6-23 "6.4.2 Density adjustment".

6.6.14 JPEG compression level adjustment

The compression level for saving the scanned data in the JPEG format can be adjusted as follows.

e-STUDIO207L/257/307/357/457/507   < Adjustment Mode (05) >

Code	Item to be adjusted	Remark
8304-0	High quality	The larger the value is, the better the quality becomes, and the larger the size of file becomes. Acceptable values: 0 to 255 (Default: 128)
8304-1	Standard	
8304-2	Low quality	

<Procedure>
Procedure is same as that of 📖 P. 6-34 "6.6.2 Density adjustment".

6.6.15 RADF scan noise reduction (Scanning Function)

The reduction amount of color streaks generated when 08-8300 (ADF scan noise reduction) is set to 0, 1 or 2 can be adjusted with the following codes.

< Adjustment Mode (05) >

Color				Item to be adjusted	Remarks
Original mode					
Text/ photo	**Text**	**Photo**	**User custom**		
8413	8414	8415	8412	RADF scan noise reduction	When the value decreases, the effect of reducing streaks becomes larger. When the value increases, the effect of reducing streaks becomes smaller. When "0" is set, this function is disabled. Acceptable values: 0 to 200 (Default: 100) **Notes:** If too small a value is set, the text may not be printed clearly.

Black					Item to be adjusted	Remarks
Original mode						
Text/ photo	**Text**	**Photo**	**Gray scale**	**User custom**		
7401	7402	7403	7404	7400	RADF scan noise reduction	When the value decreases, the effect of reducing streaks becomes larger. When the value increases, the effect of reducing streaks becomes smaller. When "0" is set, this function is disabled. Acceptable values: 0 to 200 (Default: 100) **Notes:** If too small a value is set, the text may not be printed clearly.

<Procedure>
Procedure is same as that of 📖 P. 6-23 "6.4.2 Density adjustment".

6.7 Image Quality Adjustment (FAX Function)

6.7.1 Density adjustment

The center density and the density variation controlled by density adjustment keys can be adjusted as follows.

<Adjustment Mode (05)>

Color mode	Original mode			Item to be adjusted	Remarks
	Text/ Photo	Text *	Photo		
Black	7533	7534	7535	Manual density center value	The larger the value is, the darker the image becomes. Acceptable values: 0 to 255 (Default: 128)
	7542	-	7543	Automatic density mode	

* Since the gradation in this mode is reproduced in a binary image (black and white), this adjustment should be a simple binary threshold adjustment.

<Procedure>

(1) While pressing [0] and [5] simultaneously, turn the power ON.
(2) Key in a code and press the [START] button.
(3) Key in an adjustment value.
(To correct the value once keyed in, press the [CLEAR] button.)
(4) Press the [OK] or [INTERRUPT] button to store the value. → The equipment goes back to the ready state.
(5) To set it again, repeat step (2) to (4).
(6) Turn the power OFF.

<Confirmation>

If possible, perform a Fax transmission and check the adjusted density with the image on the recipient's side.

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6.7.2 Adjustment of image density

The image density level can be set at the following codes.

< Adjustment Mode (05) >

Code	Item to be adjusted	Remarks

7595-0 to 4	Adjustment of image density	When the value is decreased, text becomes lighter.
		Acceptable values: 0 to 10
		Notes:
		  1. Set not to reverse the large and small number of the setting value corresponding to the sub code.
		    Ex.) When the image density level for 7595-0, 7595-1, 7595-2, 7595-3, and 7595-4 is assumed to be "A", "B", "C", "D", and "E" respectively, they should have the following correlation:
		  2. $A \le B \le C \le D \le E$
		    Remember that the image specifications and life span of the replacing parts may not meet the standard when the setting value is changed from the default value.

<Procedure>

(1) While pressing [0] and [5] simultaneously, turn the power ON.

(2) Key in the code and press the [START] button.

(3) Key in the sub code and press the [START] button.

(4) Key in an adjustment value.
(To correct the keyed-in value, press the [CLEAR] button.)

(5) Press the [OK] or [INTERRUPT] button to store the value in memory. The equipment goes back to the ready state.

(6) For resetting the value, repeat step (2) to (5).

(7) Turn the power OFF.

<Confirmation>
Check the beam level conversion setting with the actual fax data received, if possible.

6.8 Adjustment of High-Voltage Transformer

When replacing the high-voltage transformer, you must check each output adjustment of the main charger bias, developer bias, transfer bias, transfer cleaning bias (positive), transfer cleaning bias (negative) and separation bias.

6.8.1 Adjustment

[1] Preparation

Items to check		Developer Bias	Main Charger	Transfer Bias, Transfer Cleaning Bias (positive), Transfer Cleaning Bias (negative)	Separation Charger
Process Unit		Take the process unit out of the equipment, an then install the high-voltage transformer jig to the unit.			
High-Voltage Transformer Jig		Install the high-voltage transformer jig in the equipment. **Notes:** Connect the green cable of the high-voltage transformer jig to ground on the equipment frame. 📖 P. 6-46 "[A] Installation of the high-voltage transformer jig".			
Digital Tester	(+) terminal	Connect with the black cable (thick line) of the high-voltage transformer jig.	Connect with the red cable (thick line) of the high-voltage transformer jig.	Connect with the red cable (thin line) of the high-voltage transformer jig.	Connect with the gray cable of the high-voltage transformer jig.
	(–) terminal	Connect with the black cable (thin line) of the high-voltage transformer jig.			
	Function switch	DC			
	Full-scale (range)	1000 V		20 V	
	Remarks	Use a digital tester with an input resistance of 10 MΩ (RMS value) or higher.			
How to turn ON the power		Attach the door switch jig and start with the adjustment mode [05] while the front cover opened.			
Note		📖 P. 6-48 "[B] Connection for developer bias adjustment"	📖 P. 6-48 "[C] Connection for main charger adjustment"	📖 P. 6-49 "[D] Connection the transfer bias, transfer cleaning bias (positive) and transfer cleaning bias (negative) adjustment"	📖 P. 6-49 "[E] Connection for separation charger adjustment"

[A] Installation of the high-voltage transformer jig

The high-voltage transformer jig is composed of 2 cables and 1 adapter with a harness.
Attach them to the process unit as shown in the figure.
* Black cable (thick line): Use the screw for the jig. (M3 x 8)
* Red cable (thick line): Use the screw for the process unit.
* Adapter: Use the screw for the process unit.

Notes:
The adjustment may damage the drum. Therefore be sure to replace the drum with the one that you brought (or the one for measurement) before starting the adjustment.
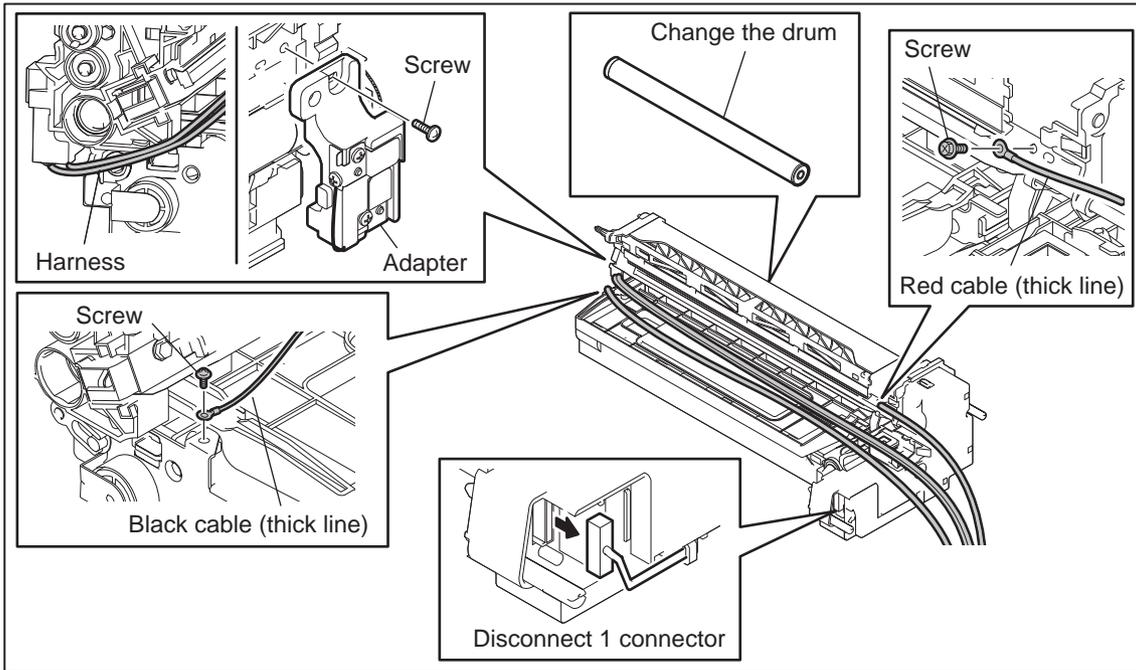
Fig.6-21

(1) Open the automatic duplexing unit.
(2) Open the front cover and take off the toner cartridge.
(3) Loosen 2 screws and pull out the process unit.
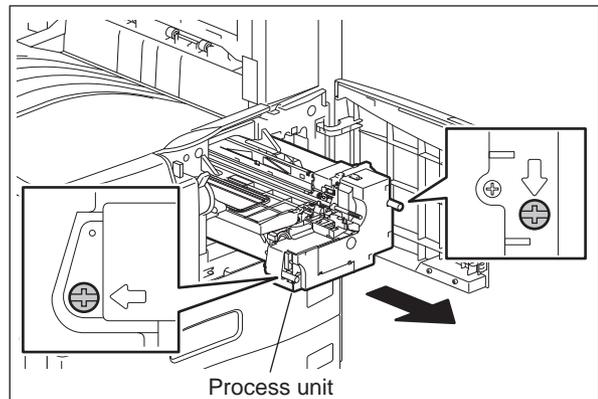
Fig.6-22

(4) Install the high-voltage transformer jig and fix
     it with 2 screws.

   Notes:
     Be careful not to let the connector and the
     harness be caught.

Process unit
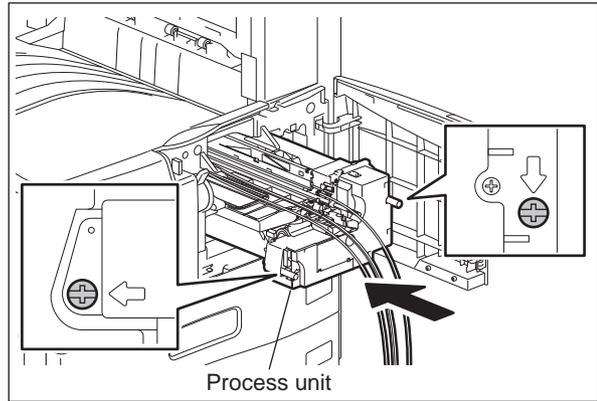
Fig.6-23

(5) Fix the green cable of the high-voltage
     transformer jig to the frame of the equipment.

Green cable
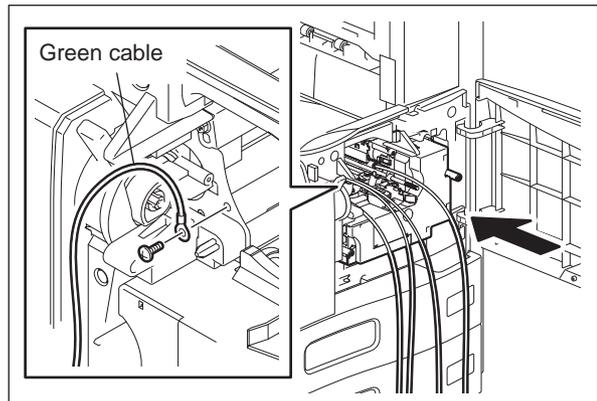
Fig.6-24

(6) Install the door switch jig.
(7) Take off the transfer roller unit.
(8) Close the automatic duplexing unit.

Door switch jig

Fig.6-25

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[B] Connection for developer bias adjustment

(+) terminal:
Connect with the
black cable (thick)

Front cover switch

(-) terminal:
Connect with the black cable (thin)
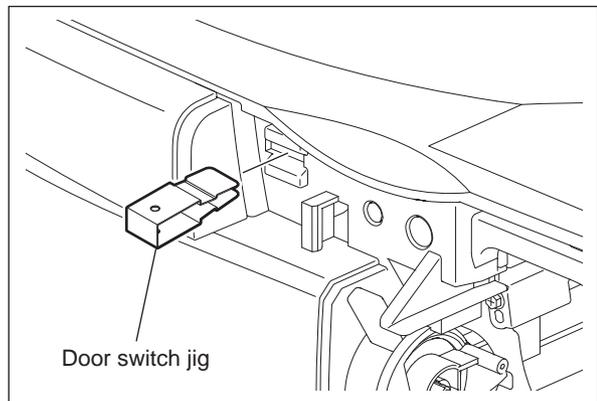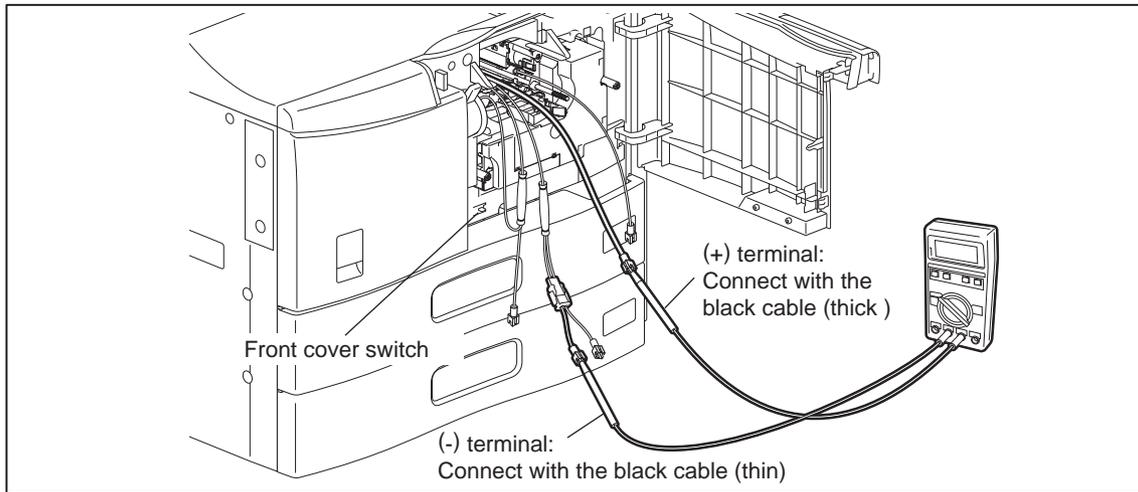
Fig.6-26

[C] Connection for main charger adjustment

(+) terminal:
Connect with the
red cable (thick)

Front cover switch

(-) terminal:
Connect with the black cable (thin)
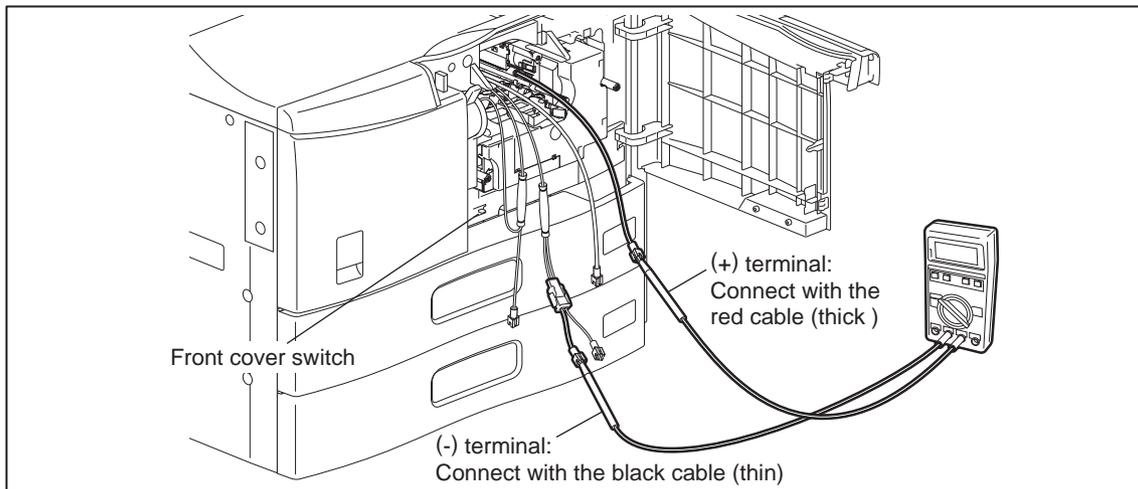
Fig.6-27

[D] Connection the transfer bias, transfer cleaning bias (positive) and transfer cleaning bias (negative) adjustment

Front cover opening/closing switch

(+) terminal:
Connect with the
red cable (thin)

(-) terminal:
Connect with the black cable (thin)
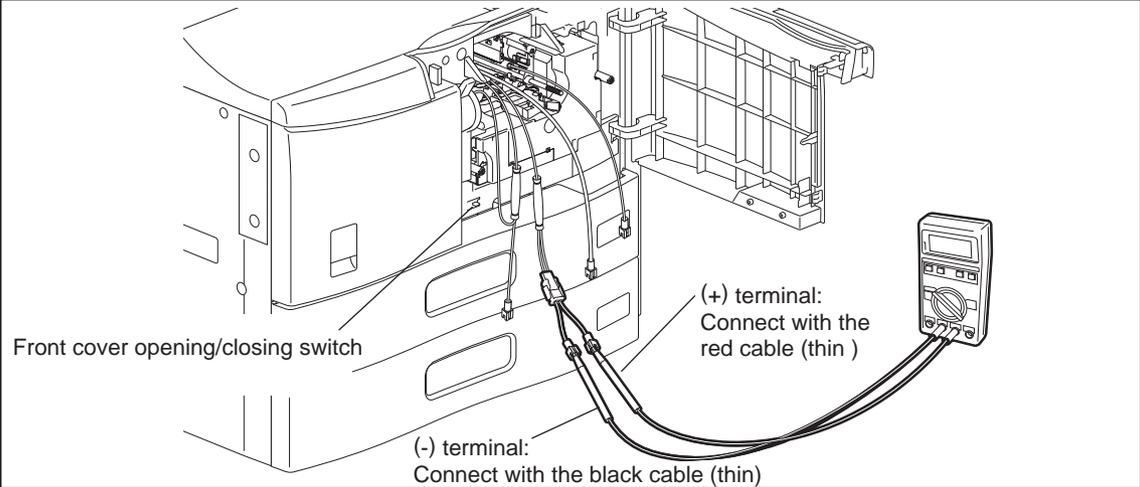
Fig.6-28

[E] Connection for separation charger adjustment

Front cover opening/closing switch

(-) terminal:
Connect with the
black cable (thin)

(+) terminal:
Connect with the
gray cable

Fig.6-29

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
SETTING / ADJUSTMENT
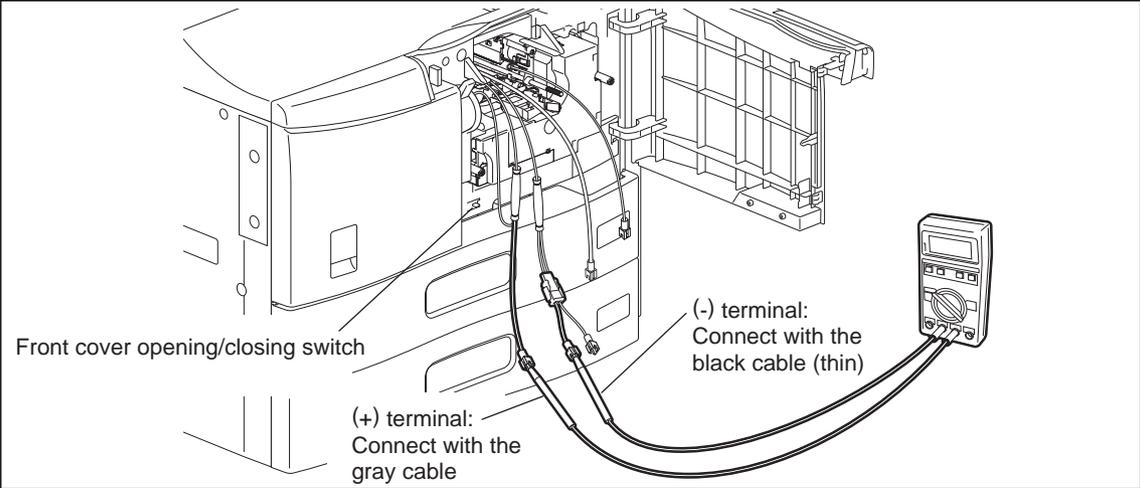
[2] Operation

Notes:

When adjusting output of high-voltage transformer, make sure to use the high-voltage transformer jig.

Connect the digital testers as described in "[1] Preparation", and follow the procedure on the next page to adjust the output from the main charger, developer bias charger, transfer charger and separation charger.

<Keys to press>   <Display>

[0][5]
[POWER]

100%	A	A3
TEST MODE		

① ———→

[Digital keys] : Enter the code.

| 100% | XXX | A3 | Code No.
|---|---|---|
| TEST MODE | | |
| YYY | | |

Current set value

[START]

[UP] or [DOWN]: Adjust the value "YYY" to satisfy the following table.

Item	Code	Adjustment value e-STUOIO			
		206L/256/306	207L/257/307	356/456/506	357/457/507
Developer bias	2020	-377 ± 5V	-427 ± 5V	-377 ± 5V	-427 ± 5V
Main charger bias	2040	-502 ± 5V	-547 ± 5V	-516 ± 5V	-558 ± 5V
Transfer bias	2052	1600 ± 55mV	←	2300 ± 55mV	←
Separation bias	2078	-402 ± 55mV	←	-402 ± 55mV	←
Transfer cleaning bias(positive)	2083	1000 ± 55mV	←	1800 ± 55mV	←
Transfer cleaning bias(negative)	2084	-322 ± 55mV	←	-322 ± 55mV	←

[OK] : Adjusted value "YYY" is stored in memory.
  or
[INTERRUPT]

100%	A	A3
TEST MODE		

Return to ① to enter the other adjustment code.

[POWER] : OFF/ON

Fig.6-30

6.8.2 Precautions

[1] Developer bias
Note for adjustment

Adjust the developer bias if fogging occurs over the entire image even though the main charger grid voltage and toner density are appropriate. However, the following may occur if the developer bias is lowered too much:

- Image contrast becomes low.
- Image is patchy or blurred.
- The carrier in the developer material adheres to the photoconductive drum, causing scratches around the cleaner.

[2] Transfer
Items to check before adjustment

Blotched image or poor transfer can be also caused by matters other than defective adjustment of transfer output. Check the following items before adjusting the transfer charger. If there is no problem, adjust the output of the transfer.

- Are the transfer roller unit, transfer roller and power supply spring properly installed? Is there any foreign matter or damage on the transfer roller surface? Is the transfer guide deformed?
- Is the process unit properly installed? Is the developer magnetic brush in contact with the drum? Is the process unit worked correctly? Is the toner density low?
- Is the copy paper fed straight? Is the copy paper abnormally moist?
- Is the rotation of the registration roller normal?
- Is the separation output different from the set value?
- Is the developer bias value an appropriate one?

Note for adjustment

When blotched image appear:

- If blotched image appear in halftone areas, lower the transfer output value. Remember that transfer performance becomes low if the transfer output value is lowered too much.

When poor transfer occurs:

Increase the transfer output value under the following conditions. Remember that blotched image appear if the transfer output value is increased too much.

- Poor transfer occurs although the transfer roller unit, transfer roller and power supply spring are properly installed and no abnormality exists on the appearance of the transfer roller.
- Thick paper has been frequently used.

[3] Separation

Items to check before adjustment

Poor paper separation from the drum can be also caused by matters other than defective adjustment of the separation output. Check the following items before making an adjustment. If there is no problem, adjust the output of the separation charger.

- Are the erasing needle and the power supply bracket dirty or dislocated?
- Is the mode selected properly according to the paper weight?
- Is the process unit installed properly? Is the developer magnetic brush in contact with the drum? Is the process unit worked correctly? Is the toner density low?
- Is the copy paper fed straight? Is the copy paper abnormally moist?
- Is the rotation of the registration roller normal?
- Is the output of the main charger normal?
- Is the developer bias an appropriate value?
- Is the transfer output different from the set value?
- Is the separation finger in contact with the drum surface?

Note for adjustment

When poor paper separation occurs:

Increase the separation output value under the following conditions. Note that poor transfer occurs if the separation output value is too high.

- Poor separation occurs even though the separation needle is not dirty.
- Thin paper has been frequently used.

When poor transfer occurs:

- Decrease the separation output value when poor transfer occurs. Remember that the separation performance becomes low if the separation output value is decreased too much.

6.9 Adjustment of the Scanner Section

6.9.1 Carriages

[A] Installing carriage wires
When replacing the carriage wires, refer illustrations below:

[Front side]
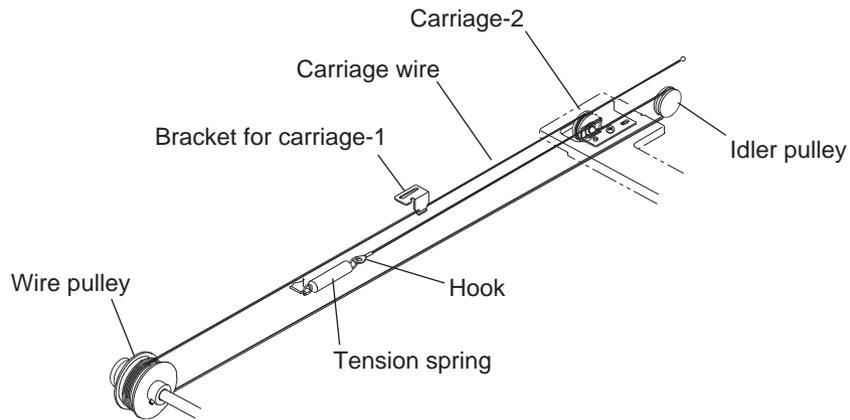
Fig.6-31

[Rear side]
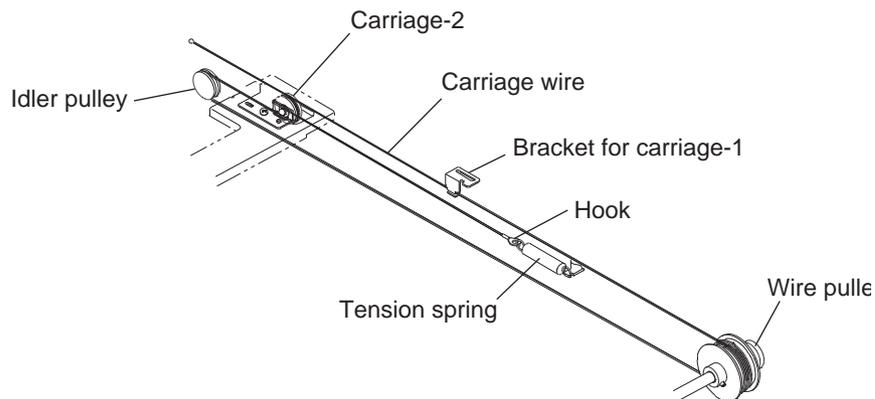
Fig.6-32

Adjustment of the carriage wire tension is not necessary since a certain tension is applied to the carriage wires by the tension springs.

Notes:
 Make sure the tension applied to the wire is normal.

[B]   Adjusting carriages-1 and -2 positions

<Procedure>

(1)   Move the carriage-2 toward the exit side.

(2)   Loosen the screws fixing the front side pulley bracket, make the sections A and B of the carriage-2 touch with the inside of the exit side frame and screw them up.
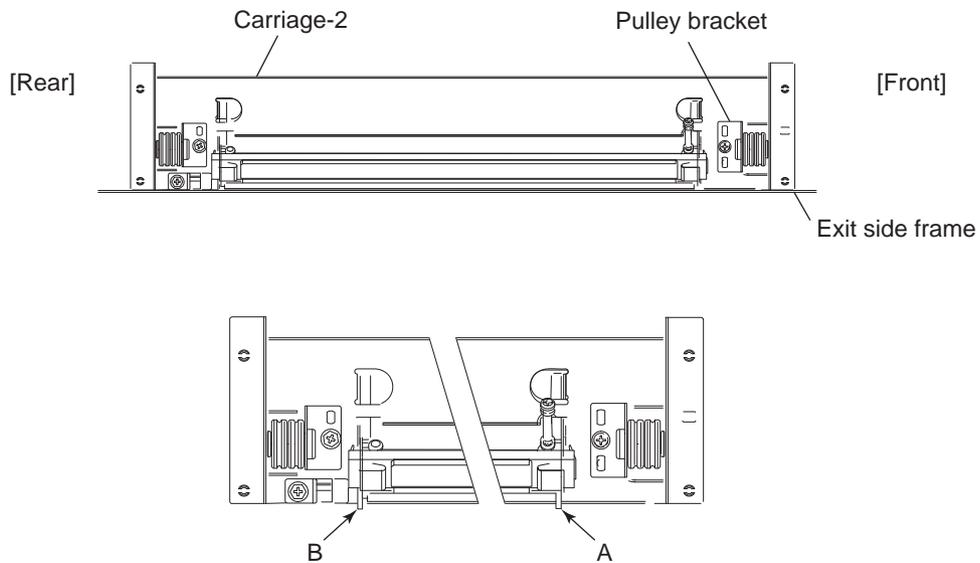
Fig.6-33

(3)   Put the carriage-1 on the rail, make the sections C and D of it touch with the inside of the exit side frame and screw up the front/rear sides of the bracket to fix it.

Notes:
Make sure that the sections A and B of the carriage-2 touch with the exit side frame.
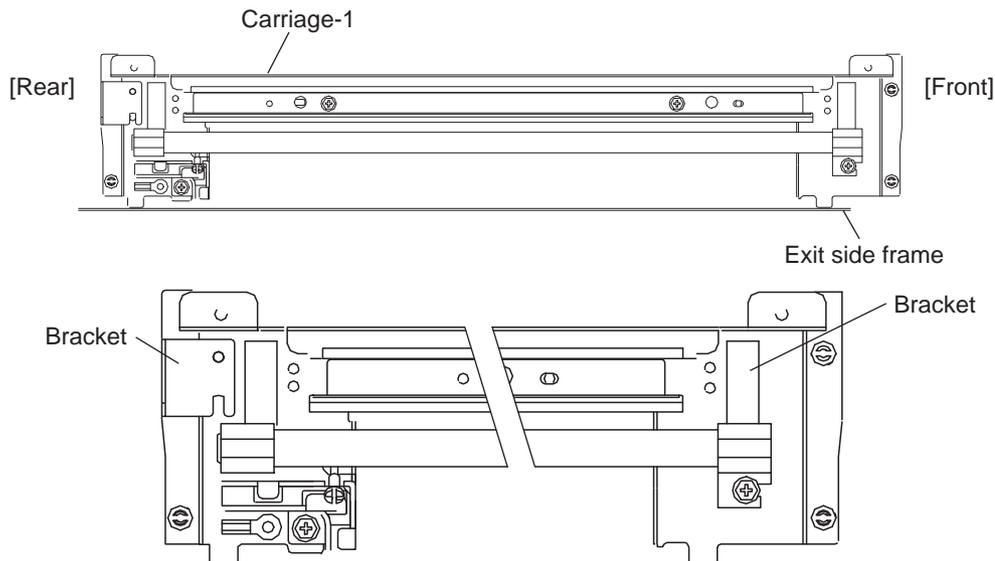
Fig.6-34

[C] Assembling carriage wires (Winding the wire around the wire pulley)

<Procedure>

(1)   Pull the Ø3 ball terminal located at the center of the wire into a hole on the wire pulley. One end of the wire with a hook attached comes to the outside.

(2)   Wind the wires around the wire pulleys of the front and rear sides. The number of turns to be wound are as follows:
   • 3 turns toward the opposite side of the boss
   • 3 turns toward the boss side

   Notes:
   Pay attention to the following when the wires are wound around the pulleys:
   - Do not twist the wire.
   - Wind the wires tightly so that they are in complete contact with the surface of the pulleys.
   - Each turn should be pushed against the previously wound turn so that there is no space between them.

Fig.6-35

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
SETTING / ADJUSTMENT
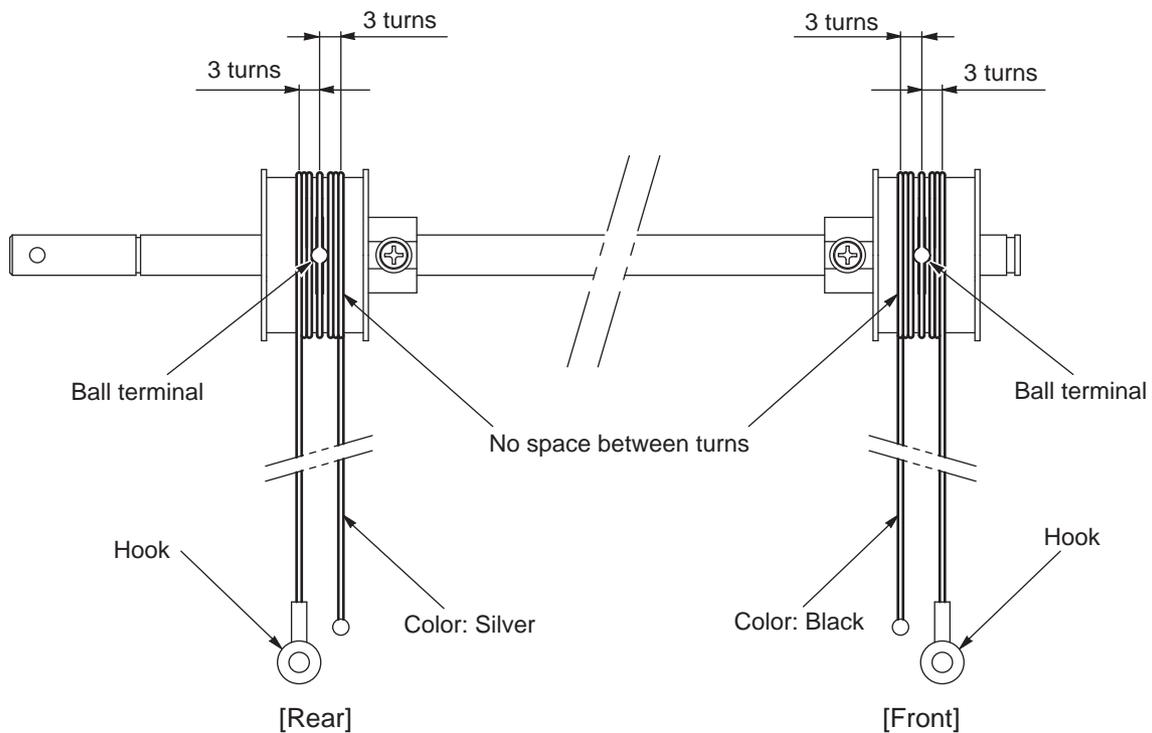
(3)   After winding the wires around the pulleys, attach the wire holder jigs not to loosen the wires.

   Notes:
   • When the wire holder jig is attached, make sure that the wire is not shifted or loosened.
   • The wire should come out of the slot of the wire holder jig and be passed through between the arm and the jig.

Arm

Wire holder jig
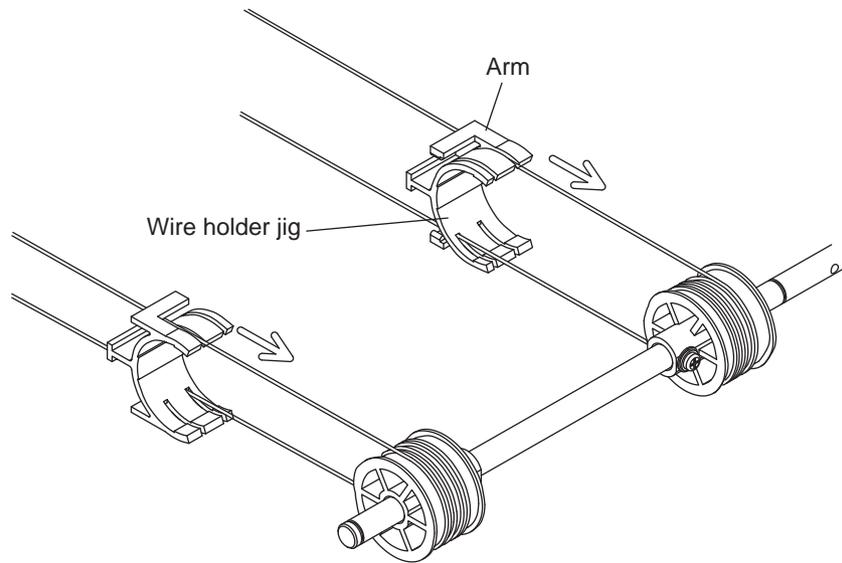
Fig.6-36

6.9.2 Lens unit

[A]   Replacing the lens unit
- The lens unit must not be readjusted and some part of its components must not be replaced in the field since the unit is precisely adjusted. If any of the components is defective, replace the whole unit.
- When replacing the unit, do not loosen or remove the screws indicated with the arrows.

<e-STUDIO206L/256/306/356/456/506>

4-line CCD
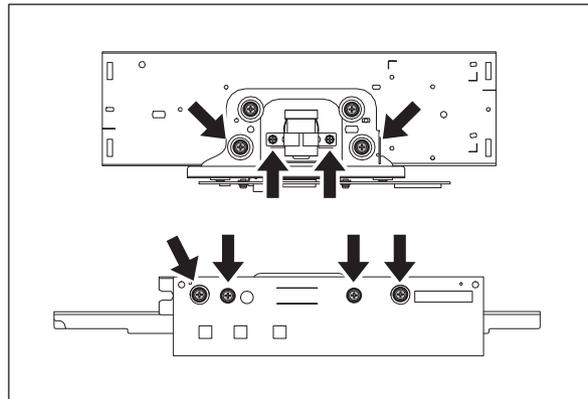
Fig.6-37

3-line CCD

Fig.6-38

<e-STUDIO207L/257/307/357/457/507>

Fig.6-39

EEPROM
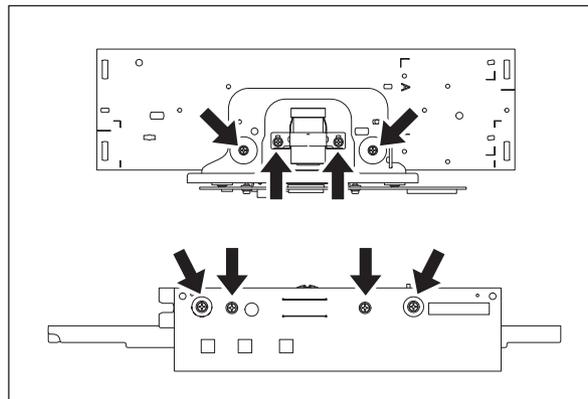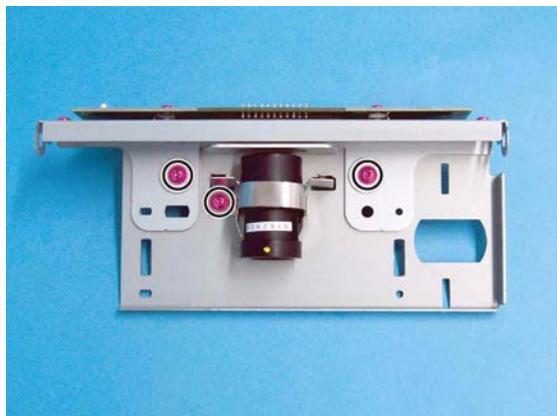
Fig.6-40

- Handle the unit with care. Do not hold the lens and adjusted part (hold the unit as shown below).
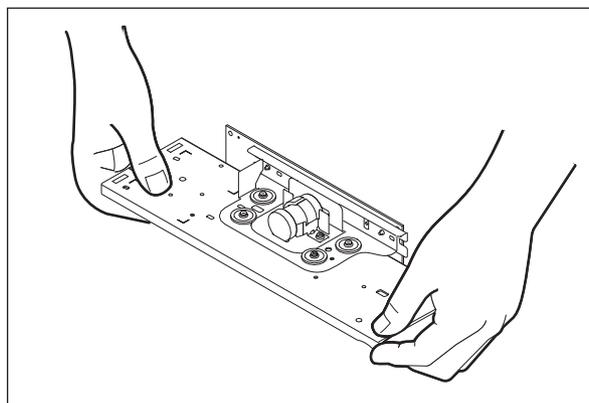
Fig.6-41

[B] Adjustment of the magnification ratio of the lens

Notes:
- Perform this adjustment only when the lens unit is taken off or replaced.
- Make sure that the primary scanning reproduction ratio (printer section) is correct before this adjustment.

(1) Place a ruler on the original glass (in the primary scanning direction) and make a copy on A4/LT-sized paper at 100% reproduction ratio.

(2) Compare the copied ruler with the actual ruler.
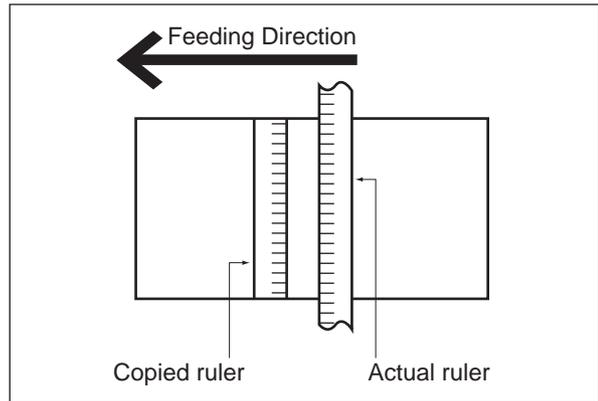
Fig.6-42

(3) If each mark on the rulers differs, perform the adjustment with the following procedures.

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
SETTING / ADJUSTMENT

<Procedure>

(1)   Take off the original glass and lens cover.

(2)   Loosen 4 screws fixing the lens unit.

e-STUDIO206L/256/306/356/456/506

Screw
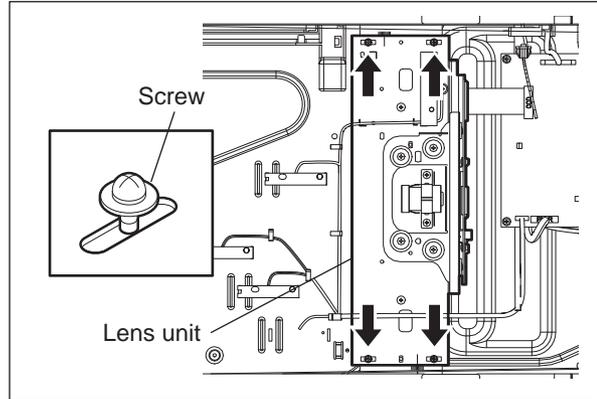
Lens unit

Fig.6-43

e-STUDIO207L/257/307/357/457/507

Screw
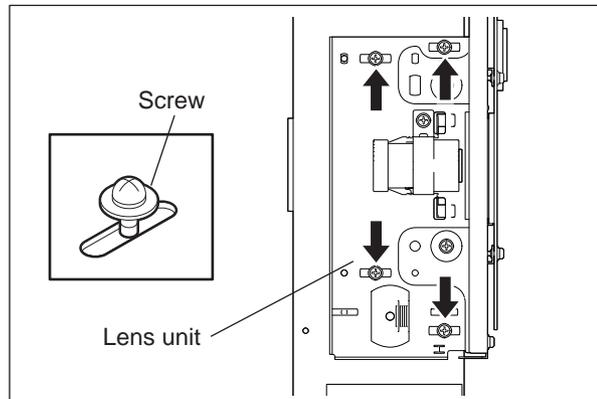
Lens unit

Fig.6-44

(3)   Slide the lens unit to the right or left direction using the marks on the lens base as a guide. (Slide right when the copied ruler is magnified and slide left when the copied ruler is demagnified.) The following table shows how the reproduction ratio difference between the copied ruler and actual ruler corresponds to the movement amount of the lens unit.

Reproduction-ratio error	Movement amount of unit
0.1%	0.5 mm
0.2%	0.9 mm
0.3%	1.4 mm
0.4%	1.8 mm
0.5%	2.3 mm
0.6%	2.7 mm
0.7%	3.2 mm
0.8%	3.6 mm
0.9%	4.1 mm
1.0%	4.5 mm

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Fig.6-45

e-STUDIO207L/257/307/357/457/507
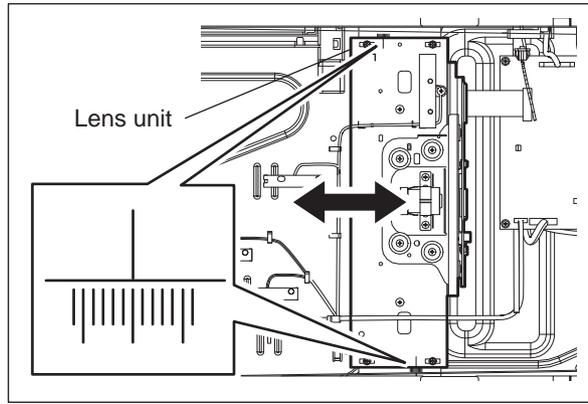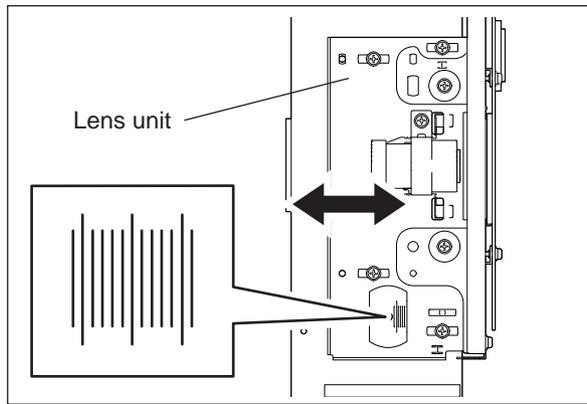
Fig.6-46

Notes:
Fine adjustment can be made in the "Reproduction ratio of primary scanning direction (printer)".
on the copied ruler and actual ruler match.

(4)　Tighten 4 screws fixing the lens unit.

(5)　Attach the lens cover and original glass. Make a copy to confirm the reproduction ratio.

(6)　Repeat the procedure 1 to 5 until the marks on the copied ruler and actual ruler match.

　　e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
SETTING / ADJUSTMENT

6.10 Adjustment of the Paper Feeding System

Adjust the laser writing start position in the primary scanning direction with the lower drawer. (05-4005, 05-4006)
If deviation still occurs, perform the following:

6.10.1 Sheet sideways deviation caused by paper feeding

<Procedure>

The center of the printed image shifts to the front side. → Move the guide to the front side (Arrow (A) direction in the lower figure).

The center of the printed image shifts to the rear side. → Move the guide to the rear side (Arrow (B) direction in the lower figure).
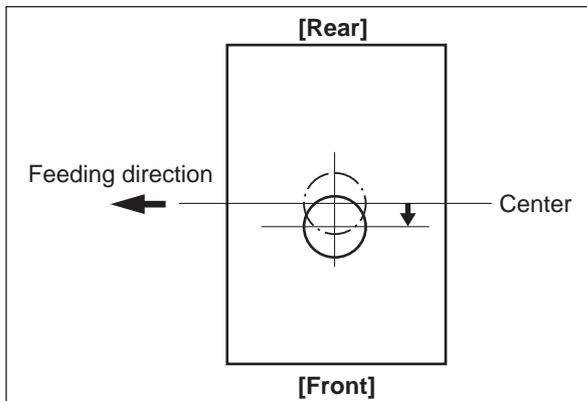
Fig.6-47
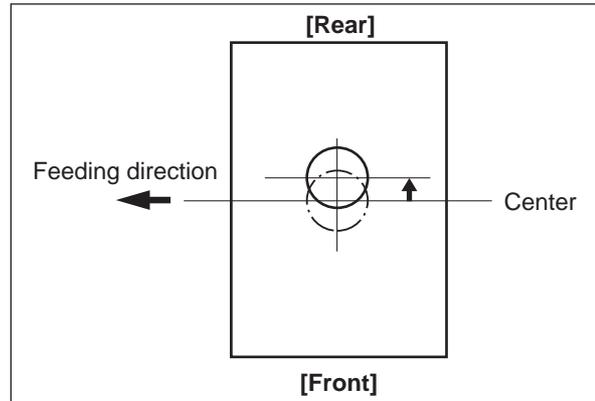
Fig.6-48

Bypass feeding

(1) Loosen the screw.
(2) Move the entire guide to the front or rear side.
(3) Tighten the screw.
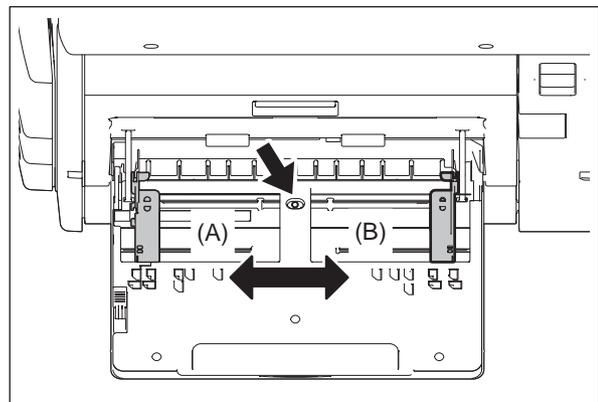
Fig.6-49

Drawer feeding

(1) Remove 1 screw and the stopper. And then take off the drawer.
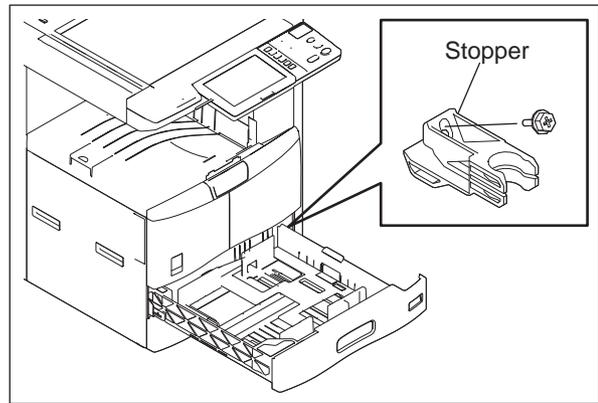
Fig.6-50

(2) Lift up the drawer paper tray. Take off the drawer tray upward by releasing it from a stopper on the front side.

Drawer tray   Stopper
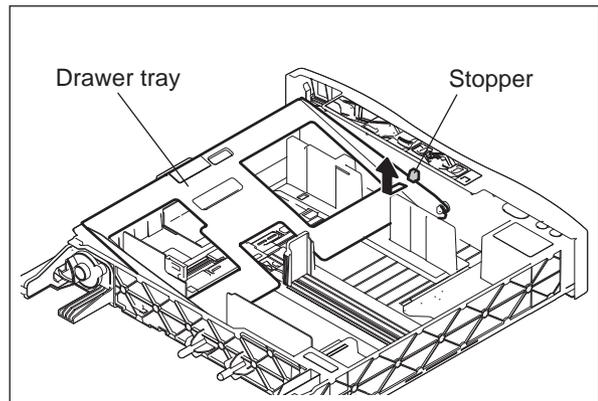
Fig.6-51

(3) Move 1 screw to a position for the adjustment screw. (If it is already moved, skip this step.)

Fig.6-52

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
SETTING / ADJUSTMENT
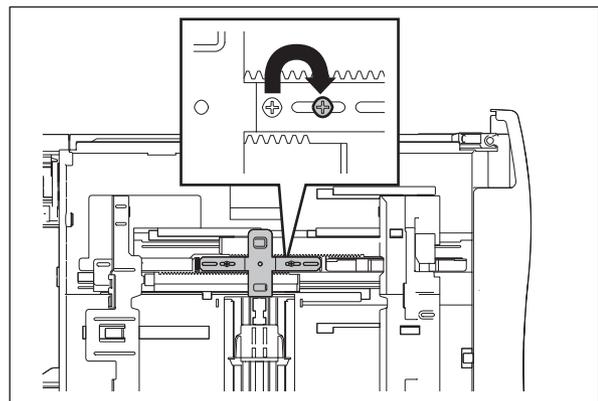
(4) Loosen 2 screws.
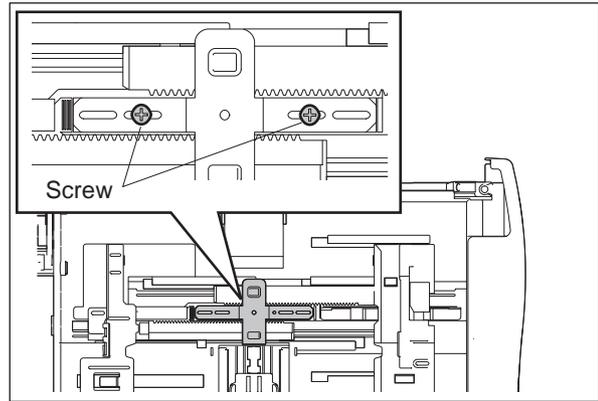
Fig.6-53

(5) Move the entire guide to the front or rear side. Be sure to move the entire guide until you can see 4 triangles.
(6) Tighten the 2 screws of the adjustment plate.
(7) Install the drawer tray, drawer and stopper.
   * Adjustable range: 3 mm to the front side, 4 mm to the rear side (Unit: 1 mm)
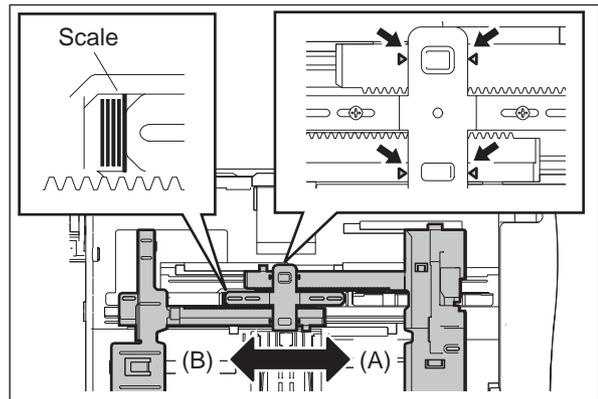
Fig.6-54

6.11 Adjustment of Developer Unit

6.11.1 Doctor-to-sleeve gap

Adjustment tool to use: Doctor-sleeve jig
<Procedure>

(1) Perform the adjustment code "05-2390".
(2) Take out the process unit from the equipment.
(3) Take out the developer unit from the process unit.

(4) Remove 2 screws and take off the developer material cover and discharge the developer material.

    Notes:

    Discharge the developer material from the rear side, being careful not to let it be scattered on the gear.

Developer material cover
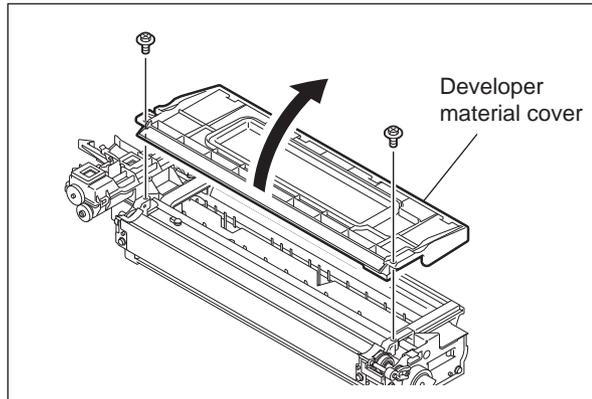
Fig.6-55

(5) Turn the adjustment screw to widen the gap so that the jig can be inserted in it.
(Turning the screw clockwise widens the gap)
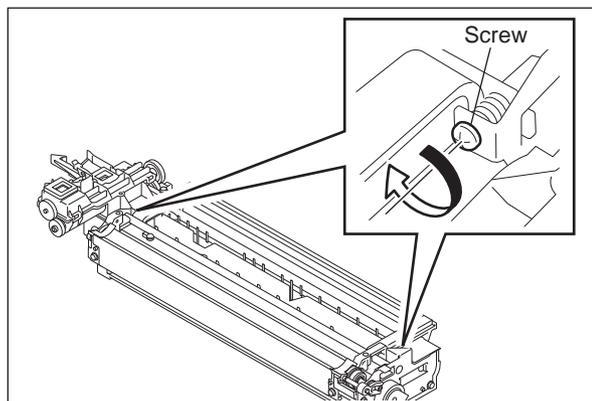
Screw

Fig.6-56

(6) Insert the gauge with the thickness "0.45" of the doctor sleeve jig into the gap between the developer sleeve and doctor blade after lifting up the toner scattering prevention sheet.
Adjust the screws with the doctor blade to push the doctor sleeve jig lightly.

Doctor sleeve jig   Screw

Toner scattering prevention sheet

Fig.6-57

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
SETTING / ADJUSTMENT
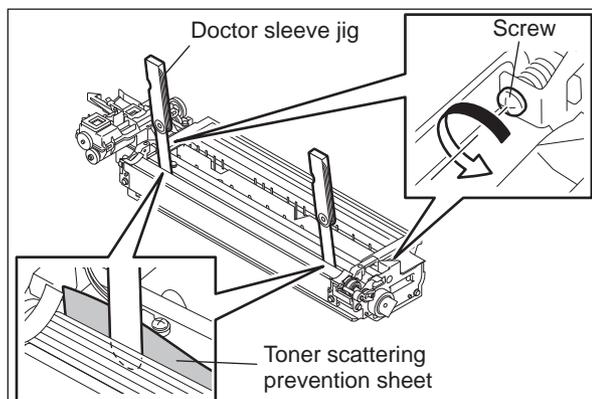
(7) Insert the gauge "0.40" of the doctor sleeve jig into the gap between the developer sleeve and doctor blade. Confirm that the jig moves smoothly to the front and rear side, and the gauge "0.50" cannot be inserted into the gap.

Doctor sleeve jig

Developer sleeve
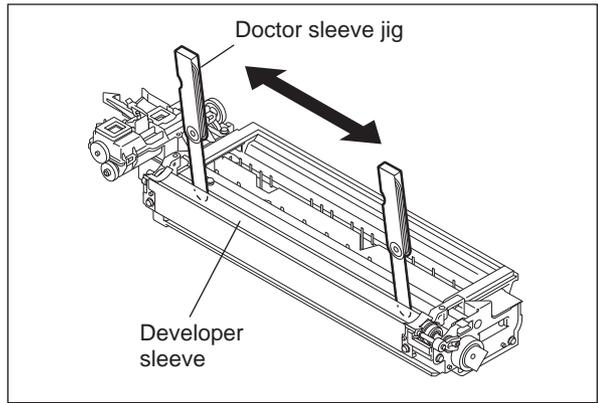
Fig.6-58

(8) Confirm that the side seals are attached on the toner scattering prevention sheet.

Side seal

Toner scattering prevention sheet
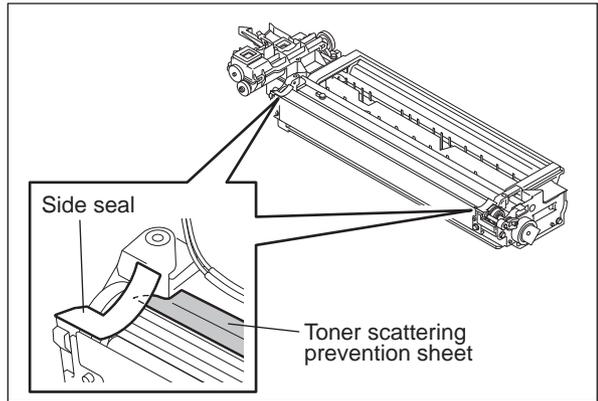
Fig.6-59

(9) Attach the developer material cover and tighten 2 screws.

Notes:

1. After the developer material has been replaced, adjust the auto-toner sensor. (See 📖 P. 6-2 "6.2 Adjustment of Auto-Toner Sensor".)
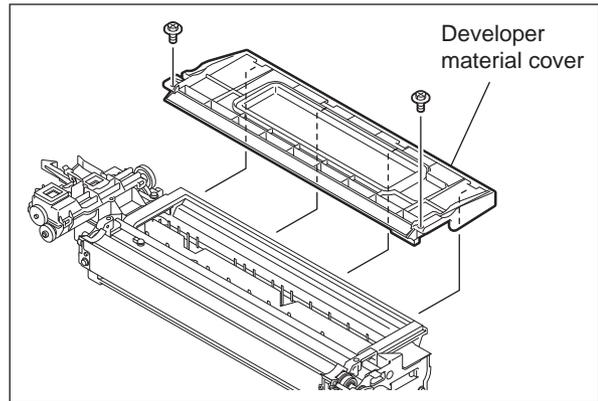
Fig.6-60

2. When installing the developer unit upper cover, make sure that the side seal comes between the developer unit upper cover and rubber seal on the cover.

Fig.6-61

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
SETTING / ADJUSTMENT
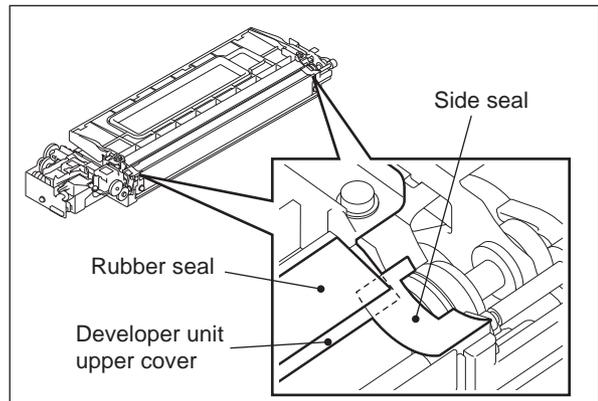
6.12 Adjustment of Dogleg

Dogleg is the name given to an image which is deformed approx. 48 mm of the trailing edge of the output paper.

Since adjustment has usually been performed when the equipment was manufactured, dogleg image should not occur. However, if the following dogleg image A or B does happen to occur, the following adjustment must be performed. An original with a line parallel to the feeding direction is used for the adjustment.

Normal Image

Feeding
Direction

Fig.6-62

Dogleg Image A

Feeding
Direction

Approx. 48 mm of
the trailing edge

Fig.6-63

Dogleg Image B

Feeding
Direction

Approx. 48 mm of
the trailing edge
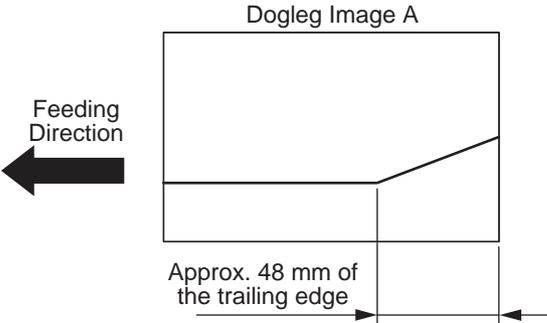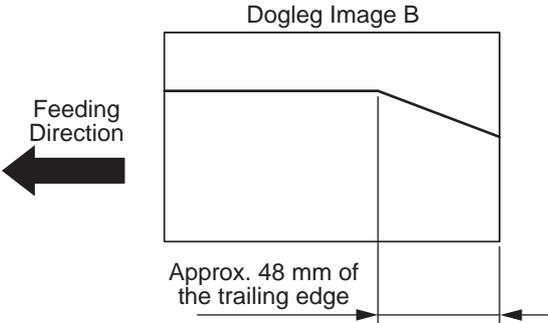
Fig.6-64

<Adjustment procedure>

(1) Loosen screw A. Remove screw B and temporarily fix it to position C.
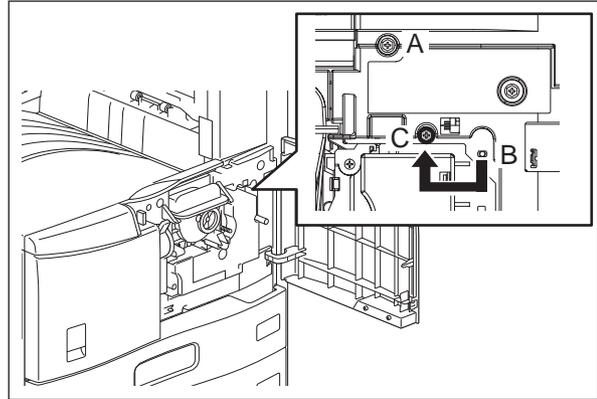
Fig.6-65

(2) Adjust the position of the stay with the scale according to the dogleg image and tighten screws A and C.
   • Dogleg image A
     Perform adjustment so that the stay of the fuser unit comes below the center line of the scale.
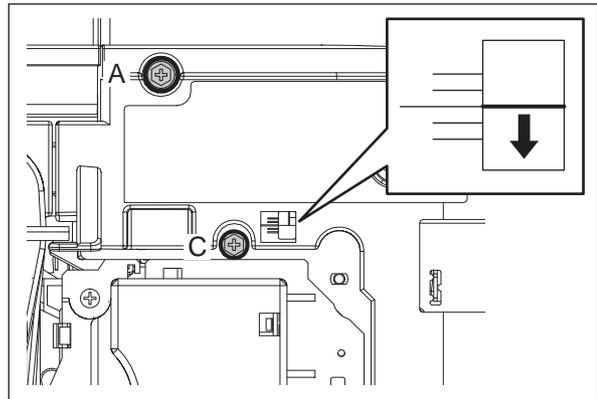
Fig.6-66

   • Dogleg image B
     Perform adjustment so that the stay of the fuser unit comes above the center line of the scale.

Fig.6-67

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
SETTING / ADJUSTMENT
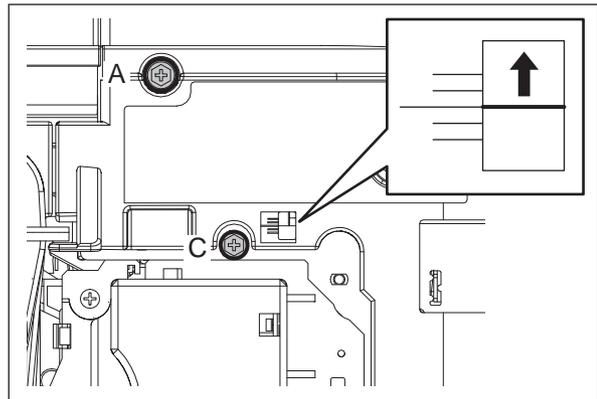
6.13 Adjustment of the RADF

6.13.1 Adjustment of RADF position

Perform this adjustment when the RADF is not installed in the correct position.

> **Notes:**
> Check if the image adjustment for the equipment is performed properly before this adjustment of the RADF.

[A] Checking

(1) Open the RADF and install 2 positioning pins (the positioning pins are installed to the back side of the hinge which is on the left side of the RADF).
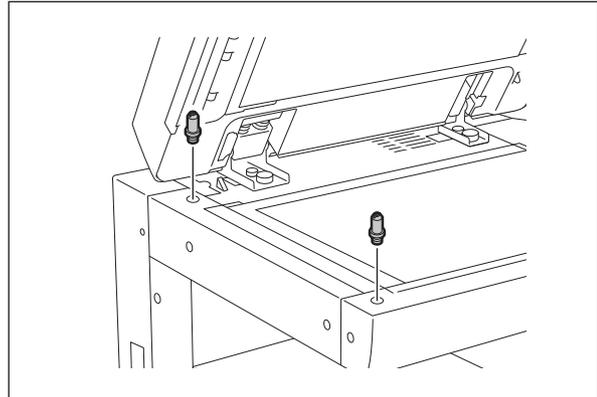
Fig.6-68

(2) Remove the platen sheet.
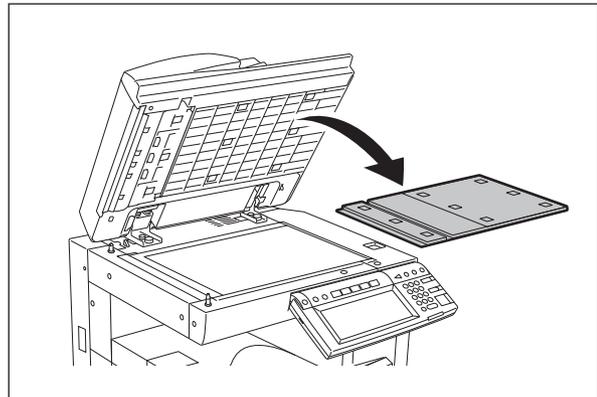
Fig.6-69

(3) Close the RADF and check if the positioning pins fit the holes on the RADF.
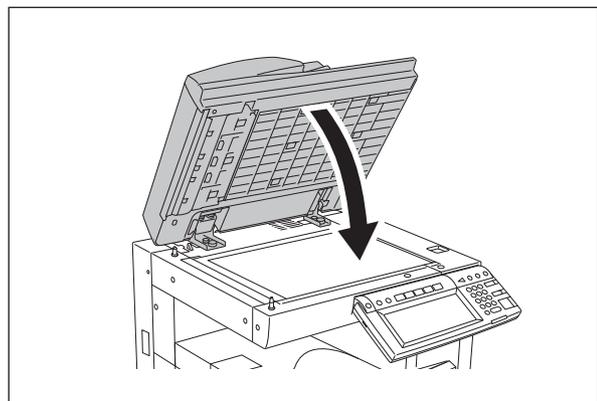
Fig.6-70

[B] Adjustment

If the pins cannot be fitted into the holes, perform the adjustment according to the following procedure.

(1) Remove the right-hand hinge screw at the rear side.
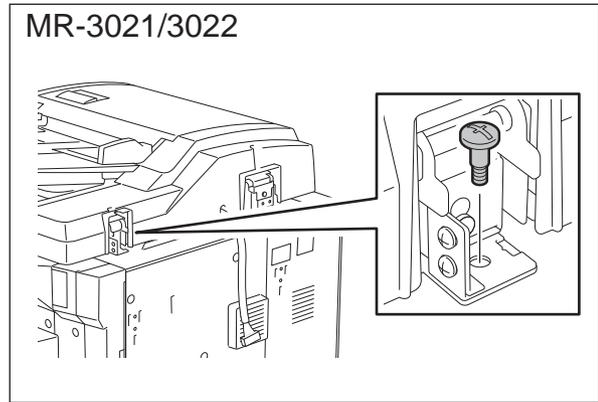
Fig.6-71
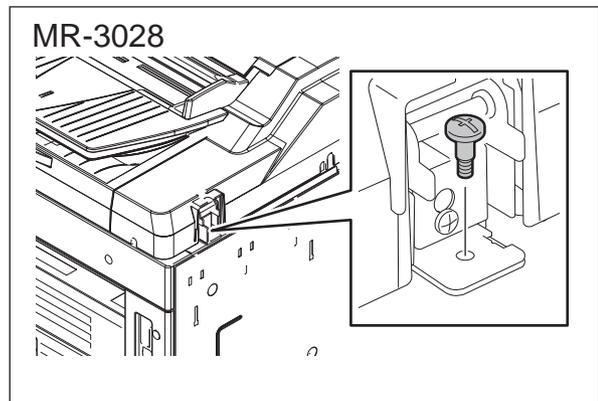
Fig.6-72

(2) Loosen the left-hand hinge screw at the rear side.

Fig.6-73

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
SETTING / ADJUSTMENT
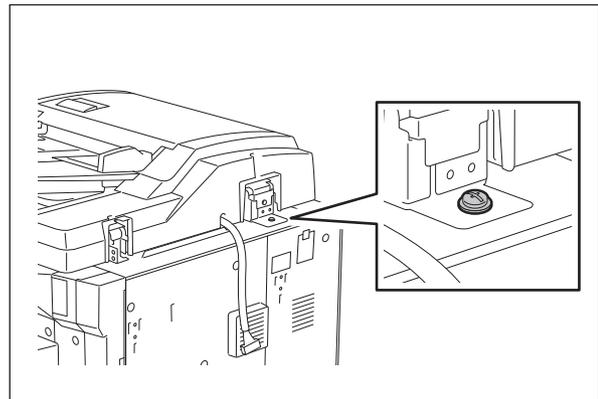
(3) Loosen the hinge screws at the front side.
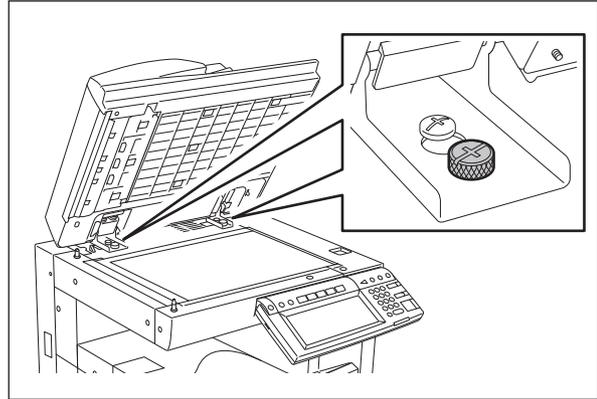
Fig.6-74

(4) Position the pins with the holes on the RADF by moving it so that the pins fit into the holes when the RADF is closed.
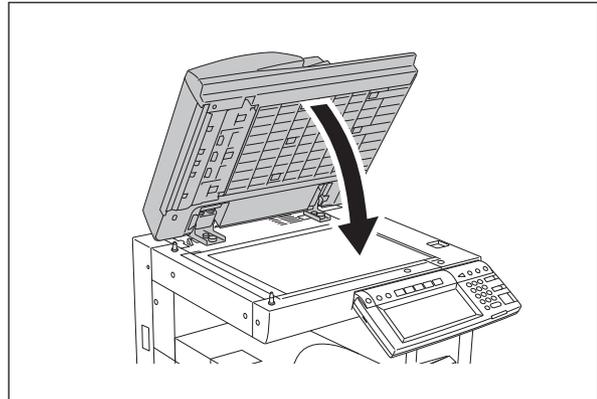
Fig.6-75

(5) Tighten the left-hand hinge screw at the rear side.
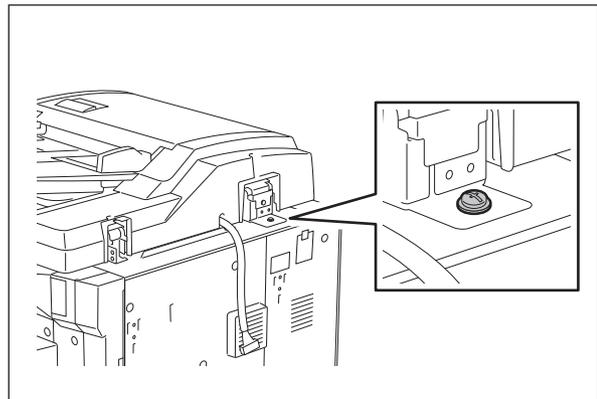
Fig.6-76

(6) Loosen the hole position adjustment screws on the right hand side. (MR-3021/3022)

Fig.6-77

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
SETTING / ADJUSTMENT

6 - 72
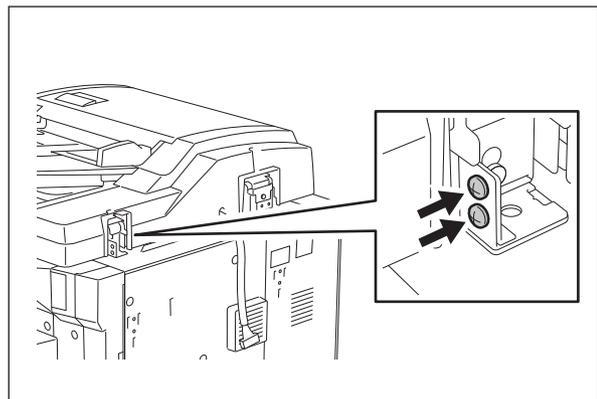
(7) Match the screw hole positions.

MR-3021/3022

Fig.6-78

MR-3028

Fig.6-79

6

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
SETTING / ADJUSTMENT
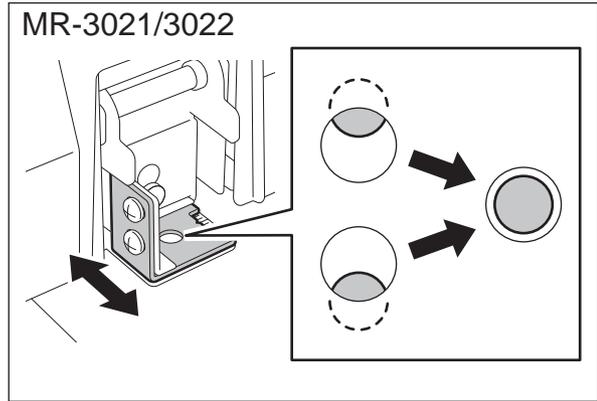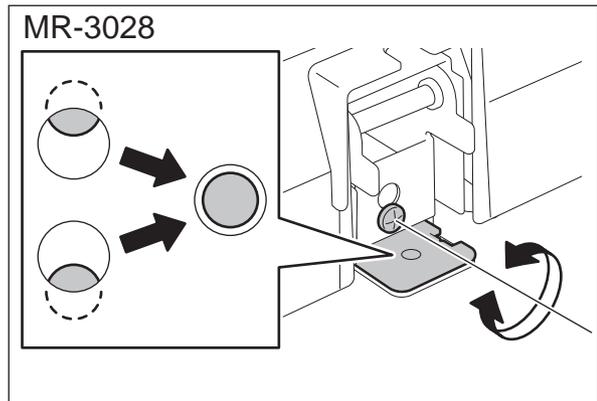
(8) Install the right-hand hinge screw at the rear side.

MR-3021/3022

Fig.6-80

MR-3028
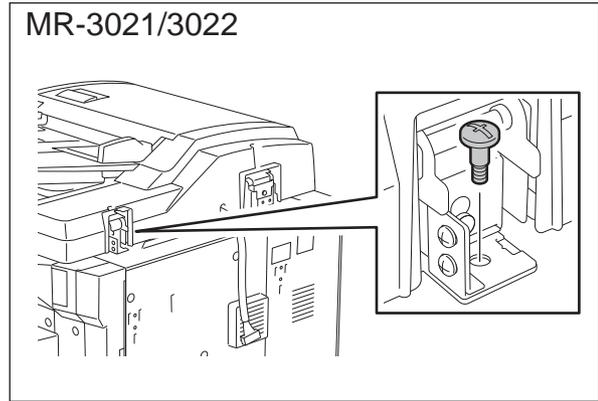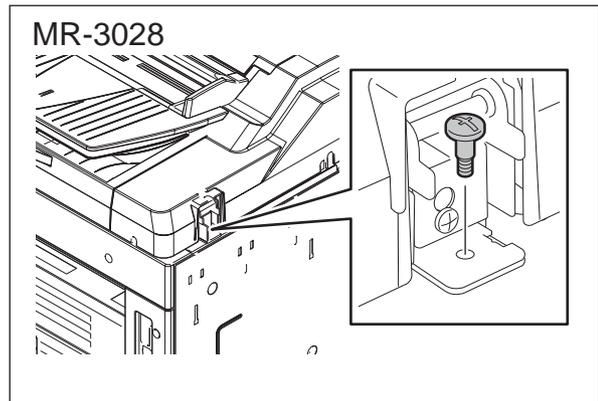
Fig.6-81

(9) Loosen the hinge screws at the front side.
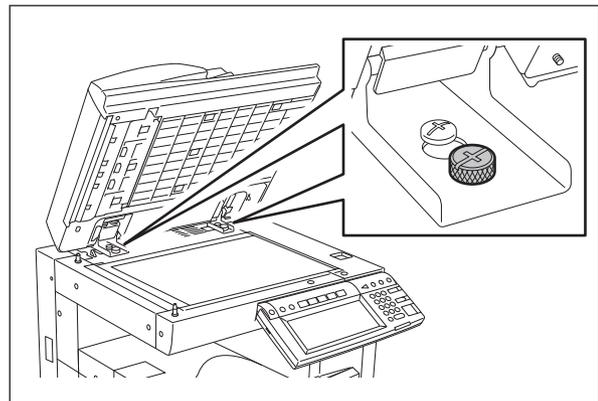
Fig.6-82

(10) Place the platen sheet on the original glass and align it to the top left corner.
Close the RADF gently and open it to check if the platen sheet is attached properly.
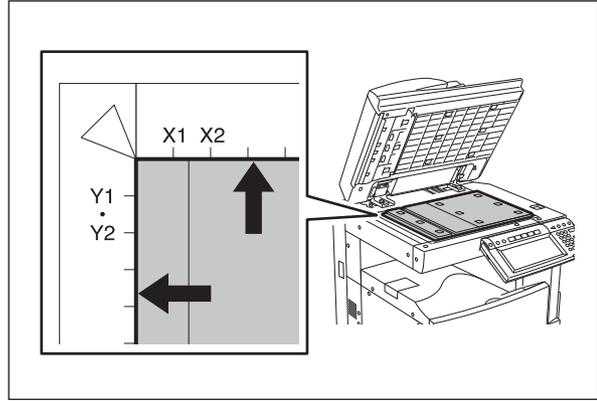
Fig.6-83

6.13.2 Adjustment of RADF height

Notes:
Check if the image adjustment for the equipment is performed properly before this adjustment of the RADF.

[A] Checking

(1) Close the RADF.
(2) Light the exposure lamp.
  • Turn the power ON while pressing [0] and [3] simultaneously.
  • Key in [267] and then press the [START] button. The exposure lamp is turned ON for a given length of time.
(3) Visually check the gap between platen guide holder "A" and upper surface of the original glass "B" from the left hand side of the equipment. If the value is not within the tolerance, perform the adjustment according to the following procedure.

[Tolerance of the gap]
Rear side: 0 - 0.5 mm
Front side: 0 mm
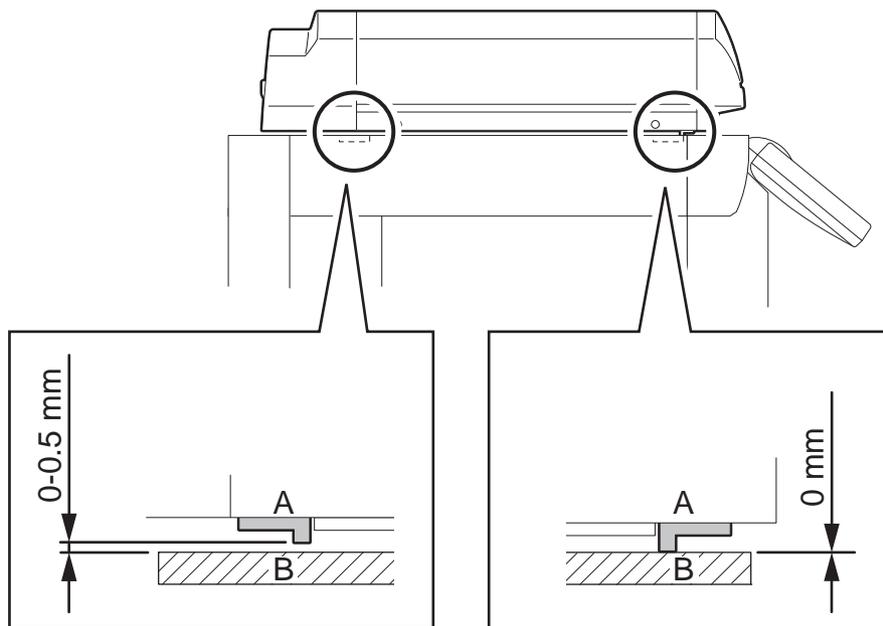
Fig.6-84

[B] Adjustment

(1) Close the RADF.
(2) Adjust it by turning the adjustment screws on the hinges.
   • Adjust the height on the rear side by means of the screw on the hinge on the feed side of the RADF.

   Turn it clockwise .... Heightened
   Turn it counterclockwise .... Lowered
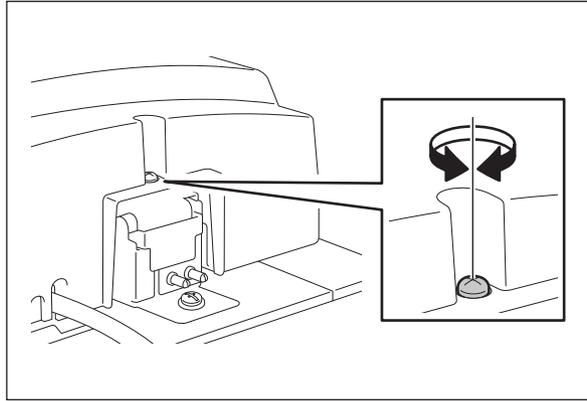
Fig.6-85

• Adjust the gap on the rear side by means of the screw on the hinge on the feed side of the RADF.

Turn it clockwise .... Lowered
Turn it counterclockwise .... Heightened

MR-3021/3022

Fig.6-86

MR-3028

Fig.6-87

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
SETTING / ADJUSTMENT
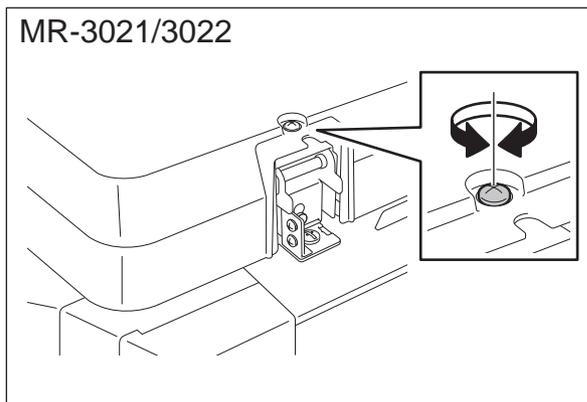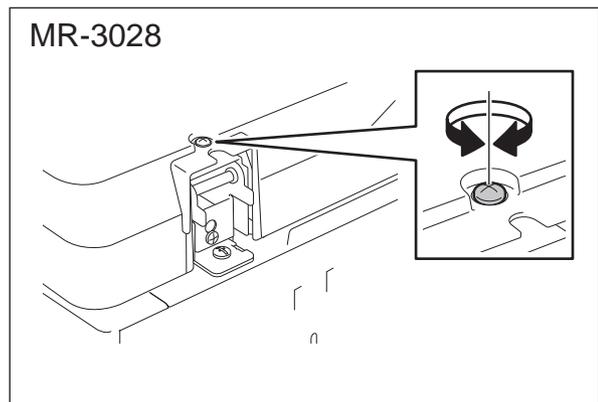
6.13.3 Adjustment of skew

Notes:

Check if the image adjustment for the equipment is performed properly before this adjustment of the RADF. Also, the RADF position and height shall be adjusted properly.

[A] Checking

Check the image using the chart (original) with vertical and horizontal lines in the following procedure.
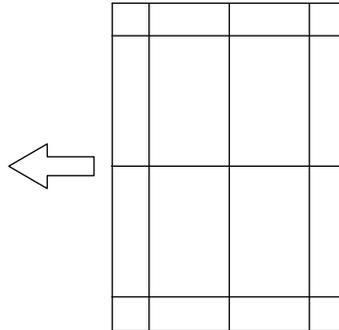
Fig.6-88 Chart (Original)

Simplex copying:

(1) Place the chart provided as an original with its face up on the original tray of the RADF, select [1 Sided -> 1 Sided] and press the [START] button.
(2) Superimpose the chart on the copy and check the inclination of the copy image.

Duplex copying:

(1) Place the chart provided as an original with its face down on the original tray of the RADF, select [2 Sided -> 2 Sided] and press the [START] button.
(2) Superimpose the chart on the copy and check the inclination of the copy image.

[B] Adjustment

Simplex copying:

(1) Shift the aligning plate with the scale as the guide shown in the figure below to adjust the skew.
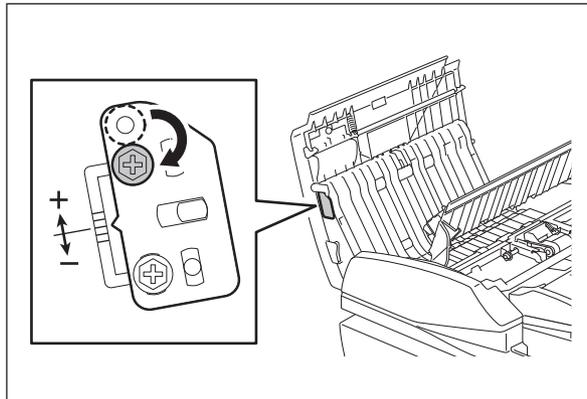
Fig.6-89

(2) If the image skew is "C" as shown in the figure below, shift the aligning plate in the direction of "+", and if "D", shift it to "-".
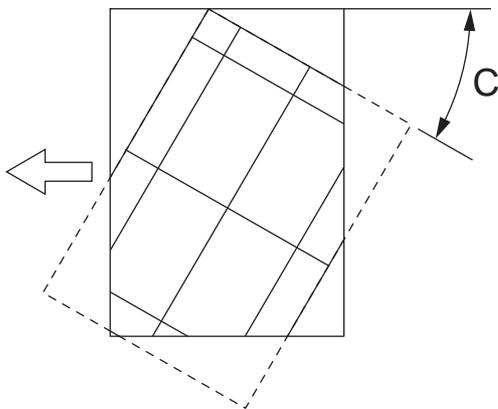
Fig.6-90
Shift the aligning plate in the direction of "+".
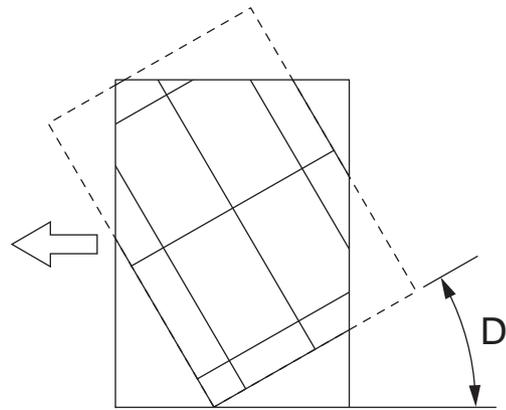
Fig.6-91
Shift the aligning plate in the direction of "-".

<u>Duplex copying:</u>

(1) Shift the aligning plate with the scale as the guide shown in the figure below to adjust the skew.
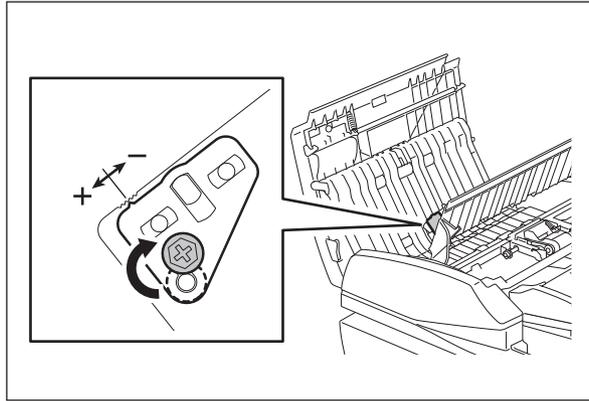
Fig.6-92

(2) If the image skew is "C" as shown in the figure below, shift the aligning plate in the direction of "-", and if "D", shift it to "+".
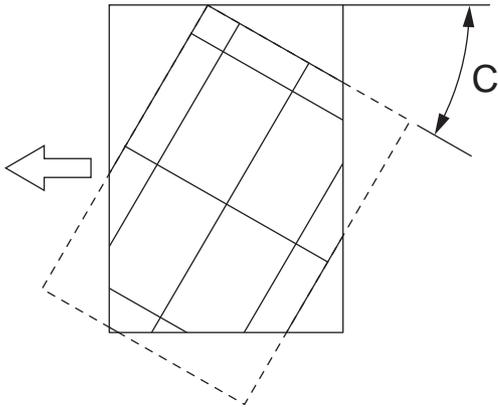
Fig.6-93
Shift the aligning plate in the direction of "-".
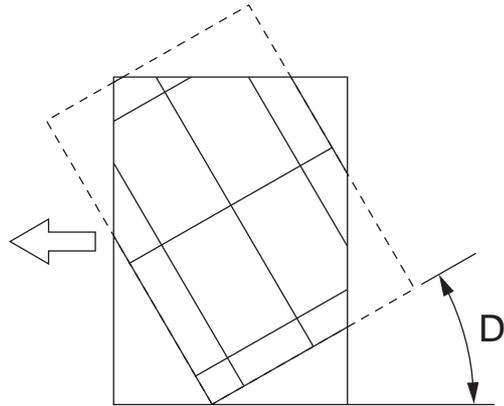
Fig.6-94
Shift the aligning plate in the direction of "+".

6.13.4 Adjustment of the leading edge position

Notes:

Check if the image adjustment for the equipment is performed properly before this adjustment of the RADF. Also, the RADF position and height shall be adjusted properly.

[A] Checking

Check the image using the chart (original) with vertical and horizontal lines in the following procedure.

Simplex copying:

(1) Place the chart provided as an original with its face up on the original tray of the RADF, select [1 Sided -> 1 Sided] and press the [START] button.
(2) Superimpose the chart on the copy and check the leading edge E of the chart and F of the copy.

Duplex copying:

(1) Place the chart provided as an original with its face down on the original tray of the RADF, select [2 Sided -> 2 Sided] and press the [START] button.
(2) Superimpose the chart on the copy and check the leading edge E of the chart and F of the copy.
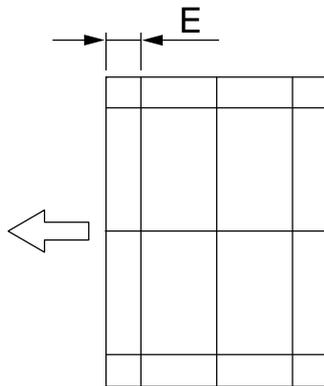
Fig.6-95 Chart (Original)
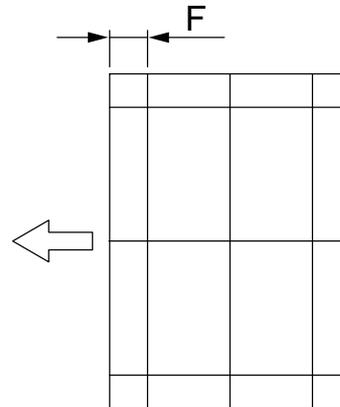
Fig.6-96 Copy

[B]   Adjustment

Simplex copying:

(1)   Turn the power ON while pressing [0] and [5] simultaneously, key in [3044] and then press the [START] button.
(2)   Enter the value.
- If the leading edge (F) margin of the copy image is larger than the (E) margin of the chart, enter a value smaller than the current one.

Notes:
Changing one value shifts the copy image by 0.2 mm.

- If the leading edge (F) margin of the copy image is smaller than the (E) margin of the chart, enter a value larger than the current one.

Notes:
Changing one value shifts the copy image by 0.2 mm.

(3)   Press the [OK] button.

Duplex copying:

(1)   Turn the power ON while pressing [0] and [5] simultaneously, key in [3045] and then press the [START] button.
(2)   Enter the value.
- If the leading edge (F) margin of the copy image is larger than the (E) margin of the chart, enter a value smaller than the current one.

Notes:
Changing one value shifts the copy image by 0.2 mm.

- If the leading edge (F) margin of the copy image is smaller than the (E) margin of the chart, enter a value larger than the current one.

Notes:
Changing one value shifts the copy image by 0.2 mm.

(3)   Press the [OK] button.

6.13.5 Adjustment of horizontal position

Notes:

Check if the image adjustment for the equipment is performed properly before this adjustment of the RADF. Also, the RADF position and height shall be adjusted properly.

[A] Checking

Check the image using the chart (original) with a center line in the following procedure.

(1) Place the chart provided as an original with its face up on the original tray of the RADF.
(2) Press the [START] button.
(3) Fold the copy in half and check if the center line is misaligned.

[B] Adjustment

(1) Turn the power ON while pressing [0] and [5] simultaneously.
(2) Key in [3043] and then press the [START] button.
  • If the center line of the copy image is shifted to the front side of the equipment, enter a value larger than the current one.

Notes:

Changing one value shifts the copy image by 0.042 mm.
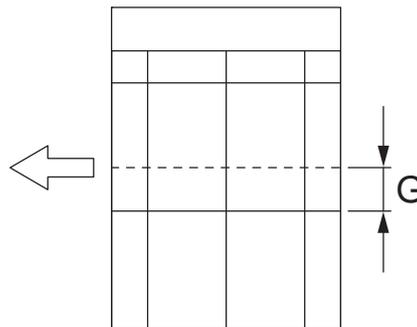
Fig.6-97

  • If the center line of the copy image is shifted to the rear side of the equipment, enter a value smaller than the current one.

Notes:

Changing one value shifts the copy image by 0.042 mm.
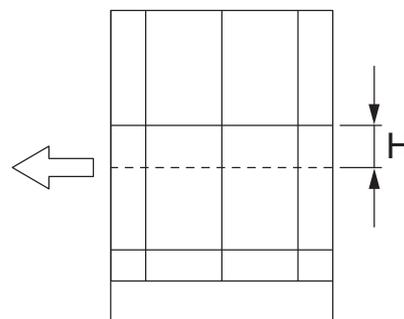
Fig.6-98

(3) Press the [OK] button.

6.13.6 Adjustment of copy ratio

Notes:

Check if the image adjustment for the equipment is performed properly before this adjustment of the RADF. Also, the RADF position and height shall be adjusted properly.

[A] Checking

Check the image using the chart (original) with vertical and horizontal lines in the following procedure.

(1) Place the chart provided as an original with its face up on the original tray of the RADF.
(2) Press the [START] button.
(3) Superimpose the chart on the copy and check the image dimension "I".

[B] Adjustment

(1) Turn the power ON while pressing [0] and [5] simultaneously.
(2) Key in [3042] and then press the [START] button.
   • If the copy image dimension "I" is larger than the chart dimension, enter a value smaller than the current one.
   • If the copy image dimension "I" is smaller than the chart dimension, enter a value larger than the current one.
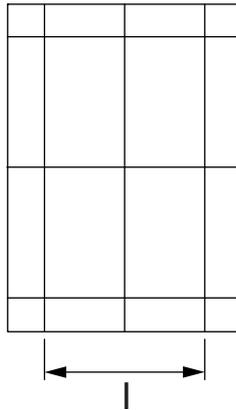
Fig.6-99

(3) Press the [OK] button.

6.13.7 Adjustment of RADF opening/closing sensor (MR-3021/3022 only)

Adjust the bracket position so that the sensor is turned ON when the height "A" becomes 100 mm or less (within the empty weight falling limit).

Fig.6-100

Fig.6-101

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
SETTING / ADJUSTMENT
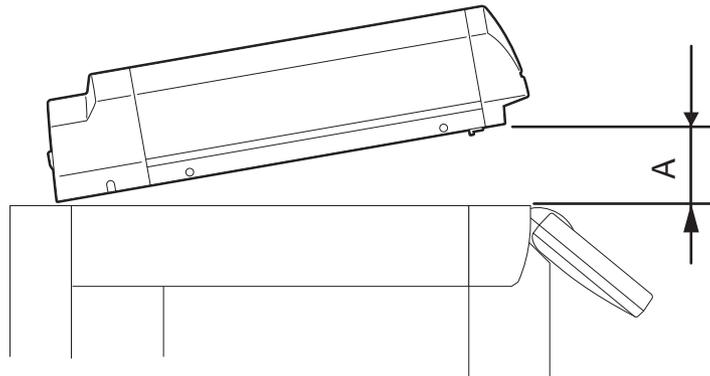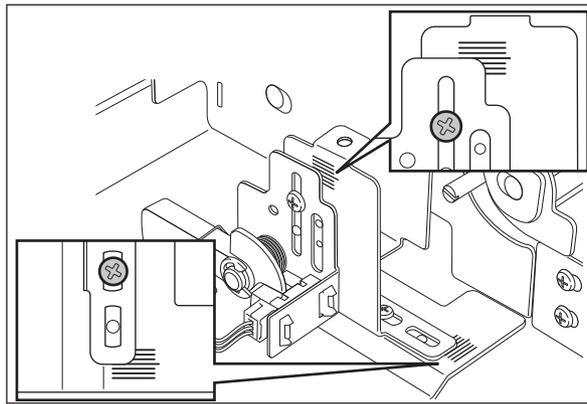
6.14　Adjustment of the Finisher (MJ-1032)

Notes:

Before performing each adjustment, make sure that all covers (incl. those of the finisher and equipment) are closed. Otherwise, no power is supplied to the Finisher and the adjustment may not be performed properly.

6.14.1　Alignment position adjustment

[A]　Alignment position adjustment (front)

This adjustment is performed in the Adjustment Mode (05-4822-0) of the equipment.

Adjustment scale	0.2mm	
Adjustable range	-3.0 mm to 3.0 mm	
Adjustment direction	Increasing the value	The alignment plate moves to the center.
	Decreasing the value	The alignment plate moves to the edge of paper.

[B]　Alignment position adjustment (rear)

This adjustment is performed in the Adjustment Mode (05-4822-1) of the equipment.

Adjustment scale	0.2mm	
Adjustable range	-3.0 mm to 3.0 mm	
Adjustment direction	Increasing the value	The alignment plate moves to the center.
	Decreasing the value	The alignment plate moves to the edge of paper.

6.14.2　Stapling position adjustment

[A]　Stapling position adjustment (rear 1-point)

This adjustment is performed in the Adjustment Mode (05-4823-0) of the equipment.

Adjustment scale	0.2mm	
Adjustable range	-5.0 mm to 5.0 mm	
Adjustment direction	Increasing the value	The distance between the stapling position and the edge of the paper becomes longer
	Decreasing the value	The distance between the stapling position and the edge of the paper becomes shorter.

[B]　Stapling position adjustment (rear 1-point / "R" series size)

This adjustment is performed in the Adjustment Mode (05-4823-1) of the equipment.

Adjustment scale	0.2mm	
Adjustable range	-1.0 mm to 5.0 mm	
Adjustment direction	Increasing the value	The distance between the stapling position and the edge of the paper becomes longer
	Decreasing the value	The distance between the stapling position and the edge of the paper becomes shorter.

[C] Stapling position adjustment (front 1-point)

This adjustment is performed in the Adjustment Mode (05-4823-2)of the equipment.

Adjustment scale	0.2mm	
Adjustable range	-5.0 mm to 5.0 mm	
Adjustment direction	Increasing the value	The distance between the stapling position and the edge of the paper becomes shorter.
	Decreasing the value	The distance between the stapling position and the edge of the paper becomes longer.

[D] Stapling position adjustment (front 1-point / "R" series size)

This adjustment is performed in the Adjustment Mode (05-4823-3) of the equipment.

Adjustment scale	0.2mm	
Adjustable range	-5.0 mm to 1.0 mm	
Adjustment direction	Increasing the value	The distance between the stapling position and the edge of the paper becomes shorter.
	Decreasing the value	The distance between the stapling position and the edge of the paper becomes longer.

[E] Stapling position adjustment (center 2-point)

This adjustment is performed in the Adjustment Mode (05-4823-4) of the equipment.

Adjustment scale	0.2mm	
Adjustable range	-1.0 mm to 1.0 mm	
Adjustment direction	Increasing the value	The stapling position moves farther to the front side from the center position.
	Decreasing the value	The stapling position moves farther to the rear side from the center position.

[F] Stapling position adjustment (2-point pitch)

This adjustment is performed in the Adjustment Mode (05-4823-5) of the equipment.

Adjustment scale	0.2mm	
Adjustable range	-3.0 mm to 2.4 mm	
Adjustment direction	Increasing the value	The pitch between the stapling positions becomes wider.
	Decreasing the value	The pitch between the stapling positions becomes narrower.

6.14.3   Punching position center adjustment

This adjustment is performed in the Adjustment Mode (05-4824) of the equipment.

Adjustment scale	0.2mm	
Adjustable range	-3.0 mm to 3.0 mm	
Adjustment direction	Increasing the value	The punching position moves farther to the front side from the center position.
	Decreasing the value	The punching position moves farther to the rear side from the center position.

6.14.4 Punch hole position adjustment

This adjustment is performed in the Adjustment Mode (05-4825) of the equipment.

Adjustment scale	0.2mm	
Adjustable range	-4.0 mm to 1.0 mm	
Adjustment direction	Increasing the value	The distance between the punch hole and the trailing edge of the paper becomes shorter.
	Decreasing the value	The distance between the punch hole and the trailing edge of the paper becomes longer.

6.15 Adjustment of the Finisher (MJ-1033)

Notes:

Before performing each adjustment, make sure that all covers (incl. those of the finisher and equipment) are closed. Otherwise, no power is supplied to the Finisher and the adjustment may not be performed properly.

6.15.1 Saddle stitching position adjustment

[A] Saddle stitching position adjustment (LD/A3)

This adjustment is performed in the Adjustment Mode (05-4820-0) of the equipment.

Adjustment scale	0.2mm	
Adjustable range	-3.4 mm to 3.4 mm	
Adjustment direction	Increasing the value	The stitching position moves downward against the center position.
	Decreasing the value	The stitching position moves upward against the center position.

[B] Saddle stitching position adjustment (LG/B4, 8K, A4-R/LT-R, 16K-R)

This adjustment is performed in the Adjustment Mode (05-4820-1) of the equipment.

Adjustment scale	0.2mm	
Adjustable range	-3.4 mm to 3.4 mm	
Adjustment direction	Increasing the value	The stitching position moves downward against the center position.
	Decreasing the value	The stitching position moves upward against the center position.

6.15.2 Saddle stitch folding position adjustment

[A] Saddle stitch folding position adjustment (LD/A3)

This adjustment is performed in the Adjustment Mode (05-4821-0) of the equipment.

Adjustment scale	0.2mm	
Adjustable range	-3.4 mm to 3.4 mm	
Adjustment direction	Increasing the value	The folding position moves downward against the center position.
	Decreasing the value	The folding position moves upward against the center position.

[B] Saddle stitch folding position adjustment (LG/B4, 8K, A4-R/LT-R, 16K-R)

This adjustment is performed in the Adjustment Mode (05-4821-1) of the equipment.

Adjustment scale	0.2mm	
Adjustable range	-3.4 mm to 3.4 mm	
Adjustment direction	Increasing the value	The folding position moves downward against the center position.
	Decreasing the value	The folding position moves upward against the center position.

6.15.3 Alignment position adjustment

[A] Alignment position adjustment (front)
This adjustment is performed in the Adjustment Mode (05-4822-0) of the equipment.

Adjustment scale	0.2mm	
Adjustable range	-3.0 mm to 3.0 mm	
Adjustment direction	Increasing the value	The alignment plate moves to the center.
	Decreasing the value	The alignment plate moves to the edge of paper.

[B] Alignment position adjustment (rear)
This adjustment is performed in the Adjustment Mode (05-4822-1) of the equipment.

Adjustment scale	0.2mm	
Adjustable range	-3.0 mm to 3.0 mm	
Adjustment direction	Increasing the value	The alignment plate moves to the center.
	Decreasing the value	The alignment plate moves to the edge of paper.

6.15.4 Stapling position adjustment

[A] Stapling position adjustment (rear 1-point)
This adjustment is performed in the Adjustment Mode (05-4823-0) of the equipment.

Adjustment scale	0.2mm	
Adjustable range	-5.0 mm to 5.0 mm	
Adjustment direction	Increasing the value	The distance between the stapling position and the edge of the paper becomes longer
	Decreasing the value	The distance between the stapling position and the edge of the paper becomes shorter.

[B] Stapling position adjustment (rear 1-point / "R" series size)
This adjustment is performed in the Adjustment Mode (05-4823-1) of the equipment.

Adjustment scale	0.2mm	
Adjustable range	-1.0 mm to 5.0 mm	
Adjustment direction	Increasing the value	The distance between the stapling position and the edge of the paper becomes longer
	Decreasing the value	The distance between the stapling position and the edge of the paper becomes shorter.

[C] Stapling position adjustment (front 1-point)
This adjustment is performed in the Adjustment Mode (05-4823-2)of the equipment.

Adjustment scale	0.2mm	
Adjustable range	-5.0 mm to 5.0 mm	
Adjustment direction	Increasing the value	The distance between the stapling position and the edge of the paper becomes shorter.
	Decreasing the value	The distance between the stapling position and the edge of the paper becomes longer.

[D] Stapling position adjustment (front 1-point / "R" series size)

This adjustment is performed in the Adjustment Mode (05-4823-3) of the equipment.

Adjustment scale	0.2mm	
Adjustable range	-5.0 mm to 1.0 mm	
Adjustment direction	Increasing the value	The distance between the stapling position and the edge of the paper becomes shorter.
	Decreasing the value	The distance between the stapling position and the edge of the paper becomes longer.

[E] Stapling position adjustment (center 2-point)

This adjustment is performed in the Adjustment Mode (05-4823-4) of the equipment.

Adjustment scale	0.2mm	
Adjustable range	-1.0 mm to 1.0 mm	
Adjustment direction	Increasing the value	The stapling position moves farther to the front side from the center position.
	Decreasing the value	The stapling position moves farther to the rear side from the center position.

[F] Stapling position adjustment (2-point pitch)

This adjustment is performed in the Adjustment Mode (05-4823-5) of the equipment.

Adjustment scale	0.2mm	
Adjustable range	-3.0 mm to 2.4 mm	
Adjustment direction	Increasing the value	The pitch between the stapling positions becomes wider.
	Decreasing the value	The pitch between the stapling positions becomes narrower.

6.15.5   Punching position center adjustment

This adjustment is performed in the Adjustment Mode (05-4824) of the equipment.

Adjustment scale	0.2mm	
Adjustable range	-3.0 mm to 3.0 mm	
Adjustment direction	Increasing the value	The punching position moves farther to the front side from the center position.
	Decreasing the value	The punching position moves farther to the rear side from the center position.

6.15.6   Punch hole position adjustment

This adjustment is performed in the Adjustment Mode (05-4825) of the equipment.

Adjustment scale	0.2mm	
Adjustable range	-4.0 mm to 1.0 mm	
Adjustment direction	Increasing the value	The distance between the punch hole and the trailing edge of the paper becomes shorter.
	Decreasing the value	The distance between the punch hole and the trailing edge of the paper becomes longer.

6.15.7 Saddle stitch alignment position adjustment

This adjustment is performed in the Adjustment Mode (05-4826) of the equipment.

Adjustment scale	0.2mm	
Adjustable range	-3.0 mm to 3.0 mm	
Adjustment direction	Increasing the value	The alignment plate moves to the center.
	Decreasing the value	The alignment plate moves to the edge of paper.

6.15.8 Gripper arm exiting position adjustment

This adjustment is performed in the Adjustment Mode (05-4827) of the equipment.

Adjustment scale	0.2mm	
Adjustable range	-3.0 mm to 3.0 mm	
Adjustment direction	Increasing the value	The gripper arm exiting position moves farther to the front side.
	Decreasing the value	The gripper arm exiting position moves farther to the rear side.

6.15.9 Height/skew adjustment

If the height or the skew angle of the Finisher must be adjusted against those of the equipment, follow the procedure below.

(1) Open the front cover [1].
(2) Remove the screw [2] and the wrench [3].
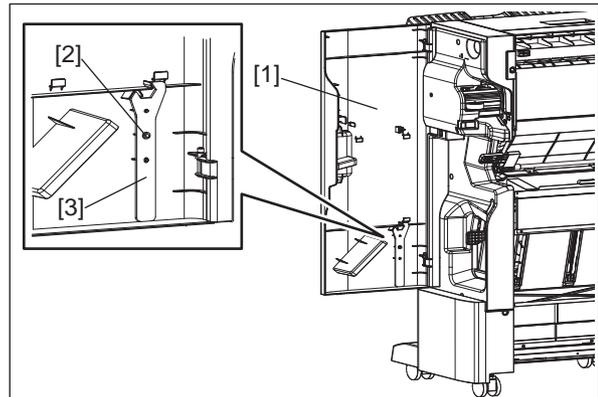
Fig.6-102

(3) Take off the front lower cover (for adjusting the caster of the equipment side).
    (MJ-1033 Service Manual
    P.4-9 "[K] Front lower cover")

(4) Take off the lower cover (for adjusting the caster of the movable tray side).
    (MJ-1033 Service Manual
    P.4-10 "[L] Lower cover")

(5) Loosen the locking nut [4] of the caster with the wrench by turning it clockwise.
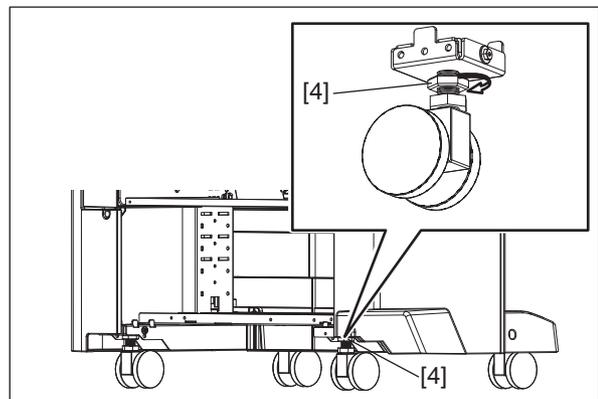
Fig.6-103
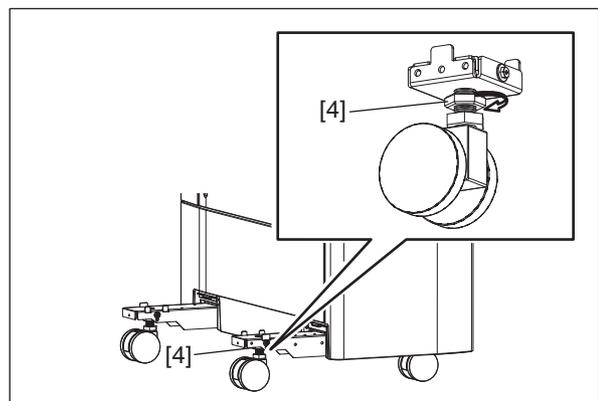
Fig.6-104

(6) Turn the height adjustment nut [5] of the caster with the wrench to adjust the height of the Finisher.

Direction to turn the height adjustment nut	Height of the Finisher
Clockwise	Becomes higher.
Counterclockwise	Becomes lower.

(7) The height increases or decreases 1.75 mm for one turn of the height adjustment nut.
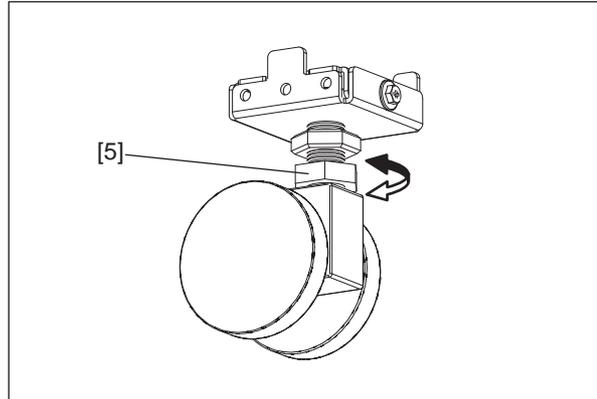
Fig.6-105

(8) Tighten the locking nut [4] by turning it counterclockwise.
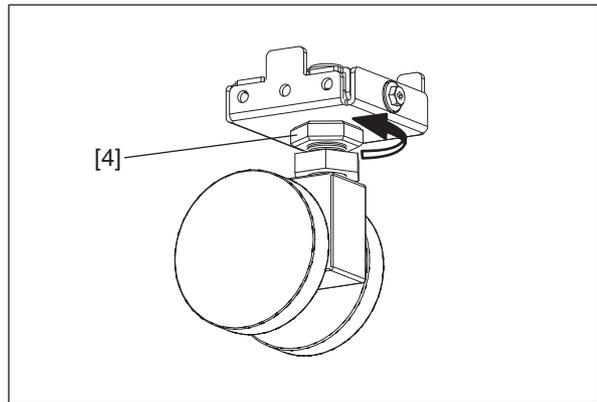
Fig.6-106

(9) When the adjustment is completed, reinstall the removed covers and wrench.

6.16 Adjustment of the Finisher (MJ-1101/1107)

Notes:

Before performing each adjustment, make sure that all covers (incl. those of the finisher and host machine) are closed. Otherwise, the power is not supplied to the finisher and the adjustment may not be performed properly.

6.16.1 Adjusting the alignment position

Perform this adjustment after replacing the Finisher control board or when the alignment position must be changed for some reason.

(1) Turn OFF the power of the equipment.

(2) Remove 1 screw and take off the board access cover.

(3) Set the SW1 on the Finisher control board as shown in the figures below.
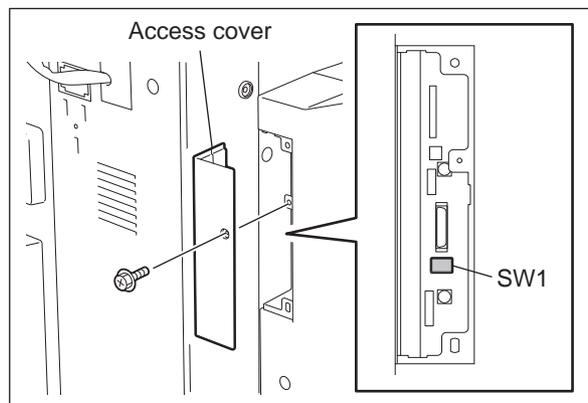
Fig.6-107
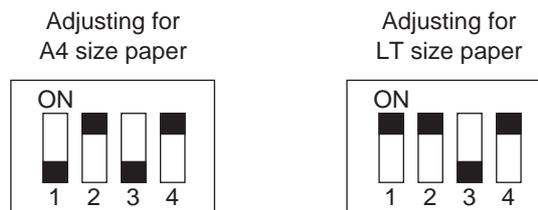
Fig.6-108

(4) Turn ON the power of the equipment while [0] button and [8] button are pressed simultaneously.
The alignment plate moves to the A4 or LT size position and stops.
(It stops at the position of -5 steps from the center value of the adjustment range.)

(5)	Press the [Button1] to adjust the alignment position.
Every time the [Button1] is pressed, the alignment plate shifts 1 step (0.419 mm/step) toward the "+ "direction. (The gap between the alignment plates becomes narrower.)
Adjustment range is from -5 to +5 steps.
If the [Button1] is pressed when the alignment position is at the "+5 step", the plate will return to the home position and then moves to the position of "-5 step".

Fig.6-109

(6)	When the adjustment is completed, press the [Button2] on the finisher control panel to store the adjustment value in memory.
When the value is stored normally, the [LED1] on the control panel will blink for a number of times that corresponds to the adjustment value set for the equipment.
See the following table for the number of times the [LED1] blinks and its corresponding adjustment value.

Number of Blinking	Adjustment Value
1	-5
2	-4
3	-3
4	-2
5	-1
6	0
7	+1
8	+2
9	+3
10	+4
11	+5

(7)	Turn OFF the power of the equipment.

(8)	Turn OFF all bits of the SW1 on the Finisher control board.

(9)	Install the board access cover.

6.16.2 Adjusting the stapling position

Perform this adjustment after replacing the Finisher control board or when the stapling position must be changed for some reason.

(1) Turn OFF the power of the equipment.

(2) Remove 1 screw and take off the board access cover.

(3) Set the SW1 on the Finisher control board as shown in the figures below.
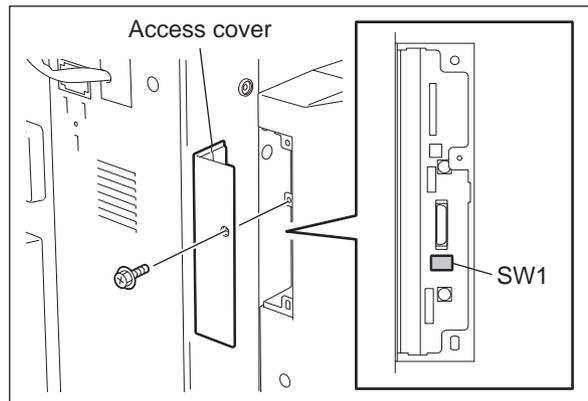
Fig.6-110

When adjusting the trailing edge side for A4 size paper
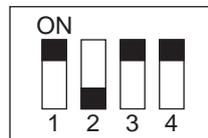
When adjusting the trailing edge side for LT size paper
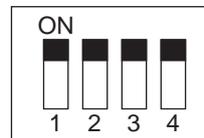
When adjusting the leading edge side for A4 size paper
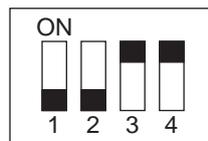
When adjusting the leading edge side for LT size paper

Fig.6-111

(4) Turn ON the power of the equipment while [0] button and [8] button are pressed simultaneously. The alignment plate moves to the rear or front side stapling position and stops. (It stops at the position of -20 steps from the center value of the adjustment range.)

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(5) Press [Button 1] to adjust the stapling position.
Every time [Button 1] is pressed, the alignment plate shifts 4 steps (0.45 mm) toward the "+" direction. (It moves toward the rear side.)
Adjustment range is from -20 to +20 steps. If [Button 1] is pressed when the alignment position is at the "+20 steps", the plate will return to the home position and then moves to the position of "-20 steps".

Notes:
Stapling for checking the position can be done by pressing [Button 2] with sheets placed on the finishing tray. (stapled on the rear side)
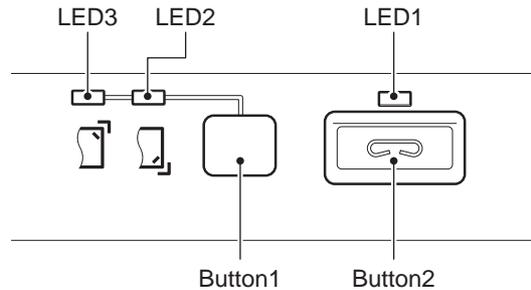
Fig.6-112

(6) When the adjustment is completed, press [Button 2] on the finisher control panel to store the adjustment value in memory without sheets on the finishing tray.
When the value is stored normally, [LED 1] on the control panel will blink for a number of times that corresponds to the adjustment value set for the equipment.
See the following table for the number of times [LED 1] blinks and its corresponding adjustment value.

Number of blinking	Adjustment value
1	-20
2	-16
3	-12
4	-8
5	-4
6	0
7	+4
8	+8
9	+12
10	+16
11	+20

(7) Turn OFF the power of the equipment.

(8) Turn OFF all bits of the SW1 on the Finisher control board.

(9) Install the board access cover.

6.16.3 B4-size recycled paper mode settings

Set this mode if the trailing edge of the paper gets caught by the exit section of the finisher while B4-size recycled paper is used. This mode increases the paper exiting speed when the paper exits to the movable tray in the sort mode, or to the stationary tray in the non-sort mode.

(1) Turn OFF the power of the equipment.

(2) Remove 1 screw and take off the board access cover.

(3) Set the SW1 on the Finisher control board as shown in the figures below.
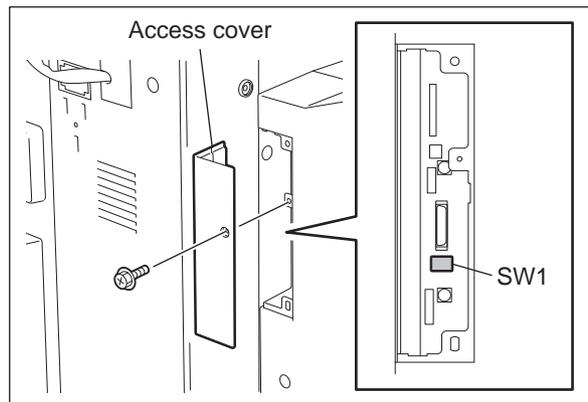
Fig.6-113
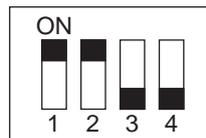
Fig.6-114

(4) Turn ON the power of the equipment while [0] button and [8] button are pressed simultaneously.

(5) Press [Button1] and [Button2] as described in the following table to set the B4-size recycled paper mode. Press [Button1] and [Button2] on the control panel as below to set the B4-size recycled paper mode.

Notes:
Be sure to press [Button1] and [Button2] the correct number of times.
Press [Button1] and [Button2] simultaneously to cancel the operation.

Fig.6-115

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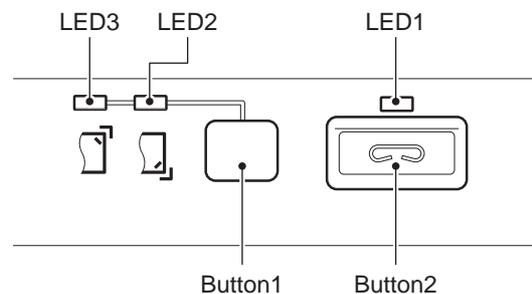
B4-size recycled paper mode

Step	Buttons	Number of pressing	Remarks
1	Button1	1	
2	Button2	1	Confirms the input value
3	Button1	8	
4	Button2	1	Confirms the input value

Notes:
To change settings from the B4-size recycled paper mode to the normal mode, perform steps (1) through (4), and then press [Button1] and [Button2] on the control panel as shown below to set the normal mode.

Normal mode

Step	Buttons	Number of pressing	Remarks
1	Button1	1	
2	Button2	1	Confirms the input value
3	Button1	6	
4	Button2	1	Confirms the input value

(6) When the settings are stored normally, [LED1] on the control panel is lit. [LED1] blinks, if an error occurs. In this case, turn the power OFF and make the settings again from step (4).

(7) Turn OFF the power of the equipment.

(8) Turn OFF all bits of the SW1 on the Finisher control board.

(9) Install the board access cover.

6.16.4 Adjusting Paper Exit Speed

[1] Adjusting procedure

[1-1]   DIP switch settings
(1)   Turn OFF the power of the equipment.

(2)   Remove 1 screw and take off the board access cover [1].

(3)   Set the SW1 on the Finisher control board as shown in the figures below.
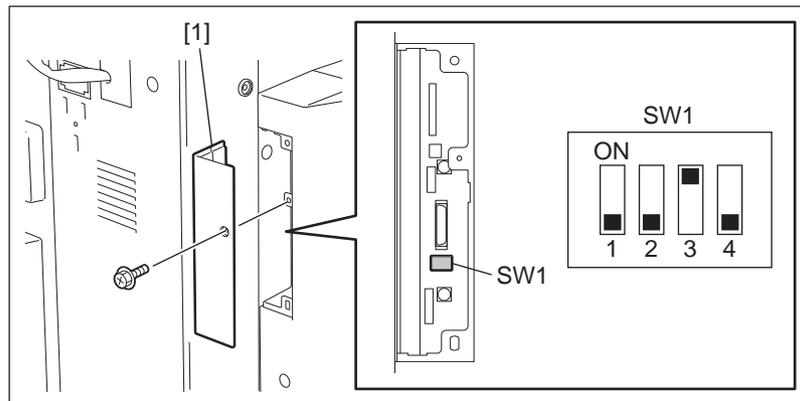
Fig.6-116

(4)   Turn ON the power of the equipment while [0] button and [8] button are pressed simultaneously.

[1-2] Mode settings / connection model settings / paper type settings

(1) Press [Button1] 11 times and then press [Button2] once.
Check the setting list and press [Button1] as many times as noted for Setting code whose operation you want to check and then press [Button2] once.
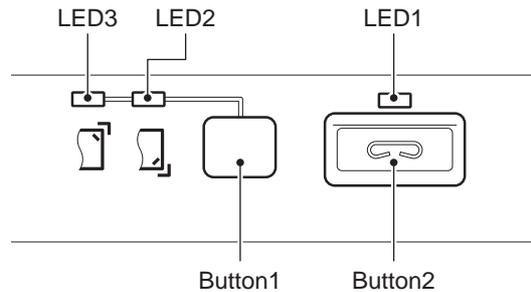
Fig.6-117

<Setting list>

Model name	Setting code
Normal paper mode	1
Recycled paper mode	3

*Example of operation
If you want to select the normal paper mode, the number of Setting code is "1".
Therefore press [Button1] 11 times and then press [Button2] once. Then press [Button1] once and then press [Button2] once. This selects the normal paper mode.

(2) Press [Button1] and [Button2] simultaneously.

(3) Press [Button1] 11 times and then press [Button2] once.

(4) Press [Button1] 8 times and then press [Button2] once.

(5) Press [Button1] and [Button2] simultaneously.

(6) Press [Button1] 11 times and then press [Button2] once.
Check the setting list and press [Button1] as many times as noted for Setting code whose paper type you want to select and then press [Button2] once.

<Setting list>

Paper type	Setting code
Plain paper	4
Thick paper 1	5
Thick paper 2	6
Thick paper 3	7

*Example of operation
If you want to select the plain paper, the number of Setting code is "4".
Therefore press [Button1] 11 times and the press [Button2] once. Then press [Button1] 4 times and then press [Button2] once. This selects plain paper.

(7) Press [Button1] and [Button2] simultaneously.

[1-3] Paper size settings

(1) Check the setting list and press [Button1] as many times as noted for Setting code No.1 whose paper size you want to select, and then press [Button2] once. Then check the setting list and press [Button1] as many times as noted for Setting code No.2 whose paper size you want to select, then press [Button2] once.

<Setting list>

Paper size	Setting code No. 1	Setting code No. 2
Others	12	1
A3	12	2
A4	12	3
A4-R	12	4
A5	12	5
A5-R	12	6
A6-R	12	7
B4	12	8
B5	12	9
B5-R	13	1
FOLIO	13	2
LD	13	3
LG	13	4
LT	13	5
LT-R	13	6
ST	13	7
ST-R	13	8
COMP	13	9
13"LG	14	1
8.5"SG	14	2
8K	14	3
16K	14	4
16K-R	14	5
A3 wide	14	7

(2) Press [Button1] and [Button2] simultaneously.

[1-4]   Paper exit speed settings

(1)   Check the number of LED blinking times.

The default settings of the number of LED blinking times in the mode setting, media type and paper size, which are set in [1-2] and [1-3], are shown in the table below.

\<Normal paper mode\>

	Plain paper	Thick paper 1	Thick paper 2	Thick paper 3
Other	2	2	2	2
A3	2	2	2	2
A4	4	4	4	4
A4-R	3	3	3	3
A5	2	2	2	2
A5-R	4	4	4	4
A6-R	2	2	2	2
B4	3	9	9	9
B5	3	3	3	3
B5-R	2	2	2	2
FOLIO	2	2	2	2
LD	5	5	5	5
LG	9	9	9	9
LT	6	6	6	6
LT-R	3	3	3	3
ST	2	2	2	2
ST-R	3	3	3	3
COMP	2	2	2	2
13"LG	2	2	2	2
8.5"SG	2	2	2	2
8K	2	2	2	2
16K	2	2	2	2
16K-R	2	2	2	2
A3 wide	2	2	2	2

<Recycled paper mode>

	Plain paper	Thick paper 1	Thick paper 2	Thick paper 3
Others	2	2	2	2
A3	2	2	2	2
A4	4	4	4	4
A4-R	3	3	3	3
A5	2	2	2	2
A5-R	4	4	4	4
A6-R	2	2	2	2
B4	3	3	3	3
B5	3	3	3	3
B5-R	2	2	2	2
FOLIO	2	2	2	2
LD	5	5	5	5
LG	9	9	9	9
LT	6	6	6	6
LT-R	3	3	3	3
ST	2	2	2	2
ST-R	3	3	3	3
COMP	2	2	2	2
13"LG	2	2	2	2
8.5"SG	2	2	2	2
8K	2	2	2	2
16K	2	2	2	2
16K-R	2	2	2	2
A3 wide	2	2	2	2

*Example
When A3 and plain paper with the recycled paper mode are set in [1-2] and [1-3], the number of LED blinking times is 2.

(2) Press [Button1] for the number of LED blinking times you want to set.

Notes:
The larger the number you set is, the faster the paper exiting speed becomes.
The smaller the number you set is, the slower the paper exiting speed becomes.
After changing the setting, check the number of LED blinking times. Normally, the number of LED blinking times is increased by 1 from the default. If paper trailing edge still remains, increase the number by 2 from the default.

*Example of operation
To change the number of LED blinking times from 2 to 3, press [Button1] three times.

(3) Press [Button2] once.

(4) Press [Button1] and [Button2] simultaneously.

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[1-5] Paper exit tray switching settings

Set the switching timing of the paper exit from the movable tray to the finishing tray.
If the problem is not suppressed through Steps [1-1] to [1-4], perform the following steps.

(1) Turn OFF the power of the equipment.

(2) Remove 1 screw and take off the board access cover [1].

(3) Set the SW1 on the Finisher control board as shown in the figures below.
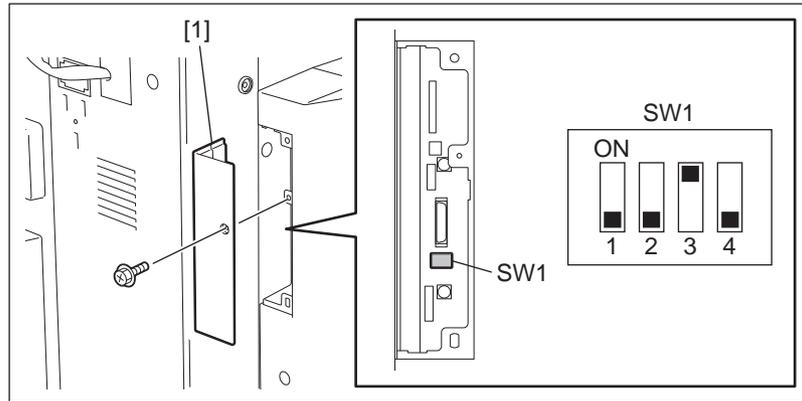
Fig.6-118

(4) Turn ON the power of the equipment while pressing the [0] button and the [8] button simultaneously.

(5) Press [Button1] 11 times and then press [Button2] once.

(6) Press [Button1] 13 times and then press [Button2] once.

(7) Check the following list and press [Button1] as many times as noted for Adjustment value whose switching timing you want to select.

Switching timing	Number of blinking times
Approx. 500 sheets with plain paper	1
0 sheet with plain paper	3

(8) Press [Button2] once.

(9) Press [Button1] and [Button2] simultaneously.

(10) Turn OFF the power of the equipment.

(11) Turn OFF all bits of SW1 on the Finisher control board as shown below.
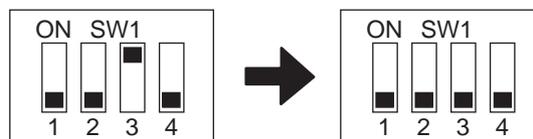
Fig.6-119

(12) Install the board access cover with 1 screw.

[2] Resetting procedure

The setting values which are set in 📖 P. 6-101 "[1] Adjusting procedure"can be reset with the following steps.

(1) Turn OFF the power of the equipment.

(2) Remove 1 screw and take off the board access cover.

(3) Set the SW1 on the Finisher control board as shown in the figures below.
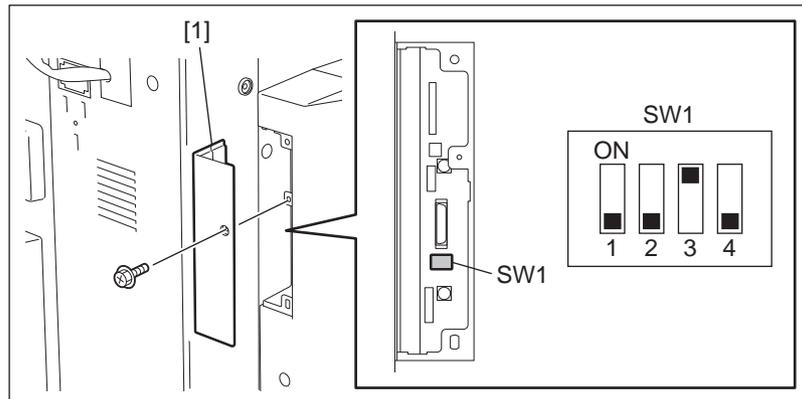
Fig.6-120

(4) Turn ON the power of the equipment while pressing the [0] button and the [8] button simultaneously.

(5) Press [Button1] 11 times, press [Button2] once, press [Button1] 11 times, and then press [Button2] once.

(6) Press [Button1] and [Button2] simultaneously.

(7) Turn OFF the power of the equipment.

(8) Turn OFF all bits of SW1 on the Finisher control board as shown below.
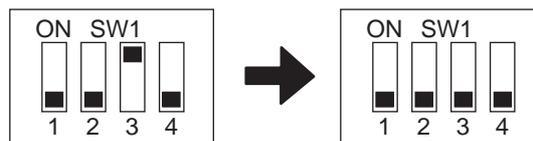
Fig.6-121

(9) Install the board access cover with 1 screw.

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6.17 Adjustment of the Finisher (MJ-1106/1108)

6.17.1 Adjusting the Alignment Position

Perform this adjustment after replacing the Finisher control board or when the alignment position must be changed for some reason.
Adjustment must be performed with 2 types of adjustment sheets for the A4 and LT series.
The adjustment value of A4 will be applied to the operation with A3, A4, A4-R, B4, B5, FOLIO, 8K, 16K.
The adjustment value of LT will be applied to the operation with LD, LG, LT, LT-R, COMP, 13 LG, 8.5" SQ.

(1) Turn OFF the power of the equipment.

(2) Remove 2 screws and take off the board access cover.

(3) Set the SW1 on the Finisher control board as shown in the figures below.

Adjusting for A4 size paper:
Turn ON pin 2 and 4.

Adjusting for LT size paper:
Turn ON pin 1, 2, and 4.
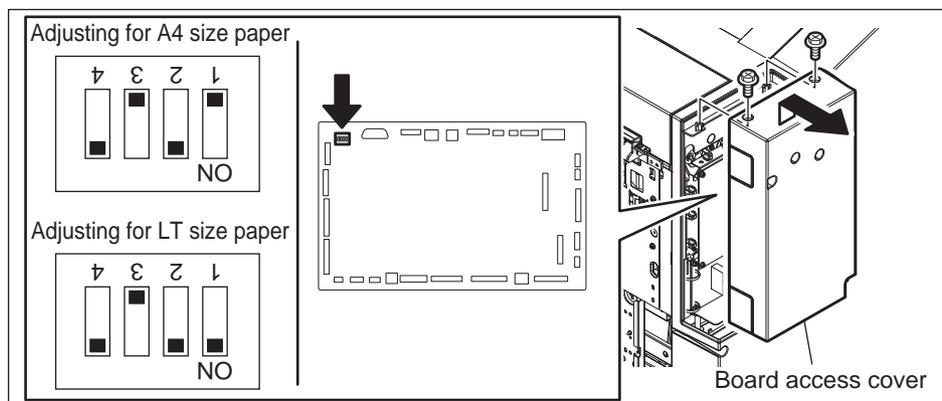
Fig.6-122

(4) Turn ON the power of the equipment while [0] button and [8] button are pressed simultaneously.
The alignment plate moves to the A4 or LT size position and stops.
(It stops at the position of -5 steps from the center value of the adjustment range.)

(5) Press the [Button1] to adjust the alignment position.

Every time the [Button1] is pressed, the alignment plate shifts 1 step (0.419 mm/step) toward the "+ "direction. (The gap between the alignment plates becomes narrower.)

Adjustment range is from -5 to +5 steps.

If the [Button1] is pressed when the alignment position is at the "+5 step", the plate will return to the home position and then moves to the position of "-5 step".

Fig.6-123

(6) Place the adjustment sheet [1] on the process tray and adjust the position to make the gap between paper and the alignment plate [2] "0".

Then setting is performed at a value that is one smaller than the adjustment value.
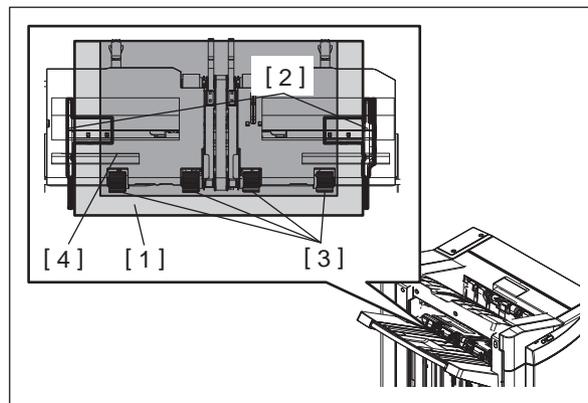
Fig.6-124

Remarks:
- Use an adjustment sheet [1] made of plastic resin which is light and accurate in measurement (e.g. OHP film).
- To reduce frictional resistance with the vertical alignment roller [3] on the process tray, place a sheet of B5 paper [4] beneath the adjustment sheet [1] on the vertical alignment roller [3].
- Confirm the gap between paper and the alignment plate [2] by moving the adjustment sheet [1] forward and backward to reduce affect by backlash of the gear of the side alignment plate.

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(7)   When the adjustment is completed, press the [Button2] on the finisher control panel to store the adjustment value in memory.
When the value is stored normally, the [LED1] on the control panel will blink for a number of times that corresponds to the adjustment value set for the equipment.
See the following table for the number of times the [LED1] blinks and its corresponding adjustment value.

Number of Blinking	Adjustment Value
1	-5
2	-4
3	-3
4	-2
5	-1
6	0
7	+1
8	+2
9	+3
10	+4
11	+5

(8)   Turn OFF the power of the equipment.

(9)   Turn OFF all bits of the SW1 on the Finisher control board.

(10) Install the board access cover.

6.17.2 Adjusting the Stapling Position

Perform this adjustment after replacing the Finisher control board or when the stapling position must be changed for some reason.

(1)   Turn OFF the power of the equipment.

(2)   Remove 2 screws and take off the board access cover.

(3)   Set the SW1 on the Finisher control board as shown in the figures below.

When adjusting the rear side for A4 size paper:
Turn ON pin 1, 3, and 4.

When adjusting the front side for A4 size paper:
Turn ON pin 3 and 4.

When adjusting the rear side for LT size paper:
Turn ON pin 1, 2, 3, and 4.

When adjusting the front side for LT size paper:
Turn ON pin 2, 3, and 4.
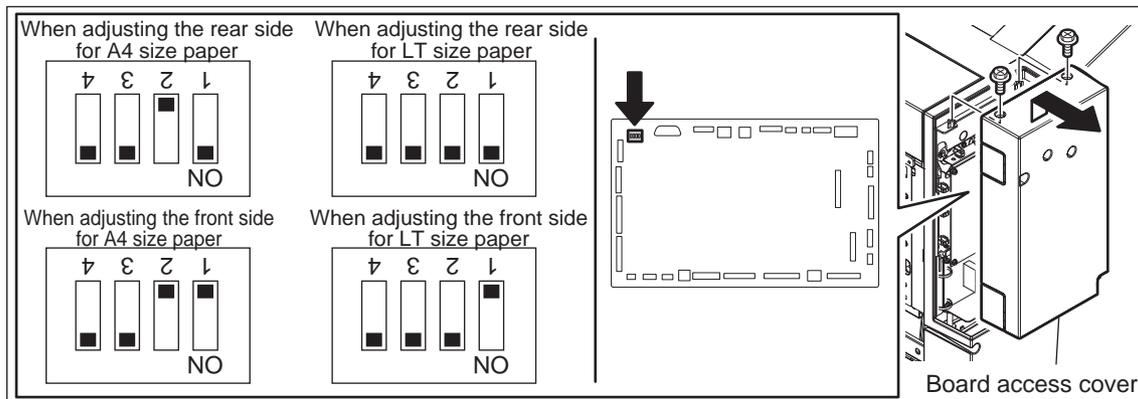
Fig.6-125

(4)   Turn ON the power of the equipment while [0] button and [8] button are pressed simultaneously. The alignment plate moves to the rear or front side stapling position and stops. (It stops at the position of -20 steps from the center value of the adjustment range.)

(5) Press [Button 1] to adjust the stapling position.
Every time [Button 1] is pressed, the alignment plate shifts 4 steps (0.45 mm) toward the "+" direction. (It moves toward the rear side.)
Adjustment range is from -20 to +20 steps. If [Button 1] is pressed when the alignment position is at the "+20 steps", the plate will return to the home position and then moves to the position of "-20 steps".

Remarks:
Stapling for checking the position can be done by pressing [Button 2] with sheets placed on the finishing tray. (stapled on the rear side)
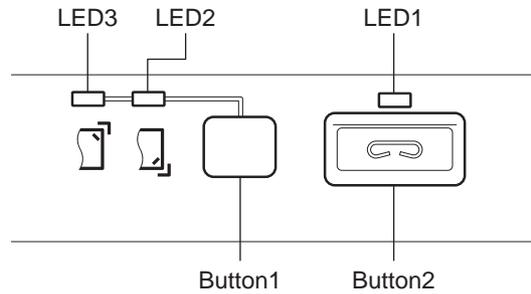
Fig.6-126

(6) When the adjustment is completed, press [Button 2] on the finisher control panel to store the adjustment value in memory without sheets on the finishing tray.
When the value is stored normally, [LED 1] on the control panel will blink for a number of times that corresponds to the adjustment value set for the equipment.
See the following table for the number of times [LED 1] blinks and its corresponding adjustment value.

Number of blinking	Adjustment value
1	-20
2	-16
3	-12
4	-8
5	-4
6	0
7	+4
8	+8
9	+12
10	+16
11	+20

(7) Turn OFF the power of the equipment.

(8) Turn OFF all bits of the SW1 on the Finisher control board.

(9) Install the board access cover.

6.17.3 Stapling/folding position adjustment in saddle stitch unit

Perform this adjustment when the saddle control PC board was replaced or the stapling/folding position must be changed for some reason.
Prepare 2 types of booklet samples using the main unit and use them for adjustment accordingly.

(1) Create 2 types of booklet samples (1 set each) using the main unit.

	Sample 1	Sample 2
Media type	Recommended paper	Recommended paper
Paper size	A4	A3
Number of sheet	5 sheets	5 sheets

(2) Measure the stapling and folding positions of the samples, and then perform adjustment accordingly.
For stapling and folding, paper on the stacker of the stacker unit is moved to an exclusive mechanism for stapling or folding. Therefore adjustment must be performed individually for the folding stopping position of the stacker and the stapling stopping position.

*Check the folding position at the centerfold page of the sample.
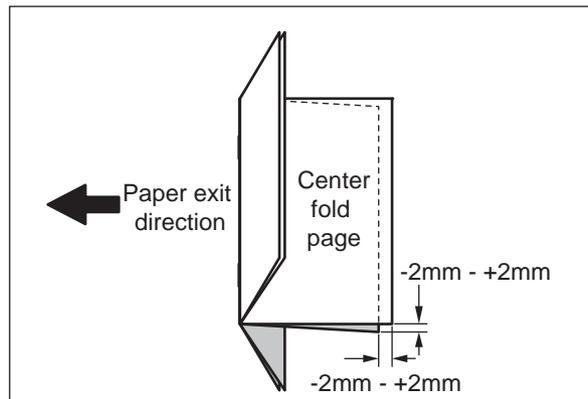
Fig.6-127

* Check the stapling position at the centerfold page of the sample.

Fig.6-128

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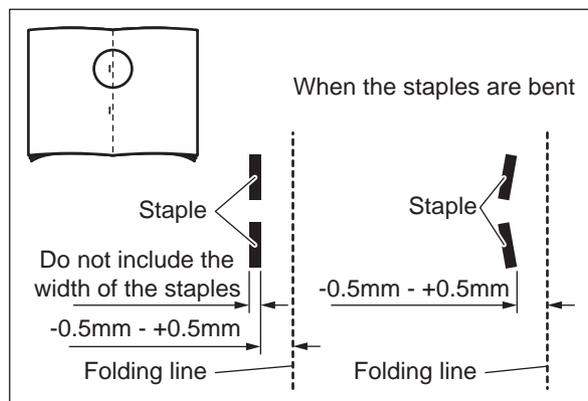
Notes:

Perform adjustment for the folding position first because the stapling position must be adjusted referring to the folding line.

Phenomenon	Contents	Adjustment
Folding position Specified folding position Stacker hook **Fig.6-129**	When the folding position is deviates from the specified one by more than -2.0 mm	Increase the value of the folding position adjustment in order to move the folding stopping position (the position of the stapling hooks) of the stacker upward. 📖 P. 6-117 "[2] Folding position adjustment"
Specified folding position Folding position Stacker hook **Fig.6-130**	When the folding position is deviates from the specified one by more than 2.0 mm	Decrease the value of the folding position adjustment in order to move the folding stopping position (the position of the stapling hooks) of the stacker downward. 📖 P. 6-117 "[2] Folding position adjustment"
Stapling position Folding position Stacker hook **Fig.6-131**	When the stapling position is deviated from the specified one more than -0.50 mm	Decrease the value of the stapling position adjustment in order to move the stapling stopping position (the position of the stapling hooks) of the stacker downward. 📖 P. 6-115 "[1] Saddle stapling position adjustment"
Folding position Stapling position Stacker hook **Fig.6-132**	When the stapling position is deviated from the specified one more than 0.50 mm	Increase the value of the stapling position adjustment in order to move the stapling stopping position (the position of the stapling hooks) of the stacker upward. 📖 P. 6-115 "[1] Saddle stapling position adjustment"
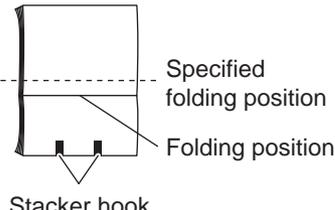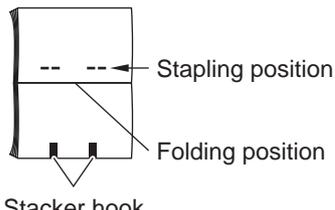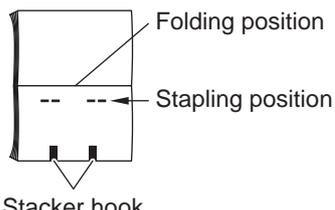
[1] Saddle stapling position adjustment

(1) Turn OFF the power of the equipment.

(2) Remove 2 screws and take off the board access cover [1].

(3) Set the SW1 on the Finisher control board as shown in the figures below.
Turn ON pin 1 and 4.
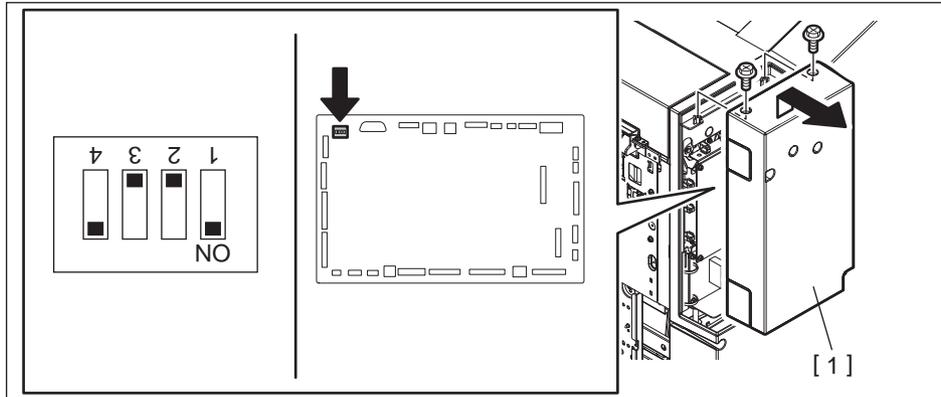
Fig.6-133

(4) Turn ON the power of the equipment while [0] button and [8] button are pressed simultaneously.

(5) Press [Button 1] on the touch panel 10 times and then press [Button 2] once. Then press [Button 1] once again, and [Button 2] once again. (Adjustment of LD and A3 paper starts.)

Fig.6-134

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[LED 1] on the control panel will blink for a number of times that corresponds to the adjustment value set for the equipment.
See the following table for the number of times [LED 1] blinks and its corresponding adjustment value.

Number of blinking	Adjustment value
1	-7
2	-6
3	-5
4	-4
5	-3
6	-2
7	-1
8	0
9	+1
10	+2
11	+3
12	+4
13	+5
14	+6
15	+7

(6) Press [Button 1] to adjust the stapling position.
Every time [Button 1] is pressed, the alignment plate shifts 1 steps (0.4 mm) toward the "+" direction.(The stacker [paper] moves upward and thus the stapling position moves downward against the stapling mechanism.)
Adjustment range is from -7 to +7 steps. If [Button 1] is pressed when the alignment position is at the "+7 steps", the plate will return to the home position and then moves to the position of "-7 steps".

(7) When the adjustment is completed, press [Button 2] on the finisher control panel to store the adjustment value in memory.
When the value is stored normally, [LED 1] on the control panel will blink for a number of times that corresponds to the adjustment value set for the equipment.

(8) Press [Button 1] and [Button 2].(Adjustment of LD and A3 paper finishes.)

(9) Press [Button 1] on the touch panel 10 times and then press [Button 2] once. Then press [Button 1] again 3 times, and [Button 2] once again. (Adjustment of LG, B4, LT-R, A4-R and 8K paper starts.)
[LED 1] on the touch panel blinks for the number of times corresponding to the current adjustment value.
Perform adjustment for steps (6) to (8) in the same procedure.

(10) Turn OFF the power of the equipment.

(11) Turn OFF all bits of the SW1 on the Finisher control board.

(12) Install the board access cover.

[2] Folding position adjustment

(1) Turn OFF the power of the equipment.

(2) Remove 2 screws and take off the board access cover [1].

(3) Set the SW1 on the Finisher control board as shown in the figures below.
Turn ON pin 1 and 4.
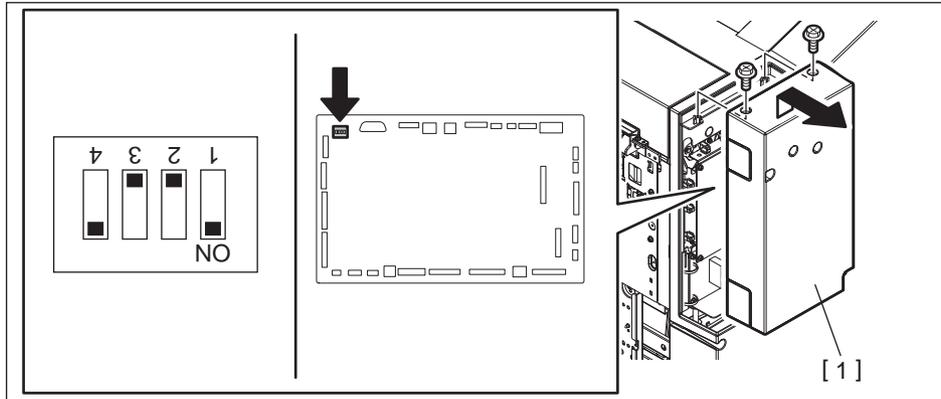
Fig.6-135

(4) Turn ON the power of the equipment while [0] button and [8] button are pressed simultaneously.

(5) Press [Button 1] on the touch panel 10 times and then press [Button 2] once. Then press [Button 1] again 2 times, and [Button 2] once again. (Adjustment of LD and A3 paper starts.)
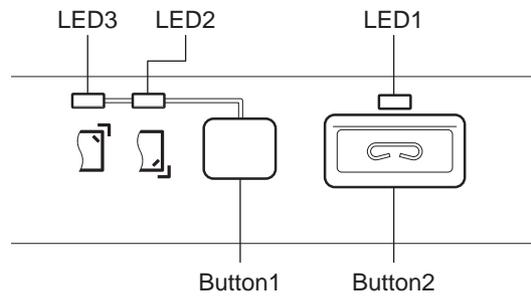
Fig.6-136

[LED 1] on the control panel will blink for a number of times that corresponds to the adjustment value set for the equipment.
See the following table for the number of times [LED 1] blinks and its corresponding adjustment value.

Number of blinking	Adjustment value
1	-7
2	-6
3	-5
4	-4
5	-3
6	-2
7	-1
8	0
9	+1
10	+2
11	+3
12	+4
13	+5
14	+6
15	+7

(6) Press [Button 1] to adjust the folding position.
Every time [Button 1] is pressed, the alignment plate shifts 1 steps (0.2 mm) toward the "+" direction. (The stacker [paper] moves upward and thus the folding position moves downward against the folding mechanism.)
Adjustment range is from -7 to +7 steps. If [Button 1] is pressed when the alignment position is at the "+7 steps", the plate will return to the home position and then moves to the position of "-7 steps".

(7) When the adjustment is completed, press [Button 2] on the finisher control panel to store the adjustment value in memory without sheets on the finishing tray.
When the value is stored normally, [LED 1] on the control panel will blink for a number of times that corresponds to the adjustment value set for the equipment.

(8) Press [Button 1] and [Button 2].(Adjustment of LD and A3 paper finishes.)

(9) Press [Button 1] on the touch panel 10 times and then press [Button 2] once. Then press [Button 1] again 4 times, and [Button 2] once again. (Adjustment of LG, B4, LT-R, A4-R and 8K paper starts.)
[LED 1] on the touch panel blinks for the number of times corresponding to the current adjustment value.
Perform adjustment for steps (6) to (8) in the same procedure.

(10) Turn OFF the power of the equipment.

(11) Turn OFF all bits of the SW1 on the Finisher control board.

(12) Install the board access cover.

6.17.4 Saddle Stitch Skew Adjustment

Perform this adjustment when the folding position for saddle stitching is tilted.

(1) Turn OFF the power of the equipment.

(2) Open the cover, pull out the saddle stitch section, and then loosen the 2 screws.
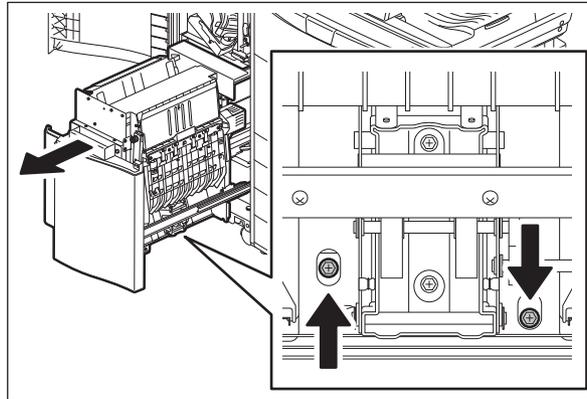
Fig.6-137

(3) Rotate the adjustment screw slightly.
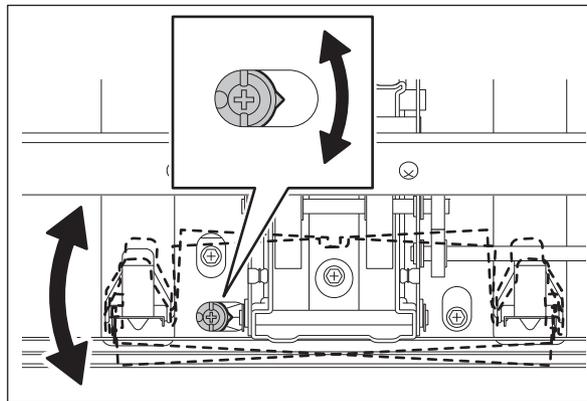
Fig.6-138

(4) Tighten the 2 screws, return the saddle stitch section, and then close the cover.

Fig.6-139

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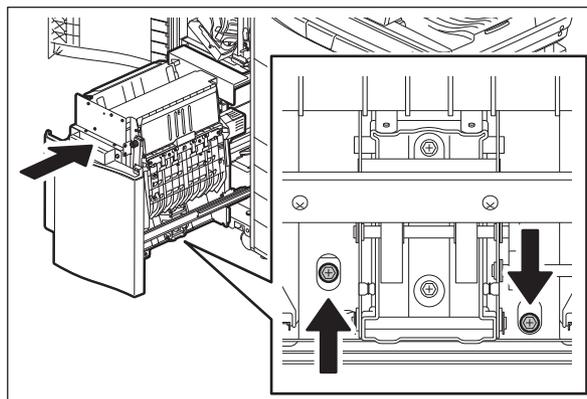
6.18 Adjustment of Hole punch unit (MJ-6007)

6.18.1 Destination setting of hole punch control PC board

This setting is performed when the hole punch control PC board (HP) [1] is replaced with a DIP switch [2] on it.
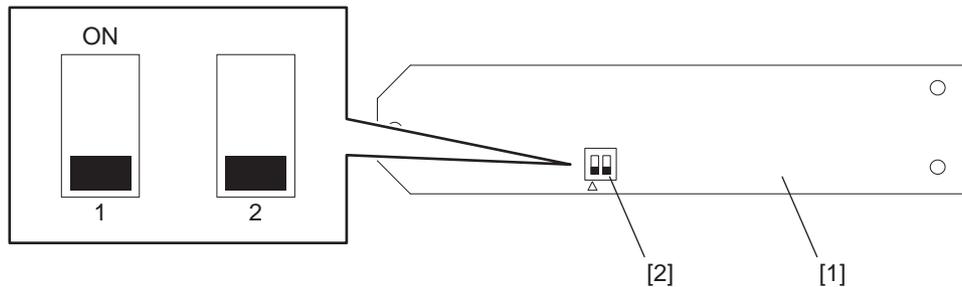
Fig.6-140

Refer to the table below for the destination settings.

Destination	Number of punch holes	DIP switch	
		1	2
MJ-6007E (Europe/Japan/China)	2 holes	OFF	OFF
MJ-6007N (North America)	2/3 holes	ON	OFF
MJ-6007F (France)	4 holes	OFF	ON
MJ-6007S (Sweden)	4 holes	ON	ON

6.19 Adjustment of Hole punch unit (MJ-6008)

6.19.1 Sensor output adjustment

Perform this adjustment after replacing any of the hole punch control PC board (HP), horizontal registration detection sensors (S39-1 and S39-2, light-emitting PC board and light-receiving PC board) and punch waste full sensors (S40-1 and S40-2, light-emitting PC board and light-receiving PC board). This adjustment is performed with a DIP switch [2] and a push button switch [3] on the hole punch control PC board (HP) [1].
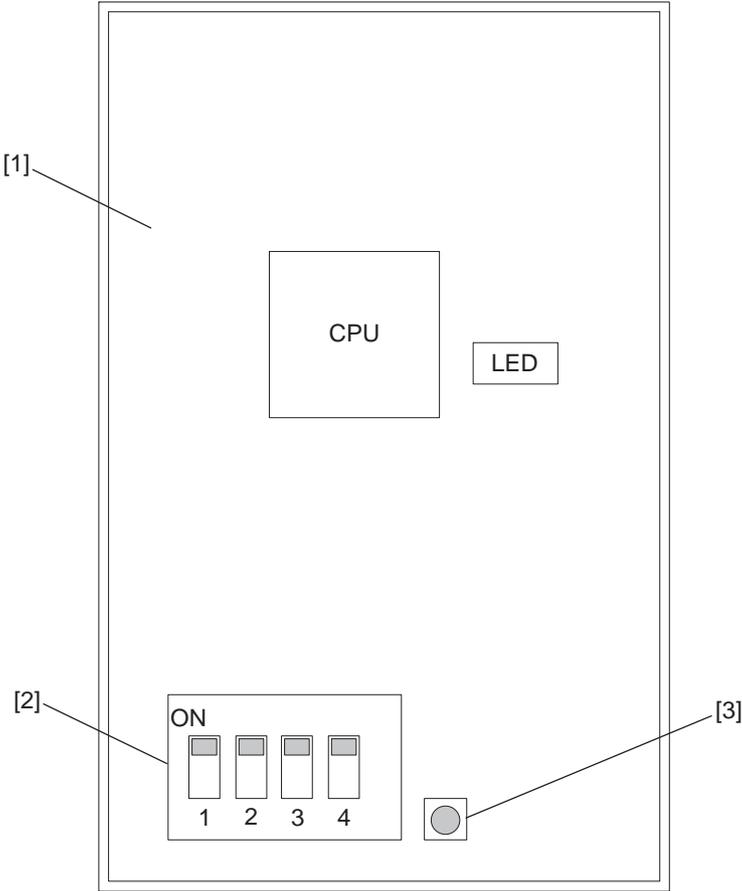
Fig.6-141

[A]   Output adjustment for transport path and paper edge detection related sensors

Target sensors: Trailing edge detection sensors (S38-1 and S38-2, 1 couple) and horizontal registration detection sensors (S39-1 and S39-2, 4 couples)

(1)   Turn OFF the power of the equipment.

(2)   Take off the rear cover of the finisher.

(3)   Confirm that there is no paper or shielding object around the target sensor.

(4)   Set the bits 1, 2 and 3 of the DIP switch [2] on the hole punch control PC board (HP) [1] to ON. Then turn ON the power of the equipment while pressing the push button switch [3] on the hole punch control PC board (HP) [1] and the digital keys [0] and [8] on the control panel of the equipment.
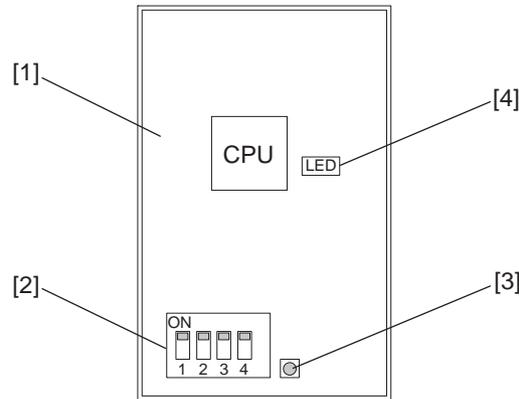
Fig.6-142

(5)   Set the bits 1, 2, 3 and 4 of the DIP switch [2] as shown in the table below.

Target sensor	DIP switch			
	1	2	3	4
Transport path and paper edge detection related sensors	OFF	OFF	OFF	OFF

(6)   Sensor output is adjusted automatically by pressing the push button switch [3]. LEDs [4] on the hole punch control PC board (HP) [1] start blinking as the adjustment is started. When the adjustment is completed, the LEDs [4] are lit.

(7)   Install the rear cover of the finisher.

[B] Punch waste full sensor output adjustment

(1) Turn OFF the power of the equipment.

(2) Take off the rear cover of the finisher.

(3) Confirm that the punch waste case is installed correctly and also no punch waste exists in the case.

(4) Set the bits 1, 2 and 3 of the DIP switch [2] on the hole punch control PC board (HP) [1] to ON. Then turn ON the power of the equipment while pressing the push button switch [3] on the hole punch control PC board (HP) [1] and the digital keys [0] and [8] on the control panel of the equipment.
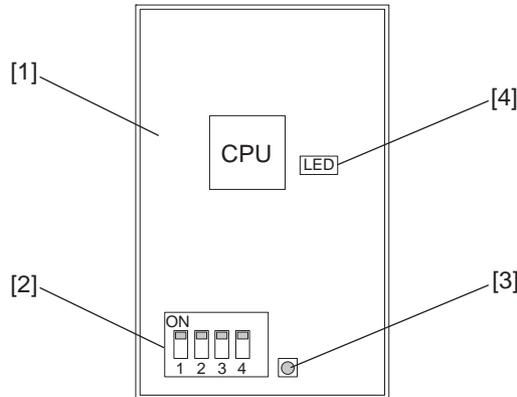
Fig.6-143

(5) Set the bits 1, 2, 3 and 4 of the DIP switch [2] as shown in the table below.

Target sensor	DIP switch			
	1	2	3	4
Punch waste full sensors	OFF	OFF	OFF	ON

(6) Sensor output is adjusted automatically by pressing the push button switch [3].
LEDs [4] on the hole punch control PC board (HP) [1] start blinking as the adjustment is started. When the adjustment is completed, the LEDs [4] are lit.

(7) Turn OFF all bits of the DIP switch [2].

(8) Install the rear cover of the finisher.

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6.19.2 Registration of the number of punch holes

This registration is to have the Finisher identify which type (number of punch holes) of the Hole Punch Unit is installed, by storing them in the IC on the hole punch control PC board (HP). Therefore this registration is required whenever you have replaced the hole punch control PC board (HP).
This registration is performed with a DIP switch [2] and a push button switch [3] on the hole punch control PC board (HP) [1].
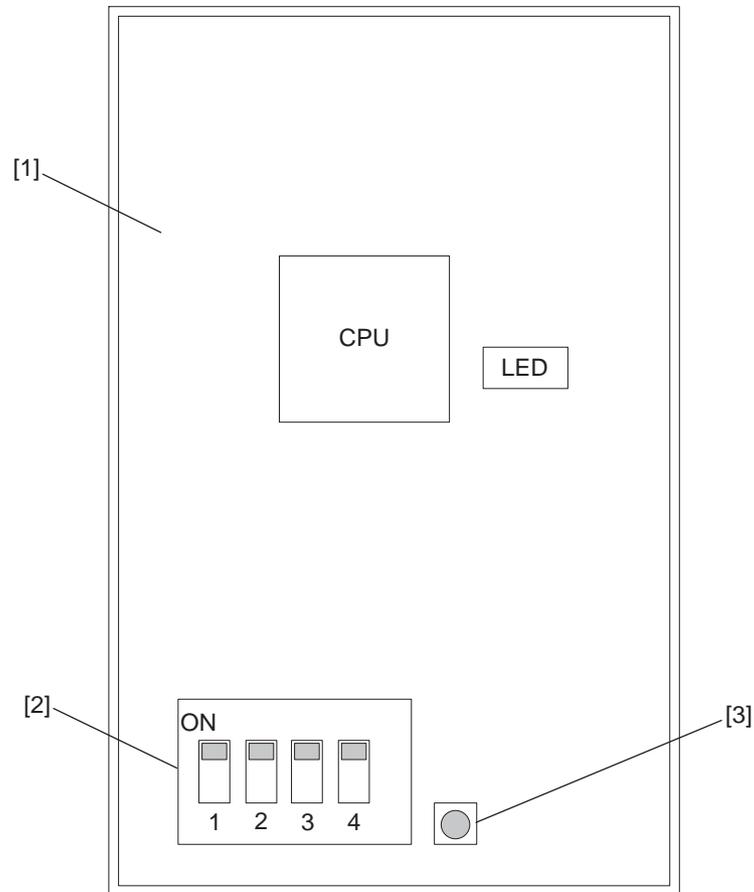
Fig.6-144

[A]   Registration of the number of punch holes

(1)   Turn OFF the power of the equipment.

(2)   Take off the rear cover of the finisher.

(3)   Set the bits 1, 2 and 4 of the DIP switch [2] on the hole punch control PC board (HP) [1] to ON. Then turn ON the power of the equipment while pressing the push button switch [3] on the hole punch control PC board (HP) [1] and the digital keys [0] and [8] on the control panel of the equipment.
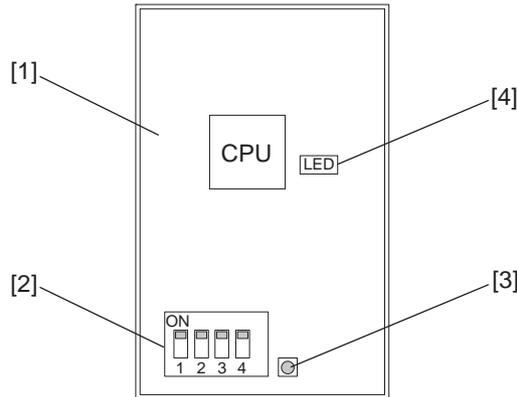
Fig.6-145

(4)   Select the number of punch holes by setting the bits from 1 to 4 of the DIP switch [2]. See the table below for registering the number of punch holes.

Number of punch holes	DIP switch			
	1	2	3	4
2 holes (E)	OFF	OFF	OFF	OFF
2/3 holes (N)	OFF	OFF	OFF	ON
4 holes (F)	OFF	OFF	ON	OFF
4 holes (S)	OFF	OFF	ON	ON

(5)   The number of punch holes is registered in the hole punch control PC board (HP) [1] by pressing the push button switch [3].
LEDs [4] on the hole punch control PC board (HP) [1] start blinking as the registration is started. When the registration is completed, the LEDs [4] are lit.

(6)   Turn OFF all bits of the DIP switch [2].

(7)   Install the rear cover of the finisher.

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[B] Confirmation of the number of punch holes registered

(1) Turn OFF the power of the equipment.

(2) Take off the rear cover of the finisher.

(3) Set the bits 1, 2 and 4 of the DIP switch [2] on the hole punch control PC board (HP) [1] to ON. Then turn ON the power of the equipment while pressing the push button switch [3] on the hole punch control PC board (HP) [1] and the digital keys [0] and [8] on the control panel of the equipment.
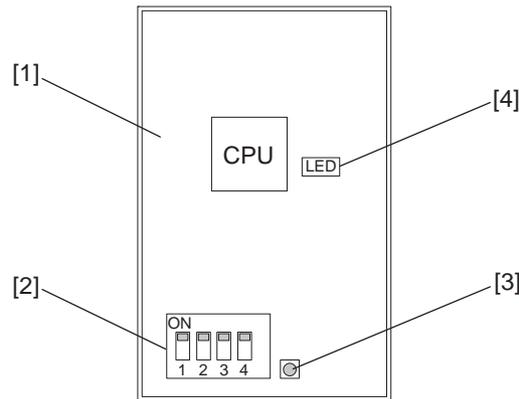
Fig.6-146

(4) Set only the bit 2 of the DIP switch [2] to ON.

(5) LEDs [4] on the hole punch control PC board (HP) [1] start blinking by pressing the push button switch [3]. The number of punch holes registered can be confirmed with the number of blinking. (Count the number of blinks in the second round and after, as the first round includes the first blink.)
See the table below for the number of punch holes registered.

Number of punch holes	Number of LED Blinking
2 holes (E)	4
2/3 holes (N)	9
4 holes (F)	7
4 holes (S)	8

(6) Turn OFF all bits of the DIP switch [2].

(7) Install the rear cover of the finisher.

7. PREVENTIVE MAINTENANCE (PM)

7.1 General Description

The purpose of preventive maintenance (PM) is to maintain the quality level of this equipment by periodically inspecting and cleaning this equipment and also replacing the parts whose replacement timing has come according to the maintenance contract. There are PM kits packaged for each unit or a group of parts with the same replacement number of output pages, allowing you to carry out efficient parts replacement.

Also to maintain the quality level of the equipment, overhauling is required when a specified number of pages has been printed or when a specified period of time has passed, regardless of the number of output pages.

7.2 PM Display

7.2.1 General description

The maintenance times of the PM parts vary depending on the state of the parts, for example, if one part is replaced due to a problem during the operation, the maintenance time of another part will change accordingly. In this equipment, the optimal maintenance time corresponding to each part is displayed on the control panel LCD.

The [process unit (K)] explained below is a photoconductive drum or a cleaner unit which includes a photoconductive drum. The [developer material (K)] explained below is a developer material or a developer unit which includes a developer material. The [PM part other than the process unit] explained below is a fuser roller or a fuser unit which includes a fuser roller.

7.2.2 PM display conditions

The conditions of the PM display consist of the codes of the setting mode (08) for "the setting value treated as a threshold of the PM display", "the counter indicating the current number of prints and driving time" and "the setting value which determines the display conditions".
The PM timing is displayed when the counter exceeds the setting value according to the display condition based on "the setting value which determines the display conditions".

- Setting value treated as a threshold of the PM display
  Notes:
  When "0" is entered as the setting value, PM timing is not displayed.

  08-6190: Setting value of PM counter [process unit (K)]
  08-6191 : Setting value of PM time counter [process unit (K)]
  08-5554 : Setting value of PM counter [developer material (K)]
  08-5555 : Setting value of PM time counter [developer material (K)]
  08-5562 : Setting value of PM counter [parts other than the PM parts of the process unit]
  08-5563 : Setting value of PM time counter [parts other than the PM parts of the process unit]

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- Counter indicating the current number of prints and driving time
    - 08-6194 : Current value of PM counter [process unit (K)]
    - 08-6195 : Current value of PM time counter [process unit (K)]
    - 08-5568 : Current value of PM counter [developer material (K)]
    - 08-5569 : Current value of PM time counter [developer material (K)]
    - 08-5576 : Current value of PM counter [parts other than the PM parts of the process unit]
    - 08-5577 : Current value of PM time counter [parts other than the PM parts of the process unit]

- Setting value which determines the display conditions
    - 08-6198 : Switching of output pages/driving counts at PM [process unit (K)]
    - 08-5581 : Switching of output pages/driving counts at PM [developer material (K)]
    - 08-5585 : Switching of output pages/driving counts at PM [parts other than the PM parts of the process unit]

For example, you can set the conditions of the PM display of the [process unit (K)] as follows.

PM display by specifying the number of prints	1. Key in "0" for 08-6198 (Switching of output pages/driving counts at PM [process unit (K)]). 2. Key in the value of the number of prints for the PM display other than "0" for 08-6190 (Setting value of PM counter [process unit (K)]).
PM display by specifying the driving time	1. Key in "1" for 08-6198 (Switching of output pages/driving counts at PM [process unit (K)]). 2. Key in the value of the driving time for the PM display other than "0" for 08-6191 (Setting value of PM time counter [process unit (K)]).
PM display by the earlier one: when the number of prints or the driving time reaches the set value	1. Key in "2" for 08-6198 (Switching of output pages/driving counts at PM [process unit (K)]). 2. Key in the value of the number of sheets for the PM display other than "0" for 08-6190 (Setting value of PM counter [process unit (K)]). 3. Key in the value of the driving time other than "0" for 08-6191 (Setting value of PM time counter [process unit (K)]).

If the value of 08-9891 (Warning message on the touch panel when PM time has come) is set to "0: No warning notification", the PM display is not performed regardless of the settings above. (Default value is "1: Display warning notification")

7.2.3   PM display contents

When the counter value exceeds the setting value, the equipment notifies you of when the maintenance time has come by displaying the message "Time for periodic maintenance ****" on the control panel LCD. "****" in the message is a 4-digit hexadecimal number code. This number is allocated in the following manner, therefore the parts needing maintenance can be identified.

PM parts of the process unit (K)   : 0008
PM parts of the developer material (K)   : 0080
Parts other than the PM parts of the process unit   : 0100

If multiple parts have reached the maintenance time, the sum of the corresponding code values listed above is displayed in hexadecimal numbers.
For example, if the peripheral parts of the process units (K) and developer material (K) reach the maintenance time, the 4-digit hexadecimal number code will be "0188" in hexadecimal numbers: 0008+0080+0100=0188.

7.2.4   Clearing counter

The counter indicating "current number of prints and driving time" used for the PM display function is reset by entering "0" in it or clearing it in the PM support mode.
Notes:
Even if "0" is entered in the PM management setting value of the setting mode (08), the corresponding counter for the PM display is not reset. Be sure to clear the counter in the PM support mode when the maintenance is finished.

The reset condition of each counter is as follows:

• 08-6194: Current value of PM counter [process unit (K)]
• 08-6195: Current value of PM time counter [process unit (K)]
   When the current value of "CLEANER/DRUM" on the main screen or "DRUM" on the sub-screen in the PM support mode is cleared, the counter is reset.

• 08-5568: Current value of PM time counter [developer material (K)]
• 08-5569: Current value of PM time counter [developer material (K)]
   When the current value of "DEVELOPER" on the main screen or "DEVELOPER" on the sub-screen in the PM support mode is cleared, the counter is reset.

• 08-5576: Current value of PM counter [parts other than the PM parts of the process unit]
• 08-5577: Current value of PM time counter [parts other than the PM parts of the process unit]
• 08-6225: Number of output pages (Thick paper 1)
• 08-6226: Number of output pages (Thick paper 2)
• 08-6227: Number of output pages (Thick paper 3)
• 08-6228: Number of output pages (OHP film)
• 08-6244: Counter for tab paper
• 08-6247: Counter for envelope
   When the current value of "FUSER" on the main screen or "FUSER ROLLER" on the sub screen in the PM support mode is cleared, the counter is reset.
Notes:
The following counters are cleared by executing the EPU replacement mode.
08-6194: Current value of PM counter [process unit (K)]
08-6195: Current value of PM time counter [process unit (K)]
08-5568: Current value of PM counter [developer material (K)]
08-5569: Current value of PM time counter [developer material (K)]

7.3 General Descriptions for PM Procedure

Perform the preventive maintenance in the following timing.
- e-STUDIO206L / e-STUDIO207L: every 80,000 sheets
- e-STUDIO256 / e-STUDIO257: every 100,000 sheets
- e-STUDIO306 / e-STUDIO307: every 120,000 sheets
- e-STUDIO356 / e-STUDIO357: every 125,000 sheets
- e-STUDIO456 / e-STUDIO457: every 150,000 sheets
- e-STUDIO506 / e-STUDIO507: every 150,000 sheets

(1) Preparation
- Ask the user about the current conditions of the equipment and note them down.
- Before starting maintenance, make some sample copies and store them.
- See the replacement record and check the parts to be replaced in the PM support mode (6S-2) or list printing mode (9S-103).
    - 6S-2   : [6] + [START] + [POWER] ON → [2] → [START]
    - 9S-103   : [9] + [START] + [POWER] ON → [103] → [START]

PM SUPPORT CODE LIST	S/N : CYL000001	FIN S/N : FIN S/N-xxxxxxxx	TOTAL : 2146
2012-04-09 13:16	TOSHIBA e-STUDIOxxxx		DF TOTAL : 1213

UNIT	OUTPUT PAGES DEVELOP COUNTS	PM OUTPUT PAGES DEVELOP COUNTS	DRIVE COUNTS	PM DRIVE COUNTS
DRUM	1957	1957	3940	170000
DRUM BLADE	1957	1957	10870	170000
DRUM BRUSH	1957	1957	10870	170000
SEPARATION FINGER (DRUM)	1957	1957	10870	170000
GRID	1957	1957	10870	170000
DRUM(Y)	1077	1077	3766	170000
MAIN CHARGER WIRE	1077	1077	3766	170000
CLEANING PAD	1077	1077	3766	170000
DEVELOPER	1077	1077	3766	170000
TONER BAG	1077	1077	3766	170000
TRANSFER BELT	1077	1077	9547	170000
BELT BLADE	1077	1077	9547	170000
BELT BRUSH	1077	1077	9547	170000
OZONE FILTER	1077	1077	9547	170000
TONER FILTER	1077	1077	9547	170000
FUSER ROLLER	1077	1077	9547	170000
PRESS ROLLER)	1077	1077	9547	170000

Fig. 7-1

- Turn OFF the power and make sure to unplug the equipment.

(2) Perform a preventive maintenance using the following checklist and illustrations. Refer to the Service Manual if necessary.

(3) Plug in the equipment after the maintenance has been finished. Then turn ON the power and make some copies to confirm that the equipment is working properly.

7.4   PM Support Mode (6S)

7.4.1   General description

The timing for the parts replacement usually depends on the number of output pages ever printed after they were replaced before. However, the life span of them changes depending on the general use of users and the environment in which the equipment is placed. Therefore, it is necessary to consider not only the number of output pages but also the drive counts when deciding the timing for the parts replacement in order to utilize the parts and materials effectively.
This equipment has the PM support mode, which makes it possible to see the general use of each part (the number of output pages, drive counts) and replacement record and to do a counter clearing operation more efficiently when replacing.
The replacement record can be printed out in the list printing mode (9S-103).

7.4.2   Operational flow and operational screen

[1]   Operational flow
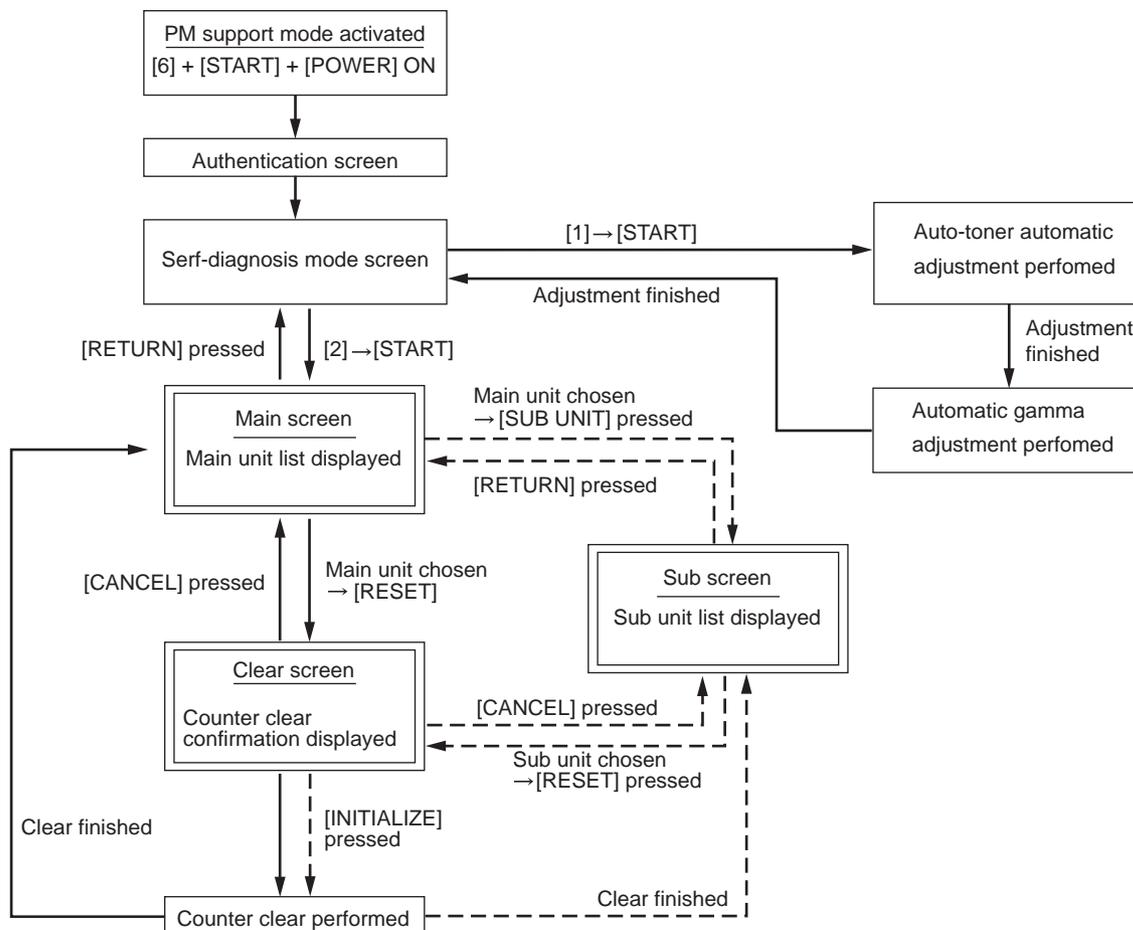
Fig. 7-2

*   When the authentication screen appears, press [OK]. (Enter the password, if one has been set.)
*   The screen goes back to the main screen when the counter clear is executed or the [CANCEL] button is pressed after moving from the main screen, while it goes back to the sub screen after moving from the sub screen.

[2] Operational screen

1. Main screen
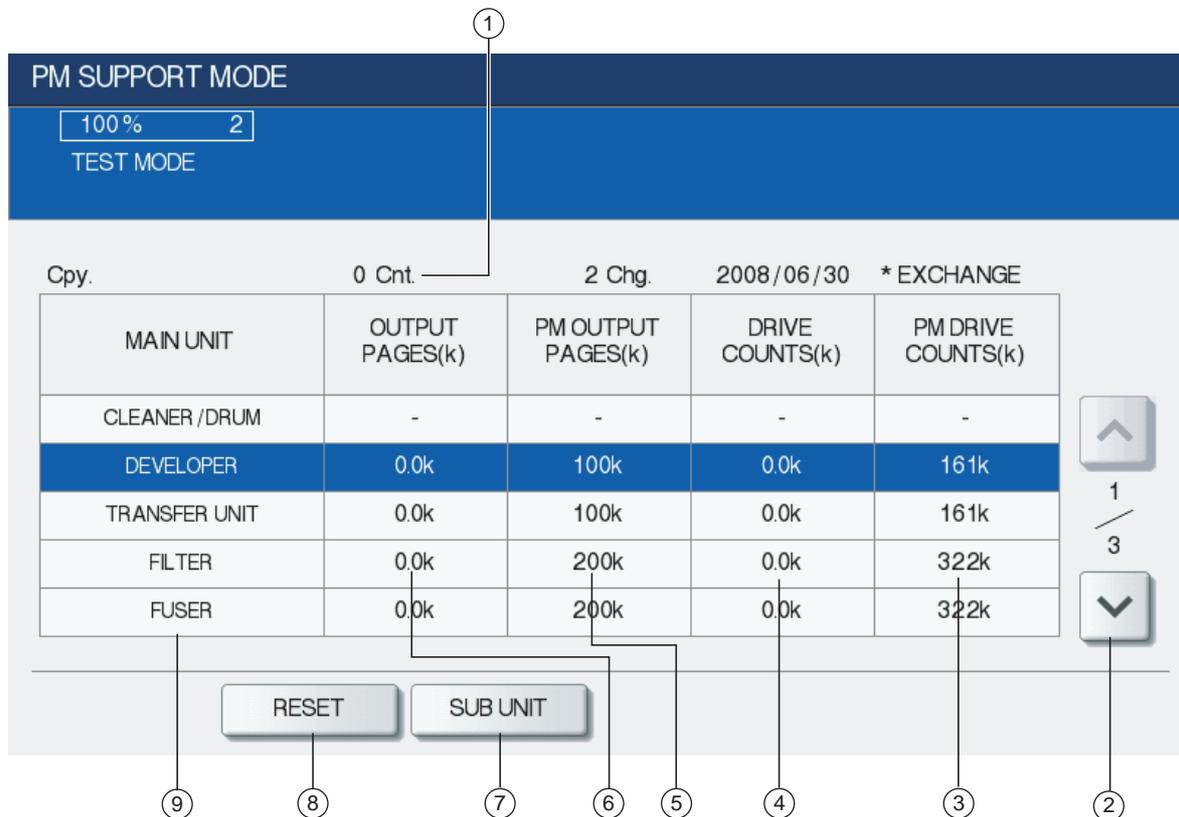
Fig. 7-3

① Displaying of the number of print / develop pages (Page/D. cnt), drive counts (Cnt.) and previous replacement date (Chg.) for a chosen unit
When the replacement date for the sub unit is different, press the [SUB UNIT] button to move to the sub screen and see each information, otherwise information is not displayed

② Moving to the next/previous page

③ Displaying of the standard number of drive counts to replace the unit parts

④ Displaying of the present drive counts
"*" is displayed next to the present number when the number of drive counts has exceeded its PM standard number.

⑤ Displaying of the present number of print / develop pages
When there are differences among the sub units (parts), "_" is displayed and "CHECK SUBUNIT" is displayed at the top
"*" is displayed next to the present number when the number of print / develop pages has exceeded its PM standard number.

⑥ Displaying of the standard number of print / develop pages to replace the unit parts

⑦ Moving to the sub screen of the selected unit

⑧ Moving to the clear screen to clear the selected unit counters ④ and ⑥, including all sub unit (parts) counters belonging to that unit When the unit is not selected, all counters are cleared.

⑨ Displaying of the main unit name

Notes:
- "—" is always displayed at the drive counts section for the reversing automatic document feeder (RADF) and feed unit.
- The paper source differs depending on the structure of options, however, "0.0k" is displayed in "OUTPUT PAGES (k)" and its standard number of output pages is displayed in "PM OUTPUT PAGES (k)" even for the installed paper source.

2. Sub screen
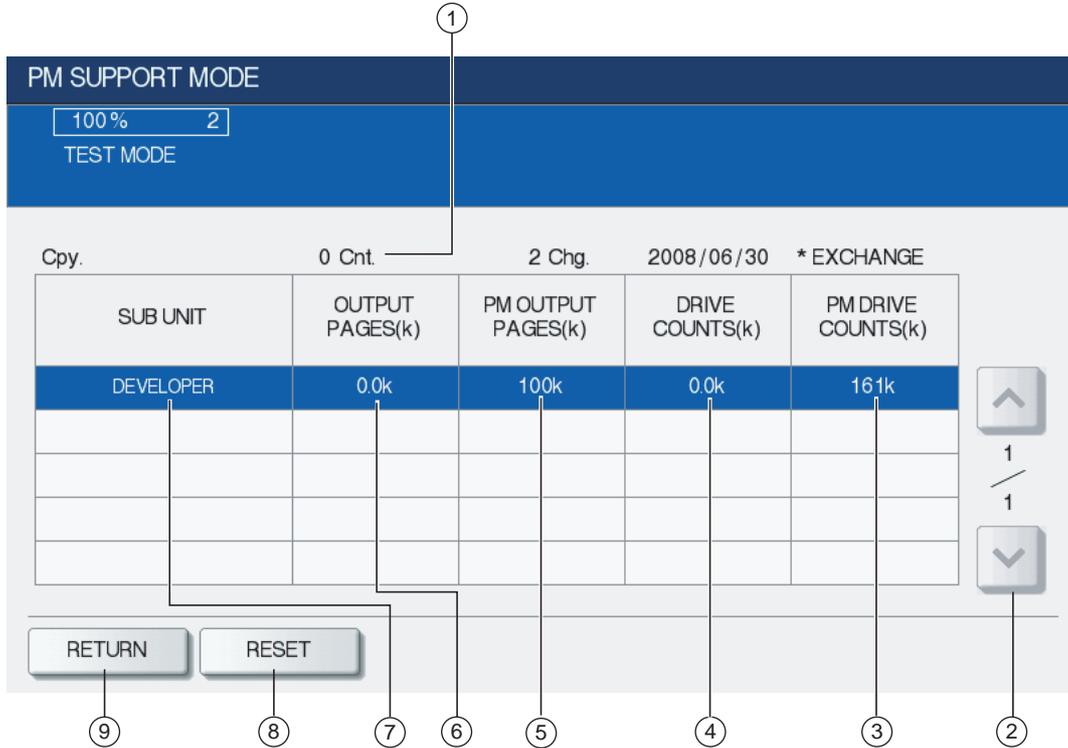
Fig. 7-4

①   Displaying of the number of print / develop pages and drive counts and previous replacement date for a chosen sub unit

②   Moving to the next/previous page

③   Displaying of the standard number of drive counts to replace the sub unit (parts)

④   Displaying of the present drive counts
"*" is displayed next to the present number when the number of drive counts has exceeded its PM standard number.

⑤   Displaying of the standard number of print / develop pages to replace the sub unit (parts)

⑥   Displaying of the present number of print / develop pages
"*" is displayed next to the present number when the number of print / develop pages has exceeded its PM standard number.

⑦   Displaying of the sub unit (parts) name

⑧   Moving to the clear screen to clear the selected unit (parts) counters

⑨   Back to the main screen

   e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
PREVENTIVE MAINTENANCE (PM)

3. Clear screen

PM SUPPORT MODE

100% 2
TEST MODE

Page / D. Cnt.   13927 Cnt.   21232 Chg. 2008/03/21   * EXCHANGE
    COUNTER RESET

CANCEL   INITIALIZE

②   ①
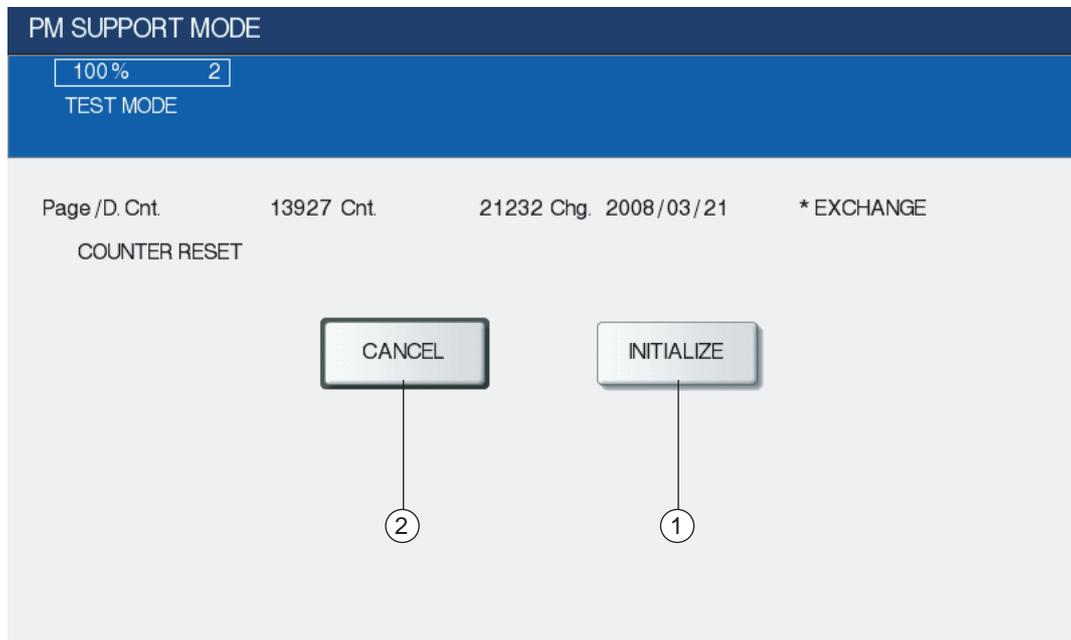
Fig. 7-5

①   When the [INITIALIZE] button is pressed, "Present number of print / develop pages" and Present driving counts" are cleared and "Previous replacement date" is updated.

②   When the [CANCEL] button is pressed, the counter is not cleared and the display returns to the main or sub screen.

[3] LCD screen display list

Notes:
The name inside [ ] is displayed on the LCD screen.

Main screen	Sub-screen
Drum/cleaner unit [CLEANER/DRUM]	Drum [DRUM] Drum cleaning blade [DRUM BLADE] Main charger grid [GRID] Needle electrode [NEEDLE ELECTRODE] Separation finger for drum [SEPARATION FINGER (DRUM)] Recovery blade [RECOVERY BLADE]
Developer unit [DEVELOPER]	Developer [DEVELOPER]
Transfer unit [TRANSFER UNIT]	TRANSFER ROLLER[TRANSFER ROLLER]
Filter [FILTER]	Ozone filter [OZONE FILTER]
Fuser unit [FUSER]	Fuser roller [FUSER ROLLER] Pressure roller [PRESS ROLLER] Separation finger for fuser roller [SEPARATION FINGER (FUSER)]
Upper drawer [1st CST.]	Pickup roller [PICK UP ROLLER (1st CST.)] Feed roller [FEED ROLLER (1st CST.)] Separation roller [SEP ROLLER (1st CST.)]
Lower drawer [2nd CST.]	Pickup roller [PICK UP ROLLER (2nd CST.)] Feed roller [FEED ROLLER (2nd CST.)] Separation roller [SEP ROLLER (2nd CST.)]
Bypass unit [SFB]	Feed roller [FEED ROLLER (SFB)] Separation pad [SEP PAD (SFB)]
RADF [RADF]	Pickup roller [PICK UP ROLLER (RADF)] Feed roller [FEED ROLLER (RADF)] Separation roller [SEP ROLLER (RADF)]
LCF [LCF]	Pickup roller [PICK UP ROLLER (LCF)] Feed roller [FEED ROLLER (LCF)] Separation roller [SEP ROLLER (LCF)]
PFP upper drawer [3rd CST.]	Pickup roller [PICK UP ROLLER (3rd CST.)]] Feed roller [FEED ROLLER (3rd CST.)] Separation roller [SEP ROLLER (3rd CST.)]
PFP lower drawer [4th CST.]	Pickup roller [PICK UP ROLLER (4th CST.)] Feed roller [FEED ROLLER (4th CST.)] Separation roller [SEP ROLLER (4th CST.)]

7

7.4.3   Work flow of parts replacement

The timing for the parts replacement usually depends on the number of output pages ever made after they were replaced before. However, its drive counts time is also to be considered when replacing the parts. Even if the number of output pages has reached the level of replacement, for instance, the part may still be usable with its drive counts not reaching the specified drive counts. On the other hand, the part may need replacement even if the number of output pages has not reached the level of replacement with its driving time exceeding the specified drive counts. The life span of some parts such as feed roller is heavily dependent on the number of output pages rather than the drive counts.
The following work flow diagram shows how to judge the timing of replacement with the number of output pages and the drive counts.

Example 1:
When the number of output pages has reached the specified level
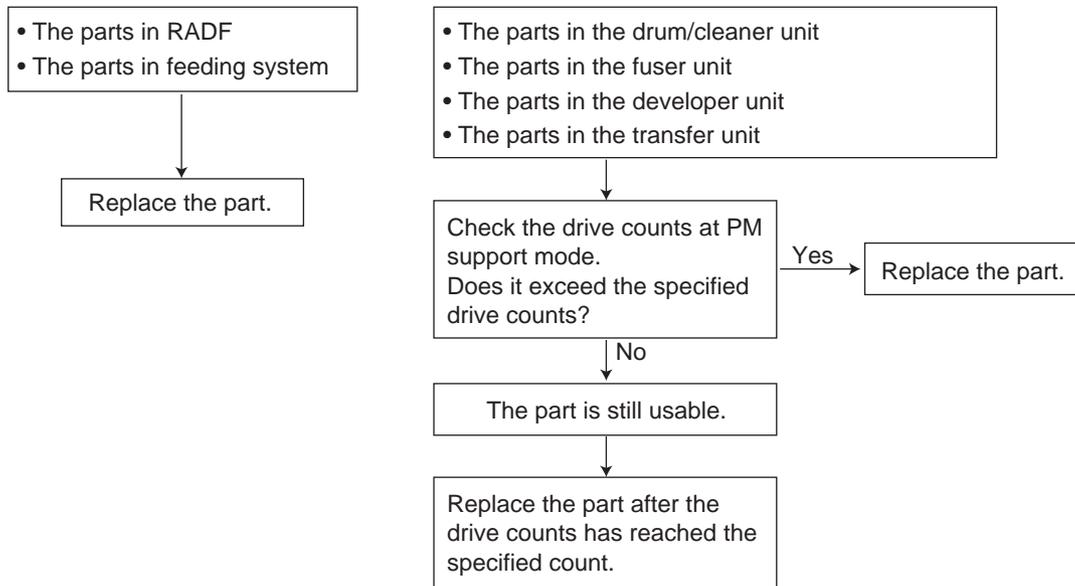
Example 2:
When the image failure occurred before the number of output pages has reached the specified level
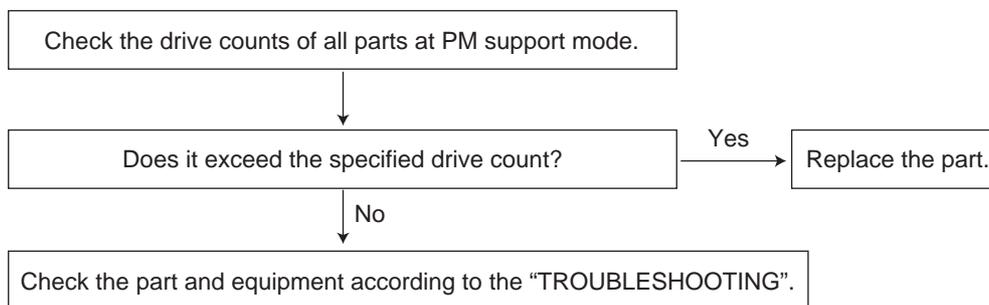
7.5 EPU Replacement Mode (7S)

7.5.1 General description

As this equipment complies with the ERU (Easy Replacement Unit) rule, the EPUs (drum/cleaner unit, developer unit) of this equipment can be removed or reinstalled easily.

When each EPU is replaced with a new unit at PM, the IC chip in the EPU board installed at the bottom of the developer unit detects whether a new or an old unit is installed. When the IC chip memory judges that the installed unit is a new one, the series of operations required at the replacement (counter reset for supply items in the EPU, auto-toner sensor initial adjustment and automatic gamma adjustment) is smoothly performed.

Notes:
   If only the supply items in the EPU at PM are to be replaced, perform the life counter reset for each supply item; if developer material is to be replaced, perform the auto-toner sensor adjustment and the automatic gamma adjustment in the PM support mode as described in Chapter 5.

7.5.2 Operation flow

The following is the operation flow.

Advance preparation

A4/LT size papers need to be loaded in the cassette for automatic gamma adjustment. Before performing the EPU replacement mode, load the A4/LT size papers into the cassette, then set the cassette paper size.

7

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
PREVENTIVE MAINTENANCE (PM)

	Operation flow	Display transition of control panel	Behavior flow of equipment
Step 0	Load A4 or LT size paper into the cassette, set the cassette paper size, then turn OFF the power.		
	Remove the used EPU from the equipment. Set the developer material in the developing part of the new EPU. Set the EPU in the equipment, then close the front cover.		
Step 1	Turn ON the power while pressing [7] and [START] buttons.		Starts EPU replacement mode
		Test mode	Automatic toner adjustment
	The authentication screen is displayed. Press the [OK].	about 2 min. Adjustment mode	Rewrites IC chip "New" -> "Used"
	Press the [OK] on the confirmation screen displayed. "Start EPU replacement mode. Press [OK]."		Clears counters of consumables in the EPU
	Start auto-toner sensor adjustment.	Open the front cover and set the toner cartridge. Close the cover.	
Step 2	Open the front cover, then set the toner cartridge.		
	Press [OK].	Press [OK].	
		Set A4/LT paper in the drawer and press [OK]. If it cannot be set, press [CANCEL] to finish the adjustment.	
Step 3	Press [OK].		Prints the gamma chart
		Place the printed chart with its face down and the darkest area to the left. Then close the original cover or the ADF and press [OK].	
Step 4	Place the printed gamma chart on the original glass, then press [OK].		Reads the gamma chart, then performs automatic gamma adjustment
		Test mode Press and hold the [POWER] button until the power is turned OFF.	Power off
Step 5	Press the [ON/OFF] button for a few seconds.		

Fig. 7-6

7.5.3   Counters to be cleared

- 08-6250: Drum counter
- 08-6258: Drum cleaning blade counter
- 08-6274: Main charger grid counter
- 08-6282: Needle electrode counter
- 08-6272: Drum separation finger counter
- 08-6436: Recovery blade counter
- 08-6300: Developer material counter
- 08-6194: K-PM counter current value
- 08-6195: K-PM time counter current value
- 08-5568: Developer material-K PM counter current value
- 08-5569: Developer material-K PM time counter current value

7.5.4   Precautions

- When the power is turned ON in the normal mode or during warming-up in the normal mode, the error code C3D1 appears after a new EPU unit (with new IC chip data) is installed. This indicates that the installed EPU unit has not been set up. Turn the power OFF and then back ON while pressing the digital key [7] and the [START] button simultaneously. Then the equipment enters the EPU replacing mode.

- When the power is turned ON while pressing the digital key [7] and the [START] button simultaneously, the error code C3D2 appears after an old EPU unit (with old IC chip data) is installed. This is for preventing the equipment from detecting that the installed unit is a new one and performing wrong operations such as supply item counter reset. In this case, turn the power OFF and then back ON in the normal mode. The equipment returns to its normal operations.

- If IC chip information is not written as "used IC chip" in step 1, an error (C3D0) is displayed. If it occurs, perform the maintenance of each part according to the Troubleshooting.

- If you press [CANCEL] in step 3, the EPU replacement mode ends without automatic gamma adjustment being performed.

- If [Adjustment error Press [OK] to perform the adjustment again or [CANCEL] to finish it.] is displayed in step 4, this means that the automatic gamma adjustment has failed. Check that the original is placed on the original glass in the correct direction, and press [OK] to start the adjustment again. If you press [CANCEL], the adjustment is cancelled and the EPU replacement mode ends.

- If automatic gamma adjustment is not performed in the EPU replacement mode, the default gamma slope angle is used. To obtain optimal image quality, perform the adjustment according to the procedure in the "Automatic gamma adjustment" in the chapter of "Image Quality Adjustment".

- If the EPU replacement mode does not function, check that the value of 08-4556 (Detection setting of new or old EPU) is set to "1: Enabled". If this value is set to "0: Disabled", the EPU replacement mode does not function.

7

7.5.5 To allow the equipment to detect a recycled unit as a new one after replacement

To recycle an old EPU after replacement and also let the equipment detect that it is a new one, the supply items in the EPU and the IC chip data in the EPU board must be replaced.

In this case, the EPU board itself must be replaced with a new one (service part) or the IC chip data must be overwritten using a jig.

If the EPUs are replaced in the PM support mode instead of the EPU replacing mode noted in this chapter, the replacement of the EPU board and the overwriting of the IC chip data are not necessary.

Information in the IC chip can be confirmed with 08-4555 (Information check of new or old EPU memory). The display of [0xff00(NEW)] indicates a new IC chip while [0x00ff(OLD)] indicates a used one. A hexadecimal value ending with "-" indicates that invalid data have been entered. In this case, rewriting with a jig is required.

7.6 Fuser Unit Status Detection Mode

7.6.1 General description

As this equipment complies with the ERU provisions (Easy Replacement Unit), the fuser unit can be removed or reinstalled without any problem.
The fuse (service part) for detection of a new fuser unit can be installed in the unit. The circuit determining the fuser unit status judges whether the fuser unit is new or used by detecting the status of the fuse. In addition, when the circuit detects that a new fuser unit is connected, it supplies current to blow out the fuse to clear the fuser-related life counters.

> **Notes:**
> If only the supply parts in the fuser unit are to be replaced at PM, perform life counter clearing for each one in the PM support mode as described in this chapter.

7.6.2 Operational flow

(1) When replacing supply parts or the fuser unit at PM, install a new fuse in it.

> **Notes:**
> If a fuser unit with an installed fuse is selected, replace that the fuse with a new one because it will have been blown out.

(2) Install the fuser unit in the equipment.
(3) Turn the power ON. If the fuser unit is then judged determined to be new, the fuser-related life counters are automatically cleared.

7.6.3 Counters to be cleared

- 08-6346: Fuser roller counter
- 08-6350: Pressure roller counter
- 08-6368: Fuser roller separation finger counter
- 08-6225: Number of output pages (Thick paper 1)
- 08-6226: Number of output pages (Thick paper 2)
- 08-6227: Number of output pages (Thick paper 3)
- 08-6228: Number of output pages (OHP film)
- 08-6247: Counter for envelopes
- 08-6244: Counter for tab paper

7.6.4 Precautions

- When the counters are not cleared, though the fuser unit is new, check that the value of the code 08-4549 is set at "0". If the value is "1", change it to "0", turn the power OFF and then back ON. Then check the counter values again.
  08-4549 (Detection setting of new or old fuser unit) 0: Enabled, 1: Disabled

- When the fuse is not blown out, though the fuser unit is new, a C4C0 error occurs. In this case, replace the fuse and turn the power OFF and then back ON, or remove the fuse and clear the counters in the PM support mode.

7

7.7 Preventive Maintenance Checklist

The following is the check items of each unit at preventive maintenance.

Symbols/Values used in the checklist

Cleaning	Lubrication/Coating	Replacement	Operation check
A: Clean with alcohol B: Clean with soft pad, cloth or vacuum cleaner	L: Launa 40 SI: Silicon oil W1: White grease (Molykote EM-30L) W2: White grease (Molykote HP-300) AV: Alvania No.2 FL: Floil (GE-334C) CG: Conductive grease (KS-660) C: Coating material (SANKOL CFD-409M)	Value: Replacement cycle R1: Replacement R3: Replace if deformed or damaged.	○ After cleaning or replacement, confirm there is no problem.

Notes:

- Perform cleaning and lubricating in the following timing. Lubricate the replacement parts according to the replacement cycle.

Model		Replacement cycle
e-STUDIO206L	e-STUDIO207L	every 80,000 sheets
e-STUDIO256	e-STUDIO257	every 100,000 sheets
e-STUDIO306	e-STUDIO307	every 120,000 sheets
e-STUDIO356	e-STUDIO357	every 125,000 sheets
e-STUDIO456	e-STUDIO457	every 150,000 sheets
e-STUDIO506	e-STUDIO507	every 150,000 sheets

- Values under "Replacement" indicate the replacement cycle for the e-STUDIO206L/256/306/356/456/506 / e-STUDIO207L/257/307/357/457/507.
- The replacement cycle of the parts in the feeding section equals to the number of sheets fed from each paper source.
- Be careful not to put oil on the rollers, belts and belt pulleys when lubricating.

7.7.1 Scanner

e-STUDIO206L/256/306/356/456/506
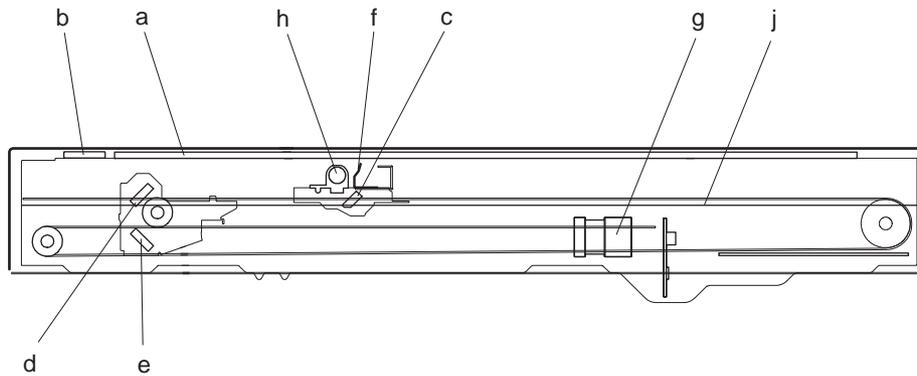
Fig. 7-7

e-STUDIO207L/257/307/357/457/507
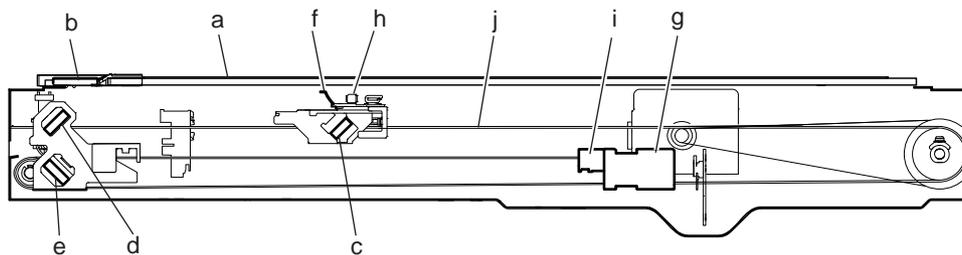
Fig. 7-8

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <P-I>
a	Original glass	A or B				22-3
b	ADF original glass	B				22-1
c	Mirror 1	B				
d	Mirror 2	B				
e	Mirror 3	B				
f	Reflector	B				23-5
g	Lens	B				12-13
h	Exposure lamp			R3	○	23-3
i	Automatic original detection sensor	B			○	12-16
j	Slide sheet (front and rear)	B		R3		15-1

*   a, b. Original glass/ADF original glass
     Clean both sides of the original glass and ADF original glass.

Notes:
   Make sure that there is no fingerprints or oil staining on part of the original glass on where the original scale is mounted since the shading correction plate is located below the scale to be scanned.

7.7.2　Laser optical unit

e-STUDIO206L/256/306/356/456/506
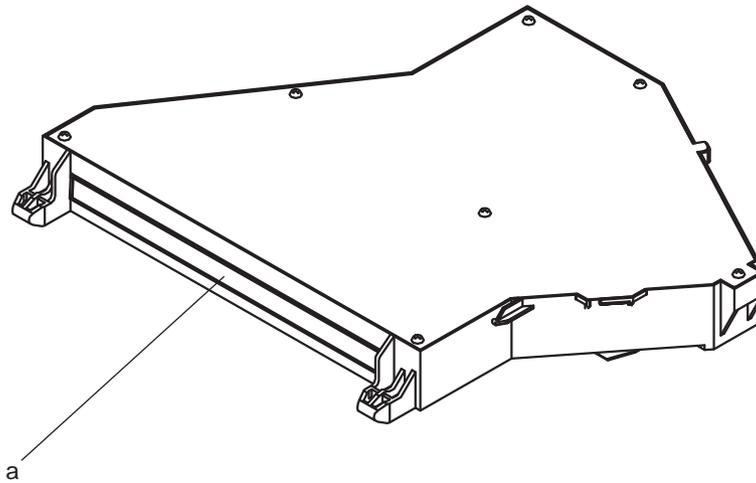
Fig. 7-9

e-STUDIO207L/257/307/357/457/507
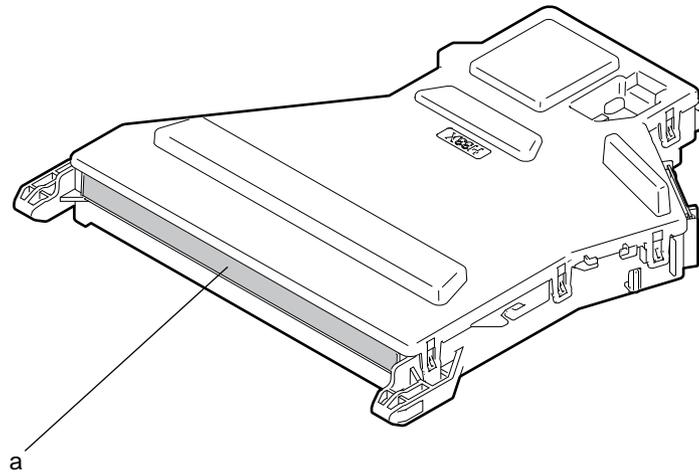
Fig. 7-10

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <P-I>
a	Slit glass	B				

7.7.3 Paper feeding section
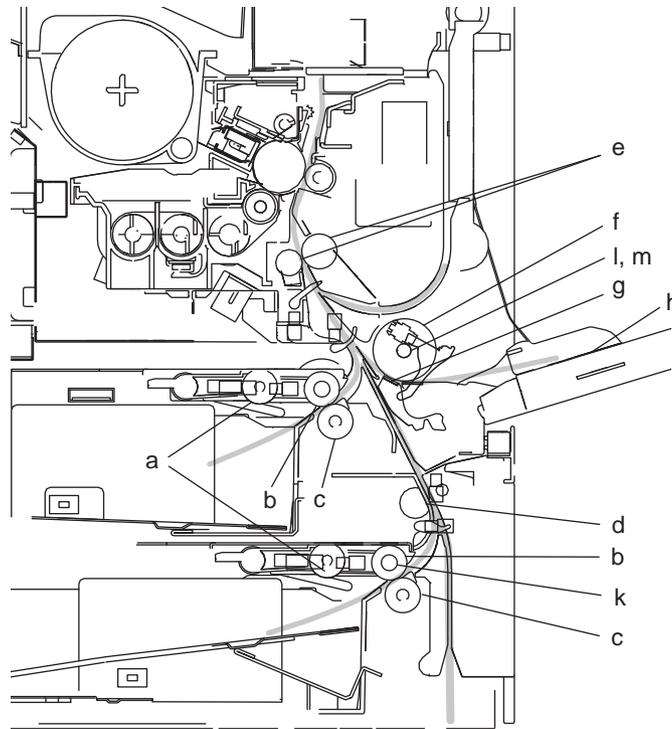
Fig. 7-11

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <P-I>
a	Pickup roller			R1 80/80/80/80/80/80		17-20
b	Feed roller			R1 80/80/80/80/80/80		17-27
c	Separation roller		AV, W2	R1 80/80/80/80/80/80		17-6
d	Transport roller (1st/2nd)	A		R3		18-3 18-18
e	Registration roller	A		R3		13-17 21-1
f	Bypass Feed roller			R1 80/80/80/80/80/80		20-5
g	Bypass Separation pad		AV, W2	R1 80/80/80/80/80/80		20-4
h	Bypass tray	B				
i	Paper guide	B				
j	Drive gear (tooth face and shaft)		W1			
k	Plastic bushing bearing		W1			
l	Bypass drive gear (shaft)		W1			
m	Bypass GCB bushing bearing		L			20-8

*   c. Separation roller
     Apply an even coat of grease (Alvania No.2) to all round the inside of the spring.
     When replacing the separation roller, apply adequate amount of white grease (Molykote HP-300)
     on the places of the holder shown in the figure (4 places).

   Notes:
     Make sure that the grease does not adhere to the roller surface. Wipe it off with alcohol if
     adhered.

Apply grease on the inner surface
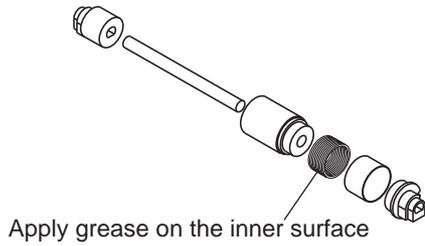
Fig. 7-12
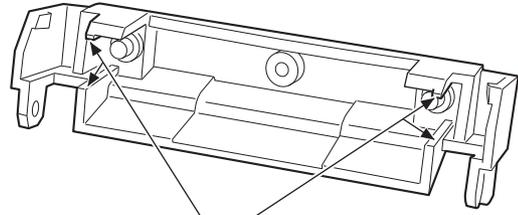
Apply white grease

Fig. 7-13

*   e. Registration roller (Pusher)
     Apply 2 rice-sized grains of white grease (Molykote EM-30L) to the 2 contact points of the
     registration roller (rubber) and the pusher.

Registration roller

Grease

Pusher
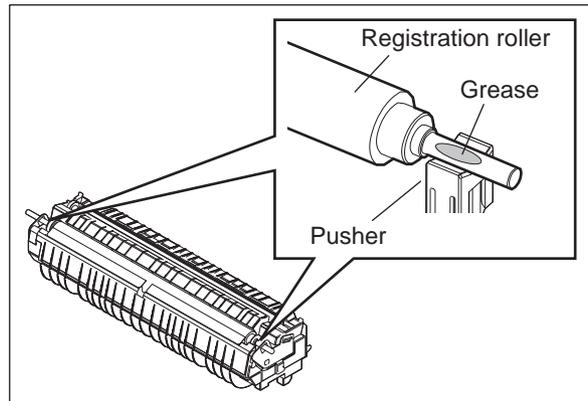
Fig. 7-14

* j, l. Drive gears in the paper feeding section (teeth of gears and shafts)
      Apply some white grease (Molykote EM-30L) to the teeth of gears and shafts of the drive gears.
      When disassembling the driving section and applying grease at PM, follow the notes as below.
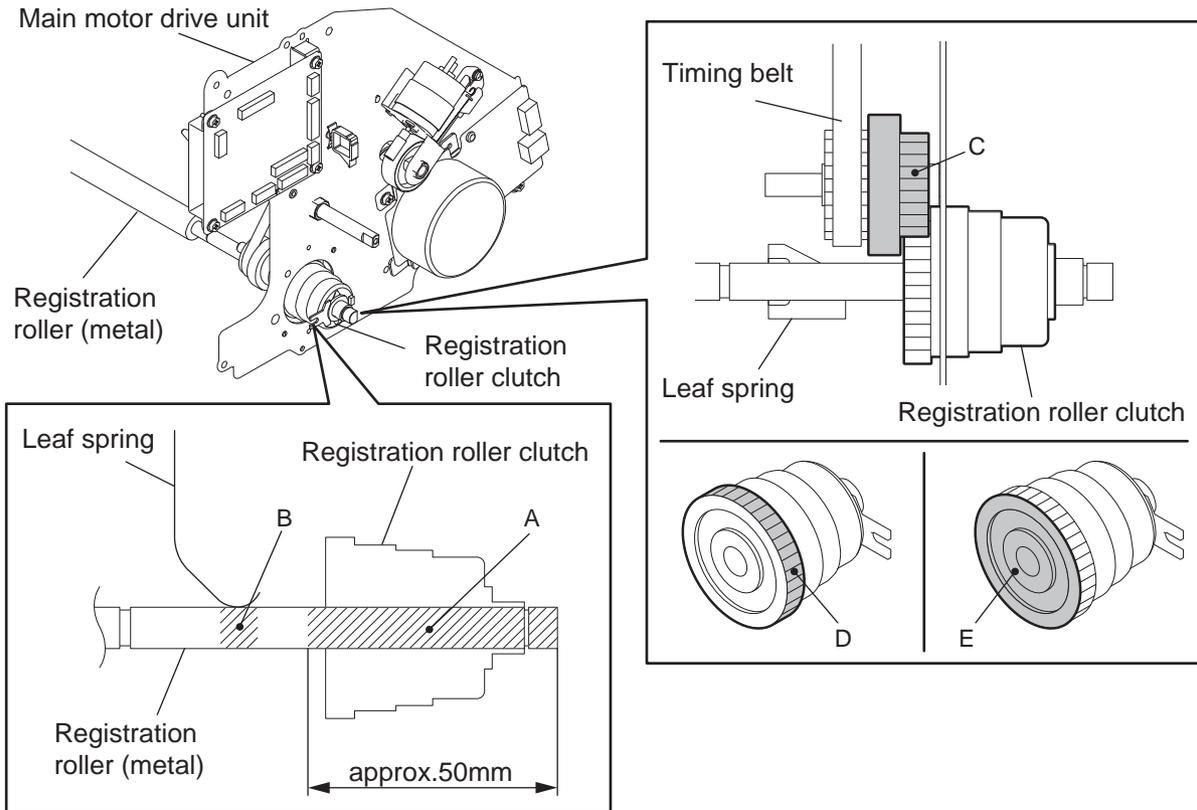
Fig. 7-15

A: Do not apply grease to the installation section of the registration roller clutch. Wipe off any grease.
B: Do not wipe off the conductive grease applied to the contact section of the leaf spring and the registration roller (metal).
C: Do not apply grease to gear teeth which contact the registration roller clutch gear.
D: Apply a blob of grease (the size of a rice grain) to the gear teeth of the registration roller clutch. Be careful not to use too much.
E: Do not apply grease to the side of the registration roller clutch gear. Wipe off any grease.

Notes:
      Make sure that oil is not running over or scattered around as the gear is rotated coming into the clutch after applying Molykote to the gear which is located near the clutch. The quantity of Molykote should be smaller than that to be applied to the other parts.

7.7.4 Drum related section
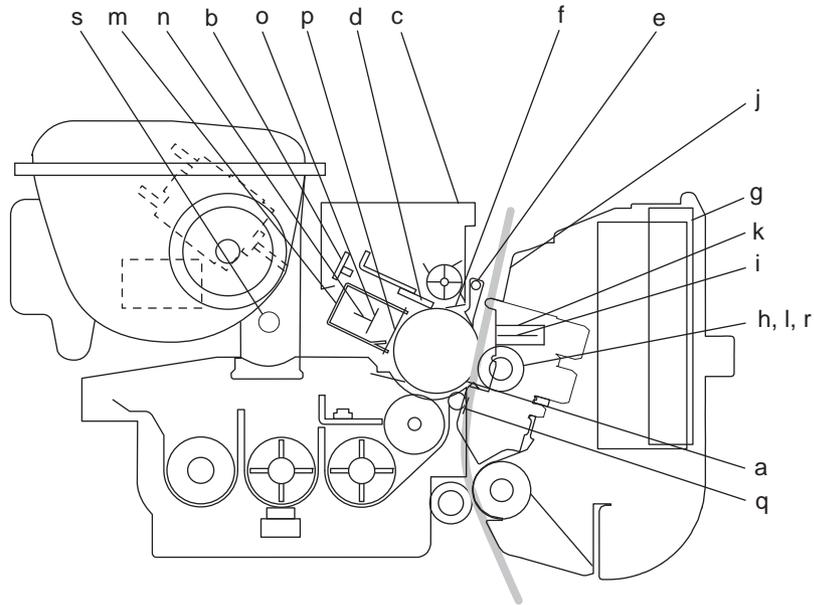
Fig. 7-16

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <P-l>
a	Photoconductive drum			R1 80/100/120/125/ 150/150		
b	Discharge LED	B				
c	Whole cleaner unit	B				
d	Drum cleaning blade			R1 80/100/120/125/ 150/150		27-8
e	Separation finger for drum			R1 80/100/120/125/ 150/150		27-12
f	Recovery blade	B		R1 80/100/120/125/ 150/150		27-10
g	Ozone filter			R1 240/200/240/250/ 300/300		13-14
h	Transfer roller			R1 80/100/120/125/ 150/150		26-5
i	Separation needle	B		R3		26-11
j	Transfer guide	B				
k	Separation cover	B				26-12
l	Transfer roller guide roller	B				26-8
m	Main charger case	B				
n	Needle electrode			R1 80/100/120/125/ 150/150		25-6

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <P-I>
o	Main charger wire cleaner			R3	○	27-8
p	Main charger grid			R1 80/100/120/125/ 150/150		25-11
q	Front-transfer guide	B				
r	Transfer roller gear	B				26-9
s	Toner cartridge drive gear shaft		W1			
t	Contact point of terminals	B				

*   d. Drum cleaning blade
Since the edge of the blade is vulnerable and can be easily damaged by factors such as the adherence of paper dust. Replace the cleaning blade with new ones if poor images are printed due to the damaged blade regardless of the number of output pages if which have been made.

*   e. Separation fingers for drum
The paper jam may be caused if the tip of the separation finger is damaged or deformed. If there is any problem with it, replace the finger with a new one regardless of the number of output pages which have been made.
If any mark which was made by the finger appears on the printed image, clean the tip of the finger.

Notes:
  • Wipe the tip of the finger lightly with a dry cloth trying not to deform it.
  • Do not leave the lint on the tip.
  • Apply patting powder to the tip of the fingers and drum surface after replacing or cleaning them to reduce the load on the drum surface by the finger.

*   f. Recovery blade
Replace the recovery blade regardless the number of output pages if the edge of the blade get damaged.

When cleaning the inside of the cleaner unit, be careful of the following in order not to damage the film attached on the toner recovery auger:
  • Do not use an air blower for cleaning (Use a vacuum cleaner).
  • When using a vacuum cleaner, be careful not to hit the nozzle of the vacuum cleaner to the film.
  • When rotating the toner recovery auger, rotate it only in the same direction as that for transporting toner.

*   h. Transfer roller
If there is damage on the roller, replace it even if the replacement time has not come.

*   i. Separation needle
When cleaning the separation needle, be careful not to bend the needlepoint or leave lint on the needlepoint. If removing the dust is difficult, use brush to remove it.

*   j. Transfer guide
If there is paper dust in the whole transfer unit including the transfer guide, wipe them with a dry cloth. If the transfer guide is removed, clean the wall inside the unit.

7

* m, n. Main charger case/Needle electrode
    Clean the main charger case with a cloth soaked in water and squeezed tightly, and then wipe them with a dry cloth.
    Clean the needle electrode only with the main charger cleaner.
    Replace the needle electrode with a new one if it is damaged regardless of the number of output pages which have been mode.
  Notes:
    Do not touch the needle electrode with your bare hand when attaching the needle electrode.

7.7.5   Developer section
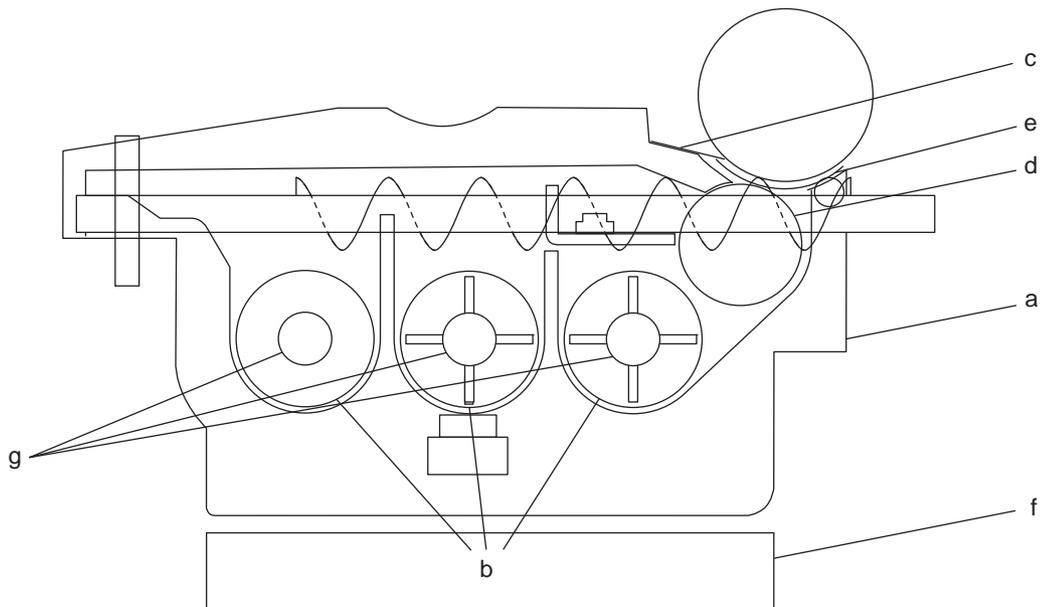
Fig. 7-17

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <P-I>
a	Whole developer unit	B				
b	Developer material			R1 80/100/120/125/ 150/150		
c	Front shield	B		R3		28-32
d	Guide roller	B				29-17
e	Side shield	B		R3		28-30 28-31
f	Developer unit lower stay	B				
g	Oil seal (6 pcs.)		AV	R1 480/600/720/750/ 900/900		28-1 29-8 29-12

*   a. Do not use alcohol for cleaning the developer unit.

*   b. Developer material
      After replacing the developer material, be sure to perform the auto-toner adjustment.
      📖 P. 6-2 "6.2 Adjustment of Auto-Toner Sensor"

*   g. Oil seal
      Mixer unit (Shafts of mixers 1, 2 and 3) 6 pcs.

During replacement, coat the oil seal with grease (Alvanian No.2).

(1)   Push in a new oil seal parallel to the mounting hole section of the developer frame or outside of the holder.
     *   Pay attention to the direction in which the oil seal is attached. (See figure on right.)
(2)   Apply an even coat of grease to the inside of the oil seal.
     •   Amount: About two small drops
(3)   Wipe off any grease the exudes from the inside.

Fig. 7-18

7
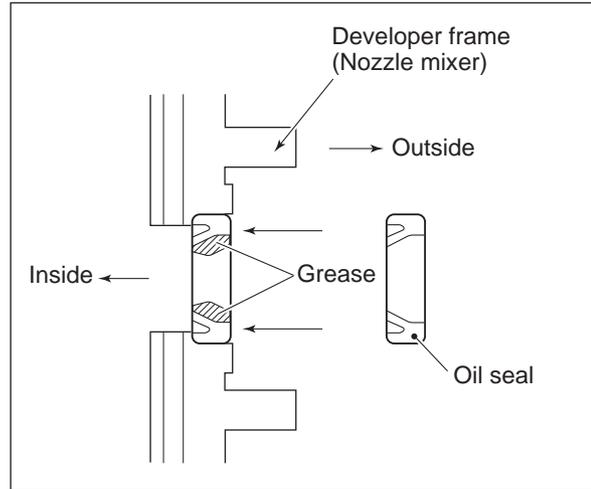
7.7.6 Fuser unit
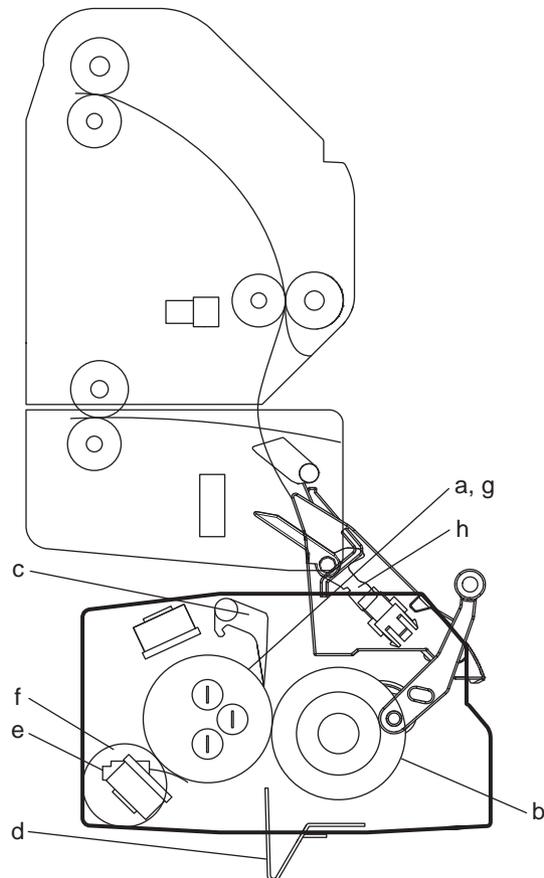
Fig. 7-19

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <P-I>
a	Fuser roller	A (*1)	W2	R1 240/200/240/250/300/300		31-15
b	Pressure roller	A (*1)		R1 240/200/240/250/300/300		32-8
c	Separation finger for fuser roller	A		R1 240/200/240/125/150/150		31-22
d	Fuser unit entrance guide	A				32-11
e	Thermistor (3 pcs.)	A		R3		31-12 31-13
f	Drive gear (tooth face and shaft)		W2	R3		31-11
g	Fuser roller gear			R3		31-18
h	Exit sensor actuator	A				32-25

* a. Fuser roller

When replacing the fuser roller, apply small amount of grease on the inside of fuser roller bearings.
Do not deform or damage the fuser roller during the cleaning.
(*1) The model for the cleaning is e-STUDIO207L/257/307/357/457/507.

* b. Pressure roller

Do not deform or damage the pressure roller during the replacing.
Do not deform or damage the pressure roller during the cleaning.
(*1) The model for the cleaning is e-STUDIO207L/257/307/357/457/507.

* c. Separation fingers for fuser roller

The paper jam may be caused if the tip of the finger is damaged or deformed. If there is any problem with it, replace the finger with a new one regardless of the number of output pages which have been made. Do not damage the tip of the finger during the cleaning. The finger may be damaged if the toner adhering to the tip of it is scraped off forcibly. Replace the finger if the toner is sticking to it heavily.

* e. Thermistor

Clean the thermistor with alcohol if the toner or dirt is sticking to it when the fuser roller is replaced.
Do not deform or damage the thermistor during the cleaning. Replace the thermistor with a new one if it is damaged or deformed regardless of degree.

* h. Exit sensor actuator

If toner has adhered, wipe it off with alcohol.

7

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
PREVENTIVE MAINTENANCE (PM)

7.7.7 Paper exit section / Reverse section
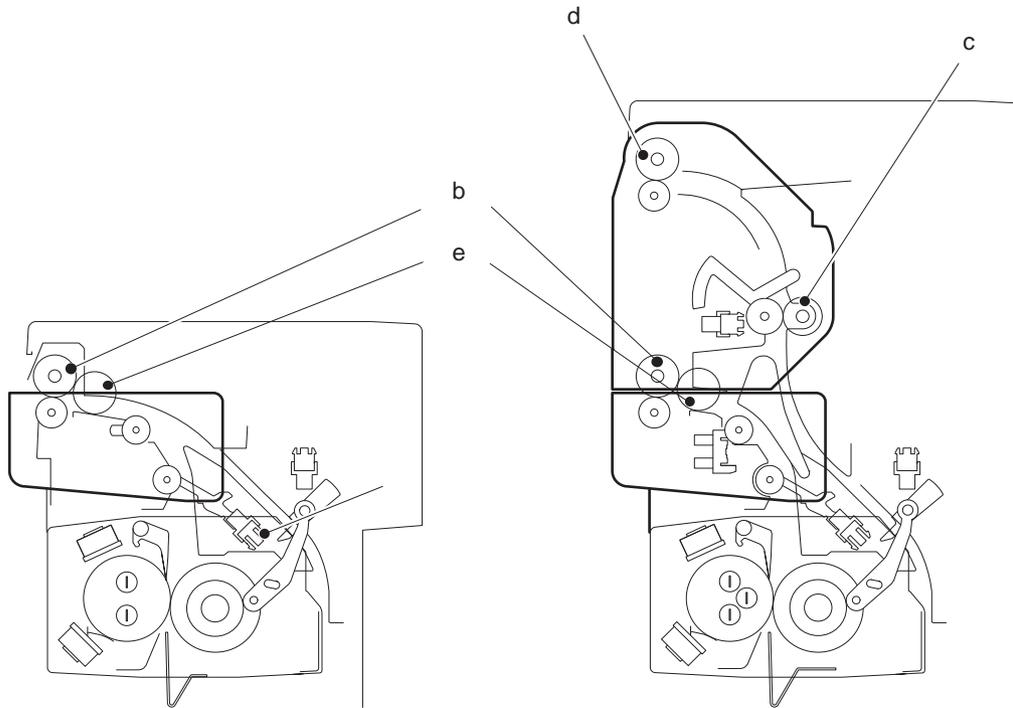
[e-STUDIO206L/256/306]　　　　　　　　　　　　[e-STUDIO356/456/506]
[e-STUDIO207L/257/307]　　　　　　　　　　　　[e-STUDIO357/457/507]

Fig. 7-20

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <P-I>
a	Exit/reverse guide	A				
b	Exit roller	A		R3		33-3
c	Transport roller	A		R3		34-8
d	Reverse roller	A		R3		34-15
e	Drive gear		SI			33-19
f	Conductive bushing		CG			33-6

*   c, d. e-STUDIO356/456/506 / e-STUDIO357/457/507 only

7.7.8   Automatic duplexing unit
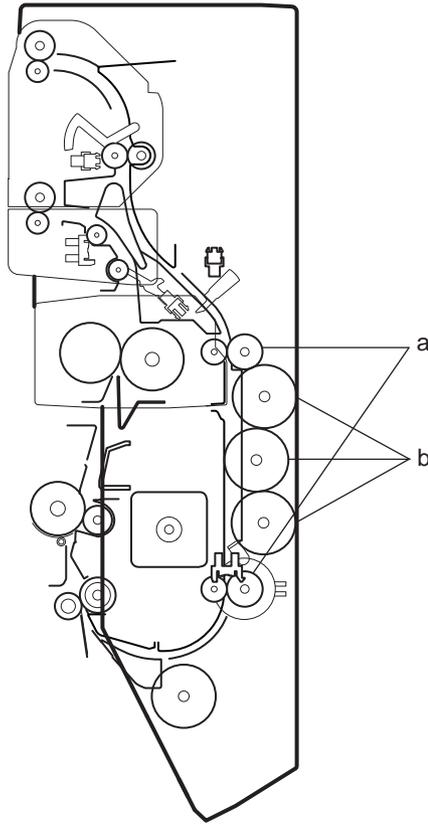
Fig. 7-21

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <P-I>
a	Transport roller (upper and lower)	A		R3		35-2 35-3
b	Drive gear		W1			35-17 35-18

7.7.9   PFP (KD-1025)
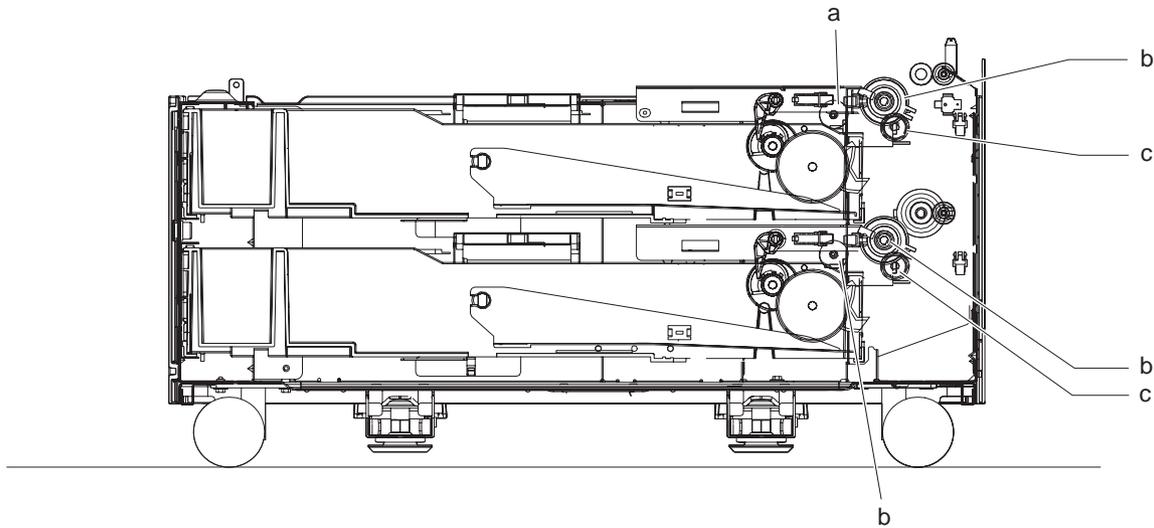
Fig. 7-22

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <P-I>
a	Pickup roller (upper/lower)	A		R1 80/80/80/80/80/80		6-20
b	Feed roller (upper/lower)	A		R1 80/80/80/80/80/80		6-27
c	Separation roller (upper/lower)	A	AV, W2	R1 80/80/80/80/80		6-6
d	Drive gear (tooth face)		W1			

*   c. Separation roller
    Apply an even coat of grease (Alvania No.2) to all round the inside of the spring.
    When replacing the separation roller, apply adequate amount of white grease (Molykote HP-300) on the places of the holder shown in the figure (4 places).

Notes:
Make sure that the grease does not adhere to the roller surface. Wipe it off with alcohol if adhered.
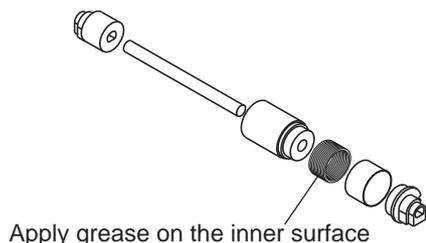
Apply grease on the inner surface
Fig. 7-23
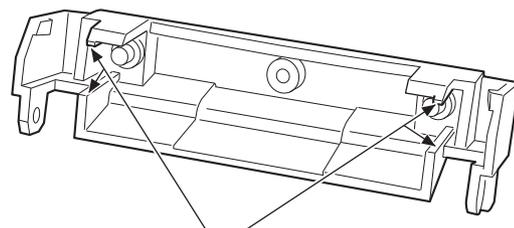
Apply white grease

Fig. 7-24

7.7.10 LCF (KD-1026)
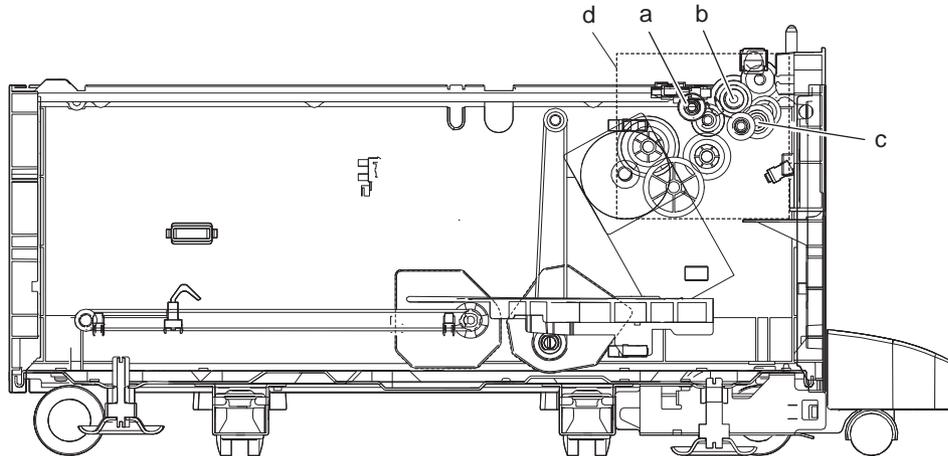
Fig. 7-25

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <P-I>
a	Pickup roller	A		R1 160/160/160/160/ 160/160		
b	Feed roller	A		R1 160/160/160/160/ 160/160		
c	Separation roller	A		R1 160/160/160/160/ 160/160		
d	Drive gear		W1			

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PREVENTIVE MAINTENANCE (PM)

7.7.11 Job separator (MJ-5004)
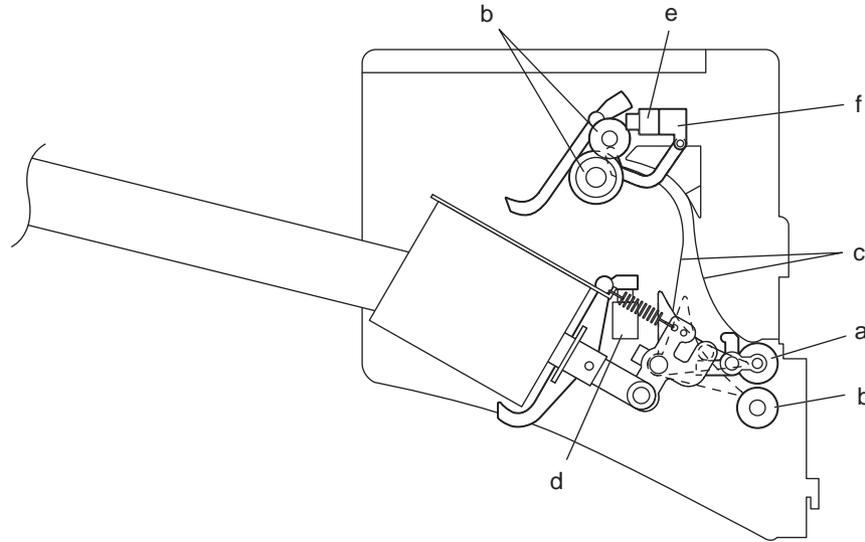
Fig. 7-26

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <P-I>
a	Idling roller	A or B	W1			
b	Other rollers	A or B				
c	Paper guide	A or B				
d	JSP upper stuck sensor	B			O	1-51
e	JSP lower stuck sensor	B			O	1-12
f	JSP paper jam sensor	B			O	

* a. Idling roller
   Apply one-rice-grain-amount of white grease (Molykote EM-30L) to each part A in the figure below.
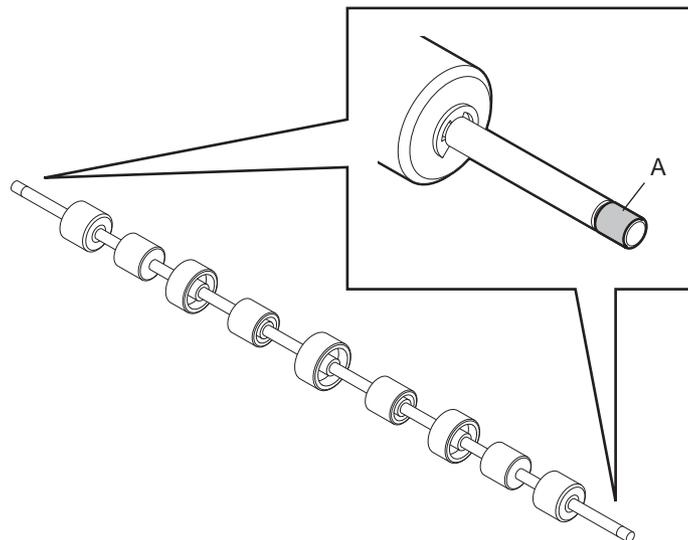
Fig. 7-27

7.7.12 Offset tray (MJ-5005)
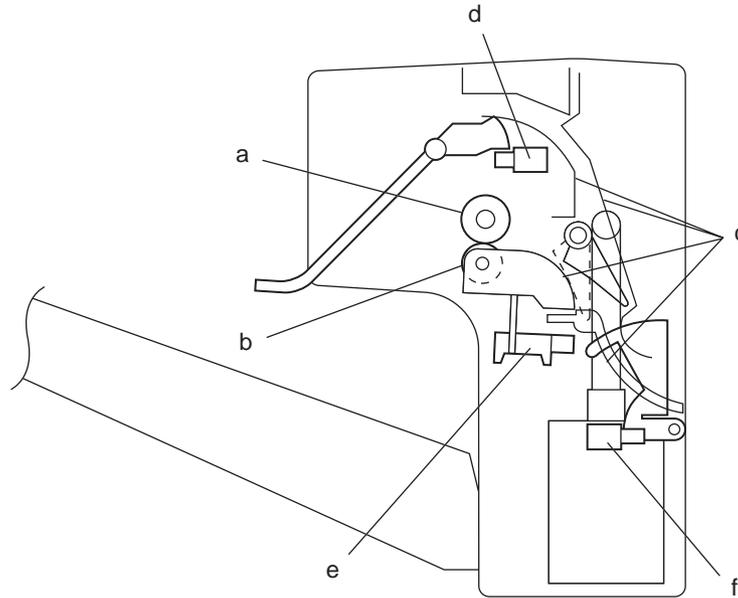
Fig. 7-28

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <P-I>
a	OCT separator roller	A or B	W1, FL			2-22
b	Other rollers	A or B				2-39
c	Paper guide	A or B				
d	OCT stuck sensor	B			○	1-13
e	OCT home position sensor	B			○	
f	OCT feed sensor	B			○	

*   a. OCT separator roller
    Apply one-rice-grain-amount of FLOIL (GE-334C) to the part A in the figure below. Also apply three-rice-grain-amount of white grease (Molykote EM-30L) to each part B.
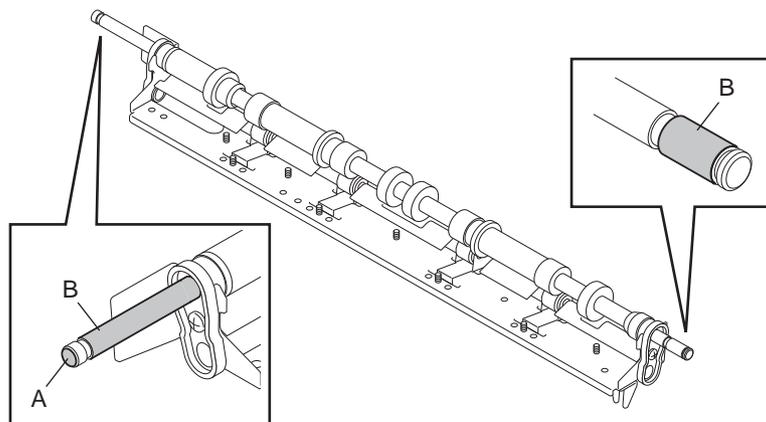
Fig. 7-29

7.7.13 RADF (MR-3021/3022/3028)
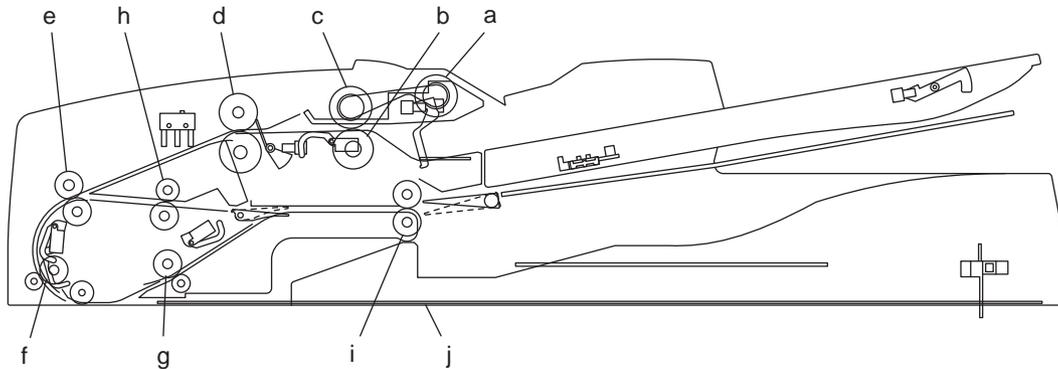
Fig. 7-30

	Items to check	Cleaning	Lubrication/ Coating	Replacement (x 1,000 sheets)	Operation check	Parts list <P-I>
a	Pickup roller	A		R1 120		5-1
b	Separation roller	A		R1 120		4-10
c	Feed roller	A		R1 120		5-1
d	Registration roller	A				
e	Intermediate transfer roller	A				
f	Front read roller	A				
g	Rear read roller	A				
h	Reverse registration roller	A				
i	Exit/reverse roller	A				
j	Platen sheet	A or B				

7.7.14 Finisher (MJ-1032)

Item	Interval	Description	Remarks
Transport roller	Every 30,000 of paper feeding times	Cleaning	Wipe with a cloth soaked in water and then tightly squeezed.
Small roller in the paper transport section			
Transport path and guides			
Transport path sensor			Wipe with a dry cloth.
Grease application to drive unit	As needed	Applying grease	EM-50L
Paper detection sensor	Minimum maintenance interval set for the equipment	Cleaning	Wipe with a dry cloth or alcohol

7.7.15   Finisher (MJ-1033)

Item	Interval	Description	Remarks
Transport rollers	Minimum maintenance interval set for the connected equipment or 300 thousand sheets (rough indication)	Cleaning	Wipe with a cloth soaked in water and then tightly squeezed
Small roller in the paper transport section			
Transport path and guides			
Knurled belt			
Punch waste full sensors (Hole Punch Unit)			Wipe with a dry cloth

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7.7.16 Finisher (MJ-1101/1107)

[Front side]　　　　　　　　　　　[Rear side]
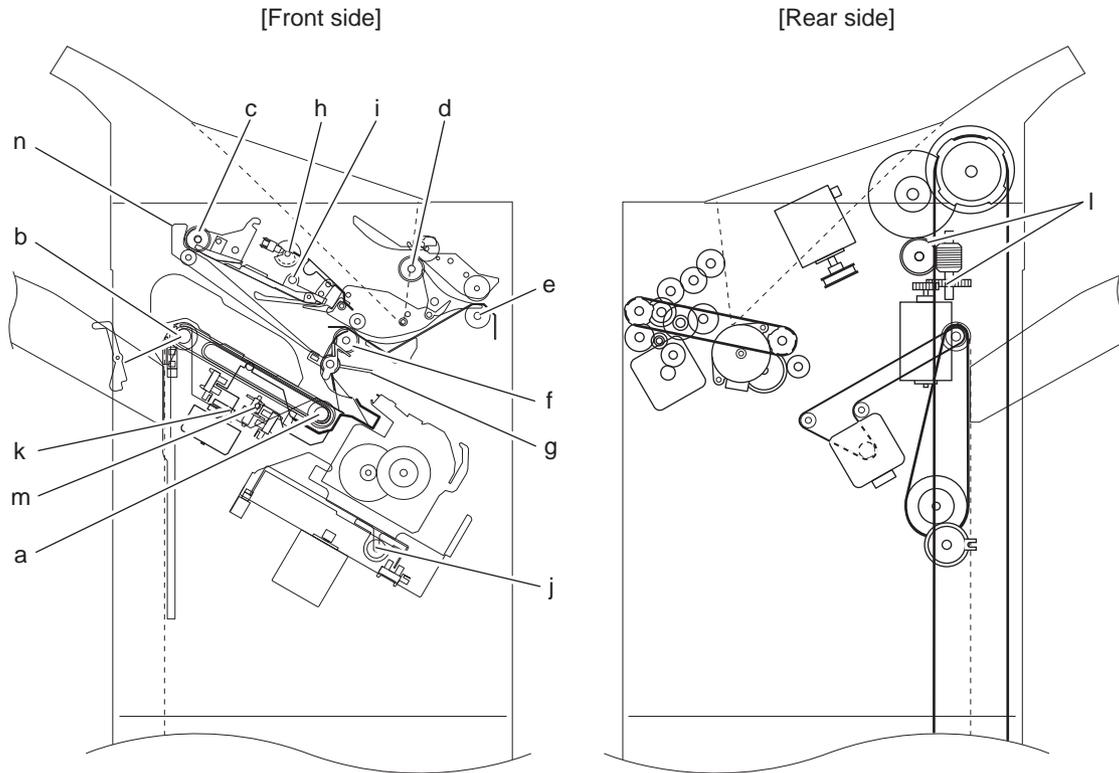
Fig. 7-31

	Items to check	Cleaning	Lubrication	Replacement (x1,000)	Operation check	Parts list (P-I)
a	Stack transport roller-1	A				
b	Stack transport roller-2	A				
c	Buffer roller	A				
d	Exit roller	A				
e	Entrance roller	A				
f	Transport roller	A				
g	Paddle			R1 1,000		
h	Paper holder cam		W3			
i	Buffer tray shaft		W3			
j	Stapler carrier shaft		W3			
k	Rack & pinion gear (Aligning plate)		W3			
l	Movable tray drive gear		W3			
m	Buffer tray guide		W3			
n	Finishing tray shaft		W3			

*h. Paper holder cam
   Apply an adequate amount of white grease (Molykote EM-30L) all around the paper holder cam.

Paper holder cam
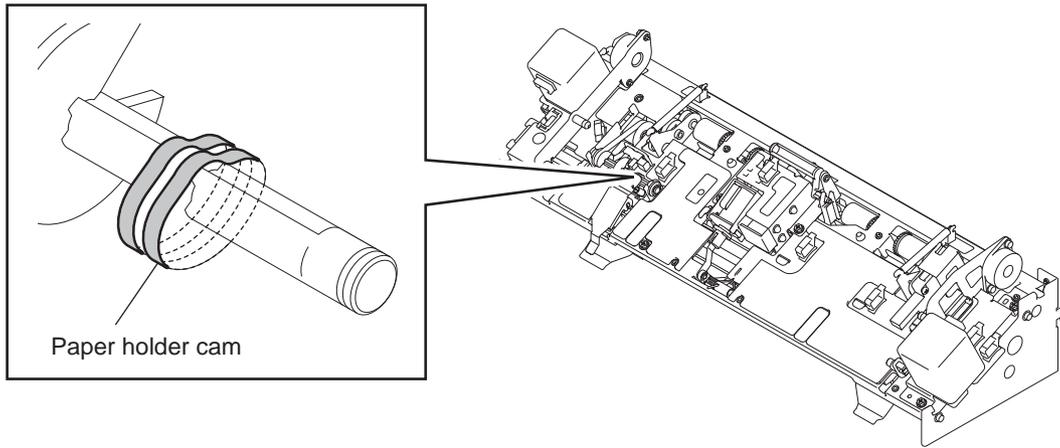
Fig. 7-32

*i. Buffer tray shaft
   Apply an adequate amount of white grease (Molykote EM-30L) to the entire buffer tray shaft.

Buffer tray shaft

Fig. 7-33

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
PREVENTIVE MAINTENANCE (PM)
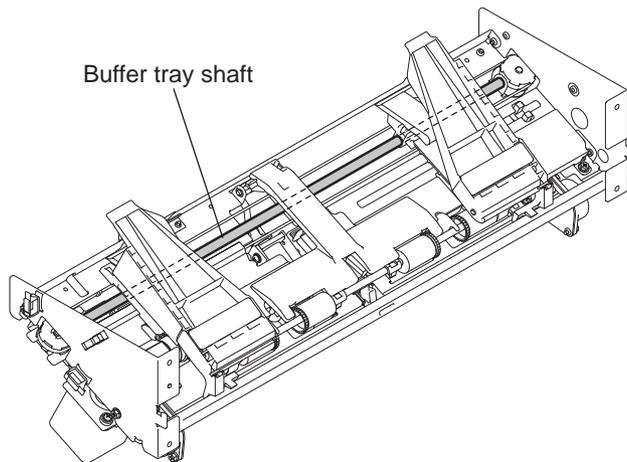
*j. Stapler carrier shaft
   Apply an adequate amount of white grease (Molykote EM-30L) to the entire stapler carrier shaft.

Stapler carrier shaft
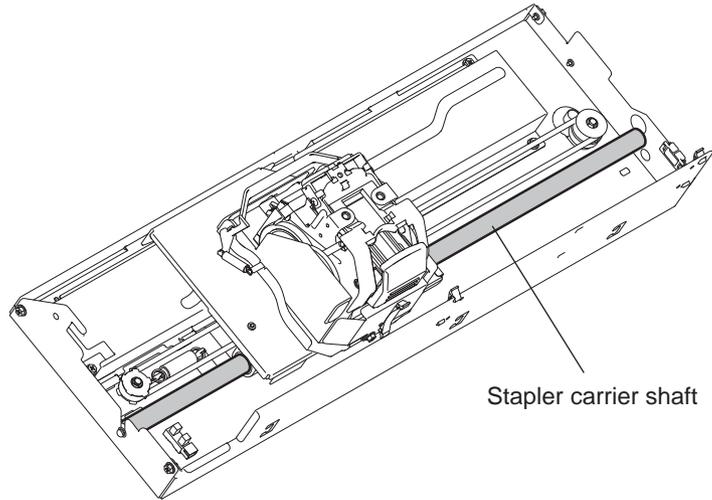
Fig. 7-34

*k. Rack gear, pinion gear (Aligning plate)

*l. Movable tray drive gear
   Apply an adequate amount of white grease (Molykote EM-30L) to the gear teeth of the gear-A and gear-B.

Gear B

Gear A
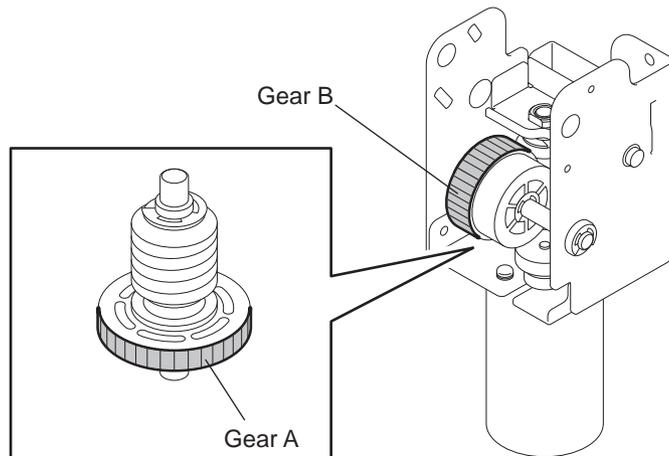
Fig. 7-35

*m. Buffer tray guide

Apply an adequate amount of white grease (Molykote EM-30L) to the entire buffer tray guide (inside of the folded section of the plate).

Buffer tray guide
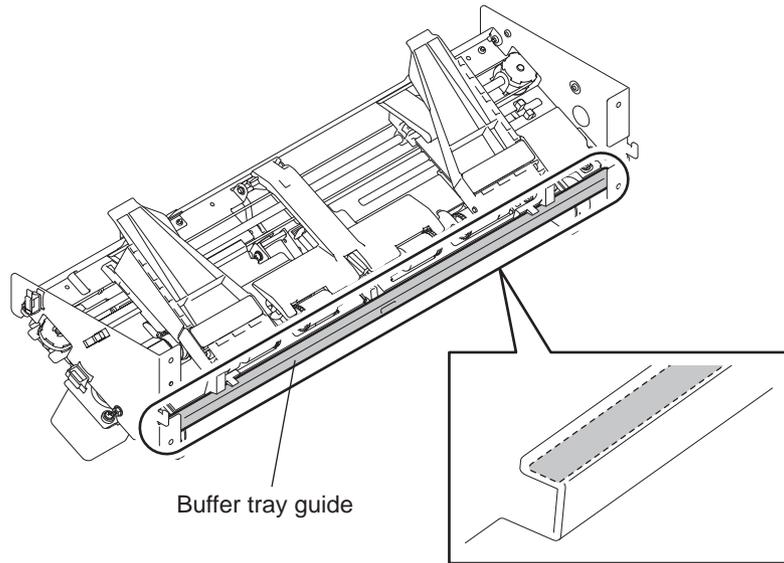
Fig. 7-36

*n. Finishing tray shaft

1. Take off the metal shield plate. If the hole punch unit is installed, take it off beforehand.
2. Apply oil as follows through the opening which shows up when the metal shield plate has been removed.

Apply an adequate amount of white grease (Molykote EM-30L) to the gear teeth of the rack and pinion gears which drive the aligning plate, and the entire finishing tray shaft.

Finishing tray shaft

Rack gear

Pinion gear
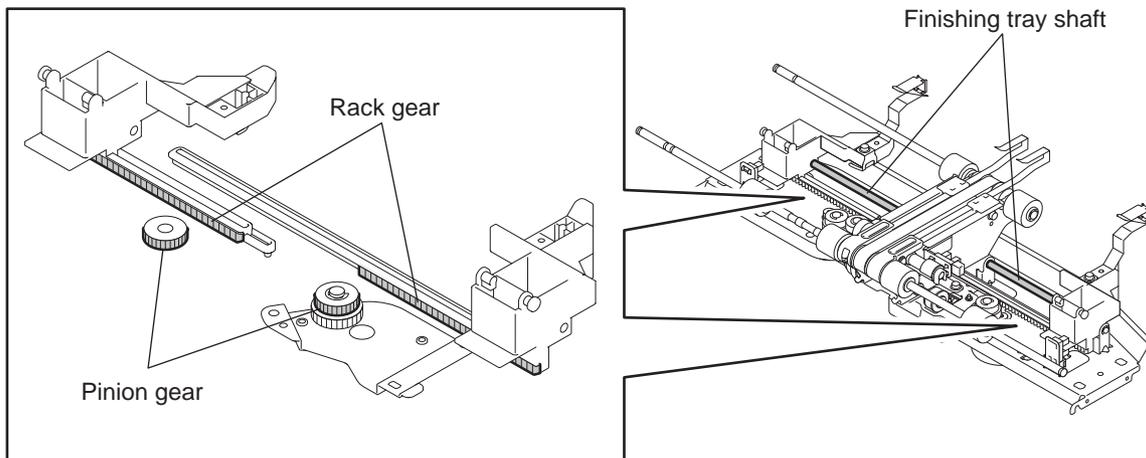
Fig. 7-37

7.7.17 Finisher (MJ-1106/1108)

[Front side]　　　　　　　　　　　　[Rear side]
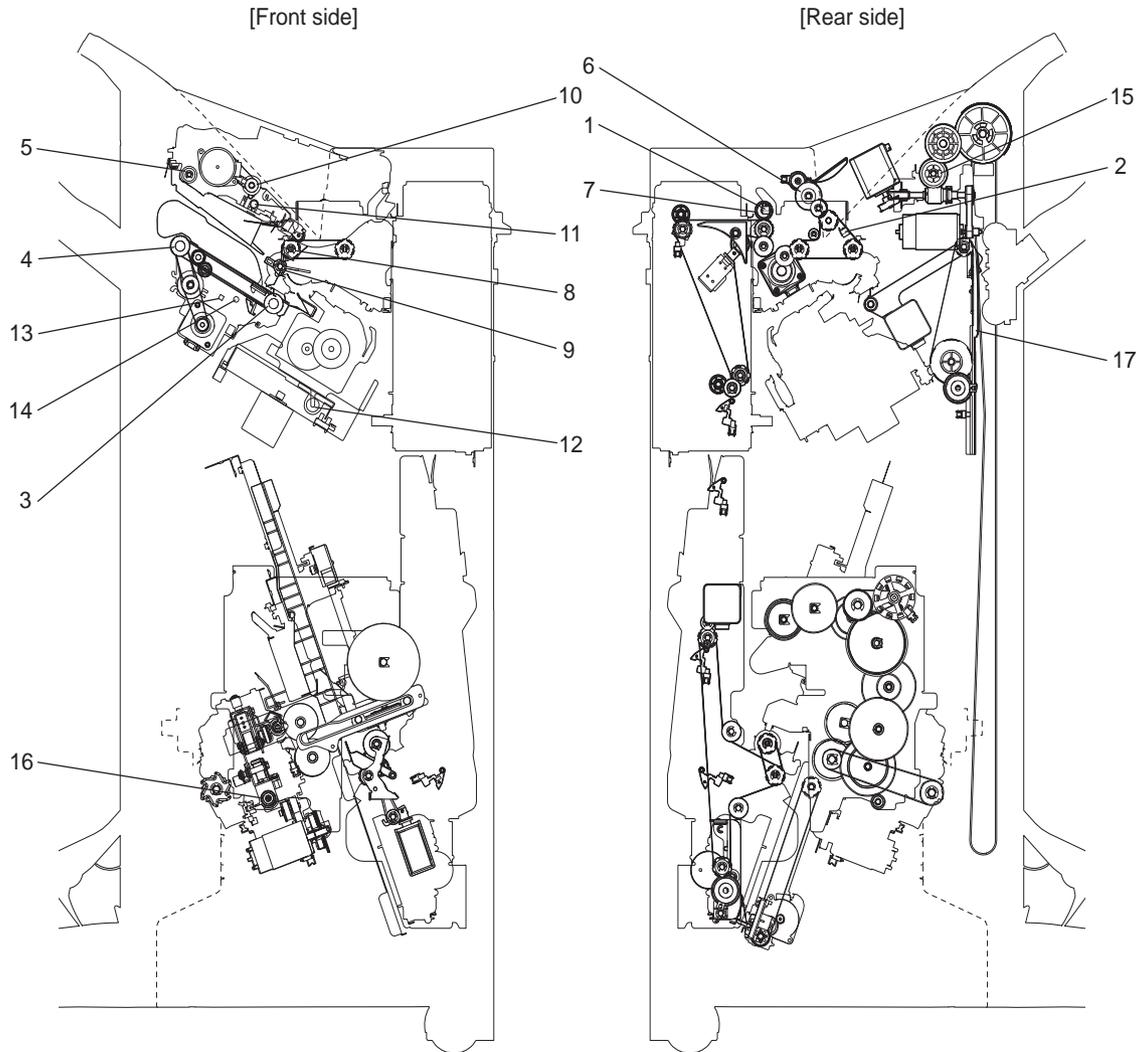
Fig. 7-38

	Items to check	Cleaning	Lubrication	Replacement (x1,000)	Operation check	Parts list (P-I)
	Entrance sensor (S1)	A				
	Transport sensor (S2)	A				
	Stack transport roller-1	A				
	Stack transport roller-2	A				
	Buffer roller	A				
	Exit roller	A				
	Entrance roller	A				
	Transport roller	A				
	Paddle			R1 1,000		
a	Paper pusher cam		W3			
b	Buffer tray shaft		W3			

	Items to check	Cleaning	Lubrication	Replacement (x1,000)	Operation check	Parts list (P-I)
c	Stapler carrier shaft		W3			
d	Rack gear (Aligning plate)		W3			
e	Finishing tray shaft		W3			
f	Movable tray drive gear		W3			
g	Additional folding unit carrier shaft		W3			
h	Grate-shaped guide		C			

*a Paper pusher cam

Apply an adequate amount of white grease (Molykote EM-30L) all around the paper pusher cam [1].
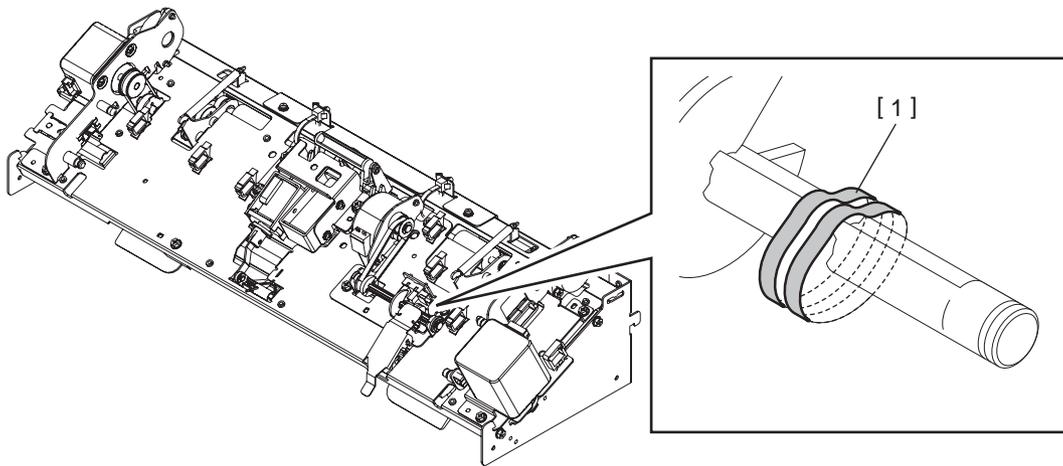
Fig. 7-39

*b Buffer tray shaft

Apply an adequate amount of white grease (Molykote EM-30L) to the entire buffer tray shaft [1].
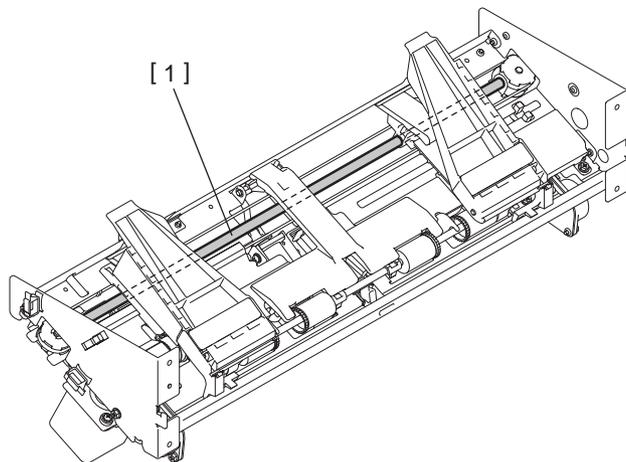
Fig. 7-40

*c Stapler carrier shaft
   Apply an adequate amount of white grease (Molykote EM-30L) to the entire stapler carrier shaft [1].
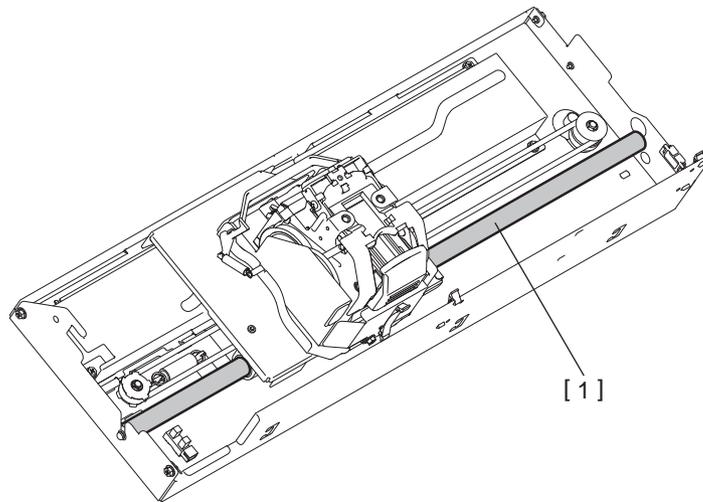
Fig. 7-41

*d Rack gear (Aligning plate)
*e Finishing tray shaft
1. Take off the junction box unit. (Refer to "MJ-1106 Service Manual chapter4.)
   *If the hole punch unit is installed, take it off beforehand.
2. Apply oil as follows through the opening which shows up when the junction box unit has been removed.
   Apply an adequate amount of white grease (Molykote EM-30L) to the gear teeth of the rack gear [1] which drive the aligning plate, and the entire finishing tray shaft [2].
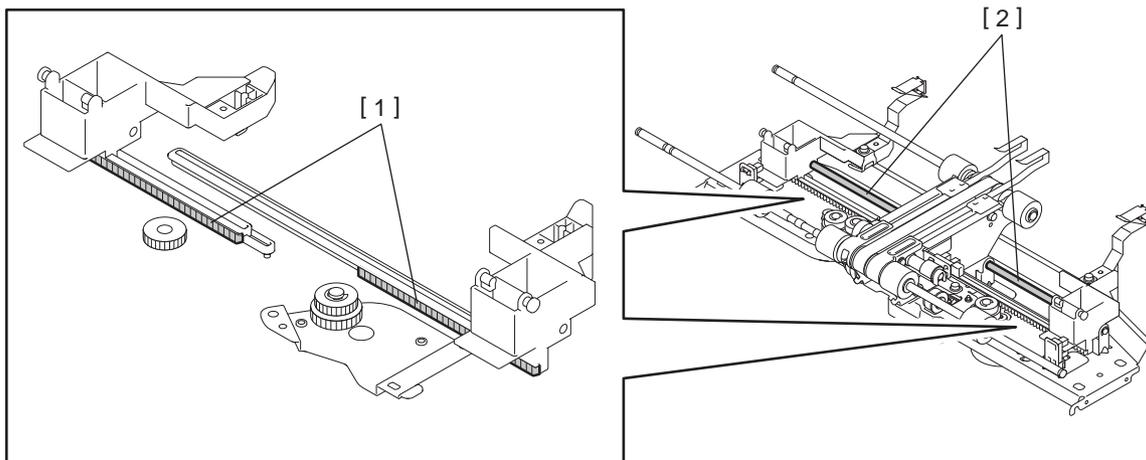
Fig. 7-42

*f Movable tray drive gear
Apply an adequate amount of white grease (Molykote HP-300) to the gear teeth of the movable tray drive gear [1].

[1]
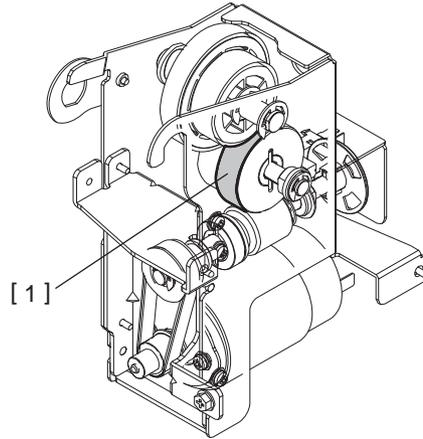
Fig. 7-43

*g Additional folding unit carrier shaft
Apply an adequate amount of white grease (Molykote EM-30L) to the entire Additional folding unit carrier shaft [1].

[1]
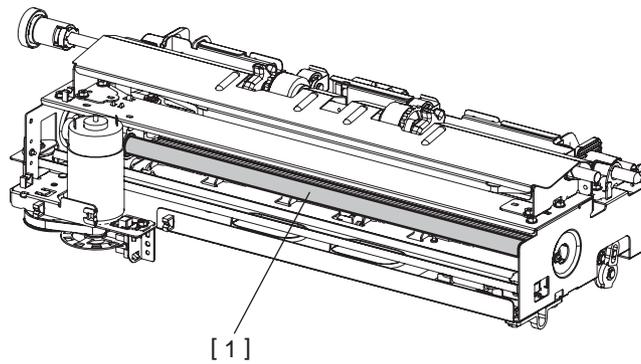
Fig. 7-44

*h Grate-shaped guide

After the grate-shaped guide [1] is cleaned with alcohol, use a cleaning brush to apply coating material (SANKOL CFD-409M) on the part with which the paper edge is in contact.
*Use a cleaning brush (4407915710 BRUSH-33) because cloth contaminated with the coating material shall be treated as industrial waste.
*Do not apply coating material (Molykote PD-910) to the rubber section of the grate-shaped tray.
*When coating material adheres to the skin, rinse it well with water.

[1]

Fig. 7-45

7 - 44
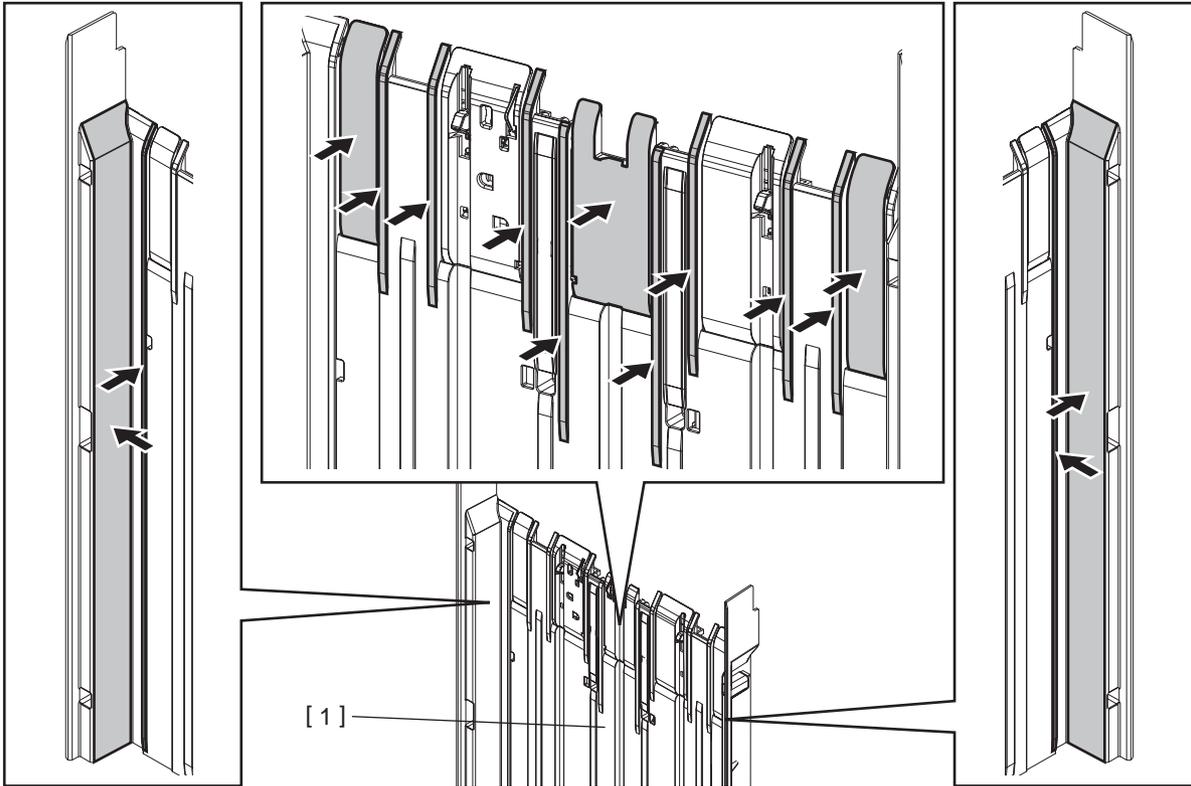
7.7.18 Hole punch unit (MJ-6103/6104)

	Items to check*1	Cleaning	Lubrication *2	Replacement (x1,000)	Operation check	Parts list (P-I) *3
1	Transport roller	A			O	
2	Sensors	B				
3	Drive gears		W3		O	
4	Punched scrap container	Dispose of the punched paper bits.				
5	Punching unit *4			R1 1000		

*1: Perform maintenance in the timing of preventive maintenance of the equipment.
*2: Be careful not to put oil on the rollers, belts and belt pulleys when lubricating.
*3: Page-Item (P-I) is described in the column of the Parts list.
*4: This unit may require replacement once or more over the period of machine warranty because of deterioration or damage. Replace them as needed.

7

7.8   Precautions for Storing and Handling Supplies

7.8.1   Precautions for storing TOSHIBA supplies

1. Toner/Developer
   Toner and developer should be stored in a place where the ambient temperature is between 10°C to 35°C (no condensation), and should also be protected against direct sunlight during transportation.

2. Photoconductive drum
   Like the toner and developer, photoconductive drum should be stored in a dark place where the ambient temperature is between 10°C to 35°C (no condensation). Be sure to avoid places where drums may be subjected to high humidity, chemicals and/or their fumes.

3. Drum cleaning blade
   This item should be stored in a flat place where the ambient temperature is between 10°C to 35°C, and should also be protected against high humidity, chemicals and/or their fumes.

4. Fuser roller / Pressure roller
   Avoid places where the rollers may be subjected to high humidity, chemicals and/or their fumes.

5. Paper
   Avoid storing paper in places where it may be subjected to high humidity. After a package is opened, be sure to place and store it in a storage bag.

6. Transfer roller
   Transfer roller should be stored in a place where the ambient temperature is between 10°C to 35°C (no condensation). Be sure to avoid places where transfer roller may be subjected to high humidity, chemicals and/or their fumes.

7.8.2 Checking and cleaning of photoconductive drum

1. Use of gloves
   If fingerprints or oil adhere to the drum surface, the property of the photoconductive drum may degrade, affecting the quality of the print image. So, do not touch the drum surface with your bare hands.

2. Handling precautions
   As the photoconductive drum surface is very sensitive, be sure to handle the drum carefully when installing and removing it so as not damage its surface.
   Be sure to apply "patting powder" (lubricant) to the entire surface of the drum (including both ends of the drum where OPC is not coated) when replacing the drum. When the drum has been replaced with a new one, the drum counter (the Setting Mode 08-6250-0, 3, 6 and 7) must be cleared to 0 (zero).
   This clearing can be performed in the PM Support Mode.

   Notes:
   - Application of patting powder is for reducing the friction between the drum and cleaning blade. If the application of patting powder is neglected, the drum and cleaning blade may be damaged.
   - When paper fibers or thread adhere to the cleaning blade edge, they may reduce the cleaning efficiency and, in addition, may damage the blade and the drum. Be sure to remove any fibers found adhering to the blade.

3. Installation of the equipment and storage of drum
   Avoid installing the equipment where it may be subjected to high temperature, high humidity, chemicals and/or their fumes.
   Do not place the light drum in a location where it is exposed to direct sunlight or high intensity light such as near a window. Otherwise the drum will fatigue, and will not produce sufficient image density immediately after being installed in the equipment.

4. Cleaning the drum
   At preventive maintenance calls, wipe the entire surface of the drum clean using the designated cleaning cotton. Use sufficiently thick cleaning cotton (dry soft pad) so as not to scratch the drum surface inadvertently with your fingertips or nails. Also, remove your rings and wristwatch before starting cleaning work to prevent accidental damage to the drum.
   Do not use alcohol, selenium refresher and other organic solvents or silicon oil as they will have an adverse effect on the drum.

5. Scratches on photoconductive drum surface
   If the surface is scratched in such a way that the aluminum substrate is exposed, no print image will be produced on this area. In addition, the cleaning blade will be damaged so replacement with a new drum will be necessary.

6. Collecting used photoconductive drums
   Regarding the recovery and disposal of used photoconductive drums, we recommend following the relevant local regulations or rules.

7.8.3   Checking and cleaning of drum cleaning blade

1. Handling precautions
   Pay attention to the following points as the cleaning blade life is determined by the condition of its edge:
   - Do not allow hard objects to hit or rub against blade edge.
   - Do not rub the edge with a cloth or soft pad.
   - Do not leave oil (or fingerprints, etc.) on the edge.
   - Do not apply solvents such as paint thinner to the blade.
   - Do not allow paper fibers or dirt to contact the blade edge.
   - Do not place the blade near a heat source.

2. Cleaning procedure
   Clean the blade edge with a cloth moistened with water and squeezed lightly.
   Notes:
   - Remove the cleaning and recovery blades before sucking the dirt from the cleaner.
   - It should be cleaned by suction since the PET sheet attached to the toner recovery auger may be damaged if air blowing is used. Be careful not to allow the suction nozzle to contact with the PET sheet. This may damage the PET sheet.

7.8.4   Checking and cleaning of fuser roller and pressure roller

1. Handling precautions
   - Fuser roller
     Do not leave any oil (fingerprints, etc.) on the fuser roller.
     Be careful not to allow any hard object to hit or rub against the fuser roller, or it may be damaged, possibly resulting in poor cleaning.

   - Pressure roller
     Do not leave any oil (fingerprints, etc.) on the pressure roller.

2. Checking
   - Check for stain and damage on the fuser and pressure rollers, and clean if necessary.
   - Check the separation guide and fingers and check for chipped tips.
   - Check the thermistors for proper contact with the pressure roller.
   - Check the fused and fixed condition of the toner.
   - Check the gap between the entrance guide and pressure roller.
   - Check the fuser roller for proper rotation.

3. Cleaning procedure
   When fuser roller and pressure roller become dirty, they will cause jamming. If this happens, wipe the surface clean with a piece of soft cloth. For easier cleaning, clean the roller white they are still warm.
   Notes:
   Be careful not to rub the fuser roller and pressure roller surface with your nails or hard objects because it can be easily damaged. Do not use silicone oil on the fuser roller and pressure roller.

7.8.5 Checking and replacing the transfer roller

1. Handling precautions
   - Wear gloves to avoid touching the drum surface with your bare hands.
   - Do not allow oil or fingerprints to come in contact with the surface.
   - Do not hit or scratch the surface.
   - Make sure you do not get any bits of thread, etc. on the surface.
   - Do not allow solvent, such as thinner, to come in contact with the surface.
   - Keep away from a source of heat.

2. Cleaning procedure
   If bits of thread or similar adhere to the surface, remove them with gloves or a pair of tweezers. Be careful that the roller surface is not damaged by the points of the tweezers.

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7.9 PM KIT

A PM kit is a package that includes replacement parts for each unit.

KIT name	Component	Qty.	P-I
DEV-KIT-4530 *4	Drum cleaning blade	1	27-8
	Recovery blade	1	27-10
	Separation finger for drum	2	27-12
	Main charger grid	1	25-11
	Needle electrode	1	25-6
	Transfer roller	1	26-5
	Developer material	1	-
DEV-KIT-5070 *5	Drum cleaning blade	1	27-8
	Recovery blade	1	27-10
	Separation finger for drum	2	27-12
	Main charger grid	1	25-11
	Needle electrode	1	25-6
	Transfer roller	1	26-5
	Developer material	1	-
FR-KIT-4590	Fuser roller	1	31-15
	Pressure roller	1	32-8A
	Separation finger for fuser roller	5	31-22
	Ozone filter	1	13-14
FR-KIT-3020	Fuser roller	1	31-15
	Pressure roller	1	32-8B
	Separation finger for fuser roller	1	31-22
	Ozone filter	1	13-14
PM-KIT-ROLLER *1	Feed roller	1	17-20
	Transport roller	1	17-6
	Separation roller	1	17-27
DF-KIT-3018 *2	Pickup roller	1	5-1
	Feed roller	1	5-27
	Separation roller	1	4-10
ROL-KIT-1026 *3	Pick up roller	1	4-4
	Feed roller	1	4-3
	Separation roller	1	5-8

* 1. For KD-1025 (PFP) and MY-1033 (Drawer Module)
* 2. For MR-3021/3022/3028 (RADF)
* 3. For KD-1026 (LCF)
* 4. For e-STUDIO206L/256/306/356/456/506
* 5. For e-STUDIO207L/257/307/357/457/507

7.10 Maintenance Part List

The parts used for the maintenance of this equipment are as follows.

No.	Item	Purpose	Parts list <P-I> e-STUDIO 206L/256/ 306/356/ 456/506	Parts list <P-I> e-STUDIO 207L/257/ 307/357/ 457/507
1	Door switch jig	Used to adjust high-voltage transformer.	101-1	101-1
2	Brush	Cleaning inside of the equipment	101-2	101-2
3	Doctor sleeve jig	Measuring the gap between the development sleeve and the doctor blade	101-3	101-3
4	Developer material nozzle	Pouring the developer material (attached to the developer bottle)	-	-
5	Wire holder jig	Fixing the wire at the assembly of the carriage wire	101-5	101-5
6	Belt tension jig	Adjusting the belt tension at the installation of the scan motor	101-6	101-6
7	High-voltage transformer jig	Used to adjust high-voltage transformer.	101-7	101-7
8	Downloading jig (DLM board)	Updating the scanner/options ROM	102-1	102-1
9	Download JIG-2 (6 Flash ROMs)	Updating the system/engine ROM	102-2	102-2
10	ROM writer adapter (For 1881)	Writing the data of PWA-DWNLD-350-JIG2	102-4	102-4
11	ROM writer adapter (For 1931)	Writing the data of PWA-DWNLD-350-JIG2	102-5	102-5
12	Drum bag	Storing the drum	102-21	102-21
13	ROM	Installing the DLM board	102-6	102-6
14	Harness jig	Updating the converter PC board	21-3	21-3
15	Patting powder	For photoconductive drum	101-17	101-17
16	Color test chart (TCC-2)	For test print (A4/LT)	101-22	101-22
17	Color test chart (TCC-3)	For test print (A3/LD)	101-23	101-23
18	Fuser unit fuse	For fuser unit	101-18	101-18

* "P-I" represents the page item in "e-STUDIO206L/256/306/356/456/506 Service Parts List" or "e-STUDIO207L/257/307/357/457/507 Service Parts List".
No.1-13, 15-17: Refer to "e-STUDIO206L/256/306/356/456/506 Service Parts List" or e-STUDIO207L/257/307/357/457/507.
No.14: Refer to "MJ-1101 Service Parts List" or "MJ-1107 Service Parts List".
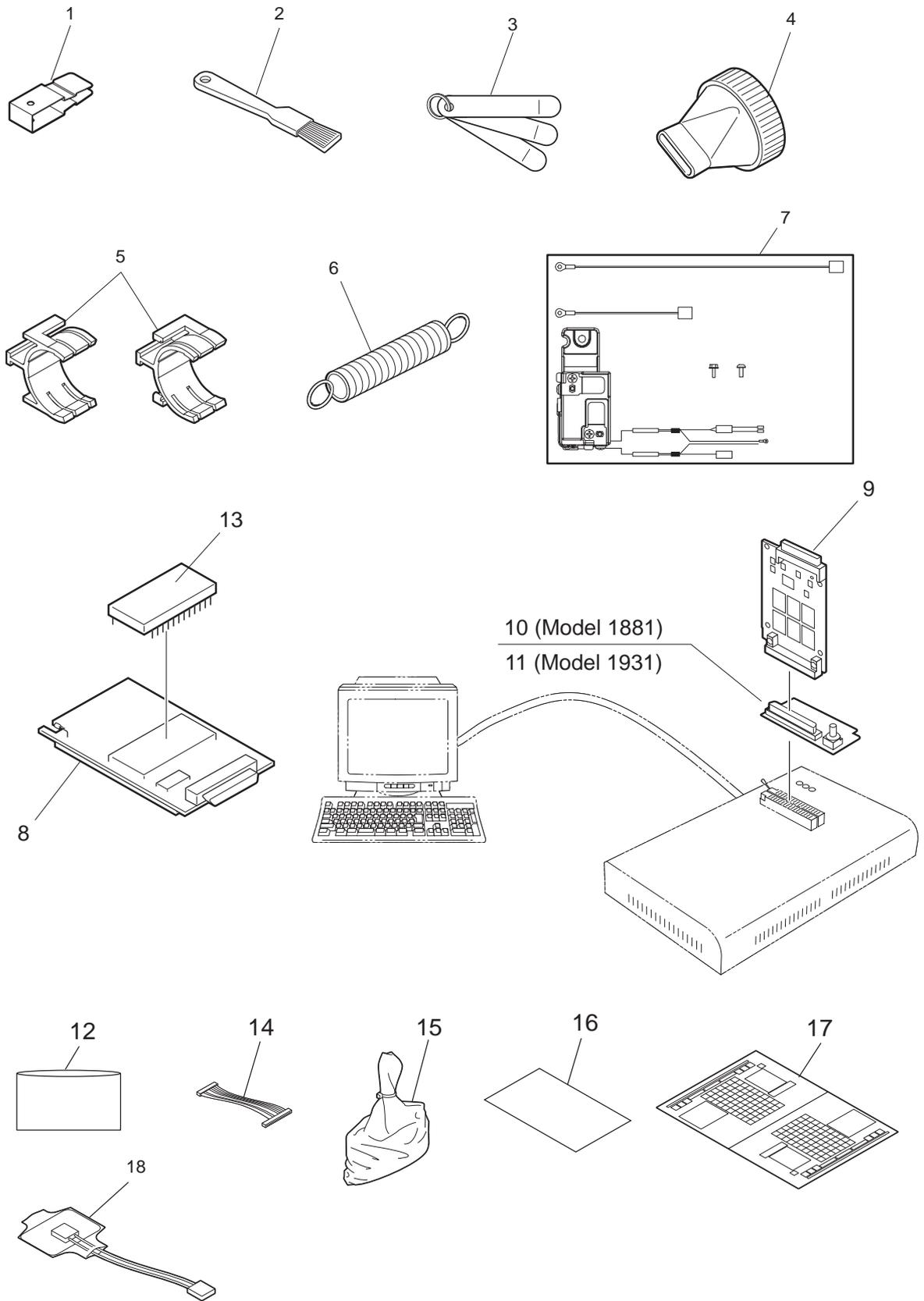
Fig. 7-46

7.11 Grease List

The greases used for the maintenance of this equipment are as follows.

	Grease name	Volume	Container	Parts list <P-I>
SI	Silicon oil	25cc	Bottle	101-16
L	Launa 40	100cc	Oiler	101-11
W2	White grease (Molykote HP-300)	10g	Bottle	101-12B
AV	Alvania No.2	100g	Tube	101-13
W1	White grease (Molykote EM-30L)	100g	Tube	101-14
FL	Floil (GE-334C)	20g	Bottle	101-15

7.12 Operational Items in Overhauling (e-STUDIO206L/256/306/356/456/506)

Overhaul each equipment in the following timing.

- e-STUDIO206L: When the number of output pages has reached 240,000 or 2.5 years have passed from the start of use (Whichever comes earlier)

- e-STUDIO256: When the number of output pages has reached 300,000 or 2.5 years have passed from the start of use (Whichever comes earlier)

- e-STUDIO306: When the number of output pages has reached 360,000 or 2.5 years have passed from the start of use (Whichever comes earlier)

- e-STUDIO356: When the number of output pages has reached 375,000 or 2.5 years have passed from the start of use (Whichever comes earlier)

- e-STUDIO456: When the number of output pages has reached 450,000 or 2.5 years have passed from the start of use (Whichever comes earlier)

- e-STUDIO506: When the number of output pages has reached 450,000 or 2.5 years have passed from the start of use (Whichever comes earlier)

(1) Replace all the supplies.
(2) Check the components in the drive section (gears, pulleys, timing belts, etc.). Replace them with new ones if they are damaged.
(3) Check all the adhesives such as tape and Mylar if they are damaged or have become unstuck. Replace them with new ones if necessary.
(4) Check the performance of all the switches and sensors. Replace them with new ones if necessary.
(5) Clean inside the equipment thoroughly.

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7.13 Machine Refreshing Checklist (e-STUDIO207L/257/307/357/457/507)

Symbols/value used in the checklist

Item	Description
Cleaning	A: Clean with alcohol B: Clean with soft pad, cloth or vacuum cleaner
Lubrication / Coating	W1: White grease (Molykote EM-30L) W2: White grease (Molykote HP-300)
Replacement	Value: Replacement cycle R1: Replacement R2: For preventive maintenance, check if the parts are damaged and replace them as required. If the parts are not replaced at the machine refreshing interval, inspect them at the subsequent PM. R3: Replace if deformed or damaged. If the parts are not replaced at the machine refreshing interval, inspect them at the subsequent PM. R4: Lubrication recommended: If the parts are not lubricated at the machine refreshing interval, inspect their lubrication status at the subsequent PM.
Operation check	O: After cleaning or replacement, confirm there is no problem.

Notes:
- When performing machine refreshment, check the items in the preventive maintenance checklist in addition to the items in the machine refreshing checklist.
- Perform cleaning and lubricating in the following timing. Lubricate the replacement parts according to the replacement cycle.

Model	Replacement cycle
e-STUDIO207L	240,000 sheets
e-STUDIO257	300,000 sheets
e-STUDIO307	360,000 sheets
e-STUDIO357	375,000 sheets
e-STUDIO457	450,000 sheets
e-STUDIO507	450,000 sheets

- The value in the "Replacement" field of the table below indicates the replacement number of output pages in either the black mode.
- The replacement cycle of the parts in the feeding section equals to the number of sheets fed from each paper source.
- Be careful not to put oil on the rollers, belts and belt pulleys when lubricating.
- Parts list <P-I> represents the page item in "e-STUDIO207L/257/307/357/457/507 Service Parts List".

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <P-I>
1	Drum drive unit		W1	R4		-
2	Development drive unit		W1	R4		-
3	Paper feeding drive unit		W1	R4		-
4	Fuser unit drive gear		W1	R4		-

8. ERROR CODE AND TROUBLESHOOTING

8.1 General Descriptions

This chapter explains the procedures for solving troubles occurring in the equipment.

When a trouble occurs, check if an error code is displayed on the LCD screen of the control panel first. If displayed, refer to "8.2Error Code List" to figure out the classification and contents of the error, and then refer to "8.3Diagnosis and Prescription for Each Error Code" to remove its cause.
If not displayed and the equipment does not operate properly or images are not printed properly, refer to "8.4Troubleshooting for the Image" to remove its cause.

The cause of a trouble in the equipment may be a minor failure. Check the items below first.

1. Is there any problem with the power cable?
*   Check if the power cable is inserted securely. When it is almost removed or not inserted securely, power voltage may become unstable, causing a trouble in the equipment.
2. Are the connectors connected securely?
*   Reconnect them securely. Even if they are apparently inserted, there may be a contact failure. Carefully check if the connection is secured especially after the disassembly or replacement of parts.

   Notes:
   If unusual odor is detected or if smoke or fire comes out of the equipment, immediately turn the power OFF.
   Even in the cases other than the above, fully observe safety precautions.
   If any PC board or HDD shall be replaced, refer to 📖 P. 9-1 "9. REPLACEMENT OF HDD/PC BOARDS".

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8.1.1 If a problem continues even after performing all troubleshooting.

If a problem continues even after performing all troubleshooting and technical tips, report the problem to the appropriate Toshiba service center along with the following information. This information will help the service center understand your problem and take quick action to find the solution.

1. Serial Number
2. List Print
   Refer to the appropriate Service Manual for the detailed procedure to obtain a List Print.
   A. Enter the value given below to obtain a List Print by CSV file.
      9S-300: All CSV files
   B. Enter the value given below to obtain a List Print by printing it out.
      9S-101: 05 code
      9S-102: 08 code
      9S-104: Pixel counter data (Toner cartridge standard)
      9S-106: Error history (1000 cases max)
      9S-108: Firmware update log (200 cases max)
      9S-110: Power on/off log (100 cases max)
3. For image-related problems, collect image samples with the problem areas and the feeding direction marked first. Then provide information about the media type and weight, and the print data / spool files for duplicating the problem.
4. For abnormal acoustic noise, describe the situation in as much detail as possible.
5. For hardware-related problems, provide photos of any broken parts, paper jams, etc.
   In case of paper jams, include the type of paper and its manufacturer.
6. For software-related problems, provide list prints, TopAccess Logs and the detailed procedure needed to duplicate the problem.
* This is the minimum information required to report a complaint. It would be appreciated if you could obtain additional information.
* Follow the directions of the service center if they request additional information as each issue is unique to some degree.

8.1.2 Collection of debug logs with a USB device

Notes:

To collect the debug log with USB media, External version of HD data (08-8952) needs to be "T160HD0W1120" or later.

[1] General description

The purpose of collecting the debug logs is to acquire the information for analyzing problems which occurred during the MFP's operation. In such a case, you can collect the debug logs by inserting a USB device into the MFP. Even if the power has to be turned OFF with the main power switch after a problem occurs, the debug logs will be saved in the MFP (up to 3 logs). If the debug logs have already been saved in the MFP, they also can be collected.

The following information is included in the USB debug logs.
Internal operation, Job history, HDD/memory usage status, etc. (Personal/Corporate information (address book) not included)

When the debug logs are collected, also do so for the following information. since it may be difficult to investigate only using the debug log.
- List print mode ([9] + [START]) [300: All CSV files]
- Job logs below in TopAccess -> [Logs] -> [Export Logs]
    - Print Job Log Export
    - Fax Transmission Journal Export
    - Fax Reception Journal Export
    - Scan Log Export
    - Messages Log Export
- Problem occurrence time
  Or the time when the customer called if it is difficult to work out when it occurred
- Status of when you collected the debug log
  As in the example below, check the status to know if the problem occurred at the debug log collection or how the customer recovered it.
  E.g.
    - You checked the problem and connected a USB device to the equipment.
    - No problem occurred when an attempt to collect the debug log was made; however the customer did turn the main power switch OFF when the problem occurred, so the log can be collected.

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[2] Collection procedure

1. Note

   When collecting a log, be sure to obtain consent from the user in advance and get the dedicated script file from the service center.

2. About USB devices

   Be sure to format the USB device with FAT16/32 beforehand. (Recommend size: 2GB or more)

3. Advance preparation of collection

   Store the dedicated script file to the root directory of the USB device.

4. Procedure for collecting debug logs

   1. Insert USB device, in which the dedicated script file is stored, into the MFP while the power is ON.
   2. The LED in the MFP starts blinking after the USB device has been inserted.
   3. When the collection of the debug logs is finished, beeping is heard.
   4. After the beeping has stopped, remove the USB device.

   Notes:

   - Do not remove the USB device while the LED in the MFP is blinking.
   - If the LED does not start blinking after the USB device is inserted and a few minutes have passed, try the procedure from step 1 again.
   - If there is no beeping after the LED starts blinking (about 20 minutes), try procedure from step 1 again.
   - If the USB device is inserted when the MFP is not ready, the debug logs cannot be collected.

5. Collected debug logs

   - When the collection of the debug logs is completed, the compressed file of the collected logs is stored in the root directory of the USB device.
     File name: XXXX.YYYYMMDDHHmmSS
     (XXXX= Serial number of the equipment, YYYY= year, MM= month, DD= day, HH= hour, mm= minute, SS= second)
   - After the debug logs have been collected, be sure to send them to the service center together with a report.

8.2 Error Code List

The following error codes is displayed at the upper right of the screen when the "CLEAR PAPER" or "CALL SERVICE" symbol is blinking.

8.2.1 Jam

Error code	Classification	Contents	Troubleshooting
E010	Paper exit jam	Jam not reaching the exit sensor: The paper which has passed through the fuser unit does not reach the exit sensor.	P. 8-45
E020		Stop jam at the exit sensor: The trailing edge of the paper does not pass the exit sensor after its leading edge has reached this sensor.	P. 8-45
E030	Other jam	Power-ON jam: The paper is remaining on the paper transport path when power is turned ON.	P. 8-75
E061		Incorrect paper size setting for upper drawer: The size of paper in the 1st drawer differs from size setting of the equipment.	P. 8-76
E062		Incorrect paper size setting for lower drawer: The size of paper in the 2nd drawer differs from size setting of the equipment.	P. 8-76
E063		Incorrect paper size setting for PFP upper drawer: The size of paper in the 3rd drawer differs from size setting of the equipment.	P. 8-76
E064		Incorrect paper size setting for PFP lower drawer: The size of paper in the 4th drawer differs from size setting of the equipment.	P. 8-76
E065		Incorrect paper size setting for bypass tray: The size of paper in the bypass tray differs from size setting of the equipment.	P. 8-76
E090		HDD abnormality causes jam: Image data to be printed cannot be prepared.	P. 8-59
E110	Paper misfeeding	ADU misfeeding (Paper not reaching the registration sensor): The paper which has passed through ADU does not reach the registration sensor during duplex printing.	P. 8-59
E120		Bypass misfeeding (Paper not reaching the 1st transport sensor): The paper fed from the bypass tray does not reach the 1st transport sensor.	P. 8-60
E130		Upper drawer misfeeding (Paper not reaching the 1st transport sensor): The paper fed from the upper drawer does not reach the 1st transport sensor.	P. 8-61
E140		Lower drawer misfeeding (Paper not reaching the 2nd transport sensor): The paper fed from the lower drawer does not reach the 2nd transport sensor.	P. 8-62
E150		PFP upper drawer misfeeding (Paper not reaching the PFP upper drawer feed sensor): The paper fed from the PFP upper drawer does not reach the PFP upper drawer feed sensor.	P. 8-63
E160		PFP lower drawer misfeeding (Paper not reaching the PFP lower drawer feed sensor): The paper fed from the PFP lower drawer does not reach the PFP lower drawer feed sensor.	P. 8-64
E190		LCF misfeeding (Paper not reaching the LCF feed sensor): The paper fed from the LCF does not reach the LCF feed sensor.	P. 8-66

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Error code	Classification	Contents	Troubleshooting
E200	Paper transport jam	Upper drawer transport jam (Paper not reaching the registration sensor): The paper does not reach the registration sensor after it has passed the 1st transport sensor.	P. 8-46
E210		Lower drawer transport jam (Paper not reaching the registration sensor): The paper does not reach the registration sensor after it has passed the 1st transport sensor.	P. 8-46
E220		Lower drawer transport jam (Paper not reaching the 1st transport sensor): The paper does not reach the 1st transport sensor after it has passed the lower drawer feed sensor.	P. 8-48
E270		Bypass transport jam (paper not reaching the registration sensor): The paper does not reach the registration sensor after it has passed the 1st transport sensor.	P. 8-47
E280		ADU transport jam (paper not reaching the registration sensor): The paper which has passed through ADU and the 1st transport sensor does not reach the registration sensor during duplex printing.	P. 8-47
E300		PFP upper drawer transport jam (Paper not reaching the registration sensor): The paper does not reach the registration sensor after it has passed the 1st transport sensor.	P. 8-46
E310		PFP upper drawer transport jam (Paper not reaching the 1st transport sensor): The paper does not reach the 1st transport sensor after it has passed the 2nd transport sensor.	P. 8-48
E320		PFP upper drawer transport jam (Paper not reaching the 2nd transport sensor): The paper does not reach the 2nd transport sensor after it has passed the PFP upper drawer feed sensor.	P. 8-49
E330		PFP lower drawer transport jam (Paper not reaching the registration sensor): The paper does not reach the registration sensor after it has passed the 1st transport sensor.	P. 8-46
E340		PFP lower drawer transport jam (Paper not reaching the 1st transport sensor): The paper does not reach the 1st transport sensor after it has passed the PFP lower drawer feed sensor.	P. 8-48
E350		PFP lower drawer transport jam (Paper not reaching the 2nd transport sensor): The paper does not reach the 2nd transport sensor after it has passed the PFP upper drawer feed sensor.	P. 8-49
E360		PFP lower drawer transport jam (Paper not reaching the PFP upper drawer feed sensor): The paper does not reach the PFP upper drawer feed sensor after it has passed the PFP lower drawer feed sensor.	P. 8-57
E3C0		LCF transport jam (Paper not reaching the registration sensor): The paper does not reach the registration sensor after it has passed the 1st transport sensor.	P. 8-46
E3D0		LCF transport jam (Paper not reaching the 1st transport sensor): The paper does not reach the 1st transport sensor after it has passed the 2nd transport sensor.	P. 8-48
E3E0		LCF transport jam (Paper not reaching the 2nd transport sensor): The paper does not reach the 2nd transport sensor after it has passed the LCF feed sensor.	P. 8-49

Error code	Classification	Contents	Troubleshooting
E410	Cover open jam	Front cover open jam: The front cover has opened during printing.	P. 8-67
E420		PFP side cover open jam: The PFP side cover has opened during printing.	P. 8-68
E430		ADU open jam: The ADU has opened during printing.	P. 8-69
E440		Feed cover open jam: The feed cover has opened during printing.	P. 8-70
E450		LCF side cover open jam: The LCF side cover has opened during printing.	P. 8-71
E480		Bridge unit open jam: The bridge unit has opened during printing.	P. 8-72
E490		Job separator cover open jam: The job separator cover has opened during printing.	P. 8-73
E491		Offset tray cover open jam: The offset tray cover has opened during printing.	P. 8-74
E510	Paper transport jam (ADU section)	Jam not reaching the ADU entrance sensor: The paper does not reach the ADU entrance sensor after it is switchbacked in the exit section.	P. 8-50
E520		Stop jam in the ADU: The paper does not reach the ADU exit sensor after it has passed the ADU entrance sensor.	P. 8-52
E550	Other jam	Paper remaining jam on the transport path: The paper is remaining on the transport path when printing is finished (caused by a multiple paper feeding).	P. 8-76
E551		Paper remaining jam on the transport path (when a service call occurs)	P. 8-77
E552		Paper remaining jam on the transport path (when the cover is closed)	P. 8-77
E570	Paper transport jam	Jam not reaching the reverse sensor: The paper which has passed the exit sensor does not reach the reverse sensor.	P. 8-53
E580		Stop jam at the reverse sensor: The trailing edge of the paper does not pass the reverse sensor after its leading edge has reached this sensor.	P. 8-53

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Error code	Classification	Contents	Troubleshooting
E712	RADF jam	Jam not reaching the registration sensor: The original fed from the original feeding tray does not reach the registration sensor.	P. 8-80
E714		Feed signal reception jam: The feed signal is received even no original exists on the original feeding tray.	P. 8-80
E721		Jam not reaching the read sensor: The original does not reach the read sensor after it has passed the registration sensor (when scanning obverse side) or the reverse sensor (when scanning reverse side).	P. 8-81
E722		Jam not reaching the exit sensor (during scanning): The original which passed the read sensor does not reach the exit sensor when it is transported from the scanning section to exit section.	P. 8-81
E724		Stop jam at the registration sensor: The trailing edge of the original does not pass the registration sensor after its leading edge has reached this sensor.	P. 8-82
E725		Stop jam at the read sensor: The trailing edge of the original does not pass the read sensor after its leading edge has reached this sensor.	P. 8-82
E726		Transport/exit signal reception jam: RADF receives the transport/exit reception signal from the equipment when no original is at the exposure waiting position.	P. 8-83
E731		Stop jam at the exit sensor: The trailing edge of the original does not pass the exit sensor after its leading edge has reached this sensor.	P. 8-83
E860		RADF jam access cover open: The RADF jam access cover has opened during RADF operation.	P. 8-84
E870		RADF open jam: RADF has opened during RADF operation.	P. 8-84
E871		Cover open jam in the read ready status: Jam caused by opening of the RADF jam access cover or front cover while the RADF is waiting for the scanning start signal from the equipment. (MR-3021/3022)	P. 8-85
E910	Finisher jam (Bridge unit)	Jam at the bridge unit transport sensor-1: The paper does not reach the bridge unit transport sensor-1 after it has passed the exit sensor.	P. 8-86
E920		Stop jam at the bridge unit transport sensor-1: The trailing edge of the paper does not pass the bridge unit transport sensor-1 after its leading edge has reached the sensor.	P. 8-86
E930		Jam at the bridge unit transport sensor-2: The trailing edge of the paper does not reach the bridge unit transport sensor-2 after its leading edge has reached the bridge unit transport sensor-1.	P. 8-87
E940		Stop jam at the bridge unit transport sensor-2: The trailing edge of the paper does not reach the bridge unit transport sensor-2 after its leading edge has reached the bridge unit transport sensor-2.	P. 8-87
E950	Job separator jam	Jam not reaching the job separator transport sensor: The paper has passed through the exit sensor does not reach the job separator transport sensor.	P. 8-88
E951		Stop jam at the job separator transport sensor: The trailing edge of the paper does not pass the job separator transport sensor.	P. 8-88

Error code	Classification	Contents	Troubleshooting
E960	Offset tray jam	Jam not reaching the offset tray transport sensor: The paper has passed through the exit sensor does not reach the offset tray transport sensor.	P. 8-89
E961		Stop jam at the offset tray transport sensor: The trailing edge of the paper does not pass the offset tray transport sensor.	P. 8-89
E9F0	Finisher jam (Puncher unit)	Punching jam: An error occurs during the detecting of the home position of the punch motor. This occurs when an attempt is made to punch paper which has been multiply fed from the equipment and exceeds the punching capability. [MJ-1032/MJ-1033]	P. 8-90
EA10	Finisher jam (Finisher section)	Paper transport delay jam: The paper which has passed the bridge unit does not reach the inlet sensor.[MJ-1101/1107]	P. 8-92
		The paper which has passed the bridge unit does not reach the inlet sensor. [MJ-1106/1108]	P. 8-92
		Paper transport delay jam: Paper does not reach the entrance sensor of the Finisher. [MJ-1032]	P. 8-94
EA20		Paper transport stop jam: The paper does not pass through the inlet sensor. The paper which has passed through the inlet sensor does not reach the feeding sensor. [MJ-1101/1107/MJ-1106/1108]	P. 8-93
		Paper transport stop jam: Paper has reached the entrance sensor but does not pass through it (paper is remaining for a longer period than specified). [MJ-1032/MJ-1033]	P. 8-94
EA21		Paper size error jam: Paper does not reach the sensor because the paper is shorter than spec. [MJ-1101/1107/MJ-1106/1108]	P. 8-94
EA22		Paper transport jam (Finisher paper punching edge detection sensor): The paper position sensor on the Finisher transport path detects paper shorter than the acceptable paper size. [MJ-1101/1107/MJ-1106/1108]	P. 8-94
EA23	Finisher jam (Finisher section)	Paper transport jam (transport sensor): Paper being transported on the Finisher transport path is stopped at the outlet sensor at 27.56 inches or longer. [MJ-1101/1107/MJ-1106/1108]	P. 8-95
EA24		Paper transport jam (between entrance and transport sensors): The leading edge of paper which has passed the entrance sensor on the Finisher transport path does not reach the transport sensor. [MJ-1101/1107/MJ-1106/1108]	P. 8-95
EA25		Paper transport jam (after paper stack exit): The finishing tray paper detection sensor detects paper after a stack of paper exits from the finishing tray. [MJ-1101/1107/MJ-1106/1108] Paper transport jam in the Finisher (after paper stack exit): Paper is detected in the finishing tray sensor after the paper stack has exited from the finishing tray. [MJ-1032] Paper transport jam in the Finisher (after paper stack exit): (1) Paper is detected in the finishing tray sensor after the paper stack has exited from the finishing tray. (2) Paper cannot be detected in the gripper arm exit sensor after the paper stack has exited from the finishing tray. [MJ-1033]	P. 8-95

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Error code	Classification	Contents	Troubleshooting
EA26	Finisher jam (Finisher section)	Paper transport jam (stop command request): A command to stop equipment operation is received while paper is being transported in the Finisher. [MJ-1101/1107/MJ-1106/1108] Paper transport jam in the Finisher (stop command request): The equipment is required to stop during the transporting of paper in the Finisher. [MJ-1032/MJ-1033]	P. 8-95
EA27		Paper transport jam (paper not inserted): The equipment detects a paper-not-inserted jam but the entrance sensor is turned ON before the equipment is stopped. [MJ-1101/1107/MJ-1106/1108]	P. 8-95
EA28		Paper transport jam (paper holder plate operation delay): An attempt to start the arm assisting operation for dropping paper on the finishing tray is made, but the previous arm assisting operation has not yet been finished. [MJ-1101/1107/MJ-1106/1108]	P. 8-95
EA29		Paper transport jam (stack transport delay): The buffer tray is extended to drop a stack of paper on the finishing tray but the previous stack has not yet exited. [MJ-1101/1107/MJ-1106/1108]	P. 8-95
EA2A		Paper transport jam in the Finisher (between the entrance path and middle path sensor): The leading edge of the paper has passed the entrance path sensor, but does not reach the middle path sensor in the Finisher Unit transport path. [MJ-1032]	-
EA2B		Paper transport jam in the Finisher (middle path sensor): The paper remains at the middle path sensor for a longer period than specified while being transported on the Finisher Unit transport path. [MJ-1032]	-
EA2C		Paper transport jam in the Finisher (between the entrance path and sub-path sensor): The leading edge of the paper has passed the entrance sensor, but does not reach the sub-path sensor in the Finisher Unit transport path. [MJ-1032]	-
EA2D		Paper transport jam in the Finisher (sub-path sensor): The paper remains at the sub-path sensor for a longer period than specified while being transported on the Finisher Unit transport path. [MJ-1032]	-
EA2E		Paper transport remaining jam in the Finisher (sub-path sensor): Paper is detected in the sub-path sensor when the power is turned ON or the cover is closed. [MJ-1032]	P. 8-97
EA31		Transport path paper remaining jam. [MJ-1101/1107/MJ-1106/1108] Paper transport remaining jam in the Finisher: Paper is detected in the entrance path sensor or middle path sensor when the power is turned ON or the cover is closed. [MJ-1032] Paper transport remaining jam in the Finisher: Paper is detected in any of the path sensors when the power is turned ON or the cover is closed. [MJ-1033]	P. 8-97 P. 8-97 P. 8-98

Error code	Classification	Contents	Troubleshooting
EA32	Finisher jam (Finisher section)	Exit paper remaining jam. [MJ-1101/1107/MJ-1106/1108]	P. 8-99
		Exit paper remaining jam in the Finisher: Paper is detected in the finishing tray sensor when the power is turned ON. [MJ-1032/MJ-1033]	P. 8-99
EA40		Cover open error: The front cover or stationary tray cover is opened during paper transport. [MJ-1101/1107/MJ-1106/1108]	P. 8-100
		Finisher cover open jam: (1) A paper jam occurs when any of the covers is opened during the transporting of paper in the Finisher (until the paper exit is completed after the B command has been received). (2) A paper jam occurs when the supplying of the voltage of 24V is stopped during the transporting of paper. [MJ-1032/MJ-1033]	P. 8-101
EA50		Stapling jam: Stapling is not performed properly. [MJ-1032/MJ-1033]	P. 8-101
EA60		Early arrival jam: A paper jam occurs because paper from the equipment arrives at the Finisher too early. [MJ-1032/MJ-1033]	P. 8-102
EA70		Stack exit belt home position error: The stack exit belt is not at the home position. [MJ-1101/1107/MJ-1106/1108]	P. 8-103
EA80	Finisher jam (Saddle Stitcher section)	Stapling jam: Stapling is not performed properly. [MJ-1032/MJ-1033]	P. 8-104
EA81		The detection of the home position of the saddle stitch 3rd transport roller drive motor ends abnormally.	-
EA90		Door open jam: The delivery cover or inlet cover has opened during printing. [MJ-1106/1108]	P. 8-104
EAA0		Paper remaining in Saddle Stitch Finisher: Paper remaining in Saddle Stitch Finisher [MJ-1106/1108]	P. 8-105
EAB0		Paper transport jam in Saddle Stitch Finisher: Paper transport jam in Saddle Stitch Finisher [MJ-1106/1108]	P. 8-105
EAB1		Short paper jam: Short paper jam (Saddle Stitch Finisher) [MJ-1106/1108]	P. 8-107
EAC1		The detection of the home position of the folding blade motor ends abnormally.	-
EAD0	Other jam	Print end command time-out jam: The printing has not finished normally because of the communication error between the SYS board and LGC board at the end of printing.	P. 8-79

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Error code	Classification	Contents	Troubleshooting
EAE0	Finisher jam	Receiving time-out jam: The printing has been interrupted because of the communication error between the equipment and finisher when the paper is transported from the equipment to the finisher.	P. 8-108
EAF1		Stack exit roller nip motor home position detection error: The detection of the home position of the stack exit roller nip motor ends abnormally. This error may occur if paper is jammed while being transported, so it is treated as a paper jam. [MJ-1032/MJ-1033]	-
EAF2		Stapler unit sliding motor home position detection error: The detection of the home position of the stapler unit sliding motor ends abnormally. This error may occur if paper is jammed while being transported, so it is treated as a paper jam. [MJ-1032/MJ-1033]	-
EAF3		Gripper arm motor home position detection error: The detection of the home position of the gripper arm ends abnormally. This error may occur if paper is jammed while being transported, so it is treated as a paper jam. [MJ-1033]	P. 8-109
EB30		Ready time-out jam: The equipment judges that the paper transport to the finisher is disabled because of the communication error between the equipment and finisher at the start of printing.	P. 8-109
EB50	Paper transport jam	Paper remaining on the transport path: The multiple feeding of preceding paper caused the misfeeding of upcoming paper.	P. 8-54
EB60		Paper remaining on the transport path: The multiple feeding of preceding paper caused the misfeeding of upcoming paper (redetection after no jam is detected at [EB50]).	P. 8-57
ED10	Finisher jam (Finisher section)	Skew adjustment motor (M1) home position detection abnormality: The Skew adjustment motor is not at the home position. [MJ-1101/1106 (when MJ-6103 is installed), MJ-1107/1108 (when MJ-6104 is installed)]	P. 8-109
ED11		Sideways adjustment motor (M2) home position detection error: The Sideways adjustment motor is not at the home position. [MJ-1101/1106 (when MJ-6103 is installed), MJ-1107/1108 (when MJ-6104 is installed)]	P. 8-110
ED12		Shutter home position error: The shutter is not at the home position. [MJ-1101/1107/MJ-1106/1108]	P. 8-110
ED13		Front alignment plate home position error: The front alignment plate is not at the home position. [MJ-1101/1107/MJ-1106/1108]	P. 8-111
ED14		Rear alignment plate home position error: The rear alignment plate is not at the home position. [MJ-1101/1107/MJ-1106/1108]	P. 8-112
ED15		Paddle home position error: The paddle is not at the home position. [MJ-1101/1107/MJ-1106/1108]	P. 8-113
ED16		Buffer tray home position error: The buffer tray is not at the home position. [MJ-1101/1107/MJ-1106/1108]	P. 8-114

Error code	Classification	Contents	Troubleshooting
EF10	Finisher jam (Finisher section)	Paper not supported for Saddle Stitch Finisher: Unsupported paper size, type and an excess number of pages for stapling are selected. [MJ-1106/1108]	P. 8-115
EF11		Saddle Stitch Finisher stapling error (front): Front stapling is not correctly done. [MJ-1106/1108]	P. 8-115
EF12		Saddle Stitch Finisher stapling error (rear): Rear stapling is not correctly done. [MJ-1106/1108]	P. 8-116
EF13		Saddle paper holder home position detection abnormality: The paper holder home position cannot be detected. [MJ-1106/1108]	P. 8-116
EF14		Saddle paper exit jam: Outputting paper is not completed within a fixed time. [MJ-1106/1108]	P. 8-116
EF15		Saddle Stitch Finisher side alignment motor home position detection abnormality: The side alignment motor home position cannot be detected. [MJ-1106/1108]	P. 8-117
EF16		Saddle Stitch Finisher stacker motor home position detection abnormality: The stacker motor home position cannot be detected. [MJ-1106/1108]	P. 8-118
EF17		Saddle Stitch Finisher folding blade home position detection abnormality: The folding blade home position cannot be detected. [MJ-1106/1108]	P. 8-118
EF18		Saddle Stitch Finisher additional folding roller home position detection abnormality: The additional folding roller home position cannot be detected. [MJ-1106/1108]	P. 8-119
EF19		Saddle paper folding jam: Fold processed paper cannot be transported to the additional folding roller. [MJ-1106/1108]	P. 8-119
EF1A		The trailing edge of the paper passed the entrance path sensor on the Finisher unit transport path. After the switchback, the paper is transported to the saddle stitch unit transport path, but does not reach the saddle stitch entrance path sensor.	-
EF1B		Paper remains at the saddle stitch positioning paper exit sensor for a longer period than specified while being transported in the pushing/folding operation. [MJ-1033]	P. 8-120
EF1C		Paper is transported in the pushing/folding operation, but does not reach the saddle stitch exit path sensor.	P. 8-117
EF20		Saddle stacker jam: Transported paper cannot be detected in the stacker. [MJ-1106/1108]	P. 8-120

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8.2.2 Service call

Error code	Classification	Contents	Troubleshooting
C010	Drive system related service call	Main motor abnormality: The main motor is not rotating normally.	P. 8-121
C040	Paper feeding system related service call	PFP motor abnormality: The PFP motor is not rotating normally.	P. 8-122
C130		Upper drawer tray abnormality: The upper drawer tray motor is not rotating or the upper drawer tray is not moving normally.	P. 8-123
C140		Lower drawer tray abnormality: The lower drawer tray motor is not rotating or the lower drawer tray is not moving normally.	P. 8-123
C150		PFP upper drawer tray abnormality: The PFP upper drawer tray motor is not rotating or the PFP upper drawer tray is not moving normally.	P. 8-124
C160		PFP lower drawer tray abnormality: The PFP lower drawer tray motor is not rotating or the PFP lower drawer tray is not moving normally.	P. 8-124
C180		LCF tray-up motor abnormality: The LCF tray-up motor is not rotating or the LCF tray is not moving normally.	P. 8-125
C1A0		LCF end fence motor abnormality: The LCF end fence motor is not rotating or the LCF end fence is not moving normally.	P. 8-126
C1B0		LCF transport motor abnormality: The LCF transport motor is not rotating normally.	P. 8-127
C260	Scanning system related service call	Peak detection error: Lighting of the exposure lamp (white reference) is not detected when power is turned ON.	P. 8-128
C261		Peak detection error (high-light intensity): (e-STUDIO207L/257/307/357/457/507 only)	
C262		Peak detection error (communication error): (e-STUDIO207L/257/307/357/457/507 only)	
C270		Carriage home position sensor not turning OFF within a specified period of time: The carriage does not shift from its home position in a specified period of time.	P. 8-131
C280		Carriage home position sensor not turning ON within a specified period of time: The carriage does not reach to its home position in a specified period of time.	P. 8-134
C290		Scanner fuse blowout: 24V power for the scanning system is not supplied at the scanner warming-up after power-ON.	P. 8-136
C3D0	Process related service call	EPU board memory overwriting error: The overwriting of the EPU board memory fails.	P. 8-138
C3D1		EPU board memory new parts detection error: The EPU board detects the process unit as a new unit when the equipment is started in the normal mode.	P. 8-138
C3D2		EPU board memory old parts detection error: The EPU board cannot detect the new process unit when the equipment is started in the EPU replacement mode ([7] + [START]).	P. 8-139

Error code	Classification	Contents	Troubleshooting
C410	Fuser unit related service call	Thermistor or heater abnormality at power-ON: Abnormality of service call the thermistor is detected when power is turned ON or the temperature of the fuser roller does not rise in a specified period of time after power is turned ON. (e-STUDIO206L/256/306/356/456/506 only)	P. 8-141
C411		Thermistor or heater abnormality at power-ON: Abnormality of service call the thermistor is detected when power is turned ON or the temperature of the fuser roller does not rise in a specified period of time after power is turned ON. (e-STUDIO207L/257/307/357/457/507 only)	P. 8-141
C412		Thermistor or heater abnormality at power-ON: Abnormality of service call the thermistor is detected when power is turned ON or the temperature of the fuser roller does not rise in a specified period of time after power is turned ON. (e-STUDIO207L/257/307/357/457/507 only)	P. 8-141
C430		Thermistor abnormality: Abnormality of the thermistor is detected after a specified period of time has passed from power-ON (including ready state). (e-STUDIO206L/256/306/356/456/506 only)	P. 8-142
C440		Fuser roller abnormality: The temperature of the fuser roller has exceeded the range of control or does not even reach the range. (e-STUDIO206L/256/306/356/456/506 only)	P. 8-142
C443		Thermistor or heater abnormality at power-ON: Abnormality of service call the thermistor is detected when power is turned ON or the temperature of the fuser roller does not rise in a specified period of time after power is turned ON. (e-STUDIO207L/257/307/357/457/507 only)	P. 8-144
C445		Thermistor or heater abnormality at power-ON: Abnormality of service call the thermistor is detected when power is turned ON or the temperature of the fuser roller does not rise in a specified period of time after power is turned ON. (e-STUDIO207L/257/307/357/457/507 only)	P. 8-144
C447		Thermistor or heater abnormality: Abnormality of service call the thermistor is detected or the temperature of the fuser roller does not rise in a specified period of time. (e-STUDIO207L/257/307/357/457/507 only)	P. 8-144
C449		Fuser roller abnormality: The temperature of the fuser roller has exceeded the range. (e-STUDIO207L/257/307/357/457/507 only)	P. 8-145
C450		Thermistor abnormality during printing: Abnormality of the thermistor is detected during printing.	P. 8-146
C452		Thermistor abnormality at ready state: Abnormality of the thermistor is detected during ready state.	P. 8-146
C4B0		Fuser unit error counter abnormality	P. 8-147
C4C0		Fuser unit new/old detection fuse abnormality	P. 8-147
C550	Optional communication related service call	RADF I/F error: Communication error has occurred between the RADF and the scanner.	P. 8-148
C551		Document feeder model detection error: An optional document feeder that is not compatible to this equipment is installed.	P. 8-148
C570		Communication error between Engine-CPU and CNV board	P. 8-148
C580		Communication error between CNV board and finisher	P. 8-149
C5A0	Circuit related service call	EEPROM communication abnormality (LGC board)	P. 8-151
C8E0	Optional communication related service call	ADF communication abnormality: The system has to be stopped because the control abnormality occurred	P. 8-149

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Error code	Classification	Contents	Troubleshooting
C911	Circuit related service call	Toner cartridge IC chip abnormality	P. 8-140
C940	Circuit related service call	Engine-CPU abnormality	P. 8-151
C970	Process related service call	High-voltage transformer abnormality: Leakage of the main charger is detected.	P. 8-140
CA10	Laser optical unit related service call	Polygonal motor abnormality: The polygonal motor is not rotating normally.	P. 8-154
CA20		H-Sync detection error: H-Sync detection PC board cannot detect laser beams.	P. 8-154
CB00	Finisher related service call	Finisher not connected	P. 8-155
CB01		Finisher communication error	P. 8-155
CB10		Entrance motor abnormality: The entrance motor is not rotating normally. [MJ-1101/1107/MJ-1106/1108]	P. 8-155
CB11		Buffer tray guide motor abnormality: The buffer tray guide motor is not rotating or the buffer tray guide is not moving normally. [MJ-1101/1107/MJ-1106/1108]	P. 8-156
CB12		Buffer roller drive motor abnormality: The buffer roller drive motor is not rotating or the buffer roller is not moving normally. [MJ-1101/1107/MJ-1106/1108]	P. 8-156
CB13		Finisher exit motor abnormality [MJ-1101/1107/MJ-1106/1108]	P. 8-157
CB14		Paper holding arm motor abnormality [MJ-1101/1107/MJ-1106/1108]	P. 8-157
CB30		Movable tray shift motor abnormality: The movable tray shift motor is not rotating or the movable tray is not moving normally. [MJ-1101/1107]	P. 8-158
		Movable tray shift motor abnormality: The movable tray shift motor or the movable tray does not work properly. [MJ-1032]	P. 8-159
		Movable tray shift motor abnormality: The movable tray shift motor or the movable tray does not work properly. [MJ-1033]	P. 8-160
CB31		Movable tray paper-full detection error: The actuator of the movable tray paper-full detection sensor does not move smoothly. [MJ-1101/1107/MJ-1106/1108]	P. 8-160
CB40		Front alignment motor abnormality: The front alignment motor is not rotating or the front align/1106/1108ment plate is not moving normally. [MJ-1101/1107]	P. 8-161
		Front alignment plate home position detection error: The detection of the home position ends abnormally because the front alignment plate has not worked properly. [MJ-1032/MJ-1033]	P. 8-163
CB50		Stapler home position error: The stapler home position sensor does not work. [MJ-1101/1107/MJ-1106/1108]	P. 8-163
		Stapler unit home position detection error: The detection of the home position of the stapler unit ends abnormally. [MJ-1032/MJ-1033]	P. 8-164
			P. 8-164
CB51		Stapler shift home position error: The stapler is not at the home position. [MJ-1101/1107/MJ-1106/1108]	P. 8-165
		Stapler unit sliding home position detection error: The detection of the home position of the stapler unit sliding ends abnormally. [MJ-1032/MJ-1033]	P. 8-166
			P. 8-167

Error code	Classification	Contents	Troubleshooting
CB60	Finisher related service call	Stapler shift motor abnormality: Stapler shift motor is not rotating or staple unit is not moving normally. [MJ-1101/1107/MJ-1106/1108]	P. 8-167
CB80		Backup RAM data abnormality: Abnormality of checksum value on finisher controller PC board is detected when the power is turned ON. [MJ-1101/1107/MJ-1106/1108]	P. 8-168
		EEPROM data abnormality: An error occurs during the writing of data into the EEPROM of the Finisher. [MJ-1032/MJ-1033]	P. 8-168
CB81		Flash ROM abnormality: Abnormality of checksum value on finisher controller PC board is detected when the power is turned ON. [MJ-1101/1107/MJ-1106/1108]	P. 8-169
CB82		Finisher - Main CPU program error	P. 8-169
CB83		Saddle Stitch Finisher - Main CPU program error [MJ-1106/1108]	P. 8-170
CB84		Hole Punch Unit - Main CPU program error	P. 8-170
CB90		Paper pushing plate motor abnormality: Paper pushing plate motor is not rotating or paper pushing plate is not moving normally.	P. 8-170
CB91		Saddle Stitch Finisher flash ROM abnormality [MJ-1106/1108]	P. 8-171
CB92		Saddle Stitch Finisher RAM abnormality [MJ-1106/1108]	P. 8-171
CB93		Additional folding motor abnormality [MJ-1106/1108]	P. 8-171
CB94		Saddle transport motor abnormality [MJ-1106/1108]	P. 8-172
CB95		Stacker motor abnormality [MJ-1106/1108]	P. 8-172
CBA0		Front saddle stapler home position error: The stapler home position detection is abnormally operated and finished. [MJ-1106/1108]	P. 8-173
CBB0		Rear saddle stapler home position error: The stapler home position detection is abnormally operated and finished. [MJ-1106/1108]	P. 8-173
CBC0		Saddle Stitch Finisher side alignment motor (M15) abnormality: The alignment motor is not rotating or the alignment plate is not working properly. [MJ-1106/1108]	P. 8-173
CBE0		Saddle Stitch Finisher folding motor (M17) abnormality: The folding motor is not rotating or the folding roller is not moving normally. [MJ-1106/1108]	P. 8-174
CBF0		Stacker motor (M9) abnormality: The stacker motor is not rotating. [MJ-1033]	P. 8-175

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Error code	Classification	Contents	Troubleshooting
CC01	Finisher related service call	A model not supporting the Finisher is connected. Note that this error is recognized in the communication converter and is output.	-
CC02		Stack exit roller nip home position detection error: The detection of the home position of the stack exit roller nip ends abnormally. [MJ-1032/MJ-1033]	P. 8-175
CC20		Saddle communication error [MJ-1106/1108]	P. 8-176
CC21		The detection of the home position of the saddle stitch 3rd transport roller drive motor ends abnormally.	P. 8-176
CC22		The detection of the home position of the saddle stitch stapler unit ends abnormally.	P. 8-177
CC23		An abnormal interruption of the encoder pulse of the folding blade occurs.	-
CC30		Stack transport motor abnormality: The stack transport motor is not rotating or the stack transport belt is not moving normally. [MJ-1101/1107/MJ-1106/1108]	P. 8-178
CC31		Transport motor abnormality: The transport motor is not rotating or the stack transport roller -1 and -2 is not rotating normally. [MJ-1101/1107/MJ-1106/1108]	P. 8-178
CC41		Paper holder cam home position abnormality: The paper holder cam is not at the home position. [MJ-1101/1107]	P. 8-179
CC51		Sideways adjustment motor (M2) abnormality: Sideways adjustment motor is not rotating or puncher is not shifting normally. [MJ-1101/1106 (when MJ-6103 is installed), MJ-1107/1108 (when MJ-6104 is installed)]	P. 8-180
CC52		Skew adjustment motor (M1) abnormality: Skew adjustment motor is not rotating or puncher is not shifting normally. [MJ-1101/1106 (when MJ-6103 is installed), MJ-1107/1108 (when MJ-6104 is installed)]	P. 8-181
CC53		An abnormality occurs in the punch waste full sensor.	P. 8-182
CC54		Hole punch registration sensor detection error: An abnormality occurs in the hole punch registration sensor. [MJ-1032/MJ-1033]	P. 8-182
CC60		Punch motor abnormality: Punch motor is not rotating or puncher is not shifting normally.]	P. 8-185
CC61		Punch motor (M3) home position detection error: Punch motor is not rotating or puncher is not shifting normally. [MJ-1101/1106 (when MJ-6103 is installed), MJ-1107/1108 (when MJ-6104 is installed)]	P. 8-185
CC71		Punch ROM checksum error: Abnormality of checksum value on Hole punch controller PC board is detected when the power is turned on. [MJ-1101/1106 (when MJ-6103 is installed), MJ-1107/1108 (when MJ-6104 is installed)]	P. 8-186
CC72		Punch RAM read/write error: Abnormality of checksum value on Hole punch controller PC board is detected when the power is turned on. [MJ-1101/1106 (when MJ-6103 is installed), MJ-1107/1108 (when MJ-6104 is installed)]	P. 8-186
CC80		Rear alignment motor abnormality: The rear alignment motor is not rotating or the rear alignment plate is not moving normally. [MJ-1101/1107/MJ-1106/1108] Rear alignment plate home position detection error: The detection of the home position ends abnormally because the rear alignment plate has not worked properly. [MJ-1032/MJ-1033]	P. 8-186

Error code	Classification	Contents	Troubleshooting
CC91	Finisher related service call	The detection of the home position of the gripper arm ends abnormality.	P. 8-188
CC92		The movable tray exceeds its upper limit.	P. 8-188
CC93		Knurled roller shift solenoid abnormality: An abnormality occurs in the knurled roller shift solenoid. [MJ-1032]	P. 8-189
CC94		1st fan motor abnormality: The 1st fan motor is locked abnormally. [MJ-1032]	P. 8-189
CCF1		Tray safety switch abnormality - The tray safety switch turned on during tray operation (moving up or down).	-
CDE0		Paddle motor abnormality: The paddle motor does not rotate properly.	P. 8-189
CDF0	Offset tray related service call	Initialization error of the offset tray: The home position of the separator cannot be detected when the power is turned ON.	P. 8-191
CE00	Optional communication related service call	Communication error between finisher unit and puncher unit: Communication error between the finisher controller PC board and punch controller PC board.	P. 8-150
CE50	Process related service call	Temperature/humidity sensor abnormality: The output value of this sensor is out of a specified range.	P. 8-139
CE90		Drum thermistor abnormality: The output value of the drum thermistor-K is out of a specified range.	P. 8-139
CF10	Finisher related service call	Communication module SRAM reading failure. [MJ-1101/1107]	P. 8-190
F070	Communication related service call	Communication error between System-CPU and Engine-CPU	P. 8-190
F090	Circuit related service call	SRAM abnormality on the SYS board	P. 8-151
F100_0	Other service call	HDD format error: Operation of HDD key data fails.	P. 8-192
F100_1		HDD format error: Encryption key data of either the SYS board or the SRAM board for the SYS board are damaged.	P. 8-192
F100_2		HDD format error: Encryption key data of both the SYS board and the SRAM board for the SYS board are damaged.	P. 8-193
F101_0		HDD connection error (HDD connection cannot be detected.)	P. 8-194
F101_1		Root partition mount error (HDD formatting fails.): The HDD cannot be connected (mounted) caused by damage to the areas in which the program is mainly stored.	P. 8-194
F101_2		Partition mount error: The HDD cannot be connected (mounted) caused by damage to areas other than those described in the F101_1 and F101_4 to F101_9 errors.	P. 8-194
F101_3		Partition mount error: The HDD cannot be connected (mounted) caused by damage to areas other than those described in the F101_1 and F101_4 to F101_9 errors.	P. 8-194
F101_4		Partition mount error: The HDD cannot be connected (mounted) caused by damage to the "/work" partition.	P. 8-195
F101_5		Partition mount error: The HDD cannot be connected (mounted) caused by damage to the "/registration" partition.	P. 8-196
F101_6		Partition mount error: The HDD cannot be connected (mounted) caused by damage to the "/backup" partition.	P. 8-197
F101_7		Partition mount error: The HDD cannot be connected (mounted) caused by damage to the "/imagedata" partition.	P. 8-198
F101_8		Partition mount error: The HDD cannot be connected (mounted) caused by damage to the "/storage" partition.	P. 8-199
F101_9		Partition mount error: The HDD cannot be connected (mounted) caused by damage to the "/encryption" partition.	P. 8-200
F102		HDD start error: HDD cannot become 'Ready' state.	P. 8-201

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ERROR CODE AND TROUBLESHOOTING

Error code	Classification	Contents	Troubleshooting
F103	Other service call	HDD transfer time-out: Reading/writing cannot be performed in the specified period of time.	P. 8-201
F104		HDD data error: Abnormality is detected in the data of HDD.	P. 8-201
F105		HDD other error	P. 8-201
F106_0		ADI-HDD error: Illegal disk replacement detected (ADI-HDD Exchange to SATA-HDD)	P. 8-201
F106_1		ADI-HDD error: HDD type detection error	P. 8-202
F106_2		ADI-HDD error: ADI encryption key download operation error	P. 8-202
F106_3		ADI-HDD error: ADI authentication Admin Password generation error	P. 8-203
F106_4		ADI-HDD error: Authentication random number generation error	P. 8-203
F106_5		ADI-HDD error: Authentication data transmission error	P. 8-203
F106_6		ADI-HDD error: Error caused by reason other than F106_0 to 5 errors.	P. 8-204
F106_7			P. 8-204
F106_8			P. 8-204
F106_10			P. 8-204
F106_UNDEF			P. 8-204
F109_0		Key consistency error: Consistency check operation error.	P. 8-204
F109_1		Key consistency error: SRAM encryption AES key data damage.	P. 8-205
F109_2		Key consistency error: Signature Check public key damage.	P. 8-205
F109_3		Key consistency error: HDD encryption parameter damage.	P. 8-206
F109_4		Key consistency error: license data damage.	P. 8-207
F109_5		Key consistency error: Encryption key for ADI-HDD is damaged.	P. 8-208
F109_6		Key consistency error: Administrator password error for ADI-HDD authentication.	P. 8-210
F110	Communication related service call	Communication error between System-CPU and Scanner-CPU	P. 8-153
F111		Scanner response abnormality	P. 8-153
F120	Other service call	Database abnormality: Database is not operating normally.	P. 8-211
F121		Database abnormality (user information management database)	P. 8-212
F122		Database abnormality (Message/Job log management database)	P. 8-212
F124		Database abnormality: Database is not operating normally. (Language management database)	P. 8-213
F130		Invalid MAC address	P. 8-213
F131		Error due to damage to filtering setting file	P. 8-213
F140		ASIC format error: ASIC formatting fails or memory acquiring fails when software is formatted.	P. 8-213
F200		Data Overwrite option (GP-1070) disabled	P. 8-214
F350	Circuit related service call	SLG board abnormality	P. 8-152
F400		SYS board cooling fan abnormality	P. 8-152

Error code	Classification	Contents	Troubleshooting
F500	Other service call	HD partition damage	P. 8-214
F510		Application start error	P. 8-214
F520		Operating system start error	P. 8-215
F521		Integrity check error	P. 8-215
F550		Encryption partition error	P. 8-215
F600		Software update error	P. 8-215
F700		Overwrite error	P. 8-216
F800		Date error	P. 8-216
F900		Model information error	P. 8-217
F901		Engine speed error: The speed information of the LGC board is damaged.	P. 8-218
F901_1		Engine speed error: The speed information of the LGC board is damaged.	P. 8-218

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ERROR CODE AND TROUBLESHOOTING

8.2.3   Error in Internet FAX / Scanning Function

1. Internet FAX related error

Error code	Contents	Troubleshooting
1C10	System access abnormality	P. 8-219
1C11	Insufficient memory	P. 8-219
1C12	Message reception error	P. 8-219
1C13	Message transmission error	P. 8-219
1C14	Invalid parameter	P. 8-219
1C15	Exceeding file capacity	P. 8-220
1C20	System management module access abnormality	P. 8-220
1C21	Job control module access abnormality	P. 8-220
1C22	Job control module access abnormality	P. 8-220
1C30	Directory creation failure	P. 8-220
1C31	File creation failure	P. 8-220
1C32	File deletion failure	P. 8-219
1C33	File access failure	P. 8-220
1C40	Image conversion abnormality	P. 8-220
1C60	HDD full failure during processing	P. 8-221
1C61	Address Book reading failure	P. 8-221
1C63	Terminal IP address unset	P. 8-221
1C64	Terminal mail address unset	P. 8-221
1C65	SMTP address unset	P. 8-221
1C66	Server time-out error	P. 8-222
1C69	SMTP server connection error	P. 8-222
1C6B	Terminal mail address error	P. 8-222
1C6C	Destination mail address error	P. 8-222
1C6D	System error	P. 8-222
1C70	SMTP client OFF	P. 8-223
1C71	SMTP authentication error	P. 8-223
1C72	POP before SMTP error	P. 8-223
1C80	Internet FAX transmission failure when processing E-mail job received	P. 8-223
1C81	Onramp Gateway transmission failure	P. 8-223
1C82	Internet FAX transmission failure when processing FAX job received	P. 8-223
1CC0	Job canceling	-
1CC1	Power failure	P. 8-223

2. RFC related error

Error code	Message displayed in the TopAccess screen	Contents	Troubleshooting
2500	Syntax error, command unrecognized	HOST NAME error (RFC: 500) Destination mail address error (RFC: 500) Terminal mail address error (RFC: 500)	P. 8-225
2501	Syntax error in parameters or arguments	HOST NAME error (RFC: 501) Destination mail address error (RFC: 501) Terminal mail address error (RFC: 501)	P. 8-225
2503	Bad sequence of commands	Destination mail address error (RFC: 503)	P. 8-225
2504	Command parameter not implemented	HOST NAME error (RFC: 504)	P. 8-225
2550	Mailbox unavailable	Destination mail address error (RFC: 550)	P. 8-225
2551	User not local	Destination mail address error (RFC: 551)	P. 8-225
2552	Insufficient system storage	Terminal/Destination mail address error (RFC: 552)	P. 8-225
2553	Mailbox name not allowed	Destination mail address error (RFC: 553)	P. 8-226

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3. Electronic Filing related error

Error code	Message displayed in the TopAccess screen	Contents	Troubleshooting
2B10	There was no applicable job.	No applicable job error in job control module	P. 8-227
2B11	Job status failed.	JOB status abnormality	P. 8-227
2B20	Failed to access file.	File library function error	P. 8-227
2B21	Message size exceeded limit or maximum size	Exceeding file capacity	P. 8-227
2B30	Insufficient disk space.	Insufficient disk space in /SHR partition	P. 8-227
2B31	Failed to access Electronic Filing.	Status of specified Electronic Filing or folder is undefined or being created/deleted	P. 8-227
2B32	Failed to print Electronic Filing document.	Electronic Filing printing failure: Specified document can not be printed because of client's access (being edited, etc.).	P. 8-227
2B50	Failed to process image.	Image library error	P. 8-228
2B51	Failed to process print image.	List library error	P. 8-228
2B60	The folder was renamed. A folder of the same name already existed.	A folder with the same name exists in the box.	-
2B70	The document was renamed. A document of the same name already existed.	A document with the same name exists in the box or folder.	-
2B71	Document(s) expire(s) in a few days	Documents expiring in a few days exist	-
2B80	Hard Disk space for Electronic Filing nearly full.	Hard disk space in /SHR partition is nearly full (90%).	-
2B90	Insufficient Memory.	Insufficient memory capacity	P. 8-228
2BA0	Invalid Box password specified.	Invalid Box password	P. 8-228
2BA1	Incorrect paper size	A Paper size not supported in the Electronic Filing function is being selected.	P. 8-228
2BB0	Job canceled	Job canceling	-
2BB1	Power failure occurred	Power failure	P. 8-229
2BC0	System fatal error.	Fatal failure occurred.	P. 8-228
2BC1	Failed to acquire resource.	System management module resource acquiring failure	P. 8-228
2BD0	Power failure occurred during e-Filing restoring.	Power failure occurred during restoring of Electronic Filing	P. 8-229
2BE0	Failed to get machine parameter.	Machine parameter reading failure	P. 8-229
2BF0	Maximum number of pages has been exceeded (list Maximum)	Exceeding maximum number of pages	P. 8-229
2BF1	Maximum number of documents has been exceeded (list Maximum)	Exceeding maximum number of documents	P. 8-229
2BF2	Maximum number of folders has been exceeded (list Maximum)	Exceeding maximum number of folders	P. 8-229

4. Remote scanning related error

Error code	Message displayed in the TopAccess screen	Contents	Troubleshooting
2A20	Failed to acquire resource	System management module resource acquiring failure	P. 8-230
2A31	WS Scan function is not available	Disabled WS Scan	P. 8-230
2A40	System fatal error	System error	P. 8-230
2A50	Job canceling	Job canceling	-
2A51	Power failure	Power failure	P. 8-230
2A60	Authentication for WS Scan failed	WS Scan user authentication failure	P. 8-230
2A70	Insufficient permission to execute Remote Scan	Remote Scan privilege check error	P. 8-231
2A71	Insufficient permission to execute WS Scan	WS Scan privilege check error	P. 8-231
2A72	Insufficient permission to access e-Filing box using scan utility.	e-Filing data access privilege check error (Scan Utility)	P. 8-231

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5. E-mail related error

Error code	Message displayed in the TopAccess screen	Contents	Troubleshooting
2C10	Illegal Job status	System access abnormality	P. 8-232
2C11	Not enough memory	Insufficient memory	P. 8-232
2C12	Illegal Job status	Message reception error	P. 8-232
2C13	Illegal Job status	Message transmission error	P. 8-232
2C14	Invalid parameter specified	Invalid parameter	P. 8-232
2C15	Message size exceeded limit or maximum size	Exceeding file capacity	P. 8-232
2C20	Illegal Job status	System management module access abnormality	P. 8-233
2C21	Illegal Job status	Job control module access abnormality	P. 8-233
2C22	Illegal Job status	Job control module access abnormality	P. 8-233
2C30	Failed to create directory	Directory creation failure	P. 8-233
2C31	Failed to create file	File creation failure	P. 8-233
2C32	Failed to delete file	File deletion failure	P. 8-232
2C33	Failed to create file	File access failure	P. 8-233
2C40	Failed to convert image file format	Image conversion abnormality	P. 8-233
2C43	Encryption error. Failed to create file.	Encryption error	P. 8-233
2C44	Creating the image file was not permitted.	Encryption PDF enforced mode error	P. 8-234
2C45	Failed in making meta data.	Meta data creation error (Scan to Email)	P. 8-234
2C60	Failed to process your Job. Insufficient disk space.	HDD full failure during processing	P. 8-234
2C61	Failed to read AddressBook	Address Book reading failure	P. 8-234
2C62	Not enough memory	Memory acquiring failure	P. 8-233
2C63	Invalid Domain Address	Terminal IP address unset	P. 8-234
2C64	Invalid Domain Address	Terminal mail address unset	P. 8-235
2C65	Failed to connect to SMTP server	SMTP address unset	P. 8-235
2C66	Failed to connect to SMTP server	Server time-out error	P. 8-235
2C69	Failed to connect to SMTP server	SMTP server connection error	P. 8-235
2C6A	Failed to send E-Mail message	HOST NAME error (No RFC error)	P. 8-235
2C6B	Invalid address specified in From: field	Terminal mail address error	P. 8-236
2C6C	Invalid address specified in To: field	Destination mail address error (No RFC error)	P. 8-236
2C70	SMTP service is not available	SMTP client OFF	P. 8-236
2C71	Failed SMTP Authentication	SMTP authentication error	P. 8-236
2C72	POP Before SMTP Authentication Failed	POP before SMTP error	P. 8-236
2C80	Failed to process received E-mail job	E-mail transmission failure when processing E-mail job received	P. 8-236
2C81	Failed to process received Fax job	Process failure of FAX job received	P. 8-237
2CC0	Job canceled	Job canceling	-
2CC1	Power failure occurred	Power failure	P. 8-237

6. File sharing related error

Error code	Message displayed in the TopAccess screen	Contents	Troubleshooting
2D10	Illegal Job status	System access abnormality	P. 8-238
2D11	Not enough memory	Insufficient memory	P. 8-238
2D12	Illegal Job status	Message reception error	P. 8-238
2D13	Illegal Job status	Message transmission error	P. 8-238
2D14	Invalid parameter specified	Invalid parameter	P. 8-238
2D15	There are too many documents in the folder. Failed in creating new document.	Exceeding document number	P. 8-239
2D20	Illegal Job status	System management module access abnormality	P. 8-239
2D21	Illegal Job status	Job control module access abnormality	P. 8-239
2D22	Illegal Job status	Job control module access abnormality	P. 8-239
2D30	Failed to create directory	Directory creation failure	P. 8-239
2D31	Failed to create file	File creation failure	P. 8-239
2D32	Failed to delete file	File deletion failure	P. 8-239
2D33	Failed to create file	File access failure	P. 8-239
2D40	Failed to convert image file format	Image conversion abnormality	P. 8-239
2D43	Encryption error. Failed to create file.	Encryption error	P. 8-240
2D44	Creating the image file was not permitted.	Encryption PDF enforced mode error	P. 8-240
2D45	Failed in making meta data.	Meta data creation error (Scan to File)	P. 8-240
2D60	Failed to copy file	File library access abnormality	P. 8-239
2D61	Invalid parameter specified	Invalid parameter	P. 8-238
2D62	Failed to connect to network destination. Check destination path	File server connection error	P. 8-240
2D63	Specified network path is invalid. Check destination path	Invalid network path	P. 8-240
2D64	Logon to file server failed. Check username and password	Login failure	P. 8-241
2D65	There are too many documents in the folder. Failed in creating new document.	Exceeding documents in folder: Creating new document is failed.	P. 8-241
2D66	Failed to process your Job. Insufficient disk space.	HDD full failure during processing	P. 8-239
2D67	FTP service is not available	FTP service not available	P. 8-241
2D68	File Sharing service is not available	File sharing service not available	P. 8-241
2D69	NetWare service is not available	NetWare service not available	P. 8-242
2DA0	Expired scan documents deleted from share folder.	Periodical deletion of scanned documents completed properly.	-
2DA1	Expired Sent Fax documents deleted from shared folder.	Periodical deletion of transmitted FAX documents completed properly.	-
2DA2	Expired Received Fax documents deleted from shared folder.	Periodical deletion of received FAX documents completed properly.	-
2DA3	Scanned documents in shared folder deleted upon user's request.	Manual deletion of scanned documents completed properly.	-
2DA4	Sent Fax Documents in shared folder deleted upon user's request.	Manual deletion of transmitted FAX documents completed properly.	-

Error code	Message displayed in the TopAccess screen	Contents	Troubleshooting
2DA5	Received Fax Documents in shared folder deleted upon user's request.	Manual deletion of received FAX documents completed properly.	-
2DA6	Failed to delete file.	File deletion failure	P. 8-238
2DA7	Failed to acquire resource.	Resource acquiring failure	P. 8-238
2DA8	The HDD is running out of capacity for the shared folder.	Hard disk space in /SHA partition is nearly full (90%).	-
2DC0	Job canceled	Job canceling	-
2DC1	Power failure occurred	Power failure	P. 8-242
2E10	Failed to store document(s) in USB folder.	USB storage system access abnormality	P. 8-242
2E11	Failed to store document(s) in USB folder.	Insufficient memory capacity for USB storage	P. 8-242
2E12	Failed to store document(s) in USB folder.	Message reception error in USB storage	P. 8-242
2E13	Failed to store document(s) in USB folder.	Message transmission error in USB storage	P. 8-242
2E14	Failed to store document(s) in USB folder.	Invalid parameter for USB storage	P. 8-243
2E15	Document size exceeded limit or maximum size	Exceeding the maximum size for file sharing	P. 8-243
2E30	Failed to store document(s) in USB folder.	Creation of a directory failed.	P. 8-243
2E31	Failed to store document(s) in USB folder.	File creation failure in USB storage	P. 8-243
2E32	Failed to store document(s) in USB folder.	File deletion failure in USB storage	P. 8-243
2E33	Failed to store document(s) in USB folder.	File access failure in USB storage	P. 8-244
2E40	Failed to convert image file format	Image conversion abnormality in USB storage	P. 8-244
2E43	Encryption error. Failed to create file.	Encryption failure in USB storage	P. 8-244
2E44	Creating the image file was not permitted.	Encryption PDF enforced mode error in USB storage	P. 8-244
2E45	Failed in making meta data.	Meta data creation error in USB storage (Scan to File)	P. 8-244
2E65	There are too many documents in folders. Failed in creating new document.	File creation error due to insufficient USB folder capacity	P. 8-245
2E66	Failed To Process your Job. Insufficient Storage space.	HDD full failure during USB storage	P. 8-245
2EC0	Job Canceled	Job Canceled	-
2EC1	Power Failure Job Aborted	Power failure in USB storage	P. 8-245

7. E-mail reception related error

Error code	Message displayed in the TopAccess screen	Contents	Troubleshooting
3A10	MIME Error has been detected in the received mail.	E-mail MIME error	P. 8-246
3A20	Analyze Error has been detected in the received mail.	E-mail analysis error	P. 8-246
3A30	Whole partial mails were not reached by timeout.	Partial mail time-out error	P. 8-246
3A40	Partial Mail Error has been detected in the received mail.	Partial mail related error	P. 8-246
3A50	HDD Full Error has been occurred in this mail.	Insufficient HDD capacity error	P. 8-247
3A70	Receiving partial mail was aborted since the partial mail setting has been changed to Disable.	Warning of partial mail interruption	P. 8-247
3A80	Partial mail was received during the partial mail setting is disabled.	Partial mail reception setting OFF	P. 8-247
3B10	Format Error has been detected in the received mail.	E-mail format error	P. 8-246
3B20	Content-Type Error has been detected in the received mail.	Content-Type error	P. 8-247
3B40	Decode Error has been detected in the received mail.	E-mail decode error	P. 8-246
3C10	Tiff Analyze Error has been detected in the received mail.	TIFF analysis error	P. 8-248
3C13	Tiff Analyze Error has been detected in the received mail.		P. 8-248
3C20	Tiff Compression Error has been detected in the received mail.	TIFF compression error	P. 8-248
3C30	Tiff Resolution Error has been detected in the received mail.	TIFF resolution error	P. 8-248
3C40	Tiff Paper Size Error has been detected in the received mail.	TIFF paper size error	P. 8-248
3C50	Offramp Destination Error has been detected in the received mail.	Offramp destination error	P. 8-249
3C60	Offramp Security Error has been detected in the received mail.	Offramp security error	P. 8-249
3C70	Power Failure has been occurred in E-mail receiving.	Power failure error	P. 8-249
3C90	OffRamp Fax transmission disable error has been detected in the received mail.	OffRamp Fax transmission disable error	P. 8-249
3D10	SMTP Destination Error has been detected in the received mail. This mail was deleted.	Destination address error	P. 8-249
3D20	Offramp Destination limitation Error has been detected in the received mail.	Offramp destination limitation error	P. 8-250
3D30	Fax Board Error has been occurred in the received mail.	FAX board error	P. 8-250
3E10	POP3 Connection Error has been occurred in the received mail.	POP3 server connection error	P. 8-250
3E20	POP3 Connection Timeout Error has been occurred in the received mail.	POP3 server connection time-out error	P. 8-250
3E30	POP3 Login Error has been occurred in the received mail.	POP3 login error	P. 8-250

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Error code	Message displayed in the TopAccess screen	Contents	Troubleshooting
3E40	POP3 Login Error occurred in received mail.	POP3 login method error	P. 8-251
3F10	File I/O Error has been occurred in this mail. The mail could not be received until File I/O is recovered.	File I/O error	P. 8-251
3F20			P. 8-251

8.2.4 Printer function error

Following codes are displayed at the end of the user name on the print job log screen

Error code	Contents	Troubleshooting
4011	Print job cancellation: Print job (copy, list print, network print) is deleted from the print job screen.	P. 8-252
4021	Print job power failure: The power of the equipment is turned OFF during print job (copy, list print, network print).	P. 8-252
4031	HDD full during print: Large quantity image data by private print or invalid network print are saved in HDD.	P. 8-252
4032	Private-print-only error: Jobs other than Private print jobs cannot be performed.	P. 8-252
4033	Printing data storing limitation error: Printing with its data being stored to the HDD temporarily (Proof print, Private print, Scheduled print, etc.) cannot be performed.	P. 8-252
4034	e-Filing storing limitation error: Printing with its data being stored to the HDD (print and e-Filing, print to e-Filing, etc.) cannot be performed.	P. 8-253
4035	Local file storing limitation error: Network FAX or Internet FAX cannot be sent when "Local" is selected for the destination of the file to save.	P. 8-253
4037	Hardcopy security printing error: hardcopy security printing job is performed when the function is restricted.	P. 8-253
4038	Restriction error (only for hold print jobs)	P. 8-253
4039	Restriction error (only for private/hold print jobs)	P. 8-253
4040	Not being authorized to perform JOB	P. 8-253
4041	User authentication error: The user who intended to print a document is not registered as a user.	P. 8-254
4042	Department authentication error? A department whose code is specified for a print job is not registered.	P. 8-254
4050	Problem in LDAP server connection or LDAP server authorization settings	P. 8-254
4111	Quota over error (The number of the assigned pages set by department and user management has reached 0.): The numbers of output pages have exceeded those specified with both of the department code and the user code at the same time.	P. 8-254
4112	Quota over error (The number of the assigned pages set by user management has reached 0.): The number of output pages has exceeded the one specified with the user code.	P. 8-254
4113	Quota over error (The number of the assigned pages set by department management has reached 0.): The number of output pages has exceeded the one specified with the department code.	P. 8-255
4121	Job canceling due to external counter error	P. 8-255
4214	Fax/Internet FAX transmission limitation error: Fax / Internet FAX transmission function or Network Fax/Internet Fax function is disabled.	P. 8-255
4241	No Printer Kit / Printer Kit function disabled: The Printer Kit or the Printer/Scanner Kit is not installed. Or network printing of an XPS file is performed, or network printing is performed after the termination of a trial period.	P. 8-252
4242	Internet FAX or storing to a share folder function using a network fax driver is disabled since the Scanner kit is not installed firmly, but the Printer kit is installed.	P. 8-252
4300	USB direct printing: Job execution error due to functional restrictions - Printing with he USB direct printing function restricted	P. 8-256
4301	USB direct printing: File conversion error - Printing a file whose format is not supported, or an invalid file	P. 8-256
4311	Printing not permitted: Printing is not permitted or only printing in a low resolution level is permitted due to the encryption language of the encrypted PDF file. *　Permitted only when a user password is entered.	P. 8-256
4312	Password mismatching: The entered password is neither matched with a user password nor an owner password.	P. 8-256
4313	File storing limitation error: The file storing function is set to "disabled".	P. 8-256

Error code	Contents	Troubleshooting
4314	Fax/Internet Fax transmission limitation error: Fax / Internet FAX transmission function or Network Fax/Internet FAX function is disabled.	P. 8-256
4411	Image data creation failure: Data that you tried to print may be corrupted. • Network print: Data are corrupted or invalid. • Direct print: A file is corrupted or not in a supported format.	P. 8-257
4412	Double-sign encoding error: A double-sign encoding error occurred because the PDF file is encrypted in a forbidden language or in a language not supported.	P. 8-257
4611	Font download failure (exceeding maximum number of registrations): A new font cannot be registered because the number of fonts registered in this equipment has reached the limit.	P. 8-257
4612	Font download failure (HDD full): A new font cannot be registered because there is not sufficient space in the font storage area of this equipment.	P. 8-257
4613	Font download failure (others): A new font cannot be registered due to other abnormality.	P. 8-257
4621	Font deletion failure: A font cannot be deleted because the specified font does not exist, the specified font is undeletable or any other abnormality occurred.	P. 8-257
4F10	Printing was not performed successfully due to other abnormalities.	P. 8-258

8.2.5 TOSHIBA Remote monitoring system error (TopAccess related error)

Error code	Message displayed in the TopAccess screen	Contents	Troubleshooting
5010	-	Internal setting error: There is a print job, a proof print job, a private print job, a print job without a set department code, a scan job or a fax job remaining in this equipment.	P. 8-259
5012	Invalid temporary password and permanent password	Authentication error: A temporary password downloaded from e-Bridge and entered in this equipment is not valid, or the permanent password set in the e-Bridge is not valid.	P. 8-259
5013	e-Bridge communication error	e-Bridge communication error: Communication is attempted while the e-Bridge is enabled for some reason such as version upgrade.	P. 8-259
5014	No SSL certificate	No SSL certificate: There is no SSL certificate or the certificate is not in a correct file format.	P. 8-259
5015	Invalid SSL certificate	Invalid SSL certificate: SSL certificate is not valid.	P. 8-260
5016	Expired SSL certificateIncorrect time in MFP	Expired SSL certificate: SSL certificate is expired.	P. 8-260
5017	Other SSL certificate related error	Other SSL certificate related error: SSL certificate is invalid.	P. 8-260
5018	Invalid DNS error	Invalid DNS error: DNS address is invalid.	P. 8-260
5019	Connection error	Connection error: Settings for initial URL and proxy are incorrect.	P. 8-260
501A	Proxy error	Proxy error: IP address or port for proxy setting is invalid.	P. 8-261
501B	No URL (host/port) or invalid path	No URL (host/port) or invalid path: Initial URL is invalid.	P. 8-261
5030	HTTP communication error	An error in the HTTP communication	P. 8-261
50FF	eBR2 internal error	A fatal error occurred in the MFP	P. 8-261
5110	Toner Not Recognized - Please Check Toner.	Toner cartridge detection error.	P. 8-261
5BD0	Power failure occurred during restore	Power supply is cut off during the restoration of database sent from TopAccess	P. 8-262
5C10	FAX Unit is not attached.	Network FAX is disabled because the FAX Unit is not attached	P. 8-262
5C11	Security error on Address Book.	The network FAX job failed because the specified address is not registered in the Address Book	P. 8-262

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Error code	Message displayed in the TopAccess screen	Contents	Troubleshooting
5C20	The file has been imported	Displayed when data have been imported from TopAccess (Not an error message)	P. 8-262
5C21	Failed to import the file - Invalid file format	Data import from TopAccess failed due to invalid file format	P. 8-263

8.2.6 MFP access error

Error code	Message displayed in the TopAccess screen	Contents	Troubleshooting
6007	Failed user login	Unsuccessful User Login to MFP: User authentication cannot be done because connection to the authentication server has failed.	P. 8-264
6008	Failed to connect on External LDAP server for Role Base Access Control	Failed to connect on External Role Base Access Control (LDAP) Server: User authentication cannot be done because connection to an external RBAC server has failed.	P. 8-264
6013	Failed to connect on the authentication server	Connection failure to the authentication server: Failed to connect to the authentication server	P. 8-264
6014	Detected the authentication server that cannot be connected	Detected the authentication server that cannot be connected: The authentication server that cannot be accessed is detected.	P. 8-264
6032	Illegal period.	Card related error: Expired card: The card cannot be used because it has expired.	P. 8-264
6033	No entering record.	Card related error: Invalid flag data (no room-entry data): The card cannot be used because no room-entry data are recorded in it.	P. 8-265
6034	Illegal entering record.	Card related error: Invalid flag data (invalid card data): The card cannot be used because the data required for the use of the card are not correctly set.	P. 8-265
6037	You cannot be used.	No permission flag	P. 8-265
6041	Card Authentication Failed because of Card Reading Error	Card authentication: Card related error: Card data cannot be obtained correctly.	P. 8-265
6042	Card Authentication Failed because of Setting Error	Card authentication: Card setting error: The self-diagnostic code required for card authentication is not set in this equipment correctly.	P. 8-265
6100	User account is locked	User account locking out	P. 8-265
6101	Box is locked	e-Filing box locking out	P. 8-266
6102	Failed to login because the user account had been locked out.	User account being locking out	P. 8-266
6103	Failed to access Box because the Box had been locked out.	e-Filing box being locking out	P. 8-266
6121	Failed to Secure Erase	Automatic Secure Erase failure	P. 8-266
6131	MFP fail to verify clock with Time Server	Clock skew failure to time server	P. 8-266

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Error code	Message displayed in the TopAccess screen	Contents	Troubleshooting
6150	Print Log full (100% Used) Log OverWrite will be start	Print log DB full	P. 8-266
6151	Print Log near full (95% Used)	Print log DB near-full (95%)	P. 8-267
6152	Print Log near full (90% Used)	Print log DB near-full (90%)	P. 8-267
6153	Print Log near full (80% Used)	Print log DB near-full (80%)	P. 8-267
6154	Print Log near full (70% Used)	Print log DB near-full (70%)	P. 8-267
6160	Scan Log full (100% Used) Log OverWrite will be start	Scan log DB full	P. 8-267
6161	Scan Log near full (95% Used)	Scan log DB near-full (95%)	P. 8-267
6162	Scan Log near full (90% Used)	Scan log DB near-full (90%)	P. 8-268
6163	Scan Log near full (80% Used)	Scan log DB near-full (80%)	P. 8-268
6164	Scan Log near full (70% Used)	Scan log DB near-full (70%)	P. 8-268
6170	FAX_Transmission Log full (100% Used) Log OverWrite will be started	FAX transmission log DB full	P. 8-268
6171	FAX_Transmission Log near full (95% Used)	FAX transmission log DB near-full (95%)	P. 8-268
6172	FAX_Transmission Log near full (90% Used)	FAX transmission log DB near-full (90%)	P. 8-268
6173	FAX_Transmission Log near full (80% Used)	FAX transmission log DB near-full (80%)	P. 8-268
6174	FAX_Transmission Log near full (70% Used)	FAX transmission log DB near-full (70%)	P. 8-269
6180	FAX_Receive Log full (100% Used) Log OverWrite will be start	FAX reception log DB full	P. 8-269
6181	FAX_Receive Log near full (95% Used)	FAX reception log DB near-full (95%)	P. 8-269
6182	FAX_Receive Log near full (90% Used)	FAX reception log DB near-full (90%)	P. 8-269
6183	FAX_Receive Log near full (80% Used)	FAX reception log DB near-full (80%)	P. 8-269
6184	FAX_Receive Log near full (70% Used)	FAX reception log DB near-full (70%)	P. 8-269
6190	Message Log full (100% Used) Log OverWrite will be start	Message log DB full	P. 8-270
6191	Message Log near full (95% Used)	Message log DB near-full (95%)	P. 8-270
6192	Message Log near full (90% Used)	Message log DB near-full (90%)	P. 8-270
6193	Message Log near full (80% Used)	Message log DB near-full (80%)	P. 8-270
6194	Message Log near full (70% Used)	Message log DB near-full (70%)	P. 8-270

8.2.7 Maintenance error

Error code	Message displayed in the TopAccess screen	Contents	Troubleshooting
7101	Failed to update Copier Firmware	System firmware installation failure	P. 8-271
7103	Failed to update Copier Engine Firmware	Engine firmware installation failure	P. 8-271
7105	Failed to update Copier Scanner Firmware	Scanner firmware installation failure	P. 8-271
7107	Failed to update Copier MEP Firmware	MEP firmware installation failure	P. 8-271
7109	Failed to update Printer Driver	Printer driver upload failure	P. 8-271
710B	Failed to update Point And Print	Point and Print data upload failure	P. 8-271
710F	Failed to install Language Pack	Failed to install Language Pack Language Pack installation failure	P. 8-271
7111	Failed to install Patch	Patch installation failure	P. 8-271
7113	Failed to install Plugin	Plug-in installation failure	P. 8-271
7115	Failed to update HDD Data	HDD data installation failure	P. 8-271
7117	Failed to update Reversing Automatic Document Feeder ROM	ADF firmware installation failure	P. 8-271
711D	Failed to remove License Key	License key returning failure	P. 8-272
711F	Failed to install License Key	License key installation failure	P. 8-272
7121	Failed to import Address Book	Address Book data import failure	P. 8-272
7123	Failed to import Template	Template data import failure	P. 8-272
7125	Failed to import Mail Boxes	MailBox data import failure	P. 8-272
7127	Failed to import XML Format File	Format file for Meta Scan import failure	P. 8-273
7129	Failed to import User Information	User Information import failure	P. 8-273
712B	Failed to import Role Information	Role information import failure	P. 8-273
712D	Failed to import Department Code	Department code data import failure	P. 8-273
712F	Failed to import ICC Profile	ICC Profile import failure	P. 8-273
7131	Failed to import Print Data Converter	Print Data Converter import failure	P. 8-273
7132	Failed to import some User Information	User Information import partial success	P. 8-274
7133	Failed to import some User, Role and Group information	User Combined data import partial success	P. 8-274
7134	Failed to import some Department Code	Department code data import partial success	P. 8-274
7139	Failed to import the certificate by SCEP	Certification from SCEP server acquisition failure	P. 8-274
713B	Failed to import the certificate	Certification import failure	P. 8-274
713D	Failed to import Combined data (User Information, Role, Group)	User Combined data import failure	P. 8-275

Error code	Message displayed in the TopAccess screen	Contents	Troubleshooting
713F	Failed to import Combined data (Template, Address Book, Mail Boxes)	All data (Template/AddressBook/MailBox) import failure	P. 8-275
7141	Failed to export Address Book	Address Book data export failure	P. 8-275
7143	Failed to export Template	Template data export failure	P. 8-275
7145	Failed to export Mail Boxes	MailBox data export failure	P. 8-275
7147	Failed to export XML Format File	Format file for Meta Scan export failure	P. 8-275
7149	Failed to export User Information	User Information export failure	P. 8-276
714B	Failed to export Role Information	Role information export failure	P. 8-276
714D	Failed to export Department Code	Department code data export failure	P. 8-276
714F	Failed to export ICC Profile	ICC Profile export failure	P. 8-276
7151	Failed to export Log data	Log data export failure	P. 8-276
715B	Failed to export Print Data Converter	Print Data Converter export failure	P. 8-276
715D	Failed to export Combined data (User Information, Role, Group)	User Combined data export failure	P. 8-277
715F	Failed to export Combined data (Template, Address Book, Mail Boxes)	All data (Template/AddressBook/MailBox) export failure	P. 8-277
7191	Failed to upload DDNS public key file	Download of DDNS public key file has failed	P. 8-277
7193	Failed to upload DDNS private key file	Download of DDNS nonpublic key file has failed	P. 8-277
71A2	Failed to add CA certificate	CA certification addition failure	P. 8-277
71A4	Failed in consistency confirmation of cryptographic key	Encryption key consistency confirmation failure	P. 8-278
71A6	Failed to delete Device Certificate.	Device certification deletion failure	P. 8-278
71A8	Failed to delete CA Certificate.	CA certification deletion failure	P. 8-278
71AA	Invalid Error Occurred while getting Certificate from SCEP server	Unidentified error during certificate acquisition from SCEP server	P. 8-278
71AB	Timeout Error Occurred while getting Certificate from SCEP server	Timeout error during certificate acquisition from SCEP server	P. 8-278
71AC	File Save Error Occurred while getting Certificate from SCEP server	File save error during certificate acquisition from SCEP server	P. 8-279
71AD	SCEP operation failure.	SCEP operation has failed	P. 8-279
71B0	Failed to decrypt Software Package	Software package file decryption failure	P. 8-279
71D0	Failed to restore Factory Default settings	Factory Default failure	P. 8-279
71F1	Failed to create Clone File	Clone file creation failure	P. 8-279
71F3	Failed to import Clone File	Clone data import failure	P. 8-280
71F4	Failed to decrypt Clone File	Clone file decryption failure	P. 8-280
71F5	Failed to encrypt Cone File	Clone file encryption failure	P. 8-280

8.2.8 Network error

Error code	Message displayed in the TopAccess screen	Contents	Troubleshooting
8000	Static IPv4 duplicated address detected	IPv4 address overlaps.	P. 8-281
8011	Link Local address of IPv6 was duplicated.	Linklocal Address Conflict	P. 8-281
8012	Manual address of IPv6 was duplicated.	Manual IPv6 Address Conflict	P. 8-281
8013	Stateless address of IPv6 was duplicated.	Stateless Address Conflict	P. 8-281
8014	Stateful address of IPv6 was duplicated.	Stateful Address Conflict	P. 8-281
8021	-	Used to delete error message on panel.	-
8022	Authentication Failure	Failed in 802.1X authentication.	P. 8-281
8023	Can not contact Authentication Server/Switch	Failed in connection to authentication server and switch.	P. 8-281
8024	Certificate verification Failure	Failed in verification of certificate.	P. 8-282
8031	No IKE proposal chosen	Ipsec error for ikev1 certification failed	P. 8-282
8032	IKE Certificate Authentication failed	Ipsec error for wrong proposal chosen	P. 8-282
8033	IKE Pre-shared key Authentication failed	Ipsec error if auth for shared key failed	P. 8-282
8034	Invalid Certificate	Ipsec error if invalid certificate uploaded	P. 8-282
8035	Certificate Type unsupported	Ipsec error if certificate not supported	P. 8-282
8036	Invalid certificate authority	Ipsec error if invalid certificate authentication	P. 8-283
8037	Certificate unavailable	Ipsec error if certificate are not available	P. 8-283
8038	No ISAKMP SA established	Ipsec error for SA is not present	P. 8-283
8039	Invalid Signature	Ipsec error for invalid signature for certificate	P. 8-283
803A	No IKEv2 proposal chosen	Ipsec error is proposal chosen is wrong	P. 8-283
803B	IKEv2 Certificate Authentication failed	Ipsec error for ikev2 certification failed	P. 8-284
803C	IKEv2 Secret key Authentication failed	Ipsec error for ikev2 if secret key auth failed	P. 8-284
803D	Falling Back to IKEv1	Ipsec error if peer does not support IKEv2 and falling back to IKEv1	P. 8-284
803E	ISAKMP SA unusable (deleted)	Ipsec error if ISAKMP SA is not created of destroyed due to some uncertain condition	P. 8-284
803F	Crypto operation failed	Ipsec error for ikev2 if crypto operation failed	P. 8-284

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Error code	Message displayed in the TopAccess screen	Contents	Troubleshooting
8040	Invalid key information	Ipsec error for ikev2 if key info is invalid	P. 8-285
8041	CA not trusted	Ipsec error for ikev2 if CA is not trusted	P. 8-285
8042	Authentication Method mismatch	Ipsec error if auth method is not matching	P. 8-285
8043	IKE Version mismatch	Ipsec error if ike version is not matching	P. 8-285
8044	Encapsulation mode mismatch	Ipsec error for encapsulation is not matching	P. 8-285
8045	Peer IP Address mismatch	Ipsec error for peer ip mismatch	P. 8-285
8046	Local IP Address mismatch	Ipsec error for local ip mismatch	P. 8-286
8047	Local ID mismatch	Ipsec error for local id mismatch	P. 8-286
8048	Remote ID mismatch	Ipsec error for remote id mismatch	P. 8-286
8049	IPsec Remote IP mismatch	Ipsec error for remote ip mismatch	P. 8-286
804A	IKEv1/IKEv2 Timed out	Ipsec error for ike timeout	P. 8-286
804B	Invalid manual key data	Ipsec error id manual key is not valid	P. 8-286
8061	Secure Update to Primary IPv4 DDNS failed.	Secure primary DDNS update error	P. 8-287
8062	Secure Update to Secondary IPv4 DDNS failed	Secure secondary DDNS update error	P. 8-287
8063	Secure Update to Primary IPv6 DDNS failed.	Secure primary DDNS update error	P. 8-287
8064	Secure Update to Secondary IPv6 DDNS failed	Secure secondary DDNS update error	P. 8-287
8065	IPv6 Update to Primary DDNS failed.	IPv6 primary DDNS update error	P. 8-287
8066	IPv6 Update to Secondary DDNS failed.	IPv6 secondary DDNS update error	P. 8-287
8067	IPv4 Update to Primary DDNS failed.	IPv4 primary DDNS update error	P. 8-287
8068	IPv4 Update to Secondary DDNS failed.	IPv4 secondary DDNS update error	P. 8-287
8069	Invalid TSIG/SIG(0) Key file uploaded	This message is displayed when the key file for SIG(0) or TSIG is invalid	P. 8-287
8101	Wireless association with Access point failure	Wireless association with Access point failure	P. 8-287
8102	Unable to contact Access point	MFP not able to contact the Access point with the specified SSID	P. 8-287
8103	Certificate verification Failure	Wireless Certificate verification failure	P. 8-288
8111	SNMP set request failure	An error occurred during SNMP data writing.	P. 8-288
8112	SNMP communication failure	SNMP communication failed.	P. 8-288

Error code	Message displayed in the TopAccess screen	Contents	Troubleshooting
8121	General failure	Domain authentication error: Domain authentication error	P. 8-288
8122	Invalid Username / Password	Domain authentication error: Invalid user name or password	P. 8-288
8123	Server not exists on the NetWork	Domain authentication error: Invalid server	P. 8-289
8124	User Account has been Disabled	Domain authentication error: Invalid user account	P. 8-289
8125	User Account has been Expired	Domain authentication error: Expired user account	P. 8-289
8126	User Account has been Locked out	Domain authentication error: User account lockout	P. 8-289
8127	Invalid logon hours for User Account	Domain authentication error: Invalid logon hours	P. 8-290
8128	Time delay between Server and MFP	Active Directory domain authentication error: Time delay between server and equipment	P. 8-290
8129	Ticket has been Expired	Active Directory domain authentication error: Expired Kerberos ticket	P. 8-290
812A	Ticket Verification has been failed	Active Directory domain authentication error: Kerberos ticket authentication error	P. 8-290
812B	Unknown Realm	Active Directory domain authentication error: invalid realm name	P. 8-290

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8.2.9　Error history

In the setting mode (08-9703), the latest twenty groups of error data will be displayed.
Display example

EA10	99999999	2013-07-11 17:05:32	064	064	2362_1000_0000_0_XXXXXXXXXX
Error code	Total counter	YYYY-MM-DD HH:MM:SS	MMM	NNN	ABCD_EFHI_JLOP_Q_R
4 digits	8 digits	14 digits	3 digits	3 digits	23 digits

A	Paper source
	0: Not selected 1: Bypass feed 2: LCF 3: Upper drawer 4: Lower drawer 5: PFP upper drawer 6: PFP lower drawer 7: Unused 8: Unused
B	Paper size code
	0: A5/ST 1: A5-R 2: ST-R 3: LT 4: A4 5: B5-R 6: LT-R 7: A4-R 8: OTHER/UNIV 9: B5 A: FOLIO/COMP B: LG C: B4 D: LD E: A3 F: 13" LG G: Unused H: A6-R I: Postcard J: 8.5SQ K: Unused L: Unused M: 8K N: 16K-R O: 16K P: Envelope COM10 Q: Envelope DL R: Envelope Monarch S: Envelope (lengthwise, No. 3) T: Envelope (lengthwise, No. 4) U: Unused V: Unused Z: Not selected
C	Sort mode/staple mode
	0: Non-sort/Non-staple 1: Group 2: Sort 7: Front staple 8: Double staple 9: Rear staple A: Saddle stitch
D	ADF mode
	0: Unused 1: AUTO FEED (SADF) 2: STACK FEED
E	APS/AMS mode
	0: Not selected 1: APS 2: AMS
F	Duplex mode
	Copy: 0: Single-sided/Single-sided 1: Book 2: Double-sided/Single-sided 4: Double-sided/ Duplex copying 8: Single-sided/Duplex copying Printer 0: Single-sided 8: Double-sided FAX 0: Single-sided 8: Double-sided e-Filing 0: Single-sided 8: Double-sided List printing 0: Single-sided -
G	Unused
H	Image shift
	0: Unused 1: Book 2: Left 3: Right 4: Top 5: Bottom 6: Book+Top 7: Book+Bottom 8: Left+Top 9: Left+Bottom A: Right+Top B: Right+Bottom
I	Editing
	0: Unused 1: Masking 2: Trimming 3: Mirror image 4: Positive/negative reverse 5: Unused
J	Edge erase/Dual-page
	0: Unused 1: Edge erase 2: Dual-page 3: Edge erase & Dual-page

K	Unused
L	Function
	0: Unused 1: Copying 2: FAX/Internet FAX transmission 3: FAX/Internet FAX/E-mail reception printing 4: Unused 5: Printing/List print 6: Scan/E-mail transmission
MMM	Primary scanning reproduction ratio (Display in hexadecimal)
	Mx256)+(Mx16)+M
O	Mode
	0: Auto color 1: Full color 2: Black 3: Unused 4: Unused 5: Gray scale 6: Unused 7: Unused
P	Media type
	0: Plain paper 1: Thick 1 2: Thick 2 3: Thick 3 4: Thick 4 5: Special paper 1 6: Special paper 2 7: Recycled paper 8: Plain paper 1 9: Plain paper 2 A: Thin paper B: OHP film C: Thick 1/ reverse D: Thick 2/ reverse E: Thick 3/ reverse F: Thick 4/ reverse G: Special paper 1/ reverse H: Special paper 2/ reverse I: Envelope J: Tab paper Z: Unused
Q	RADF size mixed
	0: Unused 1: Size mixed 2: Single-size document
R	Workflow ID: 10-digit ID

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8.3 Diagnosis and Prescription for Each Error Code

8.3.1 Check item

Check item	Contents
Sensor check	• Check the sensor in the test mode. • Check that there is no dust on the sensor. • Check that the actuator is correctly operated.
Connector check	• Check that the connector is not disconnected. • Check that the pins are not deformed and do not come off. • Disconnect and reconnect the connector.
Harness check	• Check if the harnesses are open circuited.
Motor check	• Check the motor in the test mode. • Check that there is no abnormality in the driving section. • Check that there is no abnormality in the roller.
Board check	• Check if the board is short circuited or open circuited.

8.3.2 Paper exit jam

[E010] Leading edge of paper not reaching the exit sensor
[E020] Trailing edge of paper not passing the exit sensor

Classification	Error content
Paper exit jam	Jam not reaching the exit sensor Stop jam at the exit sensor

Proce dure	Check item	Result	Measure	Next Step
1	Open the Automatic duplexing unit. Is there any paper on the transport path?	Yes	Remove the paper.	
		No		2
2	Is the exit sensor working? (Perform the input check in the test mode: 03-[FAX]ON/[9]/[B])	Yes		3
		No	• Check if the connector of the exit sensor is disconnected. • Check if the connector CN309 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor pattern on the LGC board is short circuited or open circuited. • Replace the exit sensor • Replace the LGC board	
3	Is the registration roller clutch working? (Perform the output check in the test mode: 03-108/ 158)	Yes		4
		No	• Check if the connector of the registration roller clutch is disconnected. • Check if the connector CN315 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor pattern on the LGC board is short circuited or open circuited. • Replace the registration roller clutch. • Replace the LGC board.	
4	Registration roller		• Check the registration roller. Replace it if it is worn out.	

Parts to be replaced	Remark
Exit sensor	
LGC board	
Registration roller clutch	
Registration roller	

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8.3.3 Paper transport jam

[E200] Paper fed from the upper drawer not reaching the registration sensor
[E210] Paper fed from the lower drawer not reaching the registration sensor
[E300] Paper fed from the PFP upper drawer not reaching the registration sensor
[E330] Paper fed from the PFP lower drawer not reaching the registration sensor
[E3C0] Paper fed from the LCF not reaching the registration sensor

Classification	Error content
Paper transport jam	Paper not reaching the registration sensor

Proce dure	Check item	Result	Measure	Next Step
1	Open the Automatic duplexing unit. Is there paper in front of the registration sensor?	Yes	Remove the paper.	
		No		2
2	Is the registration sensor working? (Perform the input check in the test mode: 03-[FAX]ON/[9]/[A]	Yes		3
		No	• Check if the connector of the registration sensor is disconnected. • Check if the connector CN316 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited • Check if the conductor pattern on the LGC board is short circuited or open circuited. • Replace the registration sensor. • Replace the LGC board.	
3	Are the (high-speed/low-speed) clutches working? (Perform the output check in the test mode: 03-203, 205)	Yes		4
		No	• Check if the connectors of the (high-speed/low-speed) transport clutches are disconnected. • Check if the connector CN316 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor pattern on the LGC board is short circuited or open circuited. • Replace the (high-speed/low-speed) transport clutches. • Replace the LGC board.	
4	Feed roller Separation roller Pickup roller Transfer roller		• Check the condition of the feed roller, separation roller and pickup roller of each paper source, and replace them if they are worn out. • Check the transport roller. Replace it if it is worn out.	

Parts to be replaced	Remark
Registration roller	
LGC board	
High-speed/low-speed transport clutches	
Feed roller	

Parts to be replaced	Remark
Separation roller	
Pickup roller	
Transfer roller	

[E270] Bypass transport jam (Paper not reaching the registration sensor)
[E280] ADU transport jam (Paper not reaching the registration sensor)

Classification	Error content
Paper transport jam	Jam not reaching the registration sensor

Proce dure	Check item	Result	Measure	Next Step
1	Open the Automatic duplexing unit. Is there paper in front of the registration sensor?	Yes	Remove the paper.	
		No		2
2	Is the registration sensor working? (Perform the input check in the test mode: 03-[FAX]ON/[9]/[A]	Yes		3
		No	• Check if the connector of the registration sensor is disconnected. • Check if the connector CN316 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor pattern on the LGC board is short circuited or open circuited. • Replace the registration sensor. • Replace the LGC board.	
3	Is the bypass feed clutch/ ADU clutch working? (Perform the output check in the test mode: 03-204/ 222)	Yes		4
		No	• Check if the connector of the bypass feed clutch/ADU clutch is disconnected. • Check if the connector CN311 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor pattern on the LGC board is short circuited or open circuited. • Replace the bypass feed clutch/ADU clutch. • Replace the LGC board.	
4	Registration roller		• Check the registration roller. Replace it if it is worn out.	

Parts to be replaced	Remark
Registration sensor.	
LGC board	
Bypass feed clutch	
ADU clutch	
Registration roller	

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[E220] Paper fed from the lower drawer not reaching the 1st transport sensor
[E310] Paper fed from the PFP upper drawer not reaching the 1st transport sensor
[E340] Paper fed from the PFP lower drawer not reaching the 1st transport sensor
[E3D0] Paper fed from the LCF not reaching the 1st transport sensor

Classification	Error content
Paper transport jam	Jam not reaching the 1st transport sensor

Proce dure	Check item	Result	Measure	Next Step
1	Open the Automatic duplexing unit. Is there paper in front of the 1st transport sensor?	Yes	Remove the paper.	
		No		2
2	Is the 1st transport sensor working? (Perform the input check in the test mode: 03-[FAX]OFF/[6]/[A])	Yes		3
		No	• Check if the connector of the 1st transport sensor is disconnected. • Check if the connector CN316 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor pattern on the LGC board is short circuited or open circuited. • Replace the 1st transport sensor. • Replace the LGC board.	
3	Are the (high-speed/low-speed) transport clutches working? (Perform the output check in the test mode: 03-203, 205)	Yes		4
		No	• Check if the connectors of the (high-speed/low-speed) transport clutches are disconnected. • Check if the connector CN316 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor pattern on the LGC board is short circuited or open circuited. • Replace the (high-speed/low-speed) transport clutches. • Replace the LGC board.	
4	Feed roller Separation roller Pickup roller Transfer roller		• Check the condition of the feed roller, separation roller and pickup roller of each paper source, and replace them if they are worn out. • Check the transport roller. Replace it if it is worn out.	

Parts to be replaced	Remark
1st transport sensor	
LGC board	
Feed roller	
Separation roller	
Pickup roller	
Transfer roller	

[E320] Paper fed from the PFP upper drawer not reaching the 2nd transport sensor
[E350] Paper fed from the PFP lower drawer not reaching the 2nd transport sensor
[E3E0] Paper fed from the LCF not reaching the 2nd transport sensor

Classification	Error content
Paper transport jam	Jam not reaching the 2nd transport sensor

Proce dure	Check item	Result	Measure	Next Step
1	Open the side cover. Is there paper in front of the 2nd transport sensor?	Yes	Remove the paper.	
		No		2
2	Is the 2nd transport sensor working? (Perform the input check in the test mode: 03-[FAX]OFF/[7]/[A]	Yes		3
		No	• Check if the connector of the 2nd transport sensor is disconnected. • Check if the connector CN316 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor pattern on the LGC board is short circuited or open circuited. • Replace the 2nd transport sensor. • Replace the LGC board.	
3	Is the PFP transport clutch working? (Perform the output check in the test mode: 03-225)	Yes		4
		No	• Check if the connector of the PFP transport clutch is disconnected. • Check if any of the connectors CN241 and CN244 on the PFP board is disconnected. • Check if the connector CN318 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor patterns on the PFP board and LGC board are short circuited or open circuited. • Replace the PFP transport clutch. • Replace the PFP board. • Replace the LGC board.	
4	Feed roller Separation roller] Pickup roller Transfer roller		• Check the condition of the feed roller, separation roller and pickup roller of each paper source, and replace them if they are worn out. • Check the transport roller. Replace it if it is worn out.	

Parts to be replaced	Remark
2nd transport sensor.	
LGC board	
PFP transport clutch	
PFP board	
Feed roller	
Separation roller	
Pickup roller	

Parts to be replaced	Remark
Transfer roller	

[E510] ADU stack jam (paper not reaching the ADU entrance sensor

Classification	Error content
Paper transport jam (ADU section)	Jam not reaching the ADU entrance sensor

Proce dure	Check item	Result	Measure	Next Step
1	Open the ADU. Is there any paper in front of the ADU entrance sensor?	Yes	Remove the paper.	
		No		2
2	Is the ADU entrance sensor working? (Perform the input check in the test mode: 03-[FAX]OFF/[1]/ [D])	Yes		3
		No	• Check if the connector of the ADU entrance sensor is disconnected. • Check if the connector CN311 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor patterns on the MOT board and LGC board are short circuited or open circuited. (e-STUDIO206L/256/306 / 207L/257/307) • Check if the conductor patterns on the MOT2 board and LGC board are short circuited or open circuited. (e-STUDIO356/456/506 / 357/457/507) • Replace the ADU entrance sensor. • Replace the LGC board.	

Proce dure	Check item	Result	Measure	Next Step
3	Is the exit motor (rotating in reverse) working? (Perform the output check in the test mode: 03-121/ 171): e-STUDIO206L/256/ 306 / 207L/257/307 (Perform the output check in the test mode: 03-124/ 174): e-STUDIO356/456/ 506 / e-STUDIO357/457/ 507	Yes		4
		No	• Check if the connector of the exit motor is disconnected. • Check if the connector CN431 on the MOT board is disconnected. (e-STUDIO206L/256/306 / 207L/257/307) • Check if the connector CN405 on the MOT2 board is disconnected. (e-STUDIO356/456/506 / 357/457/507) • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor pattern on the LGC board and MOT board is short circuited or open circuited. (e-STUDIO206L/256/306 / 207L/257/307) • Check if the conductor pattern on the LGC board and MOT2 board is short circuited or open circuited. (e-STUDIO356/456/506 / 357/457/507) • Replace the exit motor. • Replace the MOT board. (e-STUDIO206L/ 256/356 / 207L/257/357) • Replace the MOT2 board. (e-STUDIO356/ 456/506 / 357/457/507) • Replace the LGC board.	
4	ADU		• Check the rollers in the ADU and the exit roller of the equipment. Replace them if they are worn out.	

Parts to be replaced	Remark
ADU entrance sensor	
LGC board	
Exit motor	
ADU exit sensor	
Exit board	
LGC board	
Rollers in the ADU	
Exit roller	

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[E520] ADU transport jam (paper not reaching the ADU exit sensor

Classification	Error content
Paper transport jam (ADU section)	Jam not reaching the ADU exit sensor

Proce dure	Check item	Result	Measure	Next Step
1	Open the ADU. Is there any paper in front of the ADU exit sensor?	Yes	Remove the paper.	
		No		2
2	Is the ADU exit sensor working? (Perform the input check in the test mode: 03-[FAX]OFF/[1]/[E])	Yes		3
		No	• Check if the connector of the ADU exit sensor is disconnected. • Check if the connector CN311 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor patterns on the LGC board are short circuited or open circuited. • Replace the ADU exit sensor. • Replace the LGC board.	
3	Is the ADU motor working? (Perform the output check in the test mode: 03-119)	Yes		4
		No	• Check if the connector of the ADU motor is disconnected. • Check if the connector CN402 and CN404 on the MOT/MOT2 board is disconnected. • Check if the connector CN303 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor pattern on the LGC board is short circuited or open circuited. • Replace the ADU exit sensor. • Replace the MOT/MOT2 board. • Replace the LGC board.	
4	ADU		• Check the rollers in the ADU. Replace them if they are worn out.	

Parts to be replaced	Remark
ADU exit sensor	
LGC board	
ADU exit sensor	
MOT board	
MOT2 board	
Rollers in the ADU	

[E570] Jam not reaching the reverse sensor
[E580] Stop jam at the reverse sensor

Classification	Error content
Paper transport jam	Jam not reaching the reverse sensor Stop jam at the reverse sensor

Proce dure	Check item	Result	Measure	Next Step
1	Checking of paper		• Open the ADU and remove paper if there is any on the transport path. * If the error still occurs, check the following:	2
2	Is the reverse sensor working? (Perform the input check in the test mode: 03-[FAX]ON/[9]/[C])	Yes		3
		No	- Check if the connector pins are disconnected or the harnesses are open circuited between the reverse sensor and the connector CN304 on the LGC board. Correct if there is any abnormality. - Replace the reverse sensor. - Replace the LGC board.	
3	Is the reverse motor working? (Perform the output check in the test mode: 03-123/173)	Yes	Check the exit roller. Replace it if it is worn out.	
		No	• Check if the connector pins are disconnected or the harnesses are open circuited between the reverse motor and the connector CN304 on the LGC board (and also the connectors CN401 and CN406 on the MOT2 board). Correct if there is any abnormality. • Replace the reverse motor. • Replace the MOT2 board. • Replace the LGC board.	

Parts to be replaced	Remark
Reverse sensor	
LGC board	
Exit roller	
Reverse motor	
MOT2 board	

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[EB50] Paper left on the transport path due to multiple feeding

Classification	Error content
Paper transport jam	The multiple feeding of preceding paper caused the misfeeding of upcoming paper.

When the paper is fed from the upper drawer:

Proce dure	Check item	Result	Measure	Next Step
1	ADU		Open the ADU and remove paper if there is any on the transport path.	2
2	Is the registration sensor working? (Perform the input check: 03-[FAX]/ON/ [9]/[A])	Yes	Check the rollers. Replace them if they are worn out	
		No		3
3	LGC board		1. Check if the connector CN316 on the LGC board is disconnected. 2. Check if the connector pins are disconnected or the harnesses are open circuited. 3. Check if the conductor patterns on the LGC board are short circuited or open circuited.	

Parts to be replaced	Remark
Registration sensor	
LGC board	
Rollers on the transport path	

When the paper is fed from the bypass tray:

Proce dure	Check item	Result	Measure	Next Step
1	ADU		Open the ADU and remove paper if there is any on the transport path.	2
2	Is the 1st transport sensor working? (Perform the input check: 03-[FAX]/ OFF/[6]/[A])	Yes		3
		No		4
3	Is the registration sensor working? (Perform the input check in the test mode: 03-[FAX]ON/[9]/[A])	Yes	Check the rollers. Replace them if they are worn out	
		No		5
4	LGC board		1. Check if the connector CN316 on the LGC board is disconnected. 2. Check if the connector pins are disconnected or the harnesses are open circuited. 3. Check if the conductor patterns on the LGC board are short circuited or open circuited. 4. Replace the 1st transport sensor. 5. Replace the LGC board.	
5	LGC board, registration sensor		1. Check if the connector CN316 on the LGC board is disconnected. 2. Check if the connector pins are disconnected or the harnesses are open circuited. 3. Check if the conductor patterns on the LGC board are short circuited or open circuited. 4. Replace the registration sensor. 5. Replace the LGC board.	

Parts to be replaced	Remark
1st transport sensor	
LGC board	
Registration sensor	
Rollers on the transport path	

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When the paper is fed from the lower drawer:

Proce dure	Check item	Result	Measure	Next Step
1	ADU		Open the ADU and remove paper if there is any on the transport path.	2
2	Is the registration sensor working? (Perform the input check: 03-[FAX]/ON/ [9]/[A])	Yes	Check the rollers. Replace them if they are worn out	
		No		3
3	LGC board, registration sensor		1. Check if the connector CN316 on the LGC board is disconnected. 2. Check if the connector pins are disconnected or the harnesses are open circuited. 3. Check if the conductor patterns on the LGC board are short circuited or open circuited. 4. Replace the registration sensor. 5. Replace the LGC board.	

Parts to be replaced	Remark
Registration sensor	
LGC board	
Rollers on the transport path	

When the paper is fed from the PFP or LCF

Proce dure	Check item	Result	Measure	Next Step
1	Feed cover		Open the feed cover and remove paper if there is any on the transport path.	2
2	Is the 2nd transport sensor working? (Perform the input check: 03-[FAX]/ OFF/[7]/[A])	Yes	Check the rollers. Replace them if they are worn out	
		No		3
3	LGC board, 2nd transport sensor		1. Check if the connector CN316 on the LGC board is disconnected. 2. Check if the connector pins are disconnected or the harnesses are open circuited. 3. Check if the conductor patterns on the LGC board are short circuited or open circuited. 4. Replace the 2nd transport sensor. 5. Replace the LGC board.	

Parts to be replaced	Remark
LGC board	
2nd transport sensor	
Rollers on the transport path	

[EB60] Paper left on the transport path due to multiple feeding

Classification	Error content
Paper transport jam	The multiple feeding of preceding paper caused the misfeeding of upcoming paper

Proce dure	Check item	Result	Measure	Next Step
1	Open the Automatic duplexing unit. Is there any paper in front of the registration sensor?	Yes	Remove the paper.	
		No		2
2	Is the registration sensor working? (Perform the input check in the test mode: 03-[FAX]OFF/[6]/[E])	Yes		3
		No	• Check if the connector CN316 on the LGC board is disconnected. • Check if the connector of the registration sensor is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor pattern on the LGC board is short circuited or open circuited. • Replace the registration sensor. • Replace the LGC board.	
3	Roller		• Check the rollers. Replace them if they are worn out.	

Parts to be replaced	Remark
Registration sensor	
LGC board	
Rollers on the transport path	

[E360] Paper fed from the PFP lower drawer not reaching the PFP upper drawer feed sensor

Classification	Error content
Paper transport jam	Jam not reaching the PFP upper drawer feed sensor

Proce dure	Check item	Result	Measure	Next Step
1	Open the PFP side cover. Is there any paper in front of the PFP upper drawer feed sensor?	Yes	Remove the paper.	
		No		2

Proce dure	Check item	Result	Measure	Next Step
2	Is the PFP upper drawer feed sensor working? (Perform the input check in the test mode: 03-[FAX]OFF/[7]/[A])	Yes		3
		No	• Check if the connector of the PFP upper drawer feed sensor is disconnected. • Check if either of the connectors CN241 or CN243 on the PFP board is disconnected. • Check if the connector CN318 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor patterns on the PFP board and LGC board are short circuited or open circuited. • Replace the PFP upper drawer feed sensor. • Replace the PFP board. • Replace the LGC board.	
3	Is the PFP feed clutch working? (Perform the output check in the test mode: 03-226)	Yes		4
		No	• Check if the connector of the PFP transport clutch is disconnected. • Check if any of the connectors CN241 and CN247 on the PFP board is disconnected. • Check if the connector CN318 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor patterns on the PFP board and LGC board are short circuited or open circuited. • Replace the PFP transport clutch. • Replace the PFP board. • Replace the LGC board.	
4	Feed roller Separation roller Pickup roller PFP transfer roller		• Check the condition of the feed roller, separation roller and pickup roller of each paper source, and replace them if they are worn out. • Check the PFP transport roller. Replace it if it is worn out.	

Parts to be replaced	Remark
PFP upper drawer feed sensor	
PFP board	
LGC board	
PFP transport clutch	
Feed roller	
Separation roller	
Pickup roller	
PFP transport roller	

8.3.4 Paper misfeeding

[E110] ADU misfeeding

Classification	Error content
Paper misfeeding	Jam not reaching the registration sensor)

Proce dure	Check item	Result	Measure	Next Step
1	Open the ADU. Is there any paper in front of the registration sensor?	Yes	Remove the paper.	
		No		2
2	Is the registration sensor working? (Perform the input check in the test mode: 03-[FAX]ON/[9]/[A])	Yes		3
		No	• Check if the connector of the 1st transport sensor is disconnected. • Check if the connector CN316 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor pattern on the LGC board is short circuited or open circuited. • Replace the 1st registration sensor. • Replace the LGC board.	
3	Is the ADU clutch working? (Perform the output check in the test mode: 03-222)	Yes		4
		No	• Check if the connector of the ADU clutch is disconnected. • Check if the connector CN304 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor pattern on the LGC board is short circuited or open circuited. • Replace the ADU clutch. • Replace the LGC board.	
4	Rollers in the ADU		• Check the rollers in the ADU. Replace them if they are worn out.	

Parts to be replaced	Remark
ADU clutch	
LGC board	
Rollers in the ADU	

8

[E120] Bypass misfeeding

Classification	Error content
Paper misfeeding	Jam not reaching the 1st transport sensor

Proce dure	Check item	Result	Measure	Next Step
1	Open the Automatic duplexing unit. Is there any paper in front of the 1st transport sensor?	Yes	Remove the paper.	
		No		2
2	Is the 1st transport sensor working? (Perform the input check in the test mode: 03-[FAX]OFF/[6]/[A])	Yes		3
		No	• Check if the connector of the 1st transport sensor is disconnected. • Check if the connector CN316 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor pattern on the LGC board is short circuited or open circuited. • Replace the 1st transport sensor. • Replace the LGC board.	
3	Is the bypass feed clutch working? (Perform the output check in the test mode: 03-204) Is the bypass paper sensor working? (Perform the input check in the test mode: 03-[FAX]OFF/[1]/[D])	Yes		4
		No	• Check if the connector of the bypass feed clutch and bypass paper sensor are disconnected. • Check if the connector CN311 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor pattern on the LGC board is short circuited or open circuited. • Replace the bypass feed clutch and bypass paper sensor. • Replace the LGC board.	
4	Bypass feed roller Separation pad		• Check the bypass feed roller and separation pad. Replace them if they are worn out.	

Parts to be replaced	Remark
1st transport sensor	
LGC board	
Bypass feed clutch	
Bypass paper sensor	
Bypass feed roller	
Separation pad	

[E130] Upper drawer misfeeding (paper not reaching the 1st transport sensor)

Classification	Error content
Paper misfeeding	Jam not reaching the 1st transport sensor

Proce dure	Check item	Result	Measure	Next Step
1	Open the Automatic duplexing unit. Is there any paper in front of the 1st transport sensor?	Yes	Remove the paper.	
		No		2
2	Is the 1st transport sensor working? (Perform the input check in the test mode: 03-[FAX]OFF/[6]/[A])	Yes		3
		No	• Check if the connector of the 1st transport sensor is disconnected. • Check if the connector CN316 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor pattern on the LGC board is short circuited or open circuited. • Replace the 1st transport sensor. • Replace the LGC board.	
3	Is the upper drawer feed clutch working? (Perform the output check in the test mode: 03-201)	Yes		4
		No	• Check if the connector of the upper drawer feed clutch is disconnected. • Check if the connector CN315 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor pattern on the LGC board is short circuited or open circuited. • Replace the upper drawer feed clutch. • Replace the LGC board.	
4	Upper drawer feed roller Separation roller		• Check the upper drawer feed roller, separation roller and pickup roller. Replace them if they are worn out.	

Parts to be replaced	Remark
1st transport sensor.	
LGC board	
Upper drawer feed clutch	
Upper drawer feed roller	
Separation roller	
Pickup roller	

8

[E140] Lower drawer misfeeding (paper not reaching the 2nd transport sensor)

Classification	Error content
Paper misfeeding	Jam not reaching the 2nd transport sensor

Proce dure	Check item	Result	Measure	Next Step
1	Open the feed cover. Is there any paper in front of the 2nd transport sensor?	Yes	Remove the paper.	
		No		2
2	Is the 2nd transport sensor working? (Perform the input check in the test mode: 03-[FAX]OFF/[7]/[A])	Yes		3
		No	• Check if the connector of the 2nd transport sensor is disconnected. • Check if the connector CN316 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor pattern on the LGC board is short circuited or open circuited. • Replace the 2nd transport sensor. • Replace the LGC board.	
3	Is the lower drawer feed clutch working? (Perform the output check in the test mode: 03-202)	Yes		4
		No	• Check if the connector of the lower drawer feed clutch is disconnected. • Check if the connector CN315 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor pattern on the LGC board is short circuited or open circuited. • Replace the lower drawer feed clutch. • Replace the LGC board.	
4	Lower drawer feed roller Separation roller Pickup roller		• Check the lower drawer feed roller, separation roller and pickup roller. Replace them if they are worn out.	

Parts to be replaced	Remark
2nd transport sensor	
LGC board	
Lower drawer feed clutch	
Lower drawer feed roller	
Separation roller	
Pickup roller	

[E150] PFP upper drawer misfeeding (paper not reaching the PFP upper drawer feed sensor)

Classification	Error content
Paper misfeeding	Jam not reaching the PFP upper drawer feed sensor

Proce dure	Check item	Result	Measure	Next Step
1	Open the PFP side cover. Is there any paper in front of the PFP upper drawer feed sensor?	Yes	Remove the paper.	
		No		2
2	Is the PFP upper drawer feed sensor working? (Perform the input check in the test mode: 03-[FAX]OFF/[2]/[B])	Yes		3
		No	• Check if the connector of the PFP upper drawer feed sensor is disconnected. • Check if either of the connectors CN241 or CN243 on the PFP board is disconnected. • Check if the connector CN318 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor patterns on the PFP board and LGC board are short circuited or open circuited. • Replace the PFP upper drawer feed sensor. • Replace the PFP board. • Replace the LGC board.	
3	Is the PFP upper drawer feed clutch working? (Perform the output check in the test mode: 03-226)	Yes		4
		No	• Check if the connector of the PFP upper drawer feed clutch is disconnected. • Check if any of the connectors CN241 and CN247 on the PFP board is disconnected. • Check if the connector CN318 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor patterns on the PFP board and LGC board are short circuited or open circuited. • Replace the PFP upper drawer feed clutch. • Replace the PFP board. • Replace the LGC board.	
4	PFP upper drawer feed roller Separation roller Pickup roller		• Check the PFP upper drawer feed roller, separation roller and pickup roller. Replace them if they are worn out.	

Parts to be replaced	Remark
PFP upper drawer feed sensor	
PFP board	
LGC board	
PFP upper drawer feed clutch	
PFP upper drawer feed roller	
Separation roller	

Parts to be replaced	Remark
Pickup roller	

[E160] PFP lower drawer misfeeding (paper not reaching the PFP lower drawer feed sensor)

Classification	Error content
Paper misfeeding	Jam not reaching the PFP lower drawer feed sensor

Proce dure	Check item	Result	Measure	Next Step
1	Open the PFP side cover. Is there any paper in front of the PFP lower drawer feed sensor?	Yes	Remove the paper.	
		No		2
2	Is the PFP lower drawer feed sensor working? (Perform the input check in the test mode: 03-[FAX]OFF/[3]/[B])	Yes		3
		No	• Check if the connector of the PFP lower drawer feed sensor is disconnected. • Check if either of the connectors CN241 or CN243 on the PFP board is disconnected. • Check if the connector CN318 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor patterns on the PFP board and LGC board are short circuited or open circuited. • Replace the PFP lower drawer feed sensor. • Replace the PFP board. • Replace the LGC board.	
3	Is the PFP lower drawer feed clutch working? (Perform the output check in the test mode: 03-228)	Yes		4
		No	• Check if the connector of the PFP lower drawer feed clutch is disconnected. • Check if any of the connectors CN241 and CN248 on the PFP board is disconnected. • Check if the connector CN318 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor patterns on the PFP board and LGC board are short circuited or open circuited. • Replace the PFP lower drawer feed clutch. • Replace the PFP board. • Replace the LGC board.	
4	PFP lower drawer feed roller Separation roller Pickup roller		• Check the PFP lower drawer feed roller, separation roller and pickup roller. Replace them if they are worn out.	

Parts to be replaced	Remark
PFP lower drawer feed sensor.	
PFP board	

Parts to be replaced	Remark
LGC board	
PFP lower drawer feed clutch	
PFP lower drawer feed roller,	
Separation roller	
Pickup roller	

8

[E190] LCF misfeeding (paper not reaching the LCF feed sensor)

Classification	Error content
Paper misfeeding	Jam not reaching the LCF feed sensor

Proce dure	Check item	Result	Measure	Next Step
1	Open the LCF side cover. Is there any paper in front of the LCF feed sensor?	Yes	Remove the paper.	
		No		2
2	Is the LCF feed sensor working? (Perform the input check in the test mode: 03-[FAX]OFF/[4]/[C])	Yes		3
		No	• Check if the connector of the LCF feed sensor is disconnected. • Check if either of the connectors CN1 or CN7 on the LCF board is disconnected. • Check if the connector CN318 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor patterns on the LCF board and LGC board are short circuited or open circuited. • Replace the LCF feed sensor. • Replace the LCF board. • Replace the LGC board.	
3	Is the LCF feed clutch working? (Perform the output check in the test mode: 03-209)	Yes		4
		No	• Check if the connector of the LCF feed clutch is disconnected. • Check if any of the connectors CN1 and CN6 on the LCF board is disconnected. • Check if the connector CN318 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor patterns on the LCF board and LGC board are short circuited or open circuited. • Replace the LCF feed clutch. • Replace the LCF board. • Replace the LGC board.	
4	LCF feed roller Separation roller Pickup roller		• Check the LCF feed roller, separation roller and pickup roller. Replace them if they are worn out.	

Parts to be replaced	Remark
LCF feed sensor	
LCF board	
LGC board	
LCF feed clutch	
LCF feed roller	
Separation roller	
Pickup roller	

8.3.5 Cover open jam

[E410] Front cover opened during printing

Classification	Error content
Cover open jam	Front cover open jam

Proce dure	Check item	Result	Measure	Next Step
1	Is the front cover open?	Yes	Close the cover.	
		No		2
2	Is the front cover opening/ closing switch working? (Perform the input check in the test mode: 03-[FAX]ON/[9]/[D])	Yes		3
		No	• Check if the connector of the front cover opening/closing switch is disconnected. • Check if the connector CN310 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor pattern on the LGC board is short circuited or open circuited. • Replace the front cover opening/closing switch. • Replace the LGC board.	
3	Is the voltage of 24V being supplied from the power supply unit? (Perform the input check in the test mode: 03-[FAX] ON/[2]/[A])	Yes		4
		No	• Check if the connector for 24 V power supply is disconnected. • Check if the connector CN301 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor pattern on the LGC board is short circuited or open circuited. • Replace the LGC board.	
4	LGC board		• Replace the LGC board.	

Parts to be replaced	Remark
Front cover opening/closing switch	
LGC board	

[E420] PFP side cover opened during printing

Classification	Error content
Cover open jam	PFP side cover open jam

Proce dure	Check item	Result	Measure	Next Step
1	Is the PFP side cover open?	Yes	Remove the paper if there is any, then close the cover.	
		No		2
2	Is the PFP side cover opening/closing switch working? (Perform the input check in the test mode: 03-[FAX]OFF/[2]/[A])	Yes		3
		No	• Check if the connector of the PFP side cover opening/closing switch is disconnected. • Check if either of the connectors CN241 or CN243 on the PFP board is disconnected. • Check if the connector CN318 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor patterns on the PFP board and LGC board are short circuited or open circuited. • Replace the PFP side cover opening/ closing switch. • Replace the PFP board. • Replace the LGC board.	
3	Replacing board		• Replace the PFP board. • Replace the LGC board.	

Parts to be replaced	Remark
PFP side cover opening/closing switch	
PFP board	
LGC board	

[E430] ADU opened during printing

Classification	Error content
Cover open jam	ADU open jam

Proce dure	Check item	Result	Measure	Next Step
1	Is the ADU open?	Yes	Remove the paper if there is any, then close the ADU.	
		No		2
2	Is the ADU opening/ closing switch working? (Perform the input check in the test mode: 03-[FAX]ON/[9]/[F])	Yes		3
		No	• Check if the connector of the ADU opening/ closing switch is disconnected. • Check if the connector CN311 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor patterns on the LGC board are short circuited or open circuited. • Replace the ADU opening/closing switch. • Replace the LGC board.	
3	Replacing board		• Replace the LGC board.	

Parts to be replaced	Remark
ADU opening/closing switch	
LGC board	

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[E440] Feed cover opened during printing

Classification	Error content
Cover open jam	Feed cover open jam

Proce dure	Check item	Result	Measure	Next Step
1	Is the feed cover open?	Yes	Remove the paper if there is any, then close the cover.	
		No		2
2	Is the feed cover opening/ closing detection sensor working? (Perform the input check in the test mode: 03-[FAX]ON/[9]/[E])	Yes		3
		No	• Check if the connector of the feed cover opening/closing detection sensor is disconnected. • Check if the connector CN311 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor pattern on the LGC board is short circuited or open circuited. • Replace the feed cover opening/closing detection sensor. • Replace the LGC board.	
3	Replacing board		• Replace the LGC board.	

Parts to be replaced	Remark
Feed cover opening/closing detection sensor	
LGC board	

[E450] LCF side cover opened during printing

Classification	Error content
Cover open jam	LCF side cover open jam

Proce dure	Check item	Result	Measure	Next Step
1	Is the LCF side cover open?	Yes	Remove the paper if there is any, then close the cover.	
		No		2
2	Is the LCF side cover opening/closing switch working? (Perform the input check in the test mode: 03-[FAX]OFF/[4]/[B])	Yes		3
		No	• Check if the connector of the LCF side cover opening/closing switch is disconnected. • Check if either of the connectors CN1 or CN7 on the LCF board is disconnected. • Check if the connector CN318 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor patterns on the LCF board and LGC board are short circuited or open circuited. • Replace the LCF side cover opening/ closing switch. • Replace the LCF board. • Replace the LGC board.	
3	Replacing board		• Replace the LCF board. • Replace the LGC board.	

Parts to be replaced	Remark
LCF side cover opening/closing switch	
LCF board	
LGC board	

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[E480] Bridge unit opened during printing

Classification	Error content
Cover open jam	Bridge unit open jam

Proce dure	Check item	Result	Measure	Next Step
1	Is the bridge unit open?	Yes	Remove the paper if there is any, then close the unit.	
		No		2
2	Is the bridge unit opening/ closing switch working? (Perform the input check in the test mode: 03-[FAX]ON/[3]/[E]: e-STUDIO206L/256/306 / 207L/257/307 03-[FAX]ON/[4]/[E]: e-STUDIO356/456/506 / 357/457/507)	Yes		3
		No	• Check if the connector of the bridge unit opening/closing switch is disconnected. • Check if the connector CN302 / CN400 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor pattern on the LGC board is short circuited or open circuited. • Replace the bridge unit opening/closing switch. • Replace the LGC board.	
3	Replacing board		• Replace the LGC board.	

Parts to be replaced	Remark
The bridge unit opening/closing switch	
LGC board	

[E490] JSP cover opened during printing

Classification	Error content
Cover open jam	Job separator cover open jam

Proce dure	Check item	Result	Measure	Next Step
1	Is the JSP cover open?	Yes	Remove the paper if there is any, then close the cover.	
		No		2
2	Is the JSP cover switch working? (Perform the input check in the test mode: 03-[FAX]ON/[3]/[E])	Yes		3
		No	• Check if the connector of the JSP cover switch is disconnected. • Check if either of the connectors CN260 or CN261 on the JSP board is disconnected. • Check if the connector CN302 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor patterns on the JSP board and LGC board are short circuited or open circuited. • Replace the JSP cover switch. • Replace the JSP board. • Replace the LGC board.	
3	Replacing board		• Replace the JSP board. • Replace the LGC board.	

Parts to be replaced	Remark
JSP cover switch	
JSP board	
LGC board	

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[E491] OCT cover opened during printing

Classification	Error content
Cover open jam	Offset tray cover open jam

Proce dure	Check item	Result	Measure	Next Step
1	Is the OCT cover open?	Yes	Remove the paper if there is any, then close the cover	
		No		2
2	Is the OCT cover switch working? (Perform the input check in the test mode: 03-[FAX]ON/[3]/[E])	Yes		3
		No	• Check if the connector of the OCT cover switch is disconnected? • Check if either of the connectors CN260 or CN261 on the OCT board is disconnected. • Check if the connector CN302 on the OCT board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor patterns on the OCT board and LGC board are short circuited or open circuited. • Replace the OCT cover switch. • Replace the OCT board. • Replace the LGC board.	
3	Replacing board		• Replace the OCT board. • Replace the LGC board.	

Parts to be replaced	Remark
OCT cover switch	
OCT board.	
LGC board	

8.3.6 Other jam

[E030] Paper remaining inside the equipment at power-ON

Classification	Error content
Other jam	Power-ON jam

Proce dure	Check item	Result	Measure	Next Step
1	Open the cover of the unit/ area whose picture is blinking on the control panel. Is there any paper on the transport path? (Refer to the following table.)	Yes	Remove the paper.	
		No		2
2	Is the sensor in the jamming area working? (Perform the input check in the test mode: refer to the following table.)	Yes		3
		No	• Check if the connector of the sensor is disconnected. • Check if any of the connectors on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor pattern on the LGC board is short circuited or open circuited. • Replace the sensor • Replace the LGC board.	
3	LGC board		• Replace the LGC board.	

Parts to be replaced	Remark
Sensor	Refer to the following table
LGC board	

Relation between the jamming area and the corresponding sensors and covers
(If a jam is occurring in the ADU, LCF, PFP, JSP or OCT check the board in each unit.)

Jamming area	Cover	Sensor	Test mode / Input check
Registration area	Automatic duplexing unit	Registration sensor	03-[FAX]ON/[9]/[A]
		1st transport sensor	03-[FAX]OFF/[6]/[A]
Exit area	Automatic duplexing unit	Exit sensor	03-[FAX]ON/[9]/[B]
ADU	ADU	ADU entrance sensor	03-[FAX]OFF/[1]/[D]
		ADU exit sensor	03-[FAX]OFF/[1]/E]
Feeding area (Main unit)	Feed cover	2nd transport sensor	03-[FAX]OFF/[7]/[A]
LCF	LCF side cover	LCF feed sensor	03-[FAX]OFF/[4]/[C]
PFP	PFP side cover	PFP upper drawer feed sensor	03-[FAX]OFF/[2]/[B]
		PFP lower drawer feed sensor	03-[FAX]OFF/[3]/[B]
Bridge unit	Bridge unit	Bridge unit transport sensor-1	03-[FAX]ON/[4]/[G] 03-[FAX]ON/[3]/[G]
		Bridge unit transport sensor-2	03-[FAX]ON/[4]/[F] 03-[FAX]ON/[3]/[G]
JSP	JSP cover	JSP feed sensor	03-[FAX]ON/[3]/G]
OCT	OCT cover	OCT feed sensor	03-[FAX]ON/[3]/[G]

[E061] Incorrect paper size setting for upper drawer
[E062] Incorrect paper size setting for lower drawer
[E063] Incorrect paper size setting for PFP upper drawer
[E064] Incorrect paper size setting for PFP lower drawer
[E065] Incorrect paper size setting for bypass tray

Classification	Error content
Other jam	The size of paper in the 1st drawer differs from size setting of the equipment.

Check item	Measures
Paper size	If any paper remains in the equipment or drawer, remove it. Match the paper size of the drawer setting and the one in the drawer. * Paper size detection is performed at the first sheet of paper when the drawer is opened or closed, or when the power of the equipment is turned ON.

[E550] Paper remaining on the transport path

Classification	Error content
Other jam	Paper remaining jam on the transport path

Proce dure	Check item	Result	Measure	Next Step
1	Open the cover of the unit/ area whose picture is blinking on the control panel. Is there any paper on the transport path?	Yes	Remove the paper.	
		No		2
2	Is the sensor in the jamming area working? (Perform the input check in the test mode: refer to the following table)	Yes		3
		No	• Check if the connector of the sensor is disconnected. • Check if any of the connectors on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor pattern on the LGC board is short circuited or open circuited. • Replace the sensor. • Replace the LGC board.	
3	LGC board		• Replace the LGC board.	

Parts to be replaced	Remark
Sensor	Refer to the following table
LGC board	

Relation between the jamming area and the corresponding sensors/covers
(If a jam is occurring in the ADU, LCF, PFP, JSP or OCT check the board in each unit.)

Jamming area	Cover	Sensor	Test mode/Input check
Registration area	Automatic duplexing unit	Registration sensor	03-[FAX]ON/[9]/[A]
		1st transport sensor	03-[FAX]OFF/[6]/[A]
Exit area	Automatic duplexing unit	Exit sensor	03-[FAX]ON/[9]/[B]
ADU	ADU	ADU entrance sensor	03-[FAX]OFF/[1]/[D]
		ADU exit sensor	03-[FAX]OFF/[1]/[E]
Feeding area (Main unit)	Feed cover	2nd transport sensor	03-[FAX]OFF/[7]/[A]
LCF	LCF side cover	LCF feed sensor	03-[FAX]OFF/[4]/[C]
PFP	PFP side cover	PFP upper drawer feed sensor	03-[FAX]OFF/[2]/[B]
		PFP lower drawer feed sensor	03-[FAX]OFF/[3]/[B]
Bridge unit	Bridge unit	Bridge unit transport sensor-1	03-[FAX]ON/[4]/[G] 03-[FAX]ON/[3]/[G]
		Bridge unit transport sensor-2	03-[FAX]ON/[4]/[F] 03-[FAX]ON/[3]/[G]
JSP	JSP cover	JSP feed sensor	03-[FAX]ON/[3]/[G]
OCT	OCT cover	OCT feed sensor	03-[FAX]ON/[3]/[G]
Finisher	Finisher door	Sensors in the finisher	-

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[E551] Paper remaining jam on the transport path (when a service call occurs)
[E552] Paper remaining jam on the transport path (when the cover is closed)

Classification	Error content
Other jam	Paper remaining on the transport path when printing is finished (when a service call occurs) (E551) Paper remaining on the transport path when printing is finished (when the cover is closed) (E552)

Step	Check Item	Result	Measure	Next Step
1	Jamming transport path		Open the cover of the unit/area whose picture is flashing on the control panel and remove any paper on the transport path.	
2	Sensor in the jamming area		• Sensor check (Refer to the table below) • Harness check • Connector check	
3	LGC board		• Harness check • Connector check • Board check	
	Notes: If the jam is occurring in the ADU, LCF or PFP, check the board in each unit.			

Parts to be replaced	Remark
Sensor in the jamming area	Refer to the table below.
LGC board	

Jamming area	Cover	Sensor	Test Mode/Input check
Paper path section	Duplexing unit	Registration sensor	03-[ALL]OFF/[4]/[B] 03-[COPY]ON/[5]/[H]
		Transfer belt paper clinging detection sensor	03-[ALL]OFF/[9]/[C]
		2nd transfer side paper clinging detection sensor	03-[ALL]OFF/[9]/[D]
		1st drawer transport sensor	03-[SCAN]ON/[1]/[D]
Fuser	Duplexing unit	Fuser transport sensor	03-[ALL]OFF/[2]/[C] 03-[COPY]ON/[5]/[F]
		Reverse path sensor	03-[ALL]OFF/[1]/[C] 03-[SCAN]ON/[3]/[E]
ADU	Duplexing unit Cover	Duplexing unit path exit sensor	03-[SCAN]ON/[3]/[G]
		Duplexing unit path entrance sensor	03-[SCAN]ON/[3]/[H]
Bypass unit	Duplexing unit	Bypass feed sensor	03-[SCAN]ON/[3]/[A]
Feeding area (equipment)	Paper feed cover	4th drawer transport sensor	03-[SCAN]ON/[1]/[A]
		3rd drawer/tandem LCF transport sensor	03-[SCAN]ON/[1]/[B]
		2nd drawer transport sensor	03-[SCAN]ON/[1]/[C]
LCF	LCF side cover	Option LCF feed sensor	03-[SCAN]ON/[5]/[E]
Bridge unit	Front cover	Bridge unit path exit sensor	03-[ALL]OFF/[1]/[A] 03-[SCAN]ON/[3]/[C]
		Bridge unit path entrance sensor	03-[ALL]OFF/[1]/[B] 03-[SCAN]ON/[3]/[D]
		Reverse sensor	03-[SCAN]ON/[3]/[F]
		Reverse section stationary jam detection sensor	03-[SCAN]ON/[4]/[A]
Upper exit section	-	Upper paper exit sensor	03-[ALL]OFF/[1]/[E] 03-[COPY]ON/[7]/[A]
Lower exit section	-	Lower paper exit sensor	03-[ALL]OFF/[4]/[C] 03-[COPY]ON/[5]/[G]
Reverse section	Reverse path cover	Reverse section paper transport detection sensor	03-[COPY]ON/[8]/[F]
Finisher	Finisher door	Sensors in the finisher	-

[E090] Paper jam by HDD abnormality

Classification	Error content
Other jam	Paper jam by HDD abnormality

Check item	Measures
Reboot	Check if the error is cleared by turning the power OFF and then back ON.
HDD	Check if the connectors of the HDD are disconnected.
	Check if the connector pins are disconnected and the harnesses are open circuited.
SYS board	Check if the connector pins are disconnected and the harnesses are open circuited.

Replace parts	Remarks
HDD	
SYS board	

[EAD0] Print end command time-out jam

Classification	Error content
Other jam	Print end command time-out jam

Procedure	Check item	Result	Measure	Next Step
1	Is the main motor rotating normally?	Yes		
		No		2
2	Replacing the PC board		• Replace the SYS board. • Replace the LGC board.	

Parts to be replaced	Remark
SYS board	
LGC board	

8.3.7 RADF jam

[E712] Jam not reaching the original registration sensor

Classification	Error content
RADF jam	Jam not reaching the original registration sensor

Check item	Measures
Pickup roller Feed roller Separation roller	Clean them if there are stained.
Original registration sensor	• Sensor check (Perform the input check: 03-[FAX] ON[7]/[H]) • Connector check (CN74) • Harness check
RADF board	• Board check • Connector check (CN74) • Harness check

Parts to be replaced	Remark
Original registration sensor	
RADF board	
Pickup roller	Replace it if it is worn out
Feed roller	Replace it if it is worn out.
Separation roller	Replace it if it is worn out.

[E714] Feed signal reception jam

Classification	Error content
RADF jam	Feed signal reception jam

Check item	Measures
Empty sensor	• Sensor check (Perform the input check: 03-[FAX] ON[7]/[B]) • Lever check • Connector check (CN75) • Harness check

Parts to be replaced	Remark
Empty sensor	

[E721] Jam not reaching the read sensor

Classification	Error content
RADF jam	Jam not reaching the read sensor

Check item	Measures
Registration sensor Read roller	Clean the registration roller and the read roller if they are stained.
Read sensor	• Sensor check (Perform the input check: 03-[FAX] ON[7]/[G]) • Connector check (CN76) • Harness check
RADF board	• Board check • Connector check (CN76) • Harness check

Parts to be replaced	Remark
Read sensor	
RADF board	
Registration roller	Replace it if it is worn out.
Read roller	Replace it if it is worn out.

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[E722] Jam not reaching the original exit/reverse sensor (during scanning)

Classification	Error content
RADF jam	Jam not reaching the original exit/reverse sensor (during scanning)

Check item	Measures
Read roller	Clean the read roller if it is stained.
Original exit/reverse sensor	• Sensor check (Perform the input check: 03-[FAX] ON[7]/[E]) • Connector check (CN75) • Harness check
RADF board	• Board check • Connector check (CN75) • Harness check

Parts to be replaced	Remark
Original exit/reverse sensor	
RADF board	
Read roller	Replace it if it is worn out.

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[E724] Stop jam at the registration sensor

Classification	Error content
RADF jam	Stop jam at the registration sensor

Check item	Measures
Registration roller	Clean the registration roller if it is stained.
Registration sensor	• Sensor check (Perform the input check: 03-[FAX] ON[7]/[H]) • Connector check (CN74) • Harness check
RADF board	• Board check • Connector check (CN74) • Harness check

Parts to be replaced	Remark
Registration sensor	
RADF board	
Registration roller	Replace it if it is worn out.

[E725] Stop jam at the read sensor

Classification	Error content
RADF jam	Stop jam at the read sensor

Check item	Measures
Read roller	Clean the registration roller if it is stained.
Read sensor	• Sensor check (Perform the input check: 03-[FAX] ON[7]/[G]) • Connector check (CN75) • Harness check
RADF board	• Board check • Connector check (CN75) • Harness check

Parts to be replaced	Remark
Read sensor	
RADF board	
Read roller	Replace it if it is worn out.

[E726] Transport/exit signal reception jam

Classification	Error content
RADF jam	Transport/exit signal reception jam

Check item	Measures
RADF board	• Board check • Connector check • Harness check
SLG board	• Board check • Connector check • Harness check
Switching power supply	• Check if the 24V and 5V outputs of the switching power supply are normal. • Board check • Connector check • Harness check

Parts to be replaced	Remark
RADF board	
SLG board	
Switching regulator	

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[E731] Stop jam at the exit sensor

Classification	Error content
RADF jam	Stop jam at the exit sensor

Check item	Measures
Exit roller	Clean the registration roller if it is stained.
Exit sensor	• Sensor check (Perform the input check: 03-[FAX] ON[7]/[E]) • Connector check (CN74) • Harness check
RADF board	• Board check • Connector check (CN74) • Harness check

Parts to be replaced	Remark
Exit sensor	
RADF board	
Exit roller	Replace it if it is worn out.

[E860] RADF jam access cover open

Classification	Error content
RADF jam	RADF jam access cover open

Check item	Measures
RADF jam access cover	Close the RADF jam access cover if it is opened. Remove if there is any original before closing it.
RADF jam access cover switch	• Sensor check (Perform the input check: 03-[FAX] ON[7]/[C]) • Connector check (CN8) • Harness check
RADF board	• Board check • Connector check (CN8) • Harness check

Parts to be replaced	Remark
RADF jam access cover switch	
RADF board	

[E870] RADF open jam

Classification	Error content
RADF jam	RADF open jam

Check item	Measures
RADF	Close the RADF if it is opened. Remove if there is any original before closing it.
RADF opening/closing sensor	• Sensor check (Perform the input check: 03-[FAX] ON[7]/[D]) • Connector check (CN75) • Harness check
RADF board	• Board check • Connector check (CN75) • Harness check

Parts to be replaced	Remark
RADF opening/closing sensor	Is the RADF opening/closing sensor adjusted within the specified range?
RADF board	

[E871] Cover open jam in the read ready status

Classification	Error content
RADF jam	Cover open jam in the read ready status. (MR-3021/3022)

Check item	Measures
RADF jam access cover Front cover	Close the RADF jam access cover or the front cover if they are opened in the read ready status.
RADF jam access cover sensor	• Sensor check (Perform the input check: 03-[FAX] ON[7]/[C]) • Connector check (CN75) • Harness check

Parts to be replaced	Remark
RADF jam access cover sensor	
RADF board	

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8.3.8 Finisher jam

[1] Jam in bridge unit
[E910] Paper not reaching the bridge unit transport sensor-1
[E920] Paper stopping at the bridge unit transport sensor-1

Classification	Error content
Finisher jam (Bridge unit)	Paper not reaching the bridge unit transport sensor-1 Paper stopping at the bridge unit transport sensor-1

Proce dure	Check item	Result	Measure	Next Step
1	Bridge unit		Check if there is any paper in the bridge unit and remove it if there is.	2
2	Is the bridge unit transport sensor-1 working? (Perform the input check: 03-[FAX]OFF/[3]/[F]) / 03-[FAX]OFF/[4]/[F])	Yes		3
		No	1. Check if the connector CN302 on the LGC board is disconnected from the bridge unit transport sensor-1 (entrance sensor) or the harnesses are open circuited. Check if the connector J681 of the bridge unit is disconnected. Correct if any. 2. Replace the bridge unit transport sensor-1. 3. Replace the LGC board.	
3	Is the bridge unit gate solenoid working? (Perform the output check: 03-232)	Yes		4
		No	1. Check if the connector CN302 on the LGC board is disconnected from the bridge unit gate solenoid or the harnesses are open circuited. Check if the connector J681 of the bridge unit is disconnected. Correct if any. 2. Replace the bridge unit gate solenoid. 3. Replace the LGC board.	
4	Does the transport roller of the bridge unit work when the fuser motor is rotated? (Perform the output check: 03-113/163)	Yes	Check if the rollers in the exit roller, the pressure spring and the bridge unit are worn out.	
		No	Check the drive system of the equipment and bridge unit.	

Parts to be replaced	Remark
Bridge unit transport sensor-1	
LGC board	
Bridge unit gate solenoid	

[E930] Paper not reaching the bridge unit transport sensor-2
[E940] Paper stopping at the bridge unit transport sensor-2

Classification	Error content
Finisher jam (Bridge unit)	Paper not reaching the bridge unit transport sensor-2
	Paper stopping at the bridge unit transport sensor-2

Proce dure	Check item	Result	Measure	Next Step
1	Bridge unit		Check if there is any paper in the bridge unit and remove it if there is.	2
2	Is the bridge unit transport sensor-2 working? (Perform the input check: 03-[FAX]OFF/[3]/[G]) / 03-[FAX]OFF/[4]/[G])	Yes		3
		No	1. Check if the connector CN334 on the LGC board is disconnected from the bridge unit transport sensor-2 (exit sensor) or the harnesses are open circuited. Check if the connector J523 of the bridge unit is disconnected. Correct if any. 2. Replace the bridge unit transport sensor-2. 3. Replace the LGC board.	
3	Does the transport roller of the bridge unit work when the fuser motor is rotated? (Perform the output check: 03-113/163)	Yes	Check if the rollers in the exit roller, the pressure spring and the bridge unit are worn out.	
		No	Check the drive system of the equipment and bridge unit.	

Parts to be replaced	Remark
Bridge unit transport sensor-2	
LGC board	

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[2] Job separator jam
[E950] Jam not reaching the JSP feed sensor
[E951] Stop jam at the JSP feed sensor

Classification	Error content
Job separator jam	Jam not reaching the job separator transport sensor Stop jam at the job separator transport sensor

Proce dure	Check item	Result	Measure	Next Step
1	Open the JSP cover. Is there any paper on the transport path?	Yes	Remove the paper.	
		No		2
2	Is the JSP feed sensor working? (Perform the input check in the test mode: 03-[FAX]ON/[3]/[D])	Yes		3
		No	• Check if the connector of the JSP feed sensor is disconnected. • Check if either of the connectors CN260 or CN262 on the JSP board is disconnected. • Check if the connector CN302 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor patterns on the JSP board and LGC board are short circuited or open circuited. • Replace the JSP feed sensor. • Replace the JSP board. • Replace the LGC board.	
3	Replacing board		• Replace the JSP board. • Replace the LGC board.	

Parts to be replaced	Remark
JSP feed sensor	
JSP board	
LGC board	

[3] Offset tray jam
[E960] Jam not reaching the OCT feed sensor
[E961] Stop jam at the OCT feed sensor

Classification	Error content
Offset tray jam	Jam not reaching the offset tray transport sensor Stop jam at the offset tray transport sensor

Proce dure	Check item	Result	Measure	Next Step
1	Open the OCT cover. Is there any paper on the transport path?	Yes	Remove the paper.	
		No		2
2	Is the OCT feed sensor working? (Perform the input check in the test mode: 03-[FAX]ON/[3]/[G])	Yes		3
		No	• Check if the connector of the OCT feed sensor is disconnected. • Check if either of the connectors CN260 or CN262 on the OCT board is disconnected. • Check if the connector CN302 on the LGC board is disconnected. • Check if the connector pins are disconnected and the harnesses are open circuited. • Check if the conductor patterns on the OCT board and LGC board are short circuited or open circuited. • Replace the OCT feed sensor. • Replace the OCT board. • Replace the LGC board.	
3	PC board		• Replace the OCT board. • Replace the LGC board.	

Parts to be replaced	Remark
OCT feed sensor	
OCT board	
LGC board	

8

[4] Paper jam in puncher unit
[E9F0] Punching jam

Classification	Error content
Finisher jam (Puncher unit)	Punching jam

MJ-1101 (when MJ-6103 is installed), MJ-1107 (when MJ-6104 is installed)

Check item	Measures
Punch motor	• Motor check • Connector check • Harness check
Punch HP sensor	• Sensor check • Connector check • Harness check
Hole punch control PC board	• Board check • Connector check • Harness check

Parts to be replaced	Remark
Punch motor	
Punch HP sensor	
Hole punch control PC board	

MJ-6008

Error	Timing of detection
Punch motor Punch shaft home position sensor Punch shaft rotational direction sensor	The turning OFF of the punch shaft home position sensor (S35) is not detected in the specified time when the punch motor (M15) is rotated.
	The turning ON of the punch shaft home position sensor (S35) is not detected in the specified time when the punch motor (M15) is rotated.
	The punch shaft home position sensor (S35) and the punch shaft rotational direction sensor (S34) do not specify the home position or the rotational direction correspondingly during initialization, or initialization is not finished at a turning-ON point for the punch shaft home position sensor (S35).

Probable cause	Checking and measures
Punch motor (M15) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the motor.
Punch shaft home position sensor (S36) abnormality	Measure the voltage on pin CN3.3 on the hole punch control PC board (HP). Then check that the measured voltage is 1V or lower when not shielded and within the range of 5V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Punch shaft rotational direction sensor (S35) abnormality	Measure the voltage on pin CN3.9 on the hole punch control PC board (HP). Then check that the measured voltage is 1V or lower when not shielded and within the range of 5V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.

Probable cause	Checking and measures
Punch motor clock sensor (S37) abnormality	Measure the voltage on pin CN3.6 on the hole punch control PC board (HP). Then check that the measured voltage is 1V or lower when not shielded and within the range of 5V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connector. (Hole punch control PC board (HP): CN3, CN6)
Hole punch control PC board (HP) abnormality	If the error still occurs after replacing the motor, sensors and connectors, exchange the hole punch control PC board (HP).

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[5]   Paper jam in finisher section
[EA10] Paper transport delay jam

Classification	Error content
Paper jam in finisher section	Paper transport delay jam

MJ-1101/1107

Check item	Measures
Removing paper	Check if there is any paper in the finisher or on the transport path of the equipment and remove it if there is.
Entrance sensor	Is there a disconnection of the connector, incorrect installation or breakage of the entrance sensor (S1)?
Gate solenoid	• Is the gap between the flapper and entrance roller shaft other than 0.60±0.20mm when the gate solenoid (SOL2) is pulled? • Is the harness between the gate solenoid (SOL2) and the finisher control PC board (CN22) disconnected or open circuited?
Entrance motor	Is the harness between the entrance motor (M1) and the finisher control PC board (CN7) disconnected or open circuited?
Harness check	Is the harness between the gate solenoid (SOL2) and the finisher control PC board (CN22) disconnected or open circuited?

Parts to be replaced	Remark
Entrance sensor	
Finisher controller PC board	

[EA10] Transport delay jam (paper not inserted)
MJ-1106/1108

Classification	Error content
Paper jam in finisher section	Transport delay jam (paper not inserted)

Check item	Measures
Removing paper	Check if there is any paper in the finisher or on the transport path of the equipment and remove it if there is.
Feeding sensor (S22)	Check if there is a disconnection of the connector, incorrect installation or breakage of the feeding sensor (S22). If there is, reinstall the sensor correctly or replace it.
Transport path switching solenoid (SOL5)	Check that the gap between the transfer guide surface and the upper surface of the flapper tip is in the acceptable range according to the status of the transport path switching solenoid (SOL5) (solenoid OFF: 1.5 to 2.1 mm, solenoid ON: 2.3 to 2.9 mm). If it is not, adjust it.
Entrance motor (M1)	Check the harness between the entrance motor (M1) and the finisher controller board (CN26). If there is any abnormality, correct it.
Interface PC board (I/F)	Check the harness between the transport path switching solenoid (SOL5) and the interface PC board (CN6), If there is any abnormality, correct it. • Board check • Connector check (CN5, CN6, CN7) • Harness check

Check item	Measures
Finisher control PC board (FIN)	• Board check • Connector check (CN25, CN27) • Harness check

Parts to be replaced	Remark
Feeding sensor (S22)	
Transport path switching solenoid (SOL5)	
Entrance motor (M1)	
Interface PC board (I/F)	
Finisher control PC board (FIN)	

[EA20] Paper transport stop jam

Classification	Error content
Paper jam in finisher section	Paper transport delay jam

MJ-1101/1107

Check item	Measures
Transport sensor	• Sensor check • Connector check (S2) • Harness check
Finisher controller PC board	Board check(CN22)

Parts to be replaced	Remark
Transport sensor	
Finisher controller PC board	

MJ-1106/1108

Check item	Measures
Finisher	Check if there is any paper in the finisher or on the transport path of the equipment and remove it if there is.
Entrance sensor (S1)	• Sensor check • Connector check • Harness check
Finisher control PC board (FIN)	• Board check • Connector check (CN26) • Harness check

Parts to be replaced	Remark
Entrance sensor (S1)	
Finisher control PC board (FIN)	

8

[EA10, EA20] 1st transport motor (M8) fault/ 2nd transport motor (M4) fault

Classification	Error content
Finisher jam (Finisher section)	Paper transport delay jam

MJ-1032

Probable cause	Checking and measures
1st transport motor (M8) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the motor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connector. (Finisher control PC board (FIN): CN22)
2nd transport motor (M4) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the motor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connector. (Finisher control PC board (FIN): CN14)
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the motor and the connector, exchange the finisher control PC board (FIN).

[EA10, EA20] Transport motor-1 (M1) fault/ Transport motor-2 (M2) fault

Classification	Error content
Finisher jam (Finisher section)	Paper transport delay jam

MJ-1033

Probable cause	Checking and measures
Transport motor-1 (M1) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the motor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connector. (Finisher control PC board (FIN): CN13)
Transport motor-2 (M2) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the motor.
Paddle home position sensor fault	Measure the voltage of the TP30 on the finisher control PC board (FIN), and check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V $\pm$ 5% when shielded. If the voltage does not fall within the above range, replace the sensor.
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the motor and the connector, exchange the finisher control PC board (FIN).

[EA21] Paper size error jam (outlet sensor)
[EA22] Paper size error jam (punch paper edge sensor)

Classification	Error content
Finisher jam (Finisher section)	Paper size error jam (outlet sensor) Paper size error jam (punch paper edge sensor)

MJ-1101/1107

Check item	Measures
Entrance sensor	• Sensor check(S1) • Connector check (CN7, CN22) • Harness check
Transport sensor	• Sensor check(S2) • Connector check (CN7, CN22) • Harness check

Parts to be replaced	Remark
Entrance sensor	
Transport sensor	
Finisher controller PC board	

MJ-1106/1108

Check item	Measures
Finisher	Check if there is any paper in the finisher or on the transport path of the equipment and remove it if there is.
Entrance sensor (S1)	• Sensor check • Connector check • Harness check
Transport sensor (S2)	• Sensor check • Connector check • Harness check
Finisher control PC board (FIN)	• Board check • Connector check (CN6, CN26) • Harness check

Parts to be replaced	Remark
Entrance sensor (S1)	
Transport sensor (S2)	
Finisher control PC board (FIN)	

[EA23] Paper transport stop jam (transport sensor)
[EA24] Paper transport stop jam (between entrance & transport sensor)
[EA25] Paper transport stop jam (after paper stack exit)
[EA26] Paper transport stop jam (stop command request)
[EA27] Paper transport stop jam (paper not inserted)
[EA28] Paper transport stop jam (paper holder plate operation delay)
[EA29] Paper transport stop jam (stack transport delay)

Classification	Error content
Paper jam in finisher section	Paper transport stop jam

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MJ-1101/1107

Check item	Measures
Entrance sensor	• Sensor check(S1) • Connector check (CN7, CN22) • Harness check
Transport sensor	• Sensor check(S2) • Connector check (CN7, CN22) • Harness check

Parts to be replaced	Remark
Entrance sensor	
Transport sensor	
Finisher controller PC board	

MJ-1106/1108

Check item	Measures
Finisher	Check if there is any paper in the finisher or on the transport path of the equipment and remove it if there is.
Entrance sensor (S1)	• Sensor check • Connector check • Harness check
Transport sensor (S2)	• Sensor check • Connector check • Harness check
Processing tray sensor (S12)	• Sensor check • Connector check • Harness check
Paper holding cam	Is there any mechanical problem when the paper holding cam is rotated?
Assist arm motor (M10)	• Motor check • Connector check • Harness check
Buffer tray guide	Open and close the buffer tray guide. If there is any mechanical problem, fix its mechanism.
buffer tray guide motor (M2)	• Motor check • Connector check • Harness check
Finisher control PC board (FIN)	• Board check • Connector check (CN6, CN13, CN11, CN18, CN26) • Harness check

Parts to be replaced	Remark
Entrance sensor (S1)	
Transport sensor (S2)	
Processing tray sensor (S12)	
Assist arm motor (M10)	
buffer tray guide motor (M2)	
Finisher control PC board (FIN)	

[EA25] Stack exit motor (M5) abnormality

Classification	Error content
Paper jam in finisher section	Paper transport jam in the Finisher

MJ-1032

Probable cause	Checking and measures
Stack exit motor (M5) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the motor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connectors. (Finisher control PC board (FIN): CN14)
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the motor, sensor and connectors, exchange the finisher control PC board (FIN).

[EA2E, EA31] Transport jam in Finisher

Classification	Error content
Paper jam in finisher section	Paper transport remaining jam in the Finisher

MJ-1032

Probable cause	Checking and measures
Entrance path sensor (S19) abnormality	Measure the voltage on TP86 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Middle path sensor (S7) abnormality	Measure the voltage on TP84 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Sub-path sensor (S8) abnormality	Measure the voltage on TP85 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connector. (Finisher control PC board (FIN): CN6, CN22)
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the sensor and the connector, exchange the finisher control PC board (FIN).

[EA31] Transport path paper remaining jam

Classification	Error content
Paper jam in finisher section	Transport path paper remaining jam

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MJ-1101/1107

Check item	Measures
Transport sensor	• Sensor check(S2) • Connector check (CN22) • Harness check
Finisher controller PC board	• Board check • Connector check (CN22) • Harness check

Parts to be replaced	Remark
Transport sensor	
Finisher controller PC board	

MJ-1106/1108

Check item	Measures
Finisher	Check if there is any paper in the finisher or on the transport path of the equipment and remove it if there is.
Transport sensor (S2)	• Sensor check • Connector check • Harness check
Finisher control PC board (FIN)	• Board check • Connector check (CN6) • Harness check

Parts to be replaced	Remark
Transport sensor (S2)	
Finisher control PC board (FIN)	

[EA31] Transport jam in Finisher

Classification	Error content
Paper jam in finisher section	Paper transport remaining jam in the Finisher:

MJ-1033

Probable cause	Checking and measures
Entrance path sensor (S1) abnormality	Measure the voltage on TP1 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connector. (Finisher control PC board (FIN): CN1)
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the sensor and the connector, exchange the finisher control PC board (FIN).

[EA32] Exit paper remaining jam

Classification	Error content
Paper jam in finisher section	Exit paper remaining jam

MJ-1101/1107

Check item	Measures
Processing tray sensor	• Sensor check (S12) • Connector check (CN11) • Harness check
Finisher controller PC board	• Sensor check • Connector check (CN11) • Harness check

Parts to be replaced	Remark
Processing tray sensor	
Finisher controller PC board	

MJ-1106/1108

Check item	Measures
Finisher	Check if there is any paper in the finisher or on the transport path of the equipment and remove it if there is.
Processing tray sensor (S12)	• Sensor check • Connector check • Harness check
Finisher control PC board (FIN)	• Board check • Connector check (CN18) • Harness check

Parts to be replaced	Remark
Processing tray sensor (S12)	
Finisher control PC board (FIN)	

[EA32] Finishing tray paper detection error

Classification	Error content
Paper jam in finisher section	Exit paper remaining jam

MJ-1032

Probable cause	Checking and measures
Finishing tray sensor (S4) abnormality	Measure the voltage on TP14 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of $3.3V\pm5\%$ when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connector. (Finisher control PC board (FIN): CN5)
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the sensor and the connector, exchange the finisher control PC board (FIN).

MJ-1033

Probable cause	Checking and measures
Finishing tray sensor (S2) abnormality	Measure the voltage on TP26 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connector. (Finisher control PC board (FIN): CN8)
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the sensor and the connector, exchange the finisher control PC board (FIN).

[EA40] Cover open error

Classification	Error content
Paper jam in finisher section	Cover open error

MJ-1101/1107/MJ-1106/1108

Check item	Measures
Cover	• Close the front cover or the stationary tray if they are opened.
Front cover switch (SW1)	• Sensor check • Connector check • Harness check
Stationary tray opening/closing switch (SW2)	• Sensor check • Connector check • Harness check
Finisher controller board	• Connector check(CN16) • Board check

Parts to be replaced	Remark
Cover locking bracket	If it is broken.
Front cover switch (SW1)	
Stationary tray opening/closing switch (SW2)	
Finisher controller board	

[EA40] Cover open detection error
MJ-1032

Probable cause	Checking and measures
Sub-path opening/closing sensor (S12) abnormality	Measure the voltage on TP12 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Front cover switch (SW1) abnormality	Measure the voltage on TP77 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when the switch is ON and within the range of 3.3V ± 5% when OFF. If the voltage does not fall within the range mentioned, replace the switch.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connector. (Finisher control PC board (FIN): CN10, CN13)
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the switches, sensor and connector, exchange the finisher control PC board (FIN).

[EA50] Stapling jam

Classification	Error content
Paper jam in finisher section	Stapling jam

MJ-1101/1107

Check item	Measures
Finisher	• Check if there is any paper in the finisher or on the transport path of the equipment or on the finishing tray. Remove it if there is.
	• Is the jam cleared by taking off the staple cartridge from the finisher and removing the staple sheet slid from the staple case?
	• Check if the actuator of the stapler interference sensor (S11) moves smoothly.
	• Check if the connector CN2 on the finisher controller PC board is disconnected from the stapler or the harnesses are open circuited. Correct if any.
	• Check the harnesses in the stapler are disconnected or open circuited. Correct if any.

Parts to be replaced	Remark
Finisher controller PC board	

8

MJ-1032

Probable cause	Checking and measures
Staple unit stapling start position sensor (S17) abnormality	Measure the voltage on TP23 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when the sensor is ON and within the range of 3.3V±5% when OFF. If the voltage does not fall within the range mentioned, replace the staple unit.
Staple unit staple empty sensor (S18) abnormality	Measure the voltage on TP24 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when the sensor is ON and within the range of 3.3V±5% when OFF. If the voltage does not fall within the range mentioned, replace the staple unit.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connectors. (Finisher control PC board (FIN): CN17)
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the staple unit and the connectors, exchange the finisher control PC board (FIN).

[EA60] Early arrival jam

Classification	Error content
Paper jam in finisher section	Early arrival jam

MJ-1101/1107

Check item	Measures
Finisher	• Check if there is any paper in the finisher or on the transport path of the equipment or on the finishing tray. Remove it if there is.
	• Check if there is any disconnection, incorrect installation or breakage on the entrance sensor (S1). Correct if any.
	• Check if the connector CN7 on the finisher controller PC board is disconnected from the entrance sensor (S1) and the harnesses are disconnected or open circuited. Correct if any.

Parts to be replaced	Remark
Entrance sensor	
Finisher controller PC board	

[EA70] Stack exit belt home position error / Stack slider home position error

Classification	Error content
Paper jam in finisher section	Stack exit belt home position error / Stack slider home position error

MJ-1101/1107

Check item	Measures
Stack belt exit home position sensor	Check if the connector CN11 on the finisher controller PC board is disconnected from the stack belt exit home position sensor (S9) and the harnesses are open circuited. Correct if any.
Stack transport motor	Is the harness between the stack transport motor (M5) and the finisher control PC board (CN10) disconnected or open circuited?

Parts to be replaced	Remark
Stack belt exit home position sensor	
Stack transport motor	
Finisher controller PC board	

MJ-1106/1108

Check item	Measures
Stack belt exit home position sensor	Check if there is a disconnection of the connector, incorrect installation or breakage of the stack belt exit home position sensor (S9). If there is, reinstall the sensor correctly or replace it.
	Check if the connector (CN18) on the finisher controller PC board is disconnected from the stack belt exit home position sensor (S9) and the harnesses are open circuited. Correct if any.
Stack transport motor	Check if the connector (CN17) on the finisher controller PC board is disconnected from the stack transport motor (M8) and the harnesses are open circuited. Correct if any.

Parts to be replaced	Remark
Stack belt exit home position sensor	
Stack transport motor	
Finisher controller PC board	

8

[6] Paper jam in saddle stitcher section
[EA80] Stapling jam

MJ-1032 / MJ-1033

Classification	Error content
Paper jam in saddle stitcher section	Stapling jam

Check item	Measures
Finisher	• Check if there is any paper in the finisher, saddle stitcher, or on the transport path of the equipment, or on the stapling tray. Remove it if there is.
	• Remove the staple cartridge from the finisher and remove staples stuck in the stapling unit.
Stitcher home position switch	• Check if the connector on the saddle stitcher controller PC board is disconnected or the harnesses are open circuited. Correct if any.
	• Check if the stitcher home position switches are working properly.

Parts to be replaced	Remark
Stitcher home position switch	
Finisher controller PC board	

[EA90] Door open jam
MJ-1106/1108

Classification	Error content
Paper jam in saddle stitcher section	Door open jam

Check item	Measures
Finisher	• Check if there is any paper in the finisher, saddle stitcher or on the transport path of the equipment. Remove it if there is.
	• Check if the saddle stitcher door is closed.
	• Check if the connectors J10 and J11 on the saddle stitcher controller PC board are disconnected from any of the cover opening switches (the delivery cover sensor [P13] and the inlet cover sensor [P19]) or the harnesses are open circuited. Correct if any.
	• Check if the cover opening switches noted above are working properly.

Parts to be replaced	Remark
Sensor	
Saddle stitcher controller PC board	

[EAA0] Paper remaining in Saddle Stitch Finisher

Classification	Error item
Finisher jam (Saddle stitcher section)	Paper remaining in Saddle Stitch Finisher

MJ-1106/1108

Check item	Measures
Finisher, saddle stitcher	• Check if there is any paper in the finisher, saddle stitcher or the on the transport path of the equipment. Remove it if there is. • Use paper accepted in the specifications.
Paper	Do not use the paper shorter than the specification.
Junction box paper detection sensor (S26)	• Sensor check(S26) • Connector check(CN8) • Harness check
Transport path-2 (S27)	• Sensor check(S27) • Connector check(CN20) • Harness check
Transport path-3 (S28)	• Sensor check(S28) • Connector check(CN20) • Harness check
Ejecting roller sensor(S29)	• Sensor check(S29) • Connector check(CN20) • Harness check
Interface PC board (I/F)	• Board check • Connector check(CN1, CN2, CN5, CN7, CN8) • Harness check
Saddle stitcher controller board	• Board check • Connector check(CN10, CN13, CN20) • Harness check

Replace parts	Remarks
Junction box paper detection sensor (S26)	
Transport path-2 (S27)	
Transport path-3 (S28)	
Ejecting roller (S29)	
Interface PC board (I/F)	
Saddle stitcher controller board	

[EAB0] Paper transport jam in Saddle Stitch Finisher

Classification	Error item
Finisher jam (Saddle stitcher section)	Paper transport jam in Saddle Stitch Finisher

MJ-1106/1108

Check item	Measures
Finisher, saddle stitcher	• Check if there is any paper in the finisher, saddle stitcher or the on the transport path of the equipment. Remove it if there is. • Use paper accepted in the specifications.

Check item	Measures
Paper	Do not use the paper longer than the specification.
Transport roller	Fix any mechanical problem occurring when the transfer roller is rotated.
Feeding sensor (S22)	• Sensor check(S22) • Connector check • Harness check
Junction box paper detection sensor (S26)	• Sensor check(S26) • Connector check(CN8) • Harness check
Transport path-2 (S27)	• Sensor check(S27) • Connector check(CN20) • Harness check
Transport path-3 (S28)	• Sensor check(S28) • Connector check(CN20) • Harness check
Ejecting roller sensor(S29)	• Sensor check(S29) • Connector check(CN20) • Harness check
Transport path switching solenoid (SOL5)	Check that the gap between the transfer guide surface and the upper surface of the flapper tip is in the acceptable range according to the status of the transport path switching solenoid (SOL5) (solenoid OFF: 1.5 to 2.1 mm, solenoid ON: 2.3 to 2.9 mm). If it is not, adjust it.
Entrance motor (M1)	• Motor check(M1) • Connector check(CN26) • Harness check
Transport path switching solenoid (SOL9)	• Solenoid check(SOL9) • Connector check(CN26) • Harness check
Interface PC board (I/F)	• Board check • Connector check(CN1, CN2, CN5, CN7, CN8) • Harness check
Saddle stitcher controller board	• Board check • Connector check(CN10, CN13, CN20) • Harness check

Replace parts	Remarks
Junction box paper detection sensor (S26)	
Feeding sensor (S22)	
Transport path-2 (S27)	
Transport path-3 (S28)	
Ejecting roller (S29)	
Entrance motor (M1)	
Transport path switching solenoid (SOL9)	
Interface PC board (I/F)	
Saddle stitcher controller board	
Finisher controller board	

[EAB0] Transport jam in Saddle Stitch Finisher

Classification	Error item
Finisher jam (Saddle stitcher section)	Transport jam in Saddle Stitch Finisher

MJ-1033

Probable cause	Checking and measures
Transport motor-2 (M2) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the motor.
Saddle stitch entrance path sensor (S4) abnormality	Measure the voltage on TP2 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connectors. (Finisher control PC board (FIN): CN13, CN1)
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the motor, sensor and connectors, exchange the finisher control PC board (FIN).

[EAB1] Short paper jam in Saddle Stitch Finisher

Classification	Error item
Finisher jam (Saddle stitcher section)	Short paper jam in Saddle Stitch Finisher

MJ-1106/1108

Check item	Measures
Finisher, saddle stitcher	• Check if there is any paper in the finisher, saddle stitcher or the on the transport path of the equipment. Remove it if there is. • Use paper accepted in the specifications.
Feeding sensor (S22)	• Sensor check • Connector check • Harness check
Junction box paper detection sensor (S26)	• Sensor check • Connector check • Harness check
Transport path-2 sensor (S27)	• Sensor check • Connector check • Harness check
Transport path-3 sensor (S28)	• Sensor check • Connector check • Harness check
Ejecting roller sensor (S29)	• Sensor check • Connector check • Harness check
Interface PC board (I/F)	• Connector check(CN8) • Board check
Saddle stitcher controller board	• Connector check • Board check
Finisher controller board	• Connector check • Board check

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Replace parts	Remarks
Feeding sensor (S22)	
Junction box paper detection sensor (S26)	
Transport path-2 (S27)	
Transport path-3 (S28)	
Ejecting roller (S29)	
Interface PC board (I/F)	
Saddle stitcher controller board	
Finisher controller board	

[EAE0] Receiving time-out jam

Classification	Error content
Finisher jam	Receiving time-out jam

Proce dure	Check item	Result	Measure	Next Step
1	Is the finisher working?	Yes	Replace the finisher controller PC board.	
		No		2
2	Are the versions of the Finisher, Saddle Stitch Finisher and converter firmware the latest?	Yes	Download the firmware in the latest version.	
		No		3
3			• Check if the voltage (24V) is being supplied to the finisher. • Check the connection of the LGC board and IPC board • Check if the harness connecting the IPC board and finisher I/F connector of the equipment side is open circuited. • Check if the harness connecting the I/F connector of the finisher side and finisher controller PC board is open circuited.	

Parts to be replaced	Remark
Finisher controller PC board	

[EAF3] Gripper motor (M3) abnormality

Classification	Error content
Finisher jam	Gripper arm motor home position detection error

MJ-1033

Error	Timing of detection
Gripper motor Gripper arm home position sensor	The turning OFF of the gripper arm home position sensor (S13) is not detected in the specified time when the gripper arm is exited.
	The turning ON of the gripper arm home position sensor (S13) is not detected in the specified time when the gripper arm is returned to its home position.

Probable cause	Checking and measures
Gripper motor (M3) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the motor.
Gripper arm home position sensor (S13) abnormality	Measure the voltage on pin CN10.8 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Gripper arm exit sensor (S26) abnormality	Measure the voltage on TP27 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	If the error still occurs after replacing the motor, sensors and connectors, exchange the finisher control PC board (FIN).
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the motor, sensors and connectors, exchange the finisher control PC board (FIN).

[EB30] Ready time-out jam

Classification	Error content
Finisher jam	Ready time-out jam

Check item	Measures
Finisher	Check if the connector on the equipment is disconnected from the finisher or the harnesses are open circuited. Correct if any.

Parts to be replaced	Remark
IPC board	
LGC board	
Finisher controller PC board	

[ED10] Skew adjustment motor (M1) home position detection abnormality

MJ-1101 (when MJ-6103 is installed), MJ-1107 (when MJ-6104 is installed)

Classification	Error content
Finisher jam	Skew adjustment motor (M1) home position detection abnormality

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Check item	Measures
Skew adjustment motor	Rotate skew adjustment motor and fix its mechanism if it does not rotate smoothly.
Skew HP sensor Skew adjustment motor Hole punch control PC board	Check if the connectors on the hole punch controller PC board (HP board) are disconnected from the skew HP sensor (S2) and the skew adjustment motor, or the harnesses are open circuited. Correct if any.

Parts to be replaced	Remark
Skew adjustment motor	
Hole punch control PC board	

[ED11] Sideways adjustment motor (M2) home position detection error

MJ-1101 (when MJ-6103 is installed), MJ-1107 (when MJ-6104 is installed)

Classification	Error content
Finisher jam	Sideways adjustment motor (M2) home position detection error

Check item	Measures
Sideways adjustment motor	Rotate sideways adjustment motor and fix its mechanism if it does not rotate smoothly.
sideways deviation HP sensor Sideways adjustment motor Hole punch control PC board	Check if the connectors on the hole punch controller PC board (HP board) are disconnected from the sideways deviation HP sensor (S3) and the sideways adjustment motor, or the harnesses are open circuited. Correct if any.

Parts to be replaced	Remark
Sideways adjustment motor	
Hole punch control PC board	

[ED12] Shutter home position error

Classification	Error content
Finisher jam	Shutter home position error

MJ-1101/1107

Check item	Measures
Shutter	Open and close the shutter. If there is any mechanical problem, fix its mechanism.
Shutter opening/closing sensor Shutter clutch Finisher controller PC board	Check if the connectors on the finisher controller PC board are disconnected from the shutter opening/closing sensor (S4) and the shutter clutch (CLT1), or the harnesses are open circuited. Correct if any.

Parts to be replaced	Remark
Shutter clutch	
Shutter opening/closing sensor	
Finisher controller PC board	

MJ-1106/1108

Check item	Measures
Movable tray paper-full sensor	Fix any mechanical problem occurring when the actuator is moved.
	Check if there is a disconnection of the connector, incorrect installation or breakage of the movable tray paper-full sensor (S16). If there is, reinstall the sensor correctly or replace it.
	Check if the connector (CN12) on the finisher controller PC board is disconnected from the movable tray paper-full sensor (S16) and the harnesses are open circuited. Correct if so.
Shutter	Open and close the shutter. Fix any mechanical problem.
Shutter opening/closing sensor	Check if there is a disconnection of the connector, incorrect installation or breakage of the shutter opening/closing sensor (S4). If there is, reinstall the sensor correctly or replace it.
	Check if the connector (CN12) on the finisher controller PC board is disconnected from the shutter opening/closing sensor (S4) and the harnesses are open circuited. Correct if so.
Shutter clutch	Check if the connector (CN10) on the finisher controller PC board is disconnected from the shutter clutch (CLT1) and the harnesses are open circuited. Correct if so.

Parts to be replaced	Remark
Movable tray paper-full sensor	
Finisher controller PC board	
Shutter opening/closing sensor	

[ED13] Front alignment plate home position error

Classification	Error content
Finisher jam	Front alignment plate home position error

MJ-1101/1107

Check item	Measures
Front alignment plate	Move the front alignment plate. If there is any mechanical problem, fix its mechanism.
Front alignment motor Front alignment plate home position sensor Finisher controller PC board	Check if the connectors on the finisher controller PC board are disconnected from the front alignment plate home position sensor (S7) and the front alignment motor (M9), or the harnesses are open circuited. Correct if any.

Parts to be replaced	Remark
Front alignment motor	
Front alignment plate home position sensor	
Finisher controller PC board	

MJ-1106/1108

Check item	Measures
Front alignment plate	Move the front alignment plate. Fix any mechanical problem.
Front alignment plate home position sensor	Check if there is a disconnection of the connector, incorrect installation or breakage of the front alignment plate home position sensor (S7). If there is, reinstall the sensor correctly or replace it.
	Check if the connector (CN18) on the finisher controller PC board is disconnected from the front alignment plate home position sensor (S7) and the harnesses are open circuited. Correct if so.
Front alignment motor	Check if the connector (CN17) on the finisher controller PC board is disconnected from the front alignment motor (M5) and the harnesses are open circuited. Correct if so.

Parts to be replaced	Remark
Front alignment plate home position sensor	
Finisher controller PC board	

[ED14] Rear alignment plate home position error

Classification	Error content
Finisher jam	Rear alignment plate home position error

MJ-1101/1107

Check item	Measures
Rear alignment plate	Move the Rear alignment plate. If there is any mechanical problem, fix its mechanism.
Rear alignment motor Rear alignment plate home position sensor Finisher controller PC board	Check if the connectors on the finisher controller PC board are disconnected from the Rear alignment plate home position sensor (S8) and the Rear alignment motor (M10), or the harnesses are open circuited. Correct if any.

Parts to be replaced	Remark
Front alignment motor	
Front alignment plate home position sensor	
Finisher controller PC board	

MJ-1106/1108

Check item	Measures
Rear alignment plate	Move the rear alignment plate. Fix any mechanical problem.
Rear alignment plate home position sensor	Check if there is a disconnection of the connector, incorrect installation or breakage of the rear alignment plate home position sensor (S8). If there is, reinstall the sensor correctly or replace it.
	Check if the connector (CN18) on the finisher controller PC board is disconnected from the rear alignment plate home position sensor (S8) and the harnesses are open circuited. Correct if so.

Check item	Measures
Rear alignment motor	Check if the connector (CN17) on the finisher controller PC board is disconnected from the rear alignment motor (M6) and the harnesses are open circuited. Correct if so.

Parts to be replaced	Remark
Rear alignment plate home position sensor	
Finisher controller PC board	

[ED15] Paddle home position error

Classification	Error content
Finisher jam	Paddle home position error

MJ-1101/1107

Check item	Measures
Paddle	Rotate the paddle. If there is any mechanical problem, fix its mechanism.
Paddle home position sensor Paddle motor Finisher controller PC board	Check if the connectors on the finisher controller PC board are disconnected from the paddle home position sensor (S3) and the paddle motor (M8), or the harnesses are open circuited. Correct if any.

Parts to be replaced	Remark
Paddle motor	
Paddle home position sensor	
Finisher controller PC board	

MJ-1106/1108

Check item	Measures
Rear alignment plate	Move the rear alignment plate. Fix any mechanical problem.
Rear alignment motor	Check if the connector (CN17) on the finisher controller PC board is disconnected from the rear alignment motor (M6) and the harnesses are open circuited. Correct if so.

Parts to be replaced	Remark
Rear alignment motor	
Finisher controller PC board	

8

[ED15] Paddle home position detection error

Classification	Error content
Finisher jam	Paddle home position error

MJ-1033

Error	Timing of detection
Transport motor-2 Paddle home position sensor	The paddle home position sensor (S34) does not change from "ON" to "OFF" within the pre-specified time during paddle rotation. The paddle home position sensor (S34) does not change from "OFF" to "ON" within the pre-specified time during paddle rotation.

[ED16] Buffer tray home position error

Classification	Error content
Finisher jam	Buffer tray home position error

MJ-1101/1107

Check item	Measures
Buffer tray guide	Open and close the buffer tray guide. If there is any mechanical problem, fix its mechanism.
Buffer tray home position sensor Buffer tray guide motor Finisher controller PC board	Check if the connectors on the finisher controller PC board are disconnected from the buffer tray home position sensor (S5) and the buffer tray guide motor (M3), or the harnesses are open circuited. Correct if any.

Parts to be replaced	Remark
Buffer tray guide motor	
Buffer tray home position sensor	
Finisher controller PC board	

MJ-1106/1108

Check item	Measures
Buffer tray guide	Open and close the buffer tray guide. Fix any mechanical problem.
Buffer tray home position sensor	Check if there is a disconnection of the connector, incorrect installation or breakage of the buffer tray home position sensor (S5). If there is, reinstall the sensor correctly or replace it.
	Check if the connector (CN11) on the finisher controller PC board is disconnected from the buffer tray home position sensor (S5) and the harnesses are open circuited. Correct if so.
Assist arm motor	Check if the connector (CN13) on the finisher controller PC board is disconnected from the assist arm motor (M10) and the harnesses are open circuited. Correct if so.

Parts to be replaced	Remark
Buffer tray home position sensor	
Finisher controller PC board	

[EF10] Paper not supported for Saddle Stitch Finisher

MJ-1106/1108

Classification	Error item
Finisher jam (Finisher section)	Unsupported paper size, type and an excess number of pages for stapling are selected.

Check item	Measures
Paper	• Paper size check
Buffer tray home position sensor	• Sensor check
	• Connector check
	• Harness check
Buffer tray guide motor	• Motor check
	• Connector check
	• Harness check
Saddle controller board	• Connector check
	• Board check

Parts to be replaced	Remark
Buffer tray home position sensor	
Buffer tray guide motor	
Saddle controller board	

[EF11] Saddle Stitch Finisher stapling error (front)
MJ-1106/1108

Classification	Error item
Finisher jam (Saddle section)	Front stapling is not correctly done.

Check item	Measures
Finisher	• Is there any paper remaining on the paper transport path in the Finisher or the equipment, or on the finishing tray?.
Saddle staple cartridge (Front side)	• Is the jam released by taking off the front staple cartridge from the Finisher and removing the staple sheet slid from the staple case?
Front saddle stapler drive unit	• Unit check • Connector check • Harness check
Saddle controller board	• Connector check (CN3) • Board check

Replace parts	Remarks
Front saddle stapler drive unit	
Saddle controller board	

8

[EF12] Saddle Stitch Finisher stapling error (rear)

MJ-1106/1108

Classification	Error item
Finisher jam (Saddle section)	Rear stapling is not correctly done.

Check item	Measures
Finisher	• Is there any paper remaining on the paper transport path in the Finisher or the equipment, or on the finishing tray?.
Saddle staple cartridge (rear side)	• Is the jam released by taking off the rear staple cartridge from the Finisher and removing the staple sheet slid from the staple case?
Rear saddle stapler drive unit	• Unit check • Connector check • Harness check
Saddle controller board	• Connector check (CN3) • Board check

Replace parts	Remarks
Rear saddle stapler drive unit	
Saddle controller board	

[EF13] Saddle stitch unit paper holding home position detection error

MJ-1106/1108

Classification	Error item
Finisher jam (Saddle section)	The paper holder home position cannot be detected.

Check item	Measures
Finisher	• Is there any mechanical problem when the paper holding cam is rotated?
Paper holding home position sensor (S38)	• Sensor check • Connector check • Harness check
Saddle controller board	• Connector check (CN8) • Board check

Replace parts	Remarks
Paper holding home position sensor (S38)	
Saddle controller board	

[EF14] Saddle paper exit jam

MJ-1106/1108

Classification	Error item
Finisher jam (Saddle section)	Outputting paper is not completed within a fixed time.

Check item	Measures
Finisher	• Is there any paper remaining in the paper transport path of the equipment or the saddle stitch section of the Finisher?
Exit sensor (S31)	• Sensor check • Connector check • Harness check

Check item	Measures
Saddle controller board	• Connector check (CN19) • Board check

Replace parts	Remarks
Exit sensor (S31)	
Saddle controller board	

[EF14, EF1C] Jams in folding/exiting section
MJ-1033

Probable cause	Checking and measures
Saddle stitch finishing tray sensor (S7) abnormality	Measure the voltage on TP65 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Saddle stitch exit path sensor (S5) abnormality	Measure the voltage on TP68 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connectors. (Finisher control PC board (FIN): CN15, CN16)
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the sensors and the connectors, exchange the finisher control PC board (FIN).

[EF15] Saddle Stitch Finisher side alignment motor home position detection abnormality

MJ-1106/1108

Classification	Error item
Finisher jam (Saddle section)	The side alignment motor home position cannot be detected.

Check item	Measures
Finisher	• Is there any mechanical problem when the jog is moved?
Side alignment home position sensor (S36)	• Sensor check • Connector check • Harness check
Side alignment motor (M15)	• Motor check • Connector check • Harness check
Saddle controller board	• Connector check (CN5) • Board check

Replace parts	Remarks
Side alignment home position sensor (S36)	
Side alignment motor (M15)	
Saddle controller board	

8

[EF16] Saddle Stitch Finisher stacker motor home position detection abnormality

MJ-1106/1108

Classification	Error item
Finisher jam (Saddle section)	The stacker motor home position cannot be detected.

Check item	Measures
Stacker carrier	• Is there any mechanical problem when the stacker carrier is moved?
Stacker home position sensor (S33)	• Sensor check • Connector check • Harness check
Stacker motor (M14)	• Motor check • Connector check • Harness check
Saddle controller board	• Connector check (CN4) • Board check

Replace parts	Remarks
Stacker home position sensor (S33)	
Stacker motor (M14)	
Saddle controller board	

[EF17] Saddle Stitch Finisher folding blade home position detection abnormality

MJ-1106/1108

Classification	Error item
Finisher jam (Saddle section)	The folding blade home position cannot be detected.

Check item	Measures
Folding blade cam	• Is there any mechanical problem when the folding blade cam is rotated?
Folding blade home position sensor (S35)	• Sensor check • Connector check • Harness check
Folding blade clutch (CLT3)	• Clutch check • Connector check • Harness check
Saddle controller board	• Connector check (CN15) • Board check

Replace parts	Remarks
Folding blade home position sensor (S35)	
Folding blade clutch (CLT3)	
Saddle controller board	

[EF18] Saddle Stitch Finisher additional folding roller home position detection abnormality

MJ-1106/1108

Classification	Error item
Finisher jam (Saddle section)	The additional folding roller home position cannot be detected.

Check item	Measures
Additional folding carrier	• Is there any mechanical problem when the additional folding carrier is moved?
Additional folding home position sensor (S39)	• Sensor check • Connector check • Harness check
Additional folding motor (M20)	• Motor check • Connector check • Harness check
Saddle controller board	• Connector check (CN18, CN19) • Board check

Replace parts	Remarks
Additional folding home position sensor (S39)	
Additional folding motor (M20)	
Saddle controller board	

[EF19] Saddle paper folding jam

MJ-1106/1108

Classification	Error item
Finisher jam (Saddle section)	Fold processed paper cannot be transported to the additional folding roller.

Check item	Measures
Finisher	• Is there any paper remaining in the paper transport path in the equipment or the saddle stitch section of the Finisher?
Exit transport sensor (S41)	• Sensor check • Connector check • Harness check
Saddle controller board	• Connector check (CN19) • Board check

Replace parts	Remarks
Exit transport sensor (S41)	
Saddle controller board	

8

[EF1B] Saddle stitch finishing tray paper detection error

Classification	Error item
Finisher jam (Finisher section)	Paper remains at the saddle stitch positioning paper exit sensor for a longer period than specified while being transported in the pushing/folding operation.

MJ-1033

Probable cause	Checking and measures
Saddle stitch finishing tray sensor (S7) abnormality	Measure the voltage on TP65 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connector. (Finisher control PC board (FIN): CN15)
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the sensor and the connector, exchange the finisher control PC board (FIN).

[EF20] Saddle stacker jam

MJ-1106/1108

Classification	Error item
Finisher jam (Saddle section)	Transported paper cannot be detected in the stacker.

Check item	Measures
Finisher	• Is there any paper remaining in the paper transport path in the equipment or the saddle stitch section of the Finisher?
Stacker paper detection sensor (S30)	• Sensor check • Connector check • Harness check
Saddle controller board	• Connector check (CN19) • Board check

Replace parts	Remarks
Stacker paper detection sensor (S30)	
Saddle controller board	

8.3.9 Drive system related service call

[C010] Main motor is abnormal

Classification	Error content
Drive system related service call	Main motor is abnormal

Proce dure	Check item	Result	Measure	Next Step
1	Is the main motor working? (Perform the output check in the test mode: 03-101/151)	Yes		2
		No	1. Check if the connector CN1 of the main motor is disconnected. 2. Check if the connector CN308 on the LGC board is disconnected. 3. Check if the connector pins are disconnected and the harnesses are open circuited. 4. Check if the conductor patterns on the main motor board and LGC board are short circuited or open circuited. 5. Replace the main motor. 6. Replace the LGC board.	
2	Are there any damage or scratches on the main motor board?	Yes		3
		No	1. Check if the connector pins are disconnected and the harnesses are open circuited. 2. Check if the conductor patterns on the main motor board and LGC board are short circuited or open circuited. 3. Replace the main motor. 4. Replace the LGC board.	
3	LGC board		1. Check if the PLL lock signal CN308-8 output from the LGC board is always level "L"? 2. Check if the voltage supplied to the CPU input terminal IC22-98 is always "L"? 3. Replace the LGC board.	

Parts to be replaced	Remark
Main motor	
LGC board	

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8.3.10 Paper feeding system related service call

[C040] PFP motor is abnormal

Classification	Error content
Paper feeding system related service call	PFP motor is abnormal.

Proce dure	Check item	Result	Measure	Next Step
1	Is the PFP motor working? (Perform the output check in the test mode: 03-109/159)	Yes		2
		No	1. Check if the signal line connector CN506 of the PFP motor is disconnected. 2. Check if the connector CN246 on the PFP board is disconnected. 3. Check if the connector CN241 on the PFP board is disconnected. 4. Check if the connector CN318 on the LGC board is disconnected. 5. Check if the connector pins are disconnected and the harnesses are open circuited. 6. Check if the conductor patterns on the PFP motor board, PFP board and LGC board are short circuited or open circuited. 7. Replace the PFP motor. 8. Replace the PFP board. 9. Replace the LGC board.	
2	Is the LED on the PFP motor board lit without flickering?	Yes		3
		No	1. Check if the connector pins are disconnected and the harnesses are open circuited. 2. Check if the conductor patterns on the PFP motor board, PFP board and LGC board are short circuited or open circuited. 3. Replace the PFP motor. 4. Replace the PFP board. 5. Replace the LGC board.	
3	PFP board LGC board		1. Check if the PLL lock signal CN246-7 output from the PFP board is always "L" level. 2. Check if the voltage supplied to the microcomputer input terminal IC5-17 is always "L" level. 3. Replace the PFP board. 4. Replace the LGC board.	

Parts to be replaced	Remark
PFP motor	
PFP board	
LGC board	

[C130] Upper drawer tray is abnormal
[C140] Lower drawer tray is abnormal

Classification	Error content
Paper feeding system related service call	Upper drawer tray is abnormal Lower drawer tray is abnormal

Proce dure	Check item	Result	Measure	Next Step
1	Does the tray go up? (Perform the output check in the test mode: 03-242/243)	Yes		2
		No	1. Check if the connector of the tray-up motor is disconnected. 2. Check if the connector CN316 on the LGC board is disconnected. 3. Check if the connector pins are disconnected and the harnesses are open circuited. 4. Check if the conductor pattern on the LGC board is short circuited or open circuited. 5. Replace the LGC board.	
2	Is the tray-up sensor working? (Perform the input check in the test mode: 03-[FAX]OFF/[6]/[B], /[7]/[B])	Yes		3
		No	1. Check if the connector of the sensor is disconnected. 2. Check if the connector CN315 on the LGC board is disconnected. 3. Check if the slit reaches the sensor. 4. Check if the connector pins are disconnected and the harnesses are open circuited. 5. Check if the conductor pattern on the LGC board is short circuited or open circuited. 6. Replace the LGC board.	
3	LGC board		1. Check if the conductor pattern on the LGC board is short circuited or open circuited. 2. Replace the LGC board.	

Parts to be replaced	Remark
LGC board	
Tray-up motor	
Tray-up sensor	

8

[C150] PFP upper drawer tray is abnormal
[C160] PFP lower drawer tray is abnormal

Classification	Error content
Paper feeding system related service call	PFP upper drawer tray is abnormal PFP lower drawer tray is abnormal

Proce dure	Check item	Result	Measure	Next Step
1	Does the tray go up? (Perform the output check in the test mode: 03-278/280)	Yes		2
		No	1. Check if the connector of the tray-up motor is disconnected. 2. Check if any of the connectors CN241 and CN244 on the PFP board is disconnected. 3. Check if the connector CN318on the LGC board is disconnected. 4. Check if the connector pins are disconnected and the harnesses are open circuited. 5. Check if the conductor patterns on the PFP board and LGC board are short circuited or open circuited. 6. Replace the PFP board. 7. Replace the LGC board.	
2	Is the tray-up sensor working? (Perform the input check in the test mode: 03-[FAX]OFF/[2]/[D], /[3]/[D])	Yes		3
		No	1. Check if the connector of the sensor is disconnected. 2. Check if any of the connectors CN241, CN247 and CN248 on the PFP board is disconnected. 3. Check if the connector CN318 on the LGC board is disconnected. 4. Check if the slit reaches the sensor. 5. Check if the connector pins are disconnected and the harnesses are open circuited. 6. Check if the conductor patterns on the PFP board and LGC board are short circuited or open circuited. 7. Replace the PFP board. 8. Replace the LGC board.	
3	LGC board		1. Check if the conductor pattern on the LGC board is short circuited or open circuited. 2. Replace the LGC board.	

Parts to be replaced	Remark
PFP board	
LGC board	
Tray-up motor	
Tray-up sensor	

[C180] LCF tray-up motor is abnormal

Classification	Error content
Paper feeding system related service call	LCF tray-up motor is abnormal

Proce dure	Check item	Result	Measure	Next Step
1	Does the tray move? (Perform the output check in the test mode: 03-271)	Yes		2
		No	1. Does the tray move? (Perform the output check in the test mode: 03-271) 2. Check if the connector of the LCF tray-up motor is disconnected. 3. Check if any of the connectors CN1 and CN5 on the LCF board is disconnected. 4. Check if the connector CN318 on the LGC board is disconnected. 5. Check if the connector pins are disconnected and the harnesses are open circuited. 6. Check if the conductor patterns on the LCF board and LGC board are short circuited or open circuited. 7. Replace the LCF board.	
2	Are the LCF tray bottom sensor and LCF tray-up sensor working? (Perform the input check in the test mode: 03-[FAX]OFF/[5]/[A], /[5]/[B])	Yes		3
		No	1. Check if the connectors of the sensors are disconnected. 2. Check if any of the connectors CN1, CN2 and CN6 on the LCF board is disconnected. 3. Check if the connector CN318 on the LGC board is disconnected. 4. Check if the slit reaches the sensors. 5. Check if the connector pins are disconnected and the harnesses are open circuited. 6. Check if the conductor patterns on the LCF board and LGC board are short circuited or open circuited. 7. Replace the LCF board. 8. Replace the LGC board.	
3	LGC board		1. Check if the conductor pattern on the LGC board is short circuited or open circuited. 2. Replace the LGC board.	

Parts to be replaced	Remark
LCF board	
LGC board	
LCF tray-up motor	
LCF tray-up sensor	

8

[C1A0] LCF end fence motor is abnormal

Classification	Error content
Paper feeding system related service call	LCF end fence motor is abnormal

Proce dure	Check item	Result	Measure	Next Step
1	Is the LCF end fence motor working? (Perform the output check in the test mode: 03-207)	Yes		2
		No	1. Check if the connector of the LCF end fence motor is disconnected. 2. Check if any of the connectors CN1 and CN5 on the LCF board is disconnected. 3. Check if the connector CN318 on the LGC board is disconnected. 4. Check if the connector pins are disconnected and the harnesses are open circuited. 5. Check if the conductor patterns on the LCF board and LGC board are short circuited or open circuited. 6. Replace the LCF board. 7. Replace the LGC board.	
2	Are the LCF end fence home/stop position sensors working? (Perform the input check in the test mode: 03-[FAX]OFF/[5]/[D], /[5]/[C])	Yes		3
		No	1. Check if the connectors of the sensors are disconnected. 2. Check if either of the connectors CN1 or CN4 on the LCF board is disconnected. 3. heck if the connector CN318 on the LGC board is disconnected. 4. Check if the slit reaches the sensors. 5. Check if the connector pins are disconnected and the harnesses are open circuited. 6. Check if the conductor patterns on the LCF board and LGC board are short circuited or open circuited. 7. Replace the LCF board. 8. Replace the LGC board.	
3	LGC board		1. Check if the conductor pattern on the LGC board is short circuited or open circuited. 2. Replace the LGC board.	

Parts to be replaced	Remark
LCF board	
LGC board	
LCF end fence motor	
End fence home/stop position sensors	

[C1B0] LCF transport motor is abnormal

Classification	Error content
Paper feeding system related service call	LCF transport motor is abnormal

Proce dure	Check item	Result	Measure	Next Step
1	Is the LCF transport motor working? (Perform the output check in the test mode: 03-122/172)	Yes		2
		No		3
2	LCF transport motor LCF board LGC board		1. Check if the connector pins are disconnected and the harnesses are open circuited. 2. Check if the conductor patterns on the LCF transport motor board, LCF board and LGC board are short circuited or open circuited. 3. Check if the PLL lock signal CN3-10 output from the LCF board is always "L" level. 4. Check if the voltage supplied to the microcomputer input terminal IC103-17 is always "L" level. 5. Replace the LCF transport motor. 6. Replace the LCF board. 7. Replace the LGC board.	
3	LCF transport motor LCF board LGC board		1. Check if the connector of the LCF transport motor is disconnected. 2. Check if the connector CN1, CN3 on the LCF board is disconnected. 3. Check if the connector CN318 on the LGC board is disconnected. 4. Check if the connector pins are disconnected and the harnesses are open circuited. 5. Check if the conductor patterns on the LCF transport motor board, LCF board and LGC board are short circuited or open circuited. 6. Replace the LCF transport motor. 7. Replace the LCF board. 8. Replace the LGC board.	

Parts to be replaced	Remark
LCF transport motor	
LCF board	
LGC board	

8.3.11 Scanning system related service call

[C260] Peak detection error (e-STUDIO206L/256/306/356/456/506)

Classification	Error content
Scanning system related service call	Peak detection error

Proce dure	Check item	Result	Measure	Next Step
1	Flat cable connecting the SLG board and the CCD board		1. Check if the harness at the SLG board side is inserted into the slot of the connector properly. 2. Check if the lock of the connector at the SLG board side is locked properly.	If normal, go to 2.
2	Is the exposure lamp lit? (Output check: 03-267)	Yes	It is lit.	3
		No	It is not lit.	4
3	Shading correction plate		1. Check if there is any scratch or stain on the shading correction plate. 2. Check if the shading correction plate is any scratch or dirty.	
	Mirror		1. Check if the mirror is tilted. - Check that the lens is reflected in the mirror looking at carriage-1 from an upper position. - Check that the mirror is secured at the leaf spring.	
	Exposure lamp		1. Check if the exposure lamp is correctly lit. 2. Check if the harness is connected properly to the connector of the inverter board or the LED board. 3. When the carriage is driven, check if the harness interferes with it or parts are caught in it.	
	CCD board / Lens unit		1. Check if the connector of the CCD board is connected properly. 2. Check if the CCD board is installed properly. (Check that the lens unit is not tilted or the screw is securely tighten.)	
	SLG board		1. Check if the connector of the SLG board is connected properly. 2. Check if the mounted parts on the SLG board are damaged or abnormal. 3. Check if 10 V is output from the power supply for CCD.	
4	SLG board		1. Check if the supply cable is connected properly to the connector. 2. Check if the mounted parts on the SLG board are damaged or abnormal.	
	Inverter board / LED board		1. Check if the harness of the exposure lamp is connected to the inverter board or LED board properly. 2. Check if the supply harness to the inverter board is connected properly. 3. Check if the mounted parts on the inverter board or the LED board are damaged or abnormal.	
	Exposure lamp		1. Check if the harness of the exposure lamp is connected to the inverter board or LED board properly. 2. Check if the exposure lamp is scratched or damaged.	
	Supply harness		1. Check if wiring of the supply harness (CN127) is abnormal. 2. Check if the harness is scratched or open circuited.	

Parts to be replaced	Remark
Lens unit	
SLG board	
Exposure lamp	
Supply harness	

[C260] Peak detection error (e-STUDIO207L/257/307/357/457/507)

Classification	Error content
Scanning system related service call	Peak detection error

Proce dure	Check item	Result	Measure	Next Step
1	Is the exposure lamp lit? (Output check: 03-267)	Yes	It is lit.	2
		No	It is not lit.	3
2	Shading correction plate	1. Check if there is any scratch or stain on the shading correction plate. 2. Check if the shading correction plate is any scratch or dirty.	
	Mirror	1. Check if the mirror is tilted. - Check that the lens is reflected in the mirror looking at carriage-1 from an upper position. - Check that the mirror is secured at the leaf spring. **Notes: Do not turn the mirror adjustment screw more than necessary.**	
	Carriage	1. Check if the carriage is tilted by moving it to the left stopping point. 2. Check if the wire fixing screw is loosened. 3. Check if the movement of the carriage is unstable due to disengagement of the carriage roller.	
	Exposure lamp	1. Check if the exposure lamp is flickering when it is turned on. 2. Check if the connector is properly connected all the way in the board of LED lamp unit. 3. While the carriage is being driven, check if the harness catches it or interferes with it.	
	CCD board	1. Check if the connector is properly connected all the way in the CCD board. 2. Check if the CCD board or the lens unit is tilted. Check if the screw is securely tightened. 3. Replace the lens unit.	
	SYS board	1. Check if the connector is properly connected all the way in the SYS board. 2. Check if there is any abnormality in the parts mounted on the SYS board or in the appearance of the SYS board. 3. Check if 10V is output from the power supply for the CCD. 4. Replace the SYS board.	

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Proce dure	Check item	Result	Measure	Next Step
3	Exposure lamp		1. Check if the connector is properly connected to the board of LED lamp unit. 2. Check if there are any scratches or damage on the board of LED lamp unit. 3. Replace the exposure lamp unit.	
	SYS board		1. Check if the connector is properly connected to the SYS board. 2. Check if there is any abnormality in the parts mounted in the SYS board. 3. Replace the SYS board.	
	Harness		1. Check if wiring of the harness (CN130 on the SYS board) is abnormal. 2. Check if the harness (CN130 on the SYS board) has any scratch on it or is open circuited or caught anywhere. 3. Replace the harness (CN130 on the SYS board).	

Parts to be replaced	Remark
LED lamp unit	
Lens unit	
SYS board	
Harness	

[C261] Peak detection error (e-STUDIO257/257P/357/457/507)

Classification	Error content
Scanning system related service call	Peak detection error (the light source is extremely light)

Proce dure	Check item	Measure
1	Board of the LED lamp unit	1. Replace the exposure lamp unit.
2	SYS board	1. Check if there is any abnormality in the appearance of the LED driver IC (IC37). 2. Replace the SYS board.
3	Reflector	1. Check if there is any abnormality in the appearance of the reflector, such as deformation. 2. Replace the carriage-1.

Parts to be replaced	Remark
LED lamp unit	
SYS board	

[C262] Communication error between the CCD board and the SYS board (e-STUDIO257/257P/357/457/507)

Classification	Error content
Scanning system related service call	Peak detection error (the light source is extremely light)

Proce dure	Check item	Measure
1	Lens unit	1. Check if the connector is properly connected all the way in the CCD board. 2. Check if there is any abnormality in the appearance of parts mounted on the CCD board. 3. Check if +5V is output to the lens unit. 4. Check if +3.3V is output from IC9. Check if +1.8V is output from IC11. 5. Replace the Lens unit.
2	SYS board	1. Check if the connector is properly connected all the way in the SYS board. 2. Check if there is any abnormality in the appearance of parts mounted on the SYS board. 3. Check if +5V is output to the SYS board. 4. Replace the SYS board.
3	Harnesses	1. Check if the harness has any scratch on it or is open circuited or caught anywhere. 2. Check if there is any abnormality in the connector terminal or the contacting surface of the flat harness. 3. Replace the harness between the SYS board and the CCD board.

Parts to be replaced	Remark
Lens unit	
SYS board	
Harnesses	

[C270] Carriage home position sensor not going OFF within a specified time (e-STUDIO206L/256/306/356/456/506)

Classification	Error content
Scanning system related service call	The carriage does not shift from its home position in a specified period of time.

Remove the original glass and move the carriages to the paper feeding side. Turn ON the power and check the following items.

	Check item	Measure
1	Carriage locking	Check if the carriage locking screw for packaging is attached.
2	Carriage home position sensor	1. Check if the harness of the carriage home position sensor is connected properly. 2. Check if the harness is caught or open circuited.

	Check item	Measure
3	SLG board	1. Check if the harness of the carriage home position sensor on the SLG board is connected properly. 2. Check if the mounted parts on the SLG board are damaged or abnormal. 3. Check if 24 V on the SLG board is short-circuited. 4. Check if 24 V is supplied to the SLG board.
4	Scan motor	1. Check if the belt tension is loosened. 2. Check if the motor fixing screw is loosened. 3. Check if the carriage wire and the timing belt come off. 4. Check if the connector is connected to the motor properly. 5. Check if the harness of the motor is caught or open circuited.

Parts to be replaced	Remark
Carriage home position sensor	
Carriage home position sensor harness	
SLG board	
Scan motor	
Scan motor harness	

[C270] Carriage home position sensor not going OFF within the specified time (e-STUDIO257/257P/357/457/507)

Classification	Error content
Scanning system related service call	The carriage does not shift from its home position in a specified period of time. / Abnormal carriage home position sensor.

Remove the original glass and move the carriages to the paper feeding side. Turn ON the power and check the following items.

	Check item	Measure
1	Carriage home position sensor	1. Check if the harness of the carriage home position sensor is connected properly. 2. Check if the harness has any scratch on it or is open circuited or caught anywhere. 3. Check if there is any abnormality in the carriage home position sensor. 4. Replace the carriage home position sensor. 5. Replace the harness.
	SYS board	1. Check if the harness (CN127) of the carriage home position sensor is connected properly. 2. Check if there is any abnormality in the parts mounted on the SYS board. 3. Check if 24V on the SYS board is short circuited. 4. Check if 24V is supplied to the SYS board. 5. Check if there is any abnormality in the parts mounted on the SYS board. 6. Replace the SYS board.
	Scan motor	1. Check if the belt tension is loosened. 2. Check if the motor fixing screw is loosened. 3. Check if the carriage wire and the timing belt come off. 4. Check if the connector is connected to the scan motor properly. 5. Check if the harness of the scan motor has any scratch on it or is open circuited or caught anywhere. 6. Replace the scan motor or the harness.
2	carriage lock	1. Check if the carriage locking is released.

Parts to be replaced	Remark
Carriage home position sensor	
Carriage home position sensor harness	
SYS board	
Scan motor	
Scan motor harness	

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[C280] Carriage home position sensor not going ON within a specified time (e-STUDIO206L/256/306/356/456/506)

Classification	Error content
Scanning system related service call	The carriage does not reach to its home position in a specified period of time.

Remove the original glass and move the carriages to the paper feeding side. Turn ON the power and check the following items.

	Check item	Measure
1	Carriage lock	Check if the carriage locking screw for packaging is attached.
2	Carriage home position sensor	1. Check if the harness is properly connected to the sensor. 2. Check if the harness is caught or open circuited.
3	SLG board	1. Check if the harness of the carriage home position sensor is connected properly. 2. Check if the mounted parts on the SLG board are damaged or abnormal. 3. Check if 24 V on the SLG board is short-circuited. 4. Check if 24 V is supplied to the SLG board.
4	Scan motor	1. Check if the belt tension is loosened (if the motor screw is loosened). 2. Check if the wire and the belt come off. 3. Check if the connector (J007/J125) is connected to the motor properly. 4. Check if the harness of the motor is caught or open circuited.

Parts to be replaced	Remark
Carriage home position sensor	
Carriage home position sensor harness	
SLG board	
Scan motor	
Scan motor harness	

[C280] Carriage home position sensor not coming ON within the specified time (e-STUDIO257/257P/357/457/507)

Classification	Error content
Scanning system related service call	Abnormal carriage movement / Abnormal carriage home position sensor behavior

	Check item		Measure
1	Carriage home position sensor		1. Check if the harness of the carriage home position sensor is connected properly. 2. Check if the harness has any scratch on it or is open circuited or caught anywhere. 3. Check if there is any abnormality in the carriage home position sensor. 4. Replace the carriage home position sensor. 5. Replace the harness.
	SYS board		1. Check if the harness (CN127) of the carriage home position sensor is connected properly. 2. Check if there is any abnormality in the parts mounted on the SYS board. 3. Check if 24V (capacitor: C303) on the SYS board is short circuited. 4. Check if 24V (capacitor: C303) is supplied to the SYS board. 5. Check if there is any abnormality in the parts mounted on the SYS board. 6. Replace the SYS board.
	Scan motor		1. Check if the belt tension is loosened. 2. Check if the motor fixing screw is loosened. 3. Check if the carriage wire and the timing belt come off. 4. Check if the connector is connected to the scan motor properly. 5. Check if the harness of the scan motor has any scratch on it or is open circuited or caught anywhere. 6. Replace the scan motor or the harness.
2	carriage lock		1. Check if the carriage locking is released.

Parts to be replaced	Remark
Carriage home position sensor	
SYS board	
Scan motor	
Harness	

8

[C290] Scanner fuse blowout (e-STUDIO206L/256/306/356/456/506)

Classification	Error content
Scanning system related service call	The scanning system does not operate due to a blowout of the fuse in the scanning system.

Check item	Result	Measure
Is 24V supplied to the SLG board?	Yes	Check the following because the signal for checking 24V on the SLG board is abnormal. 1. Check if 3V is input in 35 Pin of the scanner CPU (IC10). 2. Check if the mounted parts on the SLG board are damaged or abnormal. 3. Check if 24V on the SLG board is short circuited. 4. Check if 24V is supplied to the SLG board.
	No	1. Check if the supply harness is connected properly to the connector. 2. Check if 24V and SG on the SLG board are short circuited. 3. Check if the power supply is short circuited by pulling out the supply harness on the SLG board. 4. Check if the fuse on the LVPS is open circuited.

Parts to be replaced	Remark
SLG board	
Fuse	
Supply harness	
LVPS	

[C290] Scanner fuse blowout (e-STUDIO257/257P/357/457/507)

Classification	Error content
Scanning system related service call	Power is not supplied to the scanner due to its power fuse blowout and it does not operate

Check item	Result	Measure
Is 24V supplied to the SYS board?	Yes	Check the following because the 24V check signal on the SYS board is abnormal: 1. Check if there is any abnormality in the parts mounted on the SYS board. 2. Check if 3V is input in Pin 35 of the scanner CPU (IC15) of the SYS board. 3. Replace the SYS board.
	No	1. Check if the supply harness (CN130) is connected properly. 2. Check if 24V and SG on the SYS board are short circuited. 3. Check if the power supply is not short circuited by disconnecting the supply harness (CN130) on the SYS board. 4. Check if the fuse on the switching power supply (LVPS) is open circuited. 5. Replace the fuse. 6. Replace the supply harness.

Parts to be replaced	Remark
SYS board	
Fuse	
LVPS	
Harness	

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8.3.12 Process related service call

[C3D0] EPU board memory overwriting error

Classification	Error content
Process related service call	EPU board memory overwriting error

Check item	Measure
Process unit	Check if the process unit is properly installed, and check if the connector pins that are connected to the equipment are disconnected or have any abnormality such as deformation.
EPU memory board	Check if the harness connected to the connector J451 on the EPU board has any abnormality.

Parts to be replaced	Remark
EPU memory board	
LGC board	

[C3D1] EPU board memory new parts detection error

Classification	Error content
Process related service call	EPU board memory new parts detection error

Check item	Measure
Process unit	1. If the process unit has been replaced with a new one before the equipment is started, turn the power OFF and then back ON in the EPU replacement mode ([7] + [START]). 2. If the process unit has not been replaced, check the following. 3. Check if the process unit is properly installed, and check if the connector pins that are connected to the equipment are disconnected or have any abnormality such as deformation. 4. Check if the harness connected to the connector J451 on the EPU board has any abnormality.

Parts to be replaced	Remark
EPU memory board	
LGC board	

[C3D2] EPU board memory old parts detection error

Classification	Error content
Process related service call	EPU board memory old parts detection error

Check item	Measure
Process unit EPU memory board	1. Check if the process unit is a new one. If it is a new one, check the following: 2. Check if the process unit is properly installed, and check if the connector pins that are connected to the equipment are disconnected or have any abnormality such as deformation. 3. Check if the harness connected to the connector J451 on the EPU board has any abnormality.

Parts to be replaced	Remark
EPU memory board	
LGC board	

[CE50] Temperature/humidity sensor abnormality

Classification	Contents
Process related service call	Temperature/humidity sensor abnormality

Check Item	Result	Measure
Is the connector CN317 on the LGC board or the connector of the temperature/humidity sensor disconnected? Is the harness between the LGC board and the temperature/humidity sensor disconnected?	Yes	1. Connect the connector securely. Replace the harness.
	No	1. Replace the temperature/humidity sensor. 2. Replace the LGC board.

Replacement part	Remark
Temperature/humidity sensor	
LGC board	

[CE90] Drum thermistor abnormal

Classification	Contents
Process related service call	Drum thermistor abnormal

Check Item	Measure
LGC board Process unit	1. Check if there is any abnormality on the connector between the equipment and the process unit. 2. Is the harness between the LGC board and the drawer connector for process unit disconnected? 3. Is the harness inside of the process unit and the harness of the drum thermistor disconnected? 4. Is the connector CN310 on the LGC board, or the connector of the drum thermistor disconnected?

Replacement part	Remark
Drum thermistor	
EPU memory board	
LGC board	

[C911] The toner IC chip access is abnormal

Classification	Contents
Toner cartridge related service call	The toner IC chip access is abnormal.

Check Item	Measure
1. Toner cartridge	1. Check if the recommended toner cartridge is used. 2. Check if the CTRG board is installed properly.
2. CTIF board	1. Check if the contact-point spring is deformed. 2. Check if the contact-point spring is returned to its original position when it is pushed. 3. Check if the CTIF board is installed properly.
3. LGC board	1. Check if there is no abnormality on the LGC board. 2. Check if the conductor pattern on the LGC board is open or short circuited. 3. Check if the connector CN309 is disconnected.
4. Harness	1. Check the harness connecting the LGC board and the CTIF board. 2. Check the connectors (CN308 at the LGC board and CN150 at the CTIF board).

Parts to be replaced	Remark
Toner cartridge	
CTIF board	
LGC board	
Harness	

[C970] High-voltage transformer abnormality

Classification	Contents
Process related service call	High-voltage transformer abnormality

Check Item	Measure
	1. Is the main charger installed securely? 2. Check if the spring of high-voltage supply contact point is deformed. 3. Check if the needle electrode is broken or the main charger grid is deformed. 4. Check if any foreign matters is on the needle electrode or the main charger grid. 5. Check if the transfer roller and the separation needle are installed securely. 6. Check if the transfer roller or the separation needle is removed. 7. Check if there is any foreign matter attached on the transfer roller or the separation needle.

8.3.13 Fuser unit related service call

> **CAUTION**
> **Be sure to turn OFF the power and unplug the power cable beforehand when checking the heater.**
> **The fuser unit itself or the part of the unit remains heated and the capacitors are still charged after a while the power cable is unplugged. So make sure the unit is cooled down enough before checking.**

[C410] [C411] Thermistor or heater is abnormal at power ON

Classification	Error content
Fuser unit related service call	Thermistor or heater is abnormal at power ON

Check item	Measure
1. Check the thermistors	1. Check if the connectors are disconnected. 2. Check if the center, side and edge thermistors are in contact with the surface of the fuser roller properly? 3. Check if the center, side and edge thermistors are not deformed or dirty. 4. Check if the harnesses of the center, side and edge thermistors are open circuited.
2. Check the heater	1. Check if the heater is broken. 2. Check if the connector of the heater is disconnected. 3. Check if the harnesses are connected properly to the terminals of the heater lamp. 4. Check if the thermostat is blown.
3. Check the LGC board	1. Check if the connectors CN308 are disconnected. 2. Check if the conductor pattern on the LGC board is short circuited or open circuited. 3. Replace the LGC board.
4. Clear the status counter	After repairing the matter which caused the error, perform the following: 1. Turn ON the power while [0] and [8] are pressed simultaneously. 2. Key in "2002", then press [START]. 3. Change the current status counter value "1" or "2" to "0", then press [OK] or [INTERRUPT] (to cancel the error). 4. Turn the power OFF and then back ON. Make sure that the equipment enters the normal ready state.

Parts to be replaced	Remark
LGC board	

[C412] Thermistor or heater is abnormal at power ON

Classification	Error content
Fuser unit related service call	Thermistor or heater is abnormal at power ON

Check item	Measure
1. Check the fuse	Check if the fuse (F203) is open circuited.

Check item	Measure
2. Check the connector	Check if the pins of the connector are tilted and contact each other. • Connectors (J70 and J71) on the RADF board • RADF connector (J42) connected to the equipment • Connectors (CN131 and CN130) on the SYS board • Connector (CN419) on the switching regulator
3. Check the thermistors	1. Check if the connectors are disconnected. 2. Check if the center, side and edge thermistors are in contact with the surface of the fuser roller properly? 3. Check if the center, side and edge thermistors are not deformed or dirty. 4. Check if the harnesses of the center, side and edge thermistors are open circuited.
4. Check the heater	1. Check if the heater is broken. 2. Check if the connector of the heater is disconnected. 3. Check if the harnesses are connected properly to the terminals of the heater lamp. 4. Check if the thermostat is blown.
5. Check the LGC board	1. Check if the connectors CN308 are disconnected. 2. Check if the conductor pattern on the LGC board is short circuited or open circuited. 3. Replace the LGC board.
6. Clear the status counter	After repairing the matter which caused the error, perform the following: 1. Turn ON the power while [0] and [8] are pressed simultaneously. 2. Key in "2002", then press [START]. 3. Change the current status counter value "1" or "2" to "0", then press [OK] or [INTERRUPT] (to cancel the error). 4. Turn the power OFF and then back ON. Make sure that the equipment enters the normal ready state.

Parts to be replaced	Remark
LGC board	
Fuse (F203)	
Harness	

[C430] Thermistor abnormality after abnormality judgment
[C440] Fuser is abnormal after abnormality judgment

Classification	Error content
Fuser unit related service call	Thermistor abnormality after abnormality judgment Fuser is abnormal after abnormality judgment

Check item	Measure
1. Check the thermistors	1. Check if the connectors are disconnected. 2. Check if the center, side and edge thermistors are in contact with the surface of the fuser roller properly? 3. Check if the center, side and edge thermistors are not deformed or dirty. 4. Check if the harnesses of the center, side and edge thermistors are open circuited.

Check item	Measure
2. Check the heater	1. Check if the heater is broken. 2. Check if the connector of the heater is disconnected. 3. Check if the harnesses are connected properly to the terminals of the heater lamp. 4. Check if the thermostat is blown.
3. Check the LGC board	1. Check if the connectors CN308 are disconnected. 2. Check if the conductor pattern on the LGC board is short circuited or open circuited. 3. Replace the LGC board.

4. Check the ground connection of the heat roller	1. Check if the fuser unit is tightly screwed to the equipment with no gap.
	
	Notes:
	   • Tighten the screws while pressing the fuser unit with your hand.
	   • Using a driver is recommended to fix the fuser unit.
	2. Check if the grounding leaf spring in the fuser unit is in contact due to deformation.
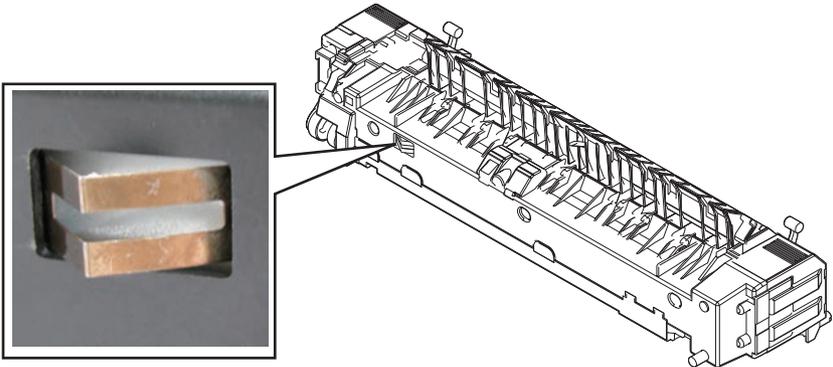	
	Fig.8-1

5. Check the power supply	Replace the switching regulator.
6. Clear the status counter	• Change the current status counter value (08-2002) "4" to "0" for [C430] and "5", "7" or "9" to "0" for [C440], taking the same procedure as that for [C410]. * The status counter value is as follows in the following cases. Change them to "0" respectively. - The error occurred during warming-up: "4" or "5" - The error occurred after the equipment has become ready: "7" - The temperature detected by the center thermistor is 240°C or higher: "9" - The temperature detected by the side thermistor is 240°C or higher: "9" - The temperature detected by the edge thermistor is 240°C or higher: "9" only during printing.

Parts to be replaced	Remark
Switching regulator	

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[C443] [C445] Heater thermistor abnormality at power ON

Classification	Error content
Fuser unit related service call	A thermistor abnormality is detected when the power is turned ON. The temperature of the fuser roller does not rise within a specified period after the power is turned ON.

Check item	Measure
1. Check the power supply	Check that the power supply voltage is normal.
2. Check the error status	1. Check the thermistors using the code values to find where the problem is. 08-4570-0: Center thermistor 08-4570-1: Side thermistor 08-4570-2: Edge thermistor 08-4570-5: Error counter
3. Check the thermistors	1. Check if the connectors of the center, side or edge thermistors are disconnected. 2. Check if the center, side and edge thermistors contact the surface of the fuser roller properly. 3. Check if the center, side and edge thermistors are deformed or dirty. 4. Check if the harnesses of the center, side and edge thermistors are open circuited.
4. Check the heater	1. Check if the heater is broken. (Check that the heater is conducted properly.) 2. Check if the connector of the heater is disconnected. 3. Check if the harnesses are connected properly to the terminals of the heater lamp. 4. Check if the thermostat is blown.
5. Check the LGC board	1. Check if the connector CN309 is disconnected. 2. Check if the conductor pattern on the LGC board is open or short circuited. 3. Replace the LGC board.
6. Clear the status counter	1. Change the value of the status counter (08-2002) to "0". C443: "3" is written in 08-2002. C445: "5" is written in 08-2002.

Parts to be replaced	Remark
LGC board	
Thermistors	
Heater lamp	

[C447] The fusing temperature is 40 degrees C or lower

Classification	Error content
Fuser unit related service call	The fusing temperature is 40 degrees C or lower.

Check item	Measure
1. Check the thermistors	1. Check if the connectors of the center, side or edge thermistors are disconnected. 2. Check if the center, side and edge thermistors contact the surface of the fuser roller properly. 3. Check if the center, side and edge thermistors are deformed or dirty. 4. Check if the harnesses of the center, side and edge thermistors are open circuited.
2. Check the heater	1. Check if the heater is broken. (Check that the heater is conducted properly.) 2. Check if the connector of the heater is disconnected. 3. Check if the harnesses are connected properly to the terminals of the heater lamp. 4. Check if the thermostat is blown.
3. Check the LGC board	1. Check if the connector CN309 is disconnected. 2. Check if the conductor pattern on the LGC board is open or short circuited. 3. Replace the LGC board.
4. Check the power supply	Replace the switching regulator.
5. Clear the status counter	1. Change the value of the status counter (08-2002) to "0". ("7" or "8" is written in 08-2002.)

Parts to be replaced	Remark
LGC board	
Thermistors	
Heater lamp	

[C449] The fusing temperature is above 240 degrees C

Classification	Error content
Fuser unit related service call	The fusing temperature is above 240 degrees C.

Check item	Measure
1. Check the thermistors	1. Check if the connectors of the center, side or edge thermistors are disconnected. 2. Check if the center, side and edge thermistors contact the surface of the fuser roller properly. 3. Check if the center, side and edge thermistors are deformed or dirty. 4. Check if the harnesses of the center, side and edge thermistors are open circuited.
2. Check the heater	1. Check if the heater is broken. (Check that the heater is conducted properly.) 2. Check if the connector of the heater is disconnected. 3. Check if the harnesses are connected properly to the terminals of the heater lamp. 4. Check if the thermostat is blown.
3. Check the LGC board	1. Check if the connector CN309 is disconnected. 2. Check if the conductor pattern on the LGC board is open or short circuited. 3. Replace the LGC board.
4. Check the power supply	Replace the switching regulator.

Check item	Measure
5. Clear the status counter	1. Change the value of the status counter (08-2002) to "0". (Any of the following values is written in 08-2002. 9, 19, 21, 22, 23, 25, 27, 29 or 45)

Parts to be replaced	Remark
LGC board	
Thermistors	
Heater lamp	

[C450] Thermistor abnormality during printing

Classification	Error content
Fuser unit related service call	Thermistor abnormality during printing

Check item	Measure
1. Check the edge thermistor	1. Check if the connector is disconnected. 2. Check if the edge thermistor is in contact with the surface of the fuser roller properly. 3. Check if the harness of the edge thermistor is open circuited.
2. Check the LGC board	1. Check if the connector CN308 is disconnected. 2. Check if the conductor pattern on the board is short circuited or open circuited. 3. Replace the LGC board.
3. Clear the status counter	1. Change the current status counter value (08-2002) "6" to "0".

Parts to be replaced	Remark
LGC board	

[C452] The temperature between the center and edge thermistors differs by more than 100 degrees C when reaching the Ready temperature

Classification	Error content
Fuser unit related service call	The temperature between the center and edge thermistors differs by more than 100 degrees C when reaching the Ready temperature.

Check item	Measure
1. Check the edge thermistors	1. Check if the connectors of the center, side or edge thermistors are disconnected. 2. Check if the center, side and edge thermistors contact the surface of the fuser roller properly. 3. Check if the center, side and edge thermistors are deformed or dirty. 4. Check if the harnesses of the center, side and edge thermistors are open circuited.
2. Check the LGC board	1. Check if the connector CN309 is disconnected. 2. Check if the conductor pattern on the LGC board is open or short circuited. 3. Replace the LGC board.

Check item	Measure
3. Clear the status counter	1. Change the value of the status counter (08-2002) to "0". ("62" is written in 08-2002.)

Parts to be replaced	Remark
LGC board	
Thermistors	

[C4B0] Fusing error counter for out-of-specifications

Classification	Error content
Fuser unit related service call	Fusing error counter for out-of-specifications

Check item	Measure
1. Check the LGC board	1. Check if the conductor pattern on the LGC board is open or short circuited. 2. Check if the memory (IC41) is installed properly. 3. Replace the LGC board.
2. Clear the status counter	1. Change the value of the status counter (08-2002) to "0".

Parts to be replaced	Remark
LGC board	

[C4C0] Fuser unit new/old detection fuse abnormality

Classification	Error content
Fuser unit related service call	Fuser unit new/old detection fuse abnormality

Check item	Measure
1. Check the fuser unit.	1. Are the connectors disconnected? 2. Are the harnesses open circuited? 3. Replace the fuser unit.
2. Check the PC board	1. Are the connectors disconnected? 2. Are the harnesses short circuited or open circuited? 3. Replace the board.

Parts to be replaced	Remark
Fuser unit.	
PC board	

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8.3.14 Optional communication related service call

[C550] RADF I/F error

Classification	Error content
Optional communication related service call	RADF I/F error

Check item	Measure
RADF board	• Check if the harness connecting the RADF board and SLG board / SYS board is disconnected or open circuited. • Check if the conductor pattern on the RADF board is short circuited or open circuited. • Connector check
SLG board (e-STUDIO206L/256/306/356/456/506)	• Check if the conductor pattern on the SLG board is short circuited or open circuited. • Connector check
SYS board (e-STUDIO207L/257/307/357/457/507)	• Check if the conductor pattern on the SYS board is short circuited or open circuited. • Connector check

Parts to be replaced	Remark
RADF board	
SLG board	

[C551] Document feeder model detection error

Classification	Error content
Optional communication related service call	Document feeder model detection error

Check item	Measure
RADF	Check if the installed RADF is an option exclusively set for the model.
	Replace the RADF with the one exclusively set for the model.

[C570] Communication error between Engine-CPU and IPC board

Classification	Error content
Optional communication related service call	Communication error between Engine-CPU and CNV board

Check item	Measure
LGC board	• Check if the LGC board and CNV board are connected properly. • Check if the conductor pattern on the LGC board is short circuited or open circuited.
CNV board	Check if the conductor pattern on the CNV board is short circuited or open circuited.

Parts to be replaced	Remark
LGC board	
CNV board	

[C580] Communication error between CNV board and finisher

Classification	Error content
Optional communication related service call	Communication error between CNV board and finisher

Check item	Measure
Setting of the equipment	• Check if the MJ-1101/1107, MJ-1106/1108, MJ-1032 or MJ-1033 is set as the specified finisher on the equipment (08-4548).
CNV board	• Check if the harness connecting the CNV board and the finisher controller PC board is disconnected or open circuited. • Check if the conductor pattern on the CNV board is short circuited or open circuited.
Finisher controller PC board	Check if the conductor pattern on the finisher controller PC board is short circuited or open circuited.

Parts to be replaced	Remark
CNV board	
Finisher controller PC board	

[C8E0] RADF communication protocol abnormality

Classification	Error content
Optional communication related service call	RADF communication protocol abnormality

Check item	Measure
	Turn the power OFF and then back ON to check if the equipment operates normally.

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[CE00] Communication error between finisher and puncher unit

Classification	Contents
Optional communication related service call	Communication error between finisher and punch unit: Communication error between finisher controller PC board and punch controller PC board

MJ-1101 (when MJ-6103 is installed), MJ-1107 (when MJ-6104 is installed)

Check Item	Measure
Hole punch control PC board (HP)	• Check the connectors and harnesses between the hole punch control PC board (HP) and the finisher control PC board. • Board check

Replacement part	Measure
Hole punch control PC board (HP)	
Finisher control PC board	

[CE00] Communication error (signal transmission to the Hole Punch Unit)
MJ-1033

Error	Timing of detection
Optional communication related service call	No response is received in a control line from the Hole Punch Unit in the specified time during communication determination using control lines at power-ON.
	Three consecutive transmission retries failed after a data reception error was detected.
	No response is received in a control line in the specified time after data transmission from the Finisher.
	No response is returned to a command from the Finisher after the specified time has passed.

Probable cause	Checking and measures
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connector. (Hole punch control PC board (HP): CN1, CN2)
Abnormality of the finisher control PC board (FIN) or the hole punch control PC board (HP)	If the connection of all the harnesses and connectors is normal, replace the hole punch control PC board (HP). If the error still occurs, replace the finisher control PC board (FIN).

8.3.15 Circuit related service call

[C5A0] EEPROM communication abnormality (LGC board)

Classification	Error content
Circuit related service call	EEPROM communication abnormality (LGC board)

Check item	Measure
EEPROM	Check if the EEPROM is installed properly.

Parts to be replaced	Remark
EEPROM	
LGC board	

[C940] Engine-CPU abnormality

Classification	Contents
Circuit related service call	Engine-CPU abnormality

Check Item	Measure
Main power switch	Turn OFF the main power switch, then back ON.
Engine-CPU and FROM	Check if the conductor pattern between the Engine-CPU and FROM is short circuited or open circuited.
LGC board	Board check

Replacement part	Measure
LGC board	

[F090] SRAM abnormality on the SYS board

Classification	Contents
Circuit related service call	SRAM abnormality on the SYS board

Check Item	Measure
	1. Turn the power OFF and start up the Setting Mode (08).
	2. When "SRAM REQUIRES INITIALIZATION" is displayed on the LCD, check the destination and then press the [START] button. If the destination is not correct, key in the correct one and then press the [START] button.
	3. After the confirmation message is displayed on the LCD, press the [INTERRUPT] button (to initialize the SRAM).
	4. Perform the panel calibration (08-9050).
	5. Perform the initialization after the software version upgrade (08-9030).
	6. Enter the serial number (08-9601). Be sure that the serial number is the same as that on the identification label attached on the rear cover of the equipment.
	7. Initialize the NIC information (08-9083).
	8. Turn the power OFF and then start up with the Adjustment mode (05).
	9. Perform "Data transfer of characteristic value of scanner" (05-3203).
	10. Turn the power OFF and then back ON. If the error is not recovered, replace the SRAM on the SYS board.

Replacement part	Remark
SRAM on the SYS board	

[F350] SLG board abnormality (e-STUDIO206L/256/306/356/456/506)

Classification	Contents
Circuit related service call	SLG board abnormality

Check Item	Measure
SLG board	Board check
Combination of the firmware version	• Check the combination of the firmware version of the system ROM, engine ROM, and scanner ROM. • Reinstall the scanner ROM firmware.

Replacement part	Remark
SLG board	

[F400] SYS/HDD cooling fan abnormality

Classification	Contents
Circuit related service call	SYS/HDD cooling fan abnormality

Check Item	Measure
SYS/HDD cooling fan	Check if the fan is rotating properly. If not, check if any foreign object is adhered.
SYS board	Check the connector (*1) and relay connector. *1: CN112: e-STUDIO206L/256/306/356/456/506 CN105: e-STUDIO207L/257/307/357/457/507

Replacement part	Remark
SYS board	
SYS/HDD cooling fan	

8.3.16 Communication related service call

[F070] Communication error between system CPU and main CPU

Classification	Error content
Communication related service call	Communication error between system CPU and main CPU

Check item	Measure
Check ROM version	Check the version of the system ROM on the SYS board.
	Check the version of the engine ROM version on the LGC board.
Board check	Check if the harness connecting the SYS board (*1) and LGC board (CN312) is disconnected or open circuited. *1: CN131: e-STUDIO206L/256/306/356/456/506 CN103: e-STUDIO207L/257/307/357/457/507

Parts to be replaced	Remark
SYS board.	
LGC board.	

[F110] Communication error between system CPU and scanner CPU
[F111] Scanner response abnormality

Classification	Error content
Communication related service call	Communication error between system CPU and scanner CPU Scanner response abnormality

e-STUDIO206L/256/306/356/456/506

Check item	Measure
Check ROM version	Check the version of the system ROM on the SYS board.
	Check the version of the scanner ROM version on the SLG board.
Board check	Check if the harness connecting the SYS board and SLG board is disconnected or open circuited.

e-STUDIO207L/257/307/357/457/507

Check item	Measure
Check ROM version	Check the version of the system ROM and the scanner ROM on the SYS board.
Board check	Check if the SYS board is damaged or abnormal.

Parts to be replaced	Remark
SYS board.	
SLG board.	

8.3.17　RADF related service call

No service call for the RADF.

8.3.18　Laser optical unit related service call

[CA10] Polygonal motor is abnormal

Classification	Error content
Laser optical unit related service call	Polygonal motor is abnormal

Proce dure	Check item	Result	Measure	Next Step
1	Is the polygonal motor rotating?	Yes	1. Check if the conductor pattern on the LGC board is short circuited or open circuited. 2. Replace the LGC board. 3. Replace the laser optical unit.	
		No	1. Check if the connector of the harness is disconnected between LGC board (CN314) and the laser optical unit. Reconnect it securely if so. Even if the connector is not apparently disconnected, it may be connected loosely. Therefore check carefully that it is secure. 2. Check if the harness is open circuited and the connector pin is disconnected. 3. Check if the conductor pattern on the LGC board is short circuited or open circuited. 4. Replace the laser optical unit. 5. Replace the LGC board.	

Parts to be replaced	Remark
LGC board	
Laser optical unit	

[CA20] H-Sync detection error

Proce dure	Check item	Result	Measure	Next Step
1	Are the harness open circuited and the connectors disconnected between the LGC board (CN313) and the laser optical unit?	Yes	1. Even if the connector is not apparently disconnected, it may be connected loosely. Therefore check carefully that it is secure.	
		No	1. Replace the LGC board. 2. Replace the laser optical unit	

Classification	Error content
Laser optical unit related service call	

Parts to be replaced	Remark
LGC board	
Laser optical unit	

8.3.19 Finisher related service call

[CB00] Finisher not connected
[CB01] Finisher communication error

Classification	Error content
Finisher related service call	Finisher not connected Finisher communication error

Check item	Measure
Setting of the equipment	• Check if the MJ-1101/1107, MJ-1106/1108, MJ-1032 or MJ-1033 is set as the specified finisher on the equipment (08-4548).
Finisher	• Check if the harness connecting the equipment and the finisher controller PC board is disconnected or open circuited. • Check if the conductor pattern on the finisher controller PC board is open circuited or short circuited. • Update the finisher firmware.
Converter	• Check if the connector connecting the converter board and the LGC board on the equipment is disconnected or open circuited. • Check if the conductor pattern on the converter PC board is open circuited or short circuited. • Update the converter firmware.

Parts to be replaced	Remark
Converter board	
Finisher control PC board	

[CB01] Finisher communication error
MJ-1033

Error	Timing of detection
Data communication error	The communication between the equipment and the Finisher is interrupted. This error is detected by the equipment.

[CB10] Entrance motor abnormality

Classification	Contents
Finisher related service call	Entrance motor abnormality: The entrance motor is not rotating normally.

MJ-1101/1107

Check Item	Measure
Entrance roller	If there is mechanical problem when the entrance roller is rotated, fix the mechanism.
Entrance motor (M1)	Check the connectors and harnesses between the entrance motor (M1) and the finisher control PC board (CN7).

Replacement part	Measure
Entrance motor (M1)	
Finisher controller PC board	

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MJ-1106/1108

Check Item	Measure
Feeding roller	Rotate the feeding roller. Fix any mechanical problem.
Entrance motor	Check if the connector (CN26) on the finisher controller PC board is disconnected from the entrance motor (M1) and the harnesses are open circuited. Correct if so.

Replacement part	Measure
Entrance motor	
Finisher control PC board	

[CB11] Buffer tray guide motor abnormality

* A [CB11] error occurs if the [ED16] error occurs three times in succession or the [ED16] error occurs during the initialization.

Classification	Contents
Finisher related service call	Buffer tray guide motor abnormality: The buffer tray guide motor is not rotating or the buffer tray guide is not moving normally.

MJ-1101/1107

Check Item	Measure
Buffer tray guide	If there is mechanical problem when the buffer tray guide is opened/closed while the buffer roller is lifted up, fix the mechanism.
Buffer tray guide motor (M3)	Check the connectors and harnesses between the buffer tray guide motor (M3) and the finisher control PC board (CN18).

Replacement part	Measure
Buffer tray guide motor (M3)	
Finisher controller PC board	

MJ-1106/1108

Check Item	Measure
Buffer tray guide	Raise the buffer roller and open/close the buffer tray guide. Fix any mechanical problem.
Buffer tray guide motor	Check if the connector (CN11) on the finisher controller PC board is disconnected from the buffer tray guide motor (M2) and the harnesses are open circuited. Correct if so.

Replacement part	Measure
Buffer tray guide motor	
Finisher controller PC board	

[CB12] Buffer roller drive motor abnormality

Classification	Contents
Finisher related service call	Buffer roller drive motor abnormality: The buffer roller drive motor is not rotating or the buffer roller is not moving normally.

MJ-1101/1107

Check Item	Measure
Buffer roller	If there is mechanical problem when the buffer roller is rotated, fix the mechanism.
Buffer roller drive motor (M6)	Check the connectors and harnesses between the buffer roller drive motor (M6) and the finisher control PC board (CN18).

Replacement part	Measure
Buffer roller drive motor (M6)	
Finisher controller PC board	

MJ-1106/1108

Check Item	Measure
Buffer roller	Rotate the buffer roller. Fix any mechanical problem.
Buffer roller drive motor	Check if the connector (CN11) on the finisher controller PC board is disconnected from the buffer roller drive motor (M4) and the harnesses are open circuited. Correct if so.

Replacement part	Measure
Buffer roller drive motor	
Finisher controller PC board	

[CB13] Finisher exit motor (M11) abnormality
MJ-1101/1107/MJ-1106/1108

Classification	Error item
Finisher related service call	

Check item	Measures
Exit roller	• Is there any mechanical problem when the exit roller is rotated?
Exit motor (M11).	• Motor check • Connector check • Harness check
Finisher control board	• Connector check (CN13) • Board check

Replace parts	Remarks
Exit motor	
Finisher control board	

[CB14] Paper pusher arm motor (M10) abnormality
MJ-1101/1107/MJ-1106/1108

Classification	Error item
Finisher related service call	

Check item	Measures
Paper pusher cam	• Is there any mechanical problem when the paper pusher cam is rotated?

Check item	Measures
Assist arm motor (M10)	• Motor check • Connector check • Harness check
Finisher control board	• Connector check (CN13) • Board check

Replace parts	Remarks
Assist arm motor	
Finisher control board	

[CB30] Movable tray shift motor abnormality
MJ-1101/1107

Classification	Contents
Finisher related service call	Movable tray shift motor abnormality: The movable tray shift motor is not rotating or the movable tray is not moving normally.

Check Item	Measure
Movable tray	If there is mechanical problem when the movable tray is moved, fix the mechanism.
Movable tray shift motor (M7)	Check the connectors and harnesses between the movable tray shift motor (M7) and the finisher control PC board (CN8).
Movable tray position A, B, and C sensors (S13, S14, and S15)	• Connector check • Sensor check

Replacement part	Measure
Movable tray shift motor (M7)	
Movable tray position A, B, and C sensors (S13, S14, and S15)	
Finisher controller PC board	

MJ-1106/1108

Check item	Measures
Movable tray	If there is mechanical problem when the movable tray is moved, fix the mechanism.
Movable tray shift motor (M12)	Check the connectors and harnesses between the movable tray shift motor (M12) and the finisher control PC board (CN16).
Movable tray position A, B, and C sensors (S13, S14, and S15)	• Connector check • Sensor check

Parts to be replaced	Remark
Movable tray shift motor (M7)	
Movable tray position A, B, and C sensors (S13, S14, and S15)	
Finisher controller PC board	

[CB30] Movable tray shift motor (M1) abnormality, Movable tray paper top detection error
MJ-1032

Movable tray shift motor (M1) Stack top detection solenoid (SOL1) Stack top detection sensor-1 (S1) Stack top detection sensor-2 (S2 Movable tray lower limit sensor (S14)	A locking signal is detected after the specified time *while the movable tray is moving. * A locking signal is not monitored from the start driving the motor until the specified time has passed.
	The stack top position of paper is not detected after the movable tray shift motor (M1) is driven in the specified time when the movable tray is moved up.
	The lower limit position of the stack top of paper is not detected after the movable tray shift motor (M1) has been driven in the specified time during the initial movement of the movable tray.
	The turning OFF of the movable tray lower limit sensor (S14) is not detected when the movable tray is moved from a point where this sensor is turned ON to one point where this sensor is turned OFF after the movable tray shift motor (M1) has been driven in the specified time.

Probable cause	Checking and measures
Movable tray shift motor (M1) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the motor
Movable tray lower limit sensor (S14) abnormality	Measure the voltage on TP17 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	Check if the electrical continuity among the connector terminals is normal. If electricity is not conducted, replace the connectors. (Finisher control PC board (FIN): CN4, CN10)
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the motor, sensors and connectors, exchange the finisher control PC board (FIN).
Stack top detection solenoid (SOL1) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the solenoid.
Stack top detection sensor-1 (S1) abnormality	Measure the voltage on TP11 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Stack top detection sensor-2 (S2) abnormality	Measure the voltage on TP20 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connector. (Finisher control PC board (FIN): CN3)
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the solenoid, sensors and connector, exchange the finisher control PC board (FIN).

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[CB30] Movable tray shift motor (M5) abnormality
MJ-1033

Error	Timing of detection
Movable tray shift motor Movable tray shift motor clock sensor	The status of the movable tray shift motor clock sensor (S15) is not changed for the specified time when the movable tray shift motor (M5) is driven.

Probable cause	Checking and measures
Movable tray shift motor (M5) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the motor.
Movable tray shift motor clock sensor (S15) abnormality	Measure the voltage on pin CN7.3 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Movable tray upper limit sensor (S16) abnormality	Measure the voltage on TP35 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Movable tray lower limit sensor (S17) abnormality	Measure the voltage on TP28 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Movable tray middle sensor (S18) abnormality	Measure the voltage on TP29 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	Check if the electrical continuity among the connector terminals is normal. If electricity is not conducted, replace the connectors. (Finisher control PC board (FIN): CN11, CN7, CN9, CN8)
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the motor, sensors and connectors, exchange the finisher control PC board (FIN).

[CB31] Movable tray paper-full detection error

Classification	Contents
Finisher related service call	Movable tray paper-full detection error: The actuator of the movable tray paper-full detection sensor does not move smoothly.

MJ-1101/1107

Check Item	Measure
Movable tray paper-full detection sensor (S16)	• If there is mechanical problem when the actuator is moved, fix the mechanism. • Sensor check • Check the connectors and harnesses between the movable tray paper-full detection sensor (S16) and the finisher control PC board (CN13).

Replacement part	Measure
Movable tray paper-full detection sensor (S16)	
Finisher controller PC board	

MJ-1106/1108

Check item	Measures
Movable tray paper-full sensor	Fix any mechanical problem occurring when the actuator is moved.
	Check if there is a disconnection of the connector, incorrect installation or breakage of the movable tray paper-full sensor (S16). If there is, reinstall the sensor correctly or replace it.
	Check if the connector (CN12) on the finisher controller PC board is disconnected from the movable tray paper-full sensor (S16) and the harnesses are open circuited. Correct if so.

Parts to be replaced	Remark
Movable tray paper-full sensor	
Finisher control PC board	

[CB31] Movable tray paper top detection error
MJ-1033

Error	Timing of detection
Movable tray shift motor Stack top holding/detecting sensor Paper holding home position sensor	The stack top holding/detecting sensor (S11) and the paper holding home position sensor (S12) do not detect the position of the top of the stack of paper in the specified time when the paper holding lever is moved to the paper detection position.

Probable cause	Checking and measures
Exiting paper holding solenoid (SOL1) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the solenoid.
Paper holding home position sensor (S12) abnormality	Measure the voltage on TP13 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Stack top holding/detecting sensor (S11) abnormality	Measure the voltage on TP71 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connector. (Finisher control PC board (FIN): CN3, CN4)
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the solenoid, sensors and connector, exchange the finisher control PC board (FIN).

[CB40] Front alignment motor abnormality
*   You receive a [CB40] error when the [ED13] error occurs three times in succession.

Classification	Contents
Finisher related service call	Front alignment motor abnormality: The front alignment motor is not rotating or the front alignment plate is not moving normally.

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MJ-1101/1107

Check Item	Measure
Front alignment plate	If there is mechanical problem when the front alignment plate is moved, fix the mechanism.
Front alignment motor (M9)	Check the connectors and harnesses between the front alignment motor (M9) and the finisher control PC board (CN10).

Replacement part	Measure
Front alignment motor (M9)	
Finisher controller PC board	

MJ-1106/1108

Check item	Measures
Front alignment plate	If there is mechanical problem when the front alignment plate is moved, fix the mechanism.
Front alignment motor (M5)	Check the connectors and harnesses between the front alignment motor (M5) and the finisher control PC board (CN10).

Parts to be replaced	Remark
Front alignment motor (M5)	
Finisher controller PC board	

MJ-1032

Error	Timing of detection
Rear alignment motor (M3) Rear alignment plate home position sensor (S6)	The turning OFF of the rear alignment plate home position sensor (S6) is not detected when the rear alignment plate is moved from a point where this sensor is turned ON to one point where this sensor is turned OFF after the rear alignment motor (M3) has been driven at the specified number of pulse.
	The turning ON of the rear alignment plate home position sensor (S6) is not detected when the rear alignment plate is moved from a point where this sensor is turned OFF to one point where this sensor is turned ON after the rear alignment motor (M3) has been driven at the specified number of pulse.

Probable cause	Checking and measures
Rear alignment motor (M3) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the motor.
Rear alignment plate home position sensor (S6) abnormality	Measure the voltage on TP16 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connectors. (Finisher control PC board (FIN): CN5, CN12)
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the motor, sensor and connectors, exchange the finisher control PC board (FIN).

[CB40] Rear alignment motor (M7) abnormality
MJ-1033

Error	Timing of detection
Rear alignment motor Rear aligning plate home position sensor	The turning OFF of the rear alignment plate home position sensor (S10) is not detected in the specified time when the rear alignment plate is moved from a point where this sensor is turned ON to one point where this sensor is turned OFF.
	The turning ON of the rear alignment plate home position sensor (S10) is not detected in the specified time when the rear alignment plate is moved from a point where this sensor is turned OFF to one point where this sensor is turned ON.

Probable cause	Checking and measures
Rear alignment motor (M7) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the motor.
Rear alignment plate home position sensor (S10) abnormality	Measure the voltage on pin CN9.9 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connectors. (Finisher control PC board (FIN): CN2, CN9)
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the motor, sensor and connectors, exchange the finisher control PC board (FIN)

[CB50] Stapler home position error
* You receive a [CB50] error when the [EA50] error occurs three times in succession.

Classification	Contents
Finisher related service call	Stapler home position error: The stapler home position sensor does not work.

MJ-1101/1107

Check Item	Measure
Stapler	• Check the connectors and harnesses between the stapler(M4) and finisher controller PC board (CN2). • Check the harnesses in the stapler.

Replacement part	Measure
Finisher controller PC board	

MJ-1106/1108

Check item	Measures
Stapler	• Check the connectors and harnesses between the stapler and finisher controller PC board (CN19). • Check the harnesses in the stapler.

Parts to be replaced	Remark
Stapler	
Finisher controller PC board	

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[CB50] Staple motor (M10) abnormality
MJ-1032

Error	Timing of detection
Stapler motor (M9) Staple unit clinching home position sensor (S16)	The staple unit clinching home position sensor (S16) does not detect the opening of the staple unit after the stapler motor (M9) has been driven reversely in the specified time from the closing during the initial movement of the staple unit.
	The staple unit clinching home position sensor (S16) does not detect the opening of the staple unit in the specified time from the closing during the clinching movement of the staple unit, and also this sensor does not detect the opening by the reverse rotation of the motor after the stapler is stopped.
	The staple unit clinching home position sensor (S16) does not detect the closing of the staple unit after the specified time during the clinching movement of the staple unit.
	The staple unit clinching home position sensor (S16) does not detect the opening of the staple unit at the start of the clinching.

Probable cause	Checking and measures
Staple motor (M10) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the staple unit.
Staple unit clinching home position sensor (S16) abnormality	Measure the voltage on CN16 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when the sensor is ON and within the range of 3.3V±5% when OFF. If the voltage does not fall within the range mentioned, replace the staple unit.
Staple unit improper clinching prevention sensor (S15) abnormality	Measure the voltage on TP25 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connectors. (Finisher control PC board (FIN): CN16, CN17)
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the motor, sensors, switch and connectors, exchange the finisher control PC board (FIN).

[CB50] Edge staple unit motor (M13) abnormality
MJ-1033

Error	Timing of detection
Staple unit sliding motor Edge staple unit improper clinching prevention sensor	The turning OFF of the edge staple unit improper clinching prevention sensor (S25) is not detected in the specified time when the edge staple unit is moved from a point where this sensor is turned ON to one point where this sensor is turned OFF.
	The turning ON of the edge staple unit improper clinching prevention sensor (S25) is not detected in the specified time when the edge staple unit is moved from a point where this sensor is turned OFF to one point where this sensor is turned ON.

Error	Timing of detection
Edge staple unit motor Edge staple unit clinching home position sensor	The turning OFF of the edge staple unit clinching home position sensor (S29) is not detected in the specified time when stapling is performed.
	The turning ON of the edge staple unit clinching home position sensor (S29) is not detected after the specified time has passed since the turning OFF of this sensor had been detected when stapling is performed, and also turning ON of this sensor is not detected in a reverse rotation after the stapler is stopped.

Probable cause	Checking and measures
Edge staple unit motor (M13) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the staple unit.
Edge staple unit clinching home position sensor (S29) abnormality	Measure the voltage on pin CN10.4 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when the sensor is ON and within the range of 5V±5% when OFF. If the voltage does not fall within the range mentioned, replace the staple unit.
Edge staple unit improper clinching prevention sensor (S25) abnormality	Measure the voltage on pin CN10.11 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Edge staple unit interference switch (SW3) abnormality	Measure the voltage on pin CN18.8 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when the switch is ON and within the range of 24V±10% when OFF. If the voltage does not fall within the range mentioned, replace the switch. (Be sure that all covers and doors are closed before starting measurement.)
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connectors. (Finisher control PC board (FIN): CN10, CN18, CN24)
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the motor, sensors, switch and connectors, exchange the finisher control PC board (FIN).

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[CB51] Stapler shift home position error

Classification	Contents
Finisher related service call	Stapler shift home position error: The stapler is not at the home position.

MJ-1101/1107

Check Item	Measure
Stapler	If there is mechanical problem when the stapler is moved, fix the mechanism.
Stapler unit home position sensor (S10)	• Sensor check • Check the connectors and harnesses between the stapler unit home position sensor (S10) and the finisher control PC board (CN1).
Stapler unit shift motor (M4)	Check the connectors and harnesses between the stapler unit shift motor (M4) and the finisher control PC board (CN5).

Replacement part	Measure
Stapler unit home position sensor (S10)	
Finisher controller PC board	

MJ-1106/1108

Check item	Measures
Stapler	Move the stapler. Fix any mechanical problem.
Stapler unit home position sensor	Check if there is a disconnection of the connector, incorrect installation or breakage of the stapler unit home position sensor (S10). If there is, reinstall the sensor correctly or replace it.
	Check if the connector (CN21) on the finisher controller PC board is disconnected from the stapler unit home position sensor (S10) and the harnesses are open circuited. Correct if so.
Stapler unit shift motor	Check if the connector (CN10) on the finisher controller PC board is disconnected from the stapler unit shift motor (M9) and the harnesses are open circuited. Correct if so.

Parts to be replaced	Remark
Stapler unit home position sensor	
Finisher controller PC board	

[CB51] Staple unit sliding motor (M7) abnormality
MJ-1032

Error	Timing of detection
Staple unit sliding motor (M7) Staple unit sliding home position sensor (S3)	The turning OFF of the staple unit sliding home position sensor (S3) is not detected when the staple unit is moved from a point where this sensor is turned ON to one point where this sensor is turned OFF after the staple unit sliding motor (M7) has been driven at the specified number of pulse.
	The turning ON of the staple unit sliding home position sensor (S3) is not detected when the staple unit is moved from a point where this sensor is turned OFF to one point where this sensor is turned ON after the staple unit sliding motor (M7) has been driven at the specified number of pulse.

Probable cause	Checking and measures
Staple unit sliding motor (M7) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the staple unit.
Staple unit sliding home position sensor (S3) abnormality	Measure the voltage on TP18 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of $3.3V\pm5\%$ when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connectors. (Finisher control PC board (FIN): CN3, CN18)
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the staple unit, sensors and connectors, exchange the finisher control PC board (FIN).

[CB51] Staple unit sliding motor (M11) abnormality

MJ-1033

Error	Timing of detection
Staple unit sliding motor Edge staple unit sliding home position sensor	The turning OFF of the edge staple unit sliding home position sensor (S14) is not detected in the specified time when the edge staple unit is moved from a point where this sensor is turned ON to one point where this sensor is turned OFF.
	The turning ON of the edge staple unit sliding home position sensor (S14) is not detected in the specified time when the edge staple unit is moved from a point where this sensor is turned OFF to one point where this sensor is turned ON.

Probable cause	Checking and measures
Staple unit sliding motor (M11) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the staple unit.
Edge staple unit sliding home position sensor (S14) abnormality	Measure the voltage on pin CN7.6 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Saddle stitch staple unit sliding home position sensor (S22) abnormality	Measure the voltage on pin CN7.10 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Edge staple unit improper clinching prevention sensor (S25) abnormality	Measure the voltage on pin CN10.11 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connectors. (Finisher control PC board (FIN): CN7, CN10, CN17)
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the staple unit, sensors and connectors, exchange the finisher control PC board (FIN).

[CB60] Stapler unit shift motor abnormality

Classification	Contents
Finisher related service call	Stapler shift motor abnormality: Stapler shift motor is not rotating or staple unit is not moving normally.

MJ-1101/1107

Check Item	Measure
Stapler	If there is mechanical problem when the stapler is moved, fix the mechanism.
Stapler unit shift motor (M4)	Check the connectors and harnesses between the stapler unit shift motor (M4) and the finisher control PC board (CN5).

Replacement part	Measure
Stapler unit shift motor (M4)	
Finisher controller PC board	

MJ-1106/1108

Check Item	Measure
Stapler	If there is mechanical problem when the stapler is moved, fix the mechanism.
Stapler unit shift motor (M9)	Check the connectors and harnesses between the stapler unit shift motor (M9) and the finisher control PC board (CN10).

Replacement part	Measure
Stapler unit shift motor (M4)	
Finisher controller PC board	

[CB80] Backup RAM data abnormality
MJ-1101/1107/MJ-1106/1108

Classification	Contents
Finisher related service call	Backup RAM data abnormality: Abnormality of checksum value on finisher controller PC board is detected when the power is turned ON.

Check Item	Measure
Main power switch	Turn OFF the main power switch, then back ON.

Replacement part	Measure
Finisher controller PC board	

[CB80] Finisher control PC board (FIN) backup RAM error
MJ-1032

	Timing of detection
EEPROM	Data readout check is performed after data writing and the result of the data readout check does not conform to the written data.
	The equipment does not enter the ready status after the specified time has passed from data writing.

Probable cause	
Finisher control PC board (FIN) abnormality	Replace the finisher control PC board (FIN) as the cause is a fault in the IC of the backup RAM.

MJ-1033

Error	Timing of detection
Back-up memory	Data readout check is performed after data writing and the result of the data readout check does not match with the written data.
	The equipment does not enter the ready status after the specified time has passed from data writing.

Probable cause	Checking and measures
Finisher control PC board (FIN) abnormality	Replace the finisher control PC board (FIN) as the cause is a fault in the IC of the backup RAM.

[CB80] Hole punch control PC board (HP) backup RAM error
MJ-6008

Error	Timing of detection
Back-up memory	Data readout checking is performed after data writing and the result of the data readout check do not match with the written data.
	The equipment does not enter the ready status after the specified time has passed from data writing.

Probable cause	Checking and measures
Hole punch control PC board (HP) abnormality	If the behavior in the hole punch RAM check mode is not normal, replace the hole punch control PC board (HP).

[CB81] Flash ROM abnormality
MJ-1101/1107/MJ-1106/1108

Classification	Contents
Finisher related service call	Flash ROM abnormality: Abnormality of checksum value on finisher controller PC board is detected when the power is turned ON.

Check Item	Measure
Main power switch	Turn OFF the main power switch, then back ON.
Finisher controller PC board	Board check

Replacement part	Measure
Finisher controller PC board	

[CB81] Flash ROM abnormality
MJ-1101/1107/MJ-1106/1108

Classification	Contents
Finisher related service call	Flash ROM abnormality: Abnormality of checksum value on finisher controller PC board is detected when the power is turned ON.

Check Item	Measure
Main power switch	Turn OFF the main power switch, then back ON.
Finisher controller PC board	Board check

Replacement part	Measure
Finisher controller PC board	

[CB82] Finisher main program error
MJ-1106/1108

Classification	Error item
Finisher related service call	Finisher - Main CPU program error

Check item	Measures
Finisher control board	Update the firmware version of the finisher control PC board (FIN).

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Replace parts	Remarks
Finisher control board	

[CB83] Saddle main program error
MJ-1106/1108

Classification	Error item
Finisher related service call	Saddle Stitch Finisher - Main CPU program error

Check item	Measures
Saddle control PC board	• Update the firmware version of the saddle control PC board (SDL). • Connector check • Board check

Replace parts	Remarks
Saddle control PC board	

[CB84] Punch unit main program error

Classification	Error item
Finisher related service call	Hole Punch Unit - Main CPU program error

Check item	Measures
Hole punch control PC board (HP)	• Is the firmware version of the PNC board (HP) latest? • Connector check • Board check

Replace parts	Remarks
Hole punch control PC board	

[CB90] Paper folding blade motor (M12) abnormality
MJ-1033

Error	Timing of detection
Paper folding blade motor Paper folding blade home position sensor	The turning OFF of the paper folding blade home position sensor (S19) is not detected in the specified time when the paper folding blade is pushing while this sensor is ON.
	Turning ON of the paper folding blade home position sensor (S19) is not detected in the specified time when the paper folding blade is returned to its home position while this sensor is OFF.
Paper folding blade motor Paper folding blade motor clock sensor	The status of the paper folding blade motor clock sensor (S24) is not changed for the specified time when the paper folding blade motor (M12) is driven.

Probable cause	Checking and measures
Paper folding blade motor (M12) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the motor.

Probable cause	Checking and measures
Paper folding blade motor clock sensor (S24) abnormality	Measure the voltage on TP66 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Paper folding blade home position sensor (S19) abnormality	Measure the voltage on TP64 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connectors. (Finisher control PC board (FIN): CN11, CN15)
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the motor, sensors and connectors, exchange the finisher control PC board (FIN).

[CB91] Saddle flash ROM abnormality
MJ-1106/1108

Classification	Error item
Finisher related service call	Saddle Stitch Finisher flash ROM abnormality

Check item	Measures
Reboot	• Is the error recovered when the power of the equipment is turned OFF and then back ON?
Saddle controller PC board (SDL)	• Check if the conductor pattern on the saddle controller PC board (SDL) is open circuited or short circuited.

Replace parts	Remarks
Saddle controller PC board	

[CB92] Saddle Stitch Finisher RAM abnormality
MJ-1106/1108

Classification	Error item
Finisher related service call	Saddle Stitch Finisher RAM abnormality

Check item	Measures
Reboot	• Is the error recovered when the power of the equipment is turned OFF and then back ON?

Replace parts	Remarks
Saddle controller PC board	

[CB93] Saddle Stitch Finisher additional folding motor abnormality
MJ-1106/1108

Classification	Error item
Finisher related service call	The [CB93] error also occurs when the error [EF18] has occurred consecutively for 3 times.

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Check item	Measures
Additional folding carrier	• Is there any mechanical problem when the additional folding carrier is moved? • Connector check • Harness check
Additional folding motor (M20)	• Motor check • Connector check • Harness check
Saddle control PC board (SDL)	• Connector check (CN18) • Board check

Replace parts	Remarks
Additional folding motor	
Saddle control PC board	

[CB94] Saddle transport motor abnormality
MJ-1106/1108

Classification	Error item
Finisher related service call	The [CB94] error also occurs when the error [EAB0] or [EF13] has occurred consecutively for 3 times.

Check item	Measures
Transport roller	• Is there any mechanical problem when the transport rollers are rotated?
Saddle transport motor (M16)	• Motor check • Connector check • Harness check
Saddle control PC board (SDL)	• Connector check (CN18) • Board check

Replace parts	Remarks
Saddle transport motor	
Saddle control PC board	

[CB95] Saddle Stitch Finisher stacker motor abnormality
MJ-1106/1108

Classification	Error item
Finisher related service call	The [CB95] error also occurs when the error [EF16] has occurred consecutively for 3 times.

Check item	Measures
Stacker carrier	• Is there any mechanical problem when the stacker carrier is moved?
Stacker motor (M14)	• Motor check • Connector check • Harness check
Saddle control PC board (SDL)	• Connector check (CN4) • Board check

Replace parts	Remarks
Stacker motor	

Replace parts	Remarks
Saddle control PC board	

[CBA0] Front saddle stapler home position error
MJ-1106/1108

Classification	Error item
Finisher related service call	The stapler home position detection is abnormally operated and finished

Check item	Measures
Front saddle stapler clinch unit	Harness check
Saddle control PC board (SDL)	• Connector check (CN6) • Board check

Replace parts	Remarks
Front saddle stapler clinch unit	
Saddle control PC board	

[CBB0]Rear saddle stapler home position error
MJ-1106/1108

Classification	Error item
Finisher related service call	

Check item	Measures
Rear saddle stapler clinch unit	Harness check
Saddle control PC board (SDL)	• Connector check (CN7) • Board check

Replace parts	Remarks
Rear saddle stapler clinch unit	
Saddle control PC board	

[CBC0] Saddle Stitch Finisher side alignment motor (M15) abnormality
MJ-1106/1108
*   You receive a [CBC0] error when the [EF15] error occurs three times in succession.

Classification	Contents
Finisher related service call	

Check Item	Measure
Saddle Unit	If there is mechanical problem when the jog is moved, fix the mechanism.
Side alignment motor (M15)	Harness check
Saddle control PC board (SDL)	• Connector check (CN7) • Board check

Replacement part	Measure
Side alignment motor (M15)	

Replacement part	Measure
Saddle control PC board (SDL)	

[CBC0] Saddle stitch alignment motor (M8) abnormality
MJ-1033

Error	Timing of detection
Saddle stitch alignment motor Saddle stitch alignment plate home position sensor	The turning OFF of the saddle stitch alignment plate home position sensor (S20) is not detected in the specified time when the saddle stitch alignment plate is moved from a point where this sensor is turned ON to one point where this sensor is turned OFF.
	The turning ON of the saddle stitch alignment plate home position sensor (S20) is not detected in the specified time when the saddle stitch alignment plate is moved from a point where this sensor is turned OFF to one point where this sensor is turned ON.

Probable cause	Checking and measures
Saddle stitch alignment motor (M8) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the motor.
Saddle stitch alignment plate home position sensor (S20) abnormality	Measure the voltage on pin CN16.12 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of $3.3V \pm 5\%$ when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connectors. (Finisher control PC board (FIN): CN6, CN16)
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the motor, sensor and connectors, exchange the finisher control PC board (FIN).

[CBE0] Saddle Stitch Finisher folding motor (M17) abnormality
MJ-1106/1108
*   You receive a [CBE0] error when the [EF17] error occurs three times in succession.

Classification	Contents
Finisher related service call	An encoder pulse interruption error or rotation abnormality occurs in the saddle stitch finisher folding motor.

Check Item	Measure
Folding motor encoder sensor (S34)	• Sensor check (S34) • Connector check • Harness check
Side alignment motor (M15)	Harness check
Saddle control PC board (SDL)	• Connector check (CN11, CN14) • Board check

Replacement part	Measure
Folding motor encoder sensor (S34)	
Side alignment motor (M15)	
Saddle control PC board (SDL)	

[CBF0] Stacker motor (M9) abnormality
MJ-1033

Error	Timing of detection
Stacker motor Stacker home position sensor	The turning OFF of the stacker home position sensor (S21) is not detected in the specified time when the stacker is moved from a point where this sensor is turned ON to one point where this sensor is turned OFF.
	The turning ON of the stacker home position sensor (S21) is not detected in the specified time when the stacker is moved from a point where this sensor is turned OFF to one point where this sensor is turned ON.

Probable cause	Checking and measures
Stacker motor (M9) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the motor.
Stacker home position sensor (S21) abnormality	Measure the voltage on pin CN16.15 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connectors. (Finisher control PC board (FIN): CN6, CN16)
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the motor, sensor and connectors, exchange the finisher control PC board (FIN).

[CC02] Stack exit roller nip home position detection error
MJ-1032

Replacement part	Measure
Stack exit roller shift motor (M6) Stack exit roller home position sensor (S13)	The stack exit roller home position sensor (S13) does not detect that the exit roller is not at the upper position after the stack exit roller motor (M6) has been driven in the specified time when the exit roller is moved down.
	The stack exit roller home position sensor (S13) does not detect that the exit roller is at the upper position after the stack exit roller shift motor (M6) has been driven in the specified time when the exit roller is moved up.

[CC02] Exit roller nip adjustment motor (M4) abnormality
MJ-1033

Error	Timing of detection
Exit roller nip adjustment motor Exit roller nip home position sensor	The exit roller nip home position sensor (S8) does not become OFF from ON in the specified time when the status in which the exit roller nip is large or small is changed to one in which the exit roller or the middle transport roller is released.
	The exit roller nip home position sensor (S8) does not become ON from OFF in the specified time when the status in which the exit roller or the middle transport roller is released is changed to one in which the exit roller nip is large or small.

Probable cause	Checking and measures
Exit roller nip adjustment motor (M4) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the motor.

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Probable cause	Checking and measures
Exit roller nip home position sensor (S8) abnormality	Measure the voltage on TP31 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connectors. (Finisher control PC board (FIN): CN2, CN9)
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the motor, sensor and connectors, exchange the finisher control PC board (FIN).

[CC20] Saddle communication error
MJ-1106/1108

Classification	Contents
Finisher related service call	Saddle communication error

Check Item	Measure
Interface PC board (I/F)	• Connector check • Harness check
Finisher control PC board (FIN)	• Connector check • Harness check
Saddle control PC board (SDL)	• Connector check • Harness check
Interface PC board (I/F)	Board check
Finisher control PC board (FIN)	Board check
Saddle control PC board (SDL)	Board check
Finisher control PC board (FIN)	Update the firmware version of the finisher control PC board (FIN).
Saddle control PC board (SDL)	Update the firmware version of the saddle control PC board (SDL).

Replacement part	Measure
Interface PC board (I/F)	
Finisher control PC board (FIN)	
Saddle control PC board (SDL)	

[CC21] Saddle stitch 3rd transport roller drive motor (M10) abnormality
MJ-1033

Error	Timing of detection
Saddle stitch 3rd transport roller drive motor Saddle stitch 3rd transport roller home position sensor	The turning OFF of the saddle stitch 3rd transport roller home position sensor (S23) is not detected in the specified time when the saddle stitch 3rd transport roller is nipped or performing paper transport.
	The turning ON of the saddle stitch 3rd transport roller home position sensor (S23) is not detected in the specified time when the saddle stitch 3rd transport roller is released.

Probable cause	Checking and measures
Saddle stitch 3rd transport roller drive motor (M10) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the motor.

Probable cause	Checking and measures
Saddle stitch 3rd transport roller home position sensor (S23) abnormality	Measure the voltage on TP67 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connectors. (Finisher control PC board (FIN): CN6, CN16)
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the motor, sensor and connectors, exchange the finisher control PC board (FIN).

[CC22] Saddle stitch stapler home position detection error
MJ-1033

Error	Timing of detection
Saddle stitch stapler motor Saddle stitch staple unit clinching home position sensor	The turning OFF of the saddle stitch staple unit clinching home position sensor (S32) is not detected in the specified time when saddle stitch stapling is performed.
	The turning ON of the saddle stitch staple unit clinching home position sensor (S32) is not detected in the specified time after the turning OFF of this sensor had been detected when saddle stitch stapling is performed, and also the turning ON of this sensor is not detected in a reverse rotation after the saddle stitch stapler is stopped.

Probable cause	Checking and measures
Saddle stitch stapler motor (M14) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the saddle stitch staple unit.
Saddle stitch staple unit clinching home position sensor (S32) abnormality	Measure the voltage on pin CN17.5 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when the sensor is ON and within the range of 5V±5% when OFF. If the voltage does not fall within the range mentioned, replace the saddle stitch staple unit.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the saddle stitch staple unit.
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the saddle stitch staple unit and the connectors, exchange the finisher control PC board (FIN).
Saddle stitch staple empty sensor (S33) abnormality	Measure the voltage on pin CN17.7 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when the sensor is ON and within the range of 5V±5% when OFF. If the voltage does not fall within the range mentioned, replace the saddle stitch staple unit.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the saddle stitch staple unit.
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the saddle stitch staple unit and the connector, exchange the finisher control PC board (FIN).

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[CC30] Stack transport motor abnormality

* You receive a [CC30] error when the [EA70] error occurs three times in succession.

Classification	Contents
Finisher related service call	Stack transport motor abnormality: The stack transport motor is not rotating or the stack transport belt is not moving normally.

MJ-1101/1107

Check Item	Measure
Stack transport belt	If there is mechanical problem when the stack transport belt is moved, fix the mechanism.
Stack transport motor (M5)	Check the connectors and harnesses between the stack transport motor (M5) and the finisher control PC board (CN10).

Replacement part	Measure
Stack transport motor (M5)	
Finisher controller PC board	

MJ-1106/1108

Check item	Measures
Stack transport belt	Move the stack transport belt. Fix any mechanical problem.
Stack transport motor	Check if the connector (CN17) on the finisher controller PC board is disconnected from the stack transport motor (M8) and the harnesses are open circuited. Correct if so.

Parts to be replaced	Remark
Stack transport motor	
Finisher control PC board	

[CC31] Transport motor abnormality

* You receive a [CC31] error when the [ED12] error occurs three times in succession.

Classification	Contents
Finisher related service call	Transport motor abnormality: The transport motor is not rotating or the stack transport roller -1 and -2 is not rotating normally.

MJ-1101/1107

Check Item	Measure
Stack transport roller	If there is mechanical problem when the stack transport roller -1 and -2 are rotated, fix the mechanism.
Transport motor (M2)	Check the connectors and harnesses between the transport motor (M2) and the finisher control PC board (CN5).

Replacement part	Measure
Transport motor (M2)	
Finisher controller PC board	

MJ-1106/1108

Check item	Measures
Stack transport roller -1 Stack transport roller -2	Rotate the stack transport roller -1 and -2. Fix any mechanical problem.
Transport motor	Check if the connector (CN10) on the finisher controller PC board is disconnected from the transport motor (M7) and the harnesses are open circuited. Correct if so.

Parts to be replaced	Remark
Transport motor	
Finisher control PC board	

[CC41] Paper holder cam home position abnormality

Classification	Contents
Finisher related service call	Paper holder cam home position abnormality: The paper holder cam is not at the home position.

MJ-1101/1107

Check Item	Measure
Paper holder cam	If there is mechanical problem when the paper holder cam is rotated, fix the mechanism.
Paper holder home position sensor (S6)	Check the connectors and harnesses between the paper holder home position sensor (S6) and the finisher control PC board (CN17).

Replacement part	Measure
Paper holder home position sensor (S6)	
Finisher controller PC board	

MJ-1106/1108

Check item	Measures
Paper pusher cam	Rotate the paper pusher cam. Fix any mechanical problem.
Paper holder home position sensor	Check if the connector (CN9) on the finisher controller PC board is disconnected from the paper holder home position sensor (S6) and the harnesses are open circuited. Correct if so.

Parts to be replaced	Remark
Paper holder home position sensor	
Finisher control PC board	

[CC51] Sideways adjustment motor (M2) abnormality
MJ-1101/1106 (when MJ-6103 is installed), MJ-1107/1108 (when MJ-6104 is installed)
* You receive a [CC51] error when the [ED11] error occurs three times in succession or occurs during the initialization.

Classification	Contents
Finisher related service call	Sideways adjustment motor (M2) abnormality: Sideways adjustment motor is not rotating or puncher is not shifting normally.

Check Item	Measure
Transport path	If there is any paper remaining on the transport path, remove the paper.
Sideways adjustment motor (M2)	• If there is mechanical problem when the sideways adjustment motor (M2) is rotated, fix the mechanism. • Check the connectors and harnesses between the hole punch control PC board (HP) and sideways adjustment motor (M2).
Sideways deviation home position sensor (S3)	• Sensor check • Harness check

Replacement part	Measure
Sideways adjustment motor (M2)	
Hole punch control PC board (HP)	
Sideways deviation home position sensor (S3)	

[CC51] Punch unit sliding motor (M12) abnormality
MJ-1032

Error	Timing of detection
Punch unit sliding motor (M12) Punch sliding unit home position sensor (S23)	The punch sliding unit is not slid after sliding request is sent.
	The punch sliding unit home position sensor (S23) does not detect that the unit is at its home position after the specified time when the unit is returned to the home position, or this sensor does not detect that the unit is out of its home position after the specified time when the unit is released.
	The punch sliding unit home position sensor (S23) does not detect that the unit is at its home position after the specified time when the unit is moved, or this sensor does not detect that the unit is at its home position when the unit is released.

Probable cause	Checking and measures
Punch unit sliding motor (M12) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the motor.
Punch sliding unit home position sensor (S23) abnormality	Measure the voltage on TP26 on the hole punch control PC board (HP). Then check that the measured voltage is 1V or lower when not shielded and within the range of 5V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connector. (Hole punch control PC board (HP): CN3, CN5, CN6)
Hole punch control PC board (HP) abnormality	If the error still occurs after replacing the motor, sensor and connectors, exchange the hole punch control PC board (HP).

[CC51] Punch unit sliding motor (M16) abnormality

MJ-1033

Error	Timing of detection
Punch unit sliding motor Punch sliding unit home position sensor	The turning OFF of the punch sliding unit home position sensor (S37) is not detected when the punch unit sliding motor (M16) is driven for the specified distance while this sensor is ON.
	The turning ON of the punch sliding unit home position sensor (S37) is not detected when the punch unit sliding motor (M16) is driven for the specified distance in the same direction as the ON direction of this sensor while returning to its home position

Probable cause	Checking and measures
Punch unit sliding motor (M16) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the motor.
Punch sliding unit home position sensor (S38) abnormality	Measure the voltage on pin CN5.3 on the hole punch control PC board (HP). Then check that the measured voltage is 1V or lower when not shielded and within the range of 5V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connector. (Hole punch control PC board (HP): CN5, CN7)
Hole punch control PC board (HP) abnormality	If the error still occurs after replacing the motor, sensor and connectors, exchange the hole punch control PC board (HP).

[CC52] Skew adjustment motor (M1) abnormality

MJ-1101/1106 (when MJ-6103 is installed), MJ-1107/1108 (when MJ-6104 is installed)

*   The [CC52] error occurs when the [ED10] error occurs three times in succession or during the initial operation.

Classification	Contents
Finisher related service call	Skew adjustment motor (M1) abnormality: Skew adjustment motor is not rotating or puncher is not shifting normally.

Check Item	Measure
Transport path	If there is any paper remaining on the transport path, remove the paper.
Skew adjustment motor (M1)	• If there is mechanical problem when the skew adjustment motor (M1) is rotated, fix the mechanism. • Check the connectors and harnesses between the hole punch control PC board (HP) and skew adjustment motor (M1).
Skew home position sensor (S2)	• Sensor check • Harness check

Replacement part	Measure
Skew home position sensor (S2)	
Skew adjustment motor (M1)	
Hole punch control PC board (HP)	

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[CC53] Punch waste full sensors (S41 and S42) abnormality
MJ-1033

Error	Timing of detection
Punch waste full sensor	After the sensor output adjustment, the input value is lower than 1.2V against the output value of 2.8V, or the input value is higher than 1.5V against the output value of 0.1V.

Probable cause	Checking and measures
Punch waste full sensors (S41 and S42) abnormality	Measure the voltage on TP49 on the hole punch control PC board (HP). Then check that the measured voltage is 1V or lower when not shielded and 2.5V or higher when shielded. If the voltage does not fall within the range mentioned, replace a couple of PC boards on either the light-receiving side or the light-emitting side.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connector. (Hole punch control PC board (HP): CN5)
Hole punch control PC board (HP) abnormality	If the error still occurs after replacing the sensors and the connectors, exchange the hole punch control PC board (HP).

[CC54] Abnormality of paper detection sensors (S24 and S25)
MJ-1032

Error	Timing of detection
Paper detection sensor (S24/S25) adjustment error	The adjustment of the paper detection sensors (S24 and S25) has been failed.

Probable cause	Checking and measures
Paper detection sensors (S24 and S25) abnormality	Measure the voltage on pin CN6.8 on the hole punch control PC board (HP). Then check that the measured voltage is 3.0V or higher when not shielded and 1.2V or lower when shielded. If the voltage does not fall within the range mentioned, replace a couple of PC boards on either the light-receiving side or the light-emitting side.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connector. (Hole punch control PC board (HP): CN4, CN6)
Hole punch control PC board (HP) abnormality	If the error still occurs after replacing the sensors and the connectors, exchange the hole punch control PC board (HP).

[CC54] Abnormality of trailing edge detection sensors (S39 and S40) and horizontal registration detection sensors (S39 and S40)
MJ-1033

Error	Timing of detection
Trailing edge detection sensor Horizontal registration detection sensor	After the sensor output adjustment, the input value is lower than 3.2V against the output value of 2.8V, or the input value is higher than 3.5V against the output value of 0.1V.

Probable cause	Checking and measures
Trailing edge detection sensors (S39 and S40) abnormality	Measure the voltage on TP48 on the hole punch control PC board (HP). Then check that the measured voltage is 2.5V or higher when not shielded and 1V or lower when shielded. If the voltage does not fall within the range mentioned, replace a couple of PC boards on either the light-receiving side or the light-emitting side.
Horizontal registration detection sensors (S39 and S40) abnormality (B5-R/ST-R)	Measure the voltage on TP47 on the hole punch control PC board (HP). Then check that the measured voltage is 2.5V or higher when not shielded and 1V or lower when shielded. If the voltage does not fall within the range mentioned, replace a couple of PC boards on either the light-receiving side or the light-emitting side.
Horizontal registration detection sensors (S39 and S40) abnormality (A4-R/LT-R)	Measure the voltage on TP46 on the hole punch control PC board (HP). Then check that the measured voltage is 2.5V or higher when not shielded and 1V or lower when shielded. If the voltage does not fall within the range mentioned, replace a couple of PC boards on either the light-receiving side or the light-emitting side.
Horizontal registration detection sensors (S39 and S40) abnormality (B4/LG)	Measure the voltage on TP45 on the hole punch control PC board (HP). Then check that the measured voltage is 2.5V or higher when not shielded and 1V or lower when shielded. If the voltage does not fall within the range mentioned, replace a couple of PC boards on either the light-receiving side or the light-emitting side.
Horizontal registration detection sensors (S39 and S40) abnormality (A3/LD)	Measure the voltage on TP44 on the hole punch control PC board (HP). Then check that the measured voltage is 2.5V or higher when not shielded and 1V or lower when shielded. If the voltage does not fall within the range mentioned, replace a couple of PC boards on either the light-receiving side or the light-emitting side.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connector. (Hole punch control PC board (HP): CN4)
Hole punch control PC board (HP) abnormality	If the error still occurs after replacing the sensors and the connectors, exchange the hole punch control PC board (HP).

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[CC60, CC61] Punch motor abnormality
MJ-1032

Error	Timing of detection
Punch motor (M11) Paper detection sensor (S24/S25) Punch shaft home position sensor (S26) Rear punch shaft home position sensor (S22)	The paper detection sensors (S24 and S25) do not emit light after specified time when they are selected
	The level of the light-receiving amount is not lowered after the light-emitting amount of the paper detection sensors (S24 and S25) is adjusted to the lower limit.
	Punching is not performed after punching request is sent, or the punching request is sent during the punching.
	The status of the punch shaft home position sensor (S26) or the rear punch shaft home position sensor (S22) is not changed after punching request is sent.
	A punching locking signal is detected consistently over the specified time.
	The punch shaft home position sensor (S26) or the rear punch shaft home position sensor (S22) does not detect that the shaft is not at its home position at the start of punching or punch waste full detection.

Probable cause	Checking and measures
Punch motor (M11) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the motor.
Rear punch shaft home position sensor (S22) abnormality	Measure the voltage on TP25 on the hole punch control PC board (HP). Then check that the measured voltage is 1V or lower when not shielded and within the range of 5V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Punch shaft home position sensor (S26) abnormality	Measure the voltage on TP24 on the hole punch control PC board (HP). Then check that the measured voltage is 1V or lower when not shielded and within the range of 5V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Punch motor clock sensor (S20) abnormality	Measure the voltage on TP27 on the hole punch control PC board (HP). Then check that the measured voltage is 1V or lower when not shielded and within the range of 5V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connector. (Hole punch control PC board (HP): CN2, CN5, CN6)
Hole punch control PC board (HP) abnormality	If the error still occurs after replacing the motor, sensors and connectors, exchange the hole punch control PC board (HP).

[CC60] Punch motor (M15) abnormality
MJ-1033

Error	Timing of detection
Punch motor Punch shaft home position sensor Punch motor clock sensor	The status of the punch motor clock sensor (S36) is not changed for the specified time when the punch motor (M15) is driven.
	The number of input pulses of the punch motor clock sensor (S36) does not fall within the range from 70 to 100 in the OFF period of the punch shaft home position sensor (S35), or is larger than 30 in the ON period of the punch shaft home position sensor (S35).

Probable cause	Checking and measures
Punch motor (M15) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the motor.
Punch shaft home position sensor (S36) abnormality	Measure the voltage on pin CN3.3 on the hole punch control PC board (HP). Then check that the measured voltage is 1V or lower when not shielded and within the range of 5V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Punch shaft rotational direction sensor (S35) abnormality	Measure the voltage on pin CN3.9 on the hole punch control PC board (HP). Then check that the measured voltage is 1V or lower when not shielded and within the range of 5V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Punch motor clock sensor (S37) abnormality	Measure the voltage on pin CN3.6 on the hole punch control PC board (HP). Then check that the measured voltage is 1V or lower when not shielded and within the range of 5V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connector. (Hole punch control PC board (HP): CN3, CN6)
Hole punch control PC board (HP) abnormality	If the error still occurs after replacing the motor, sensors and connectors, exchange the hole punch control PC board (HP).

[CC61] Punch motor (M3) home position detection error
MJ-1101/1106 (When MJ-6103 is installed), MJ-1107/1108 (When MJ-6104 is installed)
* The [CC61] error occurs when the [E9F0] error occurs three times in succession or during the initial operation.

Classification	Contents
Finisher related service call	Punch motor (M3) home position detection error: Punch motor is not rotating or puncher is not shifting normally.

Check Item	Measure
Transport path	If there is any paper remaining on the transport path, remove the paper.
Punch motor (M3)	• If there is mechanical problem when the punch motor (M3) is rotated, fix the mechanism. • Check the connectors and harnesses between the hole punch control PC board (HP) and punch motor (M3).
Punch home position sensor (S4)	• Sensor check • Harness check

Replacement part	Measure
Punch home position sensor (S4)	
Punch motor (M3)	
Hole punch control PC board (HP)	

[CC71] Punch ROM checksum error
MJ-1101/1106 (When MJ-6103 is installed), MJ-1107/1108 (When MJ-6104 is installed)

Classification	Contents
Finisher related service call	Punch ROM checksum error: Abnormality of checksum value on Hole punch controller PC board is detected when the power is turned on.

Check Item	Measure
Hole punch control PC board (HP)	Board check

Replacement part	Measure
Hole punch control PC board (HP)	

MJ-1033

Error	Timing of detection
Flash ROM	A checksum error occurs on the flash ROM of the Hole Punch Unit. The main program of the Hole Punch Unit is damaged.

[CC72] Punch RAM read/write error
MJ-1101/1106 (When MJ-6103 is installed), MJ-1107/1108 (When MJ-6104 is installed)

Classification	Contents
Finisher related service call	Punch RAM read/write error: Abnormality of checksum value on Hole punch controller PC board is detected when the power is turned on.

Check Item	Measure
Hole punch control PC board (HP)	Board check

Replacement part	Measure
Hole punch control PC board (HP)	

[CC80] Rear alignment motor abnormality
*   You receive a [CC80] error when the [ED14] error occurs three times in succession.

Classification	Contents
Finisher related service call	Rear alignment motor abnormality: The rear alignment motor is not rotating or the rear alignment plate is not moving normally.

MJ-1101/1107

Check Item	Measure
Rear alignment plate	If there is mechanical problem when the rear alignment plate is moved, fix the mechanism.

Check Item	Measure
Rear alignment motor (M10)	Check the connectors and harnesses between the rear alignment motor (M10) and the finisher control PC board (CN10).

Replacement part	Measure
Rear alignment motor (M10)	
Finisher control PC board	

MJ-1106/1108

Check Item	Measure
Rear alignment plate	If there is mechanical problem when the rear alignment plate is moved, fix the mechanism.
Rear alignment motor (M6)	Check the connectors and harnesses between the rear alignment motor (M6) and the finisher control PC board (CN17).

Replacement part	Measure
Rear alignment motor (M6)	
Finisher control PC board	

[CC80] Front alignment motor (M2) abnormality
MJ-1032

Error	Timing of detection
Front alignment motor (M2) Front alignment plate home position sensor (S5)	The turning OFF of the front alignment plate home position sensor (S5) is not detected when the front alignment plate is moved from a point where this sensor is turned ON to one point where this sensor is turned OFF after the front alignment motor (M2) has been driven at the specified number of pulse.
	The turning ON of the front alignment plate home position sensor (S5) is not detected when the front alignment plate is moved from a point where this sensor is turned OFF to one point where this sensor is turned ON after the front alignment motor (M2) has been driven at the specified number of pulse.

Probable cause	Checking and measures
Front alignment motor (M2) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the motor.
Front alignment plate home position sensor (S5) abnormality	Measure the voltage on TP15 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of $3.3V \pm 5\%$ when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connectors. (Finisher control PC board (FIN): CN5, CN12)
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the motor, sensor and connectors, exchange the finisher control PC board (FIN).

[CC80] Front alignment motor (M6) abnormality
MJ-1033

Error	Timing of detection
Front alignment motor Front aligning plate home position sensor	The turning OFF of the front alignment plate home position sensor (S9) is not detected in the specified time when the front alignment plate is moved from a point where this sensor is turned ON to one point where this sensor is turned OFF.
	The turning ON of the front alignment plate home position sensor (S9) is not detected in the specified time when the front alignment plate is moved from a point where this sensor is turned OFF to one point where this sensor is turned ON

Probable cause	Checking and measures
Front alignment motor (M6) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the motor.
Front alignment plate home position sensor (S9) abnormality	Measure the voltage on pin CN8.3 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Faulty cables and connectors	Check if the electrical continuity between the connector terminals is normal. If electricity is not conducted, replace the connectors. (Finisher control PC board (FIN): CN2, CN8)
Finisher control PC board (FIN) abnormality	If the error still occurs after replacing the motor, sensor and connectors, exchange the finisher control PC board (FIN).

[CC91] Gripper arm home position detection error
[CC92] Movable tray upper limit detection error
MJ-1033

Error	Timing of detection
Movable tray shift motor Movable tray upper limit sensor	The turning ON of the movable tray upper limit sensor (S16) is detected.

Probable cause	Checking and measures
Movable tray shift motor (M5) abnormality	Check if the electrical continuity of the coil is normal. If electricity is not conducted, replace the motor.
Movable tray shift motor clock sensor (S15) abnormality	Measure the voltage on pin CN7.3 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Movable tray upper limit sensor (S16) abnormality	Measure the voltage on TP35 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Movable tray lower limit sensor (S17) abnormality	Measure the voltage on TP28 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.
Movable tray middle sensor (S18) abnormality	Measure the voltage on TP29 on the finisher control PC board (FIN). Then check that the measured voltage is 1V or lower when not shielded and within the range of 3.3V±5% when shielded. If the voltage does not fall within the range mentioned, replace the sensor.

[CC93] Knurled roller shift solenoid abnormality

MJ-1032

Error	Timing of detection
Knurled roller shift solenoid (SOL3) 2nd transport motor (M4) Knurled roller home position sensor (S10)	The knurled roller home position sensor (S10) does not detect that the knurled roller is at the upper position after the 2nd transport motor (M4) has been driven at the specified number of pulses during the initial rising movement of the knurled roller.
	The knurled roller home position sensor (S10) does not detect that the knurled roller is not at the upper position after the 2nd transport motor (M4) has been driven at the specified number of pulses during the initial lowering movement of the knurled roller.
	The knurled roller home position sensor (S10) does not detect that the knurled roller is at the upper position when the pressurization of stack exit movement is finished.

[CC94] Fan motor abnormality

Error	Timing of detection
Fan motor (M10)	The turning ON of the fan locking signal is detected consistently after the specified time*. * A locking signal is not monitored from the start driving the motor until the specified time has passed.

[CDE0] Paddle motor abnormality

*   You receive a [CDE0] error when the [ED15] error occurs three times in succession or during the initial operation.

Classification	Contents
Finisher related service call	Paddle motor abnormality: The paddle motor is not rotating or the paddle is not rotating normally.

MJ-1101/1107

Check Item	Measure
Paddle	Rotate the paddle. Fix any mechanical problem.
Paddle motor	Check the connectors and harnesses between the paddle motor (M8) and the finisher control PC board (CN6).

Replacement part	Measure
Paddle motor	
Finisher control PC board	

MJ-1106/1108

Check Item	Measure
Paddle	Rotate the paddle. Fix any mechanical problem.
Paddle motor (M8)	Check if the connector (CN22) on the finisher controller PC board is disconnected from the paddle motor (M3) and the harnesses are open circuited. Correct if so.

Replacement part	Measure
Paddle motor (M8)	

Replacement part	Measure
Finisher control PC board	

[CF10] Communication module SRAM reading failure

Classification	Contents
Finisher related service call	Communication module SRAM reading failure.

MJ-1101/1107

Check Item	Measure
Main power switch	Turn OFF the main power switch, then back ON.
Setting of the equipment	Check if the MJ-1101/1107 is set as the specified finisher on the equipment. (08-4548)
Converter PC board	• Check the connectors and harnesses between the converter PC board and the finisher controller PC board. • Board check
Finisher control PC board	Board check

Replacement part	Measure
Converter PC board	
Finisher control PC board	

MJ-1101 (When MJ-6103 is installed) / MJ-1107 (When MJ-6104 is installed)

Check Item	Measure
Main power switch	Turn OFF the main power switch, then back ON.
Setting of the equipment	Check if the MJ-1101/1107 is set as the specified finisher on the equipment. (08-4548)
Converter PC board	• Check the connectors and harnesses between the converter PC board and the finisher controller PC board. • Board check
Finisher control PC board	• Check the connectors and harnesses between the hole punch control PC board and the finisher control PC board. • Board check
Hole punch control PC board	Board check

Replacement part	Measure
Converter PC board	
Finisher control PC board	
Hole punch control PC board	

8.3.20 Offset tray related service call

[CDF0] Initialize error of the offset tray (e-STUDIO206L/256/306 / 207L/257/307)

Classification	Contents
Offset tray related service call	Initialize error of the offset tray

Check Item	Measure
OCT motor OCT board LGC board	1. Check if each connector between the OCT motor and OCT board (CN261) is disconnected. 2. Check if each connector between the OCT board (CN261) and LGC board (CN302) is disconnected. 3. Check if each connector pin is removed or the harness is broken. 4. Check if any conductor pattern on the OCT board and LGC board is short circuited or open circuited.

Replacement part	Measure
OCT motor	
OCT board	
LGC board	

[CDF0] Initialize error of the offset tray (e-STUDIO356/456/506 / 357/457/507)

Classification	Contents
Offset tray related service call	Initialize error of the offset tray

Check Item	Measure
Offset gate motor MOT2 board LGC board	1. Check if each connector between the offset gate motor and MOT2 board (CN406) is disconnected. 2. Check if each connector between the MOT2 board (CN406) and LGC board (CN302) is disconnected. 3. Check if each connector pin is removed or the harness is broken. 4. Check if any conductor pattern on the MOT2 board and LGC board is short circuited or open circuited.

Replacement part	Remark
Offset gate motor.	
MOT2 board	
LGC board	

8.3.21 Service call for others

[F100_0] HDD format error (Operation failure of key data)

Classification	Contents
Other service call	HDD format error: Operation of HDD key data fails.

Check Item	Measure
Setting	Reboot the equipment. If it cannot be recovered, reinstall the software in the following procedure. (1) Install the OS data. 📖 P. 11-15 "11.2.3 Update procedure"

[F100_1] HDD format error (HDD encryption key data damaged - one board)

Classification	Contents
Other service call	HDD format error: Encryption key data of either the SYS board or the SRAM board for the SYS board are damaged.

Check Item	Measure
Encryption key status	Check the displayed message. ([3] + [CLEAR] → Power-ON → 5. Key Backup Restore)

Take appropriate countermeasures shown in the table below according to the messages displayed in "SRAM Key Status" and "FROM Key Status".

> **Remarks:**
> If the error is not cleared, reinstallation of the OS data, master data and application is needed.

SRAM Key Status	FROM Key Status	Measure
OK	AccessFailed	Replace the SYS board. 📖 P. 9-24 "9.3.4 Precautions and Procedures when replacing the SYS board" (all steps)
OK	KeyNull KeyBroken	Recover the encryption key on the SYS board. 📖 P. 9-24 "9.3.4 Precautions and Procedures when replacing the SYS board" (📖 P. 9-25 "[E] Restore encryption key")
AccessFailed	OK	Replace the SRAM board (for the SYS board). (USB backup data are not used) 📖 P. 9-31 "9.3.8 Precautions and Procedures when replacing SRAM board" (all steps)
KeyNull KeyBroken	OK	Recover the encryption key on the SRAM board. 📖 P. 9-31 "9.3.8 Precautions and Procedures when replacing SRAM board" ([H]Backup encryption key)
Keymismatch	Keymismatch	<The error occurs when the SYS board is replaced> Recover the encryption key on the SYS board. 📖 P. 9-24 "9.3.4 Precautions and Procedures when replacing the SYS board" ([E]Restore encryption key) <The error occurs except when the SYS board is replaced> Replace the SRAM board (for the SYS board). 📖 P. 9-31 "9.3.8 Precautions and Procedures when replacing SRAM board" (all steps)

[F100_2] HDD format error (HDD encryption key data damaged - both boards)

Classification	Contents
Other service call	HDD format error: Encryption key data of both the SYS board and the SRAM board for the SYS board are damaged.

Check Item	Measure
Encryption key status	Check the displayed message. ([3] + [CLEAR] → Power-ON → 5. Key Backup Restore)

Take appropriate countermeasures shown in the table below according to the messages displayed in "SRAM Key Status" and "FROM Key Status".

> **Remarks:**
> If the error is not cleared, reinstallation of the OS data / master data and application is needed.

SRAM Key Status	FROM Key Status	Measure

*	AccessFailed	Replace the SYS board.
		 P. 9-24 "9.3.4 Precautions and Procedures when replacing the SYS board" (all steps)
		<With USB backup data: All key data recovery>
		1. Recover all the data on the SRAM board.
		    [5] + [9] + [POWER] → 2. Restore SRAM Data from USB (For details, see "12.1.4Cloning procedure [B]Restore procedure")
		2. Recover the encryption key/license on the SYS board. Follow the procedures below noted in P. 9-24 "9.3.4 Precautions and Procedures when replacing the SYS board".
		    [D] Restore ADI key (only when ADI-HDD is installed)
		    [E] Restore encryption key
		    [F] Restore license

AccessFailed	*	Replace the SYS board. (for the SYS board, all steps)

KeyNull/ KeyBroken	KeyNull/ KeyBroken	<No USB backup data>
		1. Reinstall the system software.
		     P. 11-11 "11.2 Firmware Updating with USB Media"
		<With USB backup data: All key data recovery>
		1. Recover all the data on the SRAM board.
		    [5] + [9] + [POWER] → 2. Restore SRAM Data from USB (For details, see "12.1.4Cloning procedure [B]Restore procedure")
		2. Recover the encryption key/license on the SYS board. Follow the procedures below noted in P. 9-24 "9.3.4 Precautions and Procedures when replacing the SYS board".
		    [D] Restore ADI key (only when ADI-HDD is installed)
		    [E] Restore encryption key
		    [F] Restore license

* AccessFailed, KeyNull or KeyBroken

8

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
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[F101_0] HDD connection error (HDD connection cannot be detected.)

[F101_1] Root partition mount error (HDD formatting fails.)

[F101_2][F101_3] Partition mount error (The HDD cannot be connected (mounted) caused by damage to areas other than those described in the F101_1 and F101_4 to F101_9 errors.)

Classification	Contents
Other service call	HDD unmounted: Connection of HDD cannot be detected. Sub-code 0: HDD connection error (HDD connection cannot be detected.) Sub-code 1: Root partition mount error (HDD formatting fails.) Sub-code 2, 3: Partition mount error (The areas other than those described in the F101_1 and F101_4 to F101_9 errors are damaged.)

Check item	Measures
HDD, SYS board, Setting	1. Turn the power of the equipment OFF and check the connection of the HDD. - Connector and harness check - Check if the connector pins of the HDD are bent. - Check if HDD for other equipment is not installed. - Check if SRAM for other equipment is not installed. 2. If the error still occurs after step 1, perform the following. - Perform [3C] - [5] (Key Backup Restore) and check that each Key Status is "OK". - If not, recover the key (copy "SRAM Key Status" to "FROM Key Status" or vice versa). 3. If the error still persists after step 2, perform the following. - Perform [3C] - [3] (Format HDD), and then install "System Software (HD data)" with [49] - [4]. **Notes:** The following items will be deleted by performing [3C] - [3] (Format HDD). • Message Log • Job Log • Spool Data (Print, Email reception) • Template If F101_1 occurs with ADI-HDD or the error persists after performing step 3, perform step 3 after performing [4]+[C]+[POWER]→1. Revert factory initial status HDD. 4. If the error persists even after step 3, replace the HDD.

Replacement part	Measure
HDD	
SYS board	

[F101_4] Partition mount error (The HDD cannot be connected (mounted) caused by damage to the "/work" partition.)

Classification	Contents
Other service call	HDD unmounted: Connection of HDD cannot be detected. Sub-code 4: Partition mount error (The "/work" partition is damaged.)

Check item	Measures

HDD, SYS board, Setting	1. Turn the power of the equipment OFF and check the connection of the HDD.
	  - Connector and harness check
	  - Check if the connector pins of the HDD are bent.
	  - Check if HDD for other equipment is not installed.
	  - Check if SRAM for other equipment is not installed.
	2. If the error still occurs after step 1, perform the following.
	  - Perform [3C] - [5] (Key Backup Restore) and check that each Key Status is "OK".
	  - If not, recover the key (copy "SRAM Key Status" to "FROM Key Status" or vice versa).
	3. If the error persists after step 2, perform [5]+[C]+[POWER]→2. Recovery F/S→3. /work, and then restart the equipment.
	4. If the error persists after step 3, perform [5]+[C]+[POWER]→3. Initialize HDD→2. /work, and then restart the equipment.
	5. If the error still persists after step 4, perform the following.
	  - Perform [3C] - [3] (Format HDD), and then install "System Software (HD data)" with [49] - [4].
	
	Notes:
	  The following items will be deleted by performing [3C] - [3] (Format HDD).
	  • Message Log
	  • Job Log
	  • Spool Data (Print, Email reception)
	  • Template
	  If the error persists after performing step 5, perform step 5 after performing [4]+[C]+[POWER]→1. Revert factory initial status HDD.
	6. If the error persists even after step 5, replace the HDD.

Replacement part	Measure
HDD	
SYS board	

8

[F101_5] Partition mount error (The HDD cannot be connected (mounted) caused by damage to the "/registration" partition.)

Classification	Contents
Other service call	HDD unmounted: Connection of HDD cannot be detected. Sub-code 5: Partition mount error (The "/registration" partition is damaged.)

Check item	Measures

HDD, SYS board, Setting	1. Turn the power of the equipment OFF and check the connection of the HDD.
	  - Connector and harness check
	  - Check if the connector pins of the HDD are bent.
	  - Check if HDD for other equipment is not installed.
	  - Check if SRAM for other equipment is not installed.
	2. If the error still occurs after step 1, perform the following.
	  - Perform [3C] - [5] (Key Backup Restore) and check that each Key Status is "OK".
	  - If not, recover the key (copy "SRAM Key Status" to "FROM Key Status" or vice versa).
	3. If the error persists after step 2, perform [5]+[C]+[POWER]→2. Recovery F/S→4. /registration, and then restart the equipment.
	4. If the error persists after step 3, perform [5]+[C]+[POWER]→3. Initialize HDD→3. /registration, and then restart the equipment.
	5. If the error still persists after step 4, perform the following.
	  - Perform [3C] - [3] (Format HDD), and then install "System Software (HD data)" with [49] - [4].
	
	Notes:
	  The following items will be deleted by performing [3C] - [3] (Format HDD).
	  • Message Log
	  • Job Log
	  • Spool Data (Print, Email reception)
	  • Template
	  If the error persists after performing step 5, perform step 5 after performing [4]+[C]+[POWER]→1. Revert factory initial status HDD.
	6. If the error persists even after step 5, replace the HDD.

Replacement part	Measure
HDD	
SYS board	

[F101_6] Partition mount error (The HDD cannot be connected (mounted) caused by damage to the "/backup" partition.)

Classification	Contents
Other service call	HDD unmounted: Connection of HDD cannot be detected. Sub-code 6: Partition mount error (The "/backup" partition is damaged.)

Check item	Measures

HDD, SYS board, Setting	1. Turn the power of the equipment OFF and check the connection of the HDD.
	   - Connector and harness check
	   - Check if the connector pins of the HDD are bent.
	   - Check if HDD for other equipment is not installed.
	   - Check if SRAM for other equipment is not installed.
	2. If the error still occurs after step 1, perform the following.
	   - Perform [3C] - [5] (Key Backup Restore) and check that each Key Status is "OK".
	   - If not, recover the key (copy "SRAM Key Status" to "FROM Key Status" or vice versa).
	3. If the error persists after step 2, perform [5]+[C]+[POWER]→2. Recovery F/S→5. /backup, and then restart the equipment.
	4. If the error persists after step 3, perform [5]+[C]+[POWER]→3. Initialize HDD→4. /backup, and then restart the equipment.
	5. If the error still persists after step 4, perform the following.
	   - Perform [3C] - [3] (Format HDD), and then install "System Software (HD data)" with [49] - [4].
	
	Notes:
	The following items will be deleted by performing [3C] - [3] (Format HDD).
	• Message Log
	• Job Log
	• Spool Data (Print, Email reception)
	• Template
	If the error persists after performing step 5, perform step 5 after performing [4]+[C]+[POWER]→1. Revert factory initial status HDD.
	6. If the error persists even after step 5, replace the HDD.

Replacement part	Measure
HDD	
SYS board	

8

[F101_7] Partition mount error (The HDD cannot be connected (mounted) caused by damage to the "/imagedata" partition.)

Classification	Contents
Other service call	HDD unmounted: Connection of HDD cannot be detected. Sub-code 7: Partition mount error (The "/imagedata" partition is damaged.)

Check item	Measures

HDD, SYS board, Setting	1. Turn the power of the equipment OFF and check the connection of the HDD.
	  - Connector and harness check
	  - Check if the connector pins of the HDD are bent.
	  - Check if HDD for other equipment is not installed.
	  - Check if SRAM for other equipment is not installed.
	2. If the error still occurs after step 1, perform the following.
	  - Perform [3C] - [5] (Key Backup Restore) and check that each Key Status is "OK".
	  - If not, recover the key (copy "SRAM Key Status" to "FROM Key Status" or vice versa).
	3. If the error persists after step 2, perform [5]+[C]+[POWER]→2. Recovery F/S→6. /imagedata, and then restart the equipment.
	4. If the error persists after step 3, perform [5]+[C]+[POWER]→3. Initialize HDD→5. /imagedata, and then restart the equipment.
	5. If the error still persists after step 4, perform the following.
	  - Perform [3C] - [3] (Format HDD), and then install "System Software (HD data)" with [49] - [4].
	Notes:
	  The following items will be deleted by performing [3C] - [3] (Format HDD).
	  • Message Log
	  • Job Log
	  • Spool Data (Print, Email reception)
	  • Template
	  If the error persists after performing step 5, perform step 5 after performing [4]+[C]+[POWER]→1. Revert factory initial status HDD.
	6. If the error persists even after step 5, replace the HDD.

Replacement part	Measure
HDD	
SYS board	

[F101_8] Partition mount error (The HDD cannot be connected (mounted) caused by damage to the "/storage" partition.)

Classification	Contents
Other service call	HDD unmounted: Connection of HDD cannot be detected. Sub-code 8: Partition mount error (The "/storage" partition is damaged.)

Check item	Measures
HDD, SYS board, Setting	1. Turn the power of the equipment OFF and check the connection of the HDD. - Connector and harness check - Check if the connector pins of the HDD are bent. - Check if HDD for other equipment is not installed. - Check if SRAM for other equipment is not installed. 2. If the error still occurs after step 1, perform the following. - Perform [3C] - [5] (Key Backup Restore) and check that each Key Status is "OK". - If not, recover the key (copy "SRAM Key Status" to "FROM Key Status" or vice versa). 3. If the error persists after step 2, perform [5]+[C]+[POWER]→2. Recovery F/S→7. /storage, and then restart the equipment. 4. If the error persists after step 3, perform [5]+[C]+[POWER]→3. Initialize HDD→6. /storage, and then restart the equipment. 5. If the error still persists after step 4, perform the following. - Perform [3C] - [3] (Format HDD), and then install "System Software (HD data)" with [49] - [4]. **Notes:** The following items will be deleted by performing [3C] - [3] (Format HDD). • Message Log • Job Log • Spool Data (Print, Email reception) • Template If the error persists after performing step 5, perform step 5 after performing [4]+[C]+[POWER]→1. Revert factory initial status HDD. 6. If the error persists even after step 5, replace the HDD.

Replacement part	Measure
HDD	
SYS board	

8

[F101_9] Partition mount error (The HDD cannot be connected (mounted) caused by damage to the "/encryption" partition.)

Classification	Contents
Other service call	HDD unmounted: Connection of HDD cannot be detected. Sub-code 9: Partition mount error (The "/encryption" partition is damaged.)

Check item	Measures
HDD, SYS board, Setting	1. Turn the power of the equipment OFF and check the connection of the HDD. 　-　Connector and harness check 　-　Check if the connector pins of the HDD are bent. 　-　Check if HDD for other equipment is not installed. 　-　Check if SRAM for other equipment is not installed. 2. If the error still occurs after step 1, perform the following. 　-　Perform [3C] - [5] (Key Backup Restore) and check that each Key Status is "OK". 　-　If not, recover the key (copy "SRAM Key Status" to "FROM Key Status" or vice versa). 3. If the error persists after step 2, perform [5]+[C]+[POWER]→2. Recovery F/S→8. /encryption, and then restart the equipment. 4. If the error persists after step 3, perform [5]+[C]+[POWER]→3. Initialize HDD→7. /encryption, and then restart the equipment. 5. If the error still persists after step 4, perform the following. 　-　Perform [3C] - [3] (Format HDD), and then install "System Software (HD data)" with [49] - [4]. **Notes:** 　The following items will be deleted by performing [3C] - [3] (Format HDD). 　• Message Log 　• Job Log 　• Spool Data (Print, Email reception) 　• Template 　If the error persists after performing step 5, perform step 5 after performing [4]+[C]+[POWER]→1. Revert factory initial status HDD. 6. If the error persists even after step 5, replace the HDD.

Replacement part	Measure
HDD	
SYS board	

[F102] HDD start error
[F103] HDD transfer time-out
[F104] HDD data error
[F105] HDD other error

Classification	Contents
Other service call	HDD unmounted: Connection of HDD cannot be detected. HDD start error: HDD cannot become "Ready" state. HDD transfer time-out: Reading/writing cannot be performed in the specified period of time. HDD data error: Abnormality is detected in the data of HDD. HDD other error

Check Item	Measure
HDD	• Connector and harness check • Check if the connector pins of the HDD are bent. • Perform the bad sector check (08-9072). If the check result is OK, recover the data in the HDD. If the check result is failed, replace the HDD.

Replacement part	Remark
HDD	
SYS board	

8

[F106_0] ADI-HDD error: Illegal disk replacement detected (ADI-HDD Exchange to SATA-HDD)

Classification	Error item
Other service call	ADI-HDD error: The ADI-HDD has been replaced illegally to SATA-HDD (normal type).

Check Item	Measure
Setting	Check if the HDD has been replaced with a SATA-HDD (normal type). (1) Start the equipment in the 4C mode: [4] + [C] + [POWER] (2) Check the type of the HDD shown on the top left of the control panel display "Current HDD type". 2a. In case of "SATA-HDD" (normal type), replace it with the original ADI-HDD or a new ADI-HDD. **Notes:** To replace with the original ADI-HDD, start the equipment in the normal mode and then reinstall master data (HD Data) only if any abnormality occurs. 2b. In case of "ADI-HDD" Check each item in the Measures field for the HDD below. If the error still occurs, reinstall the master data (HD Data).
HDD	• Connector check • Harness check • Perform the bad sector check (08-9072). If the check result is OK, recover the data in the HDD. If the check result fails, replace the HDD.

[F106_1] ADI-HDD error: HDD type detection error

Classification	Error item
Other service call	ADI-HDD error: HDD type detection fails.

Check Item	Measure
Setting	If the error is not recovered after rebooting the equipment or no abnormality is found on any check items for the HDD, reinstall the master data (HD Data).

HDD	• Connector check
	• Harness check
	• Perform the bad sector check (08-9072).
	   If the check result is OK, recover the data in the HDD. If the check result fails, replace the HDD.
	• Check that either the ADI-HDD or SATA-HDD (normal type) is mounted.
	(1) Start the equipment in the 4C mode: [4] + [C] + [POWER]
	(2) Check the type of the HDD shown on the top left of the control panel display "Current HDD type".
	     Normal status: ADI-HDD or SATA-HDD
	     Abnormal status: Unknown HDD
	If "Unknown HDD" is displayed, reinstall the master data (HD Data).

[F106_2] ADI-HDD error: ADI encryption key download operation error

Classification	Error item
Other service call	ADI-HDD error: Downloading of or consistency check for ADI-HDD encryption key fails.

Check Item	Measure

Setting	Checking of ADI-HDD encryption key status
	(1) Start the equipment in the 3C mode: [3] + [C] + [POWER]
	(2) The authentication menu is displayed. Press [OK]. (Not required in the default setting)
	(3) Select "5. Key Backup Restore" and then press the [START] button.
	(4) Check the status of the ADI-HDD encryption key on the Key Backup Restore Mode menu.
	(5) After the operation is completed, shut down the equipment by pressing the [POWER] button.
	• In case both the SRAM ADIKey and FROM ADIKey status are OK
	   Reinstall the system ROM data (OS Data).
	• In case either the SRAM ADIKey or FROM ADIKey status is other than OK
	   Restore the ADI-HDD encryption key.
	• In case both of the SRAM ADIKey or FROM ADIKey status are other than OK
	   Reinstall the master data (HD Data).

[F106_3] ADI-HDD error: ADI authentication Admin Password generation error

Classification	Error item
Other service call	ADI-HDD error: The generation of ADI authentication Admin Password fails.

Check Item	Measure
Setting	Reinstall the system ROM data (OS Data). Reinstall the master data (HD Data).

[F106_4] ADI-HDD error: Authentication random number generation error

Classification	Error item
Other service call	ADI-HDD error: The generation of a random number for authentication data fails.

Check Item	Measure
Setting	Reinstall the system ROM data (OS Data). Reinstall the master data (HD Data).

[F106_5] ADI-HDD error: Authentication data transmission error

Classification	Error item
Other service call	ADI-HDD error: The transmission of authentication data fails.

Check Item	Measure
Setting	Reinstall the system ROM data (OS Data). Reinstall the master data (HD Data).
	• In case this error occurred after returning SRAM data for SRAM cloning: Copy the ADI-HDD encryption key from FROM to SRAM. (1) Start the equipment in the 3C mode: [3] + [C] + [POWER] (2) The authentication menu is displayed. Press [OK]. (Not required in the default setting) (3) Select "5. Key Backup Restore" and then press the [START] button. (4) Select "6. ADIKey FROM to SRAM" and then press the [START] button. (5) After the restoring of the encryption key has completed, "Operation Complete" is displayed. (6) After the operation has completed, shut down the equipment by pressing the [POWER] button.

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[F106_6]/[F106_7]/[F106_8]/[F106_10] /[F106_UNDEF] ADI-HDD error: Error caused by reason other than F106_0 to 5 errors

Classification	Error item
Other service call	ADI-HDD error: Error caused by reason other than F106_0 to 5 errors

Check item	Measures
Setting	Perform [3]+[C]+[POWER]-> [3.Format HDD], and then install the system software by performing [4]+[9]+[POWER]-> [4.System Software(HD data)]. **Notes:** The following items will be deleted by performing [3]+[C]+[POWER]-> [3.Format HDD]. • Message Log • Job Log • Spool Data (Print, Email reception) • Template

[F109_0] Key consistency error (Consistency check operation error)

Classification	Contents
Other service call	Key consistency error - Key consistency check on each key data fails.

Check Item	Measure

Setting	Reboot the equipment.
	If it cannot be recovered, reinstall the software in the following procedure.
	 (1) Install the OS data.
	  📖 P. 11-15 "11.2.3 Update procedure"
	 (2) Reinstall the master data and application program.
	  📖 P. 9-19 "9.3.3 Precautions and procedures when replacing the HDD"
	  [E] Replace / Format HDD (Step (3) and later in [E] Replace / Format HDD)

SRAM board	(1) If the error is not cleared even after reinstallation, replace the SRAM board.
	  📖 P. 9-31 "9.3.8 Precautions and Procedures when replacing SRAM board"
	 (2) If the error is not cleared even after replacing the SRAM board, replace the SYS board.
	  📖 P. 9-24 "9.3.4 Precautions and Procedures when replacing the SYS board"

[F109_1] Key consistency error (SRAM encryption AES key data damage)

Classification	Contents
Other service call	Key consistency error - AES key data used for SRAM encryption are damaged.

Check Item	Measure
Setting	Reboot the equipment. If it cannot be recovered, reinstall the software in the following procedure. (1) Install the OS data. 📖 P. 11-15 "11.2.3 Update procedure"

[F109_2] Key consistency error (Signature Check public key damage)

Classification	Contents
Other service call	Key consistency error - Public key data used for Integrity Check are damaged.

Check Item	Measure
Setting	Reboot the equipment. If it cannot be recovered, reinstall the software in the following procedure. (1) Install the OS data. 📖 P. 11-15 "11.2.3 Update procedure"

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[F109_3] Key consistency error (HDD encryption parameter damage)

Classification	Contents
Other service call	Key consistency error - Parameter used for HDD partition encryption are damaged.

Check Item	Measure
Encryption key status confirmation	Check the message displayed by [3] + [C] + [START] → 5. Key Backup Restore.

Take measures given in the following table according to the messages displayed in the SRAM Key Status and FROM Key Status fields.

Remarks:

If the error is not cleared, reinstallation of the OS data, master data and application is needed.

SRAM Key Status	FROM Key Status	Measure

*	AccessFailed	Replace the SYS board.
		📖 P. 9-24 "9.3.4 Precautions and Procedures when replacing the SYS board" (all steps)
		<With USB backup data: All key data recovery>
		1. Recover all the data on the SRAM board.
		   [5] + [9] + [POWER] → 2. Restore SRAM Data from USB (For details, see "12.1.4Cloning procedure [B]Restore procedure")
		2. Recover the encryption key/license on the SYS board. Follow the procedures below noted in 📖 P. 9-24 "9.3.4 Precautions and Procedures when replacing the SYS board".
		   [D]Restore ADI key (only when ADI-HDD is installed)
		   [E] Restore encryption key
		   [F] Restore license

AccessFailed	*	Replace the SYS board. 📖 P. 9-31 "9.3.8 Precautions and Procedures when replacing SRAM board" (for the SYS board, all steps)
OK	KeyNull/ KeyBroken	Recover the encryption key on the SYS board. 📖 P. 9-24 "9.3.4 Precautions and Procedures when replacing the SYS board" ([E]Restore encryption key)
AccessFailed	OK	Replace the SRAM board (for the SYS board). 📖 P. 9-31 "9.3.8 Precautions and Procedures when replacing SRAM board" (all steps)
KeyNull/ KeyBroken	OK	Recover the encryption key on the SRAM board. 📖 P. 9-31 "9.3.8 Precautions and Procedures when replacing SRAM board" (for the SYS board, [H]Backup encryption key)

SRAM Key Status	FROM Key Status	Measure

KeyNull/ KeyBroken	KeyNull/ KeyBroken	<No USB backup data>
		1. Reinstall the system software.
		   📖 P. 11-11 "11.2 Firmware Updating with USB Media"
		<With USB backup data: All key data recovery>
		1. Recover all the data on the SRAM board.
		   [5] + [9] + [POWER] → 2. Restore SRAM Data from USB (For details, see "12.1.4Cloning procedure [B]Restore procedure")
		2. Recover the encryption key/license on the SYS board. Follow the procedures below noted in 📖 P. 9-24 "9.3.4 Precautions and Procedures when replacing the SYS board".
		   [D] Restore ADI key (only when ADI-HDD is installed)
		   [E] Restore encryption key
		   [F] Restore license

* AccessFailed, KeyNull or KeyBroken

[F109_4] Key consistency error (license data damage)

Classification	Contents
Other service call	Key consistency error - The license data are damaged.

Check Item	Measure
Encryption key status confirmation	Check the message displayed by [3] + [C] + [START] → 5. Key Backup Restore.

Take measures given in the following table according to the messages displayed in the SRAM Key Status and FROM Key Status fields.

   Remarks:
      If the error is not cleared, reinstallation of the OS data, master data and application is needed.

SRAM Licence Status	FROM Licence Status	Measure

*	AccessFailed	Replace the SYS board.
		📖 P. 9-24 "9.3.4 Precautions and Procedures when replacing the SYS board" (all steps)
		<With USB backup data: All key data recovery>
		1. Recover all the data on the SRAM board.
		   [5] + [9] + [POWER] → 2. Restore SRAM Data from USB (For details, see "12.1.4Cloning procedure [B]Restore procedure")
		2. Recover the encryption key/license on the SYS board. Follow the procedures below noted in 📖 P. 9-24 "9.3.4 Precautions and Procedures when replacing the SYS board".
		   [D] Restore ADI key (only when ADI-HDD is installed)
		   [E] Restore encryption key
		   [F] Restore license

AccessFailed	*	Replace the SYS board. 📖 P. 9-31 "9.3.8 Precautions and Procedures when replacing SRAM board" (all steps)

SRAM Licence Status	FROM Licence Status	Measure
KeyMismatch	KeyMismatch	<The error occurs when the SYS board is replaced> Recover the license on the SYS board. (Transfer the license from SYS-SRAM to SYS-FROM.) 📖 P. 9-24 "9.3.4 Precautions and Procedures when replacing the SYS board"([F]Restore license) <The error occurs except when the SYS board is replaced> Recover the license on the SRAM board. (Transfer the license from SYS-FROM to SYS-SRAM.) 📖 P. 9-31 "9.3.8 Precautions and Procedures when replacing SRAM board"([I]Backup license)

* AccessFailed or KeyMismatch

[F109_5] Key consistency error (encryption key for ADI-HDD is damaged)

Classification	Contents
Other service call	Key consistency error - Encryption key for ADI-HDD is damaged.

Check item	Measures
Encryption key status confirmation	Check the message displayed by [3] + [C] + [POWER] → 5. Key Backup Restore.

Take measures given in the following table according to the messages displayed in the SRAM Key Status and FROM Key Status fields.

Remarks:
    If the error is not cleared, reinstallation of the system firmware, system software and application is needed. ([4]+[9] → Power-ON)

SRAM Key Status	FROM Key Status	Measure

*	AccessFailed	Replace the SYS board.
		📖 P. 9-24 "9.3.4 Precautions and Procedures when replacing the SYS board" (all steps)
		<With USB backup data: All key data recovery>
		1. Recover all the data on the SRAM board.
		    [5] + [9] + [POWER] → 2. Restore SRAM Data from USB (For details, see "12.1.4Cloning procedure [B]Restore procedure")
		2. Recover the encryption key/license on the SYS board. Follow the procedures below noted in 📖 P. 9-24 "9.3.4 Precautions and Procedures when replacing the SYS board".
		    [D]Restore ADI key (only when ADI-HDD is installed)
		    [E] Restore encryption key
		    [F] Restore license

AccessFailed	*	Replace the SRAM board (for the SYS board). 📖 P. 9-31 "9.3.8 Precautions and Procedures when replacing SRAM board" (all steps)
OK	KeyNull/ KeyBroken	Recover the ADI key on the SYS board. 📖 P. 9-24 "9.3.4 Precautions and Procedures when replacing the SYS board" ([D]Restore ADI key)

SRAM Key Status	FROM Key Status	Measure
KeyNull/ KeyBroken	OK	Recover the encryption key on the SRAM board. 📖 P. 9-31 "9.3.8 Precautions and Procedures when replacing SRAM board" ([G]Backup ADI key)
KeyNull/ KeyBroken	KeyNull/ KeyBroken	\<No USB backup data> 1. Create the partition in the HDD/SSD, and reinstall the system software. 📖 P. 9-19 "9.3.3 Precautions and procedures when replacing the HDD"(Perform step 3 or later in "[E]Replace / Format HDD") \<With USB backup data: All key data recovery> 1. Recover all the data on the SRAM board. [5] + [9] + [POWER] → 2. Restore SRAM Data from USB (For details, see "12.1.4Cloning procedure [B]Restore procedure") 2. Recover the encryption key/license on the SYS board. Follow the procedures below noted in 📖 P. 9-24 "9.3.4 Precautions and Procedures when replacing the SYS board". [D] Restore ADI key (only when ADI-HDD is installed) [E] Restore encryption key [F] Restore license
KeyMismatch	KeyMismatch	\<The error occurs when the SYS board is replaced> Recover the encryption key on the SYS board. (Transfer the license from SYS-SRAM to SYS-FROM.) 📖 P. 9-24 "9.3.4 Precautions and Procedures when replacing the SYS board"([D]Restore ADI key) \<The error occurs except when the SYS board is replaced> Recover the encryption key on the SRAM board. (Transfer the license from SYS-FROM to SYS-SRAM.) 📖 P. 9-31 "9.3.8 Precautions and Procedures when replacing SRAM board"([G]Backup ADI key)

* AccessFailed or KeyMismatch

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[F109_6] Key consistency error (administrator password error for ADI-HDD authentication)

Classification	Contents
Other service call	Key consistency error - Administrator password error for ADI-HDD authentication.

Check item	Measures
Encryption key status confirmation	Check the message displayed by [3] + [C] + [POWER] → 5. Key Backup Restore.

Take measures given in the following table according to the messages displayed in the SRAM Key Status and FROM Key Status fields.

Remarks:
   If the error is not cleared, reinstallation of the system firmware, system software and application is needed. ([4]+[9] → Power-ON)

SRAM Key Status	FROM Key Status	Measure

*	AccessFailed	Replace the SYS board.
		📖 P. 9-24 "9.3.4 Precautions and Procedures when replacing the SYS board" (all steps)
		<With USB backup data: All key data recovery>
		1. Recover all the data on the SRAM board.
		   [5] + [9] + [POWER] → 2. Restore SRAM Data from USB (For details, see "12.1.4Cloning procedure [B]Restore procedure")
		2. Recover the encryption key/license on the SYS board. Follow the procedures below noted in 📖 P. 9-24 "9.3.4 Precautions and Procedures when replacing the SYS board".
		   [D] Restore ADI key (only when ADI-HDD is installed)
		   [E] Restore encryption key
		   [F] Restore license

AccessFailed	*	Replace the SRAM board (for the SYS board). 📖 P. 9-31 "9.3.8 Precautions and Procedures when replacing SRAM board" (all steps)
OK	KeyNull/ KeyBroken	Recover the ADI key on the SYS board. 📖 P. 9-24 "9.3.4 Precautions and Procedures when replacing the SYS board" ([D]Restore ADI key)
KeyNull/ KeyBroken	OK	Recover the encryption key on the SRAM board. 📖 P. 9-31 "9.3.8 Precautions and Procedures when replacing SRAM board" ([G]Backup ADI key)

SRAM Key Status	FROM Key Status	Measure

KeyNull/ KeyBroken	KeyNull/ KeyBroken	\<No USB backup data\>
		1. Create the partition in the HDD/SSD, and reinstall the system software.
		  📖 P. 9-19 "9.3.3 Precautions and procedures when replacing the HDD"(Perform step 3 or later in "[E]Replace / Format HDD")
		\<With USB backup data: All key data recovery\>
		1. Recover all the data on the SRAM board.
		  [5] + [9] + [POWER] → 2. Restore SRAM Data from USB (For details, see "12.1.4Cloning procedure [B]Restore procedure")
		2. Recover the encryption key/license on the SYS board. Follow the procedures below noted in 📖 P. 9-24 "9.3.4 Precautions and Procedures when replacing the SYS board".
		  [D] Restore ADI key (only when ADI-HDD is installed)
		  [E] Restore encryption key
		  [F] Restore license

KeyMismatch	KeyMismatch	\<The error occurs when the SYS board is replaced\> Recover the encryption key on the SYS board. (Transfer the license from SYS-SRAM to SYS-FROM.) 📖 P. 9-24 "9.3.4 Precautions and Procedures when replacing the SYS board"([D]Restore ADI key) \<The error occurs except when the SYS board is replaced\> Recover the encryption key on the SRAM board. (Transfer the license from SYS-FROM to SYS-SRAM.) 📖 P. 9-31 "9.3.8 Precautions and Procedures when replacing SRAM board"([G]Backup ADI key)

* AccessFailed or KeyMismatch

[F120] Database abnormality

Classification	Error item
Other service call	Database abnormality: Database is not operating normally.

Check item	Measures

Setting	1. Check that no jobs remain and rebuild the databases. ([5] + [C] + [POWER] -> 4. Initialize database -> 1. LDAP DB and 2. Log DB (Job,Msg).
	2. If the error is not recovered, reinstall the system software. ([4] + [9] + [POWER] -> 4. System Software(HD data))
	Notes:
	  • If you rebuild the databases with a job remaining, delete it after finishing.
	  • When "Rebuilding all databases" is performed, all data including log/user/role/group/department information and address book data are deleted. If you back up the data in advance, they will be recovered by restoring them after rebuilding the database.

[F121] Database abnormality (user information management database)

Classification	Error item
Other service call	Login after the startup fails in any starting mode because user management database is corrupted.

Check item	Measures
Setting	1. Delete the log in the following procedure:[5] + [C] + [POWER] → 4. Initialize database → 1. LDAP database (to delete user database) (Note that all user, role, group and accounting data will be deleted.) 2. If the error is not recovered, reinstall the system software. ([4] + [9] + [POWER] -> 4. System Software(HD data)) **Notes:** • If you rebuild the databases with a job remaining, delete it after finishing. • When "Rebuilding all databases" is performed, all data including log/user/role/group/department information and address book data are deleted. If you back up the data in advance, they will be recovered by restoring them after rebuilding the database.

[F122] Database abnormality (message/job log management database)

Classification	Error item
Other service call	Login after the startup fails in any starting mode because log management database is corrupted.

Check item	Measures
Setting	1. Delete the log in the following procedure: [5] + [C] + [POWER] → 4. Initialize database → 2. Log database (jobs and messages) (Note that all job and message logs will be deleted.) 2. If the error is not recovered, reinstall the system software. ([4] + [9] + [POWER] -> 4. System Software(HD data)) **Notes:** • If you rebuild the databases with a job remaining, delete it after finishing. • When "Rebuilding all databases" is performed, all data including log/user/role/group/department information and address book data are deleted. If you back up the data in advance, they will be recovered by restoring them after rebuilding the database.

[F124] Language DB damage error

Classification	Error item
Other service call	Login after the startup fails in any starting mode because language management database is corrupted.

Check item	Measures
Setting	Delete the journal file: [5] + [C] + [START] -> 4. Initialize DB -> 3. Language DB If the recovery is still not completed, reinstall the master data and application program. 📖 P. 11-15 "11.2.3 Update procedure"

[F130] Invalid MAC address

Classification	Contents
Other service call	Invalid MAC address

Check Item	Measure
Setting	Compare the serial number of the equipment with a number displayed with 08-9601. If they are different, enter the correct serial number at 08-9601, 08-9083.

[F131] Error due to damage to filtering setting file

Classification	Contents
Other service call	The filtering function is not working properly due to the damage to the file for the filtering setting.

Check Item	Measure

Setting	1. Check the bad sector of the HDD (08-9072). If the result is "NG", replace the HDD.
	Notes:
	    It may take more than 30 minutes to finish the checking.
	2. Perform [3] + [C] + [POWER] -> [3], and then reinstall the HDD software.
	Notes:
	    User data will be deleted when [3] + [C] + [POWER] -> [3] is perform ed.

[F140] ASIC format error

Classification	Error content
Other service call	ASIC formatting fails or memory acquiring fails when software is formatted

Check Item	Measure
SYS board	• Connector check • Board check
Main memory	• Check the installation • Main memory check

Parts to be replaced	Remark
Main memory	

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
ERROR CODE AND TROUBLESHOOTING

Parts to be replaced	Remark
SYS board	

[F200] Data Overwrite option (GP-1070) disabled

Classification	Contents
Other service call	Data Overwrite option (GP-1070) disabled

Check Item	Measure
Setting	Perform firmware installation (all firmware: OS, HDD, SYS, PFC Firmware, Engine Main Firmware, and Scanner Firmware) with the USB media. * When the function of the Data Overwrite option (GP-1070) is deleted from the equipment, the service call "F200" occurs.
	Perform 08-3840 to install the Data Overwrite Enabler (GP-1070). * If F200 occurs while High ("3") is set for the security level (08-8911), it cannot be released by installing the firmware using the USB media. Install the Data Overwrite Enabler (GP-1070) by 08-3840.

[F500] HD partition damage

Classification	Error item
Other service call	The file system is abnormal.

Check item	Measures
Setting	• Diagnose the file system with [5] + [C] + [Start] → 1. Check F/S, and then recover the problem partition with [5] + [C] + [Start] → 2. Recovery F/S. • If it still is not recovered by performing the above, reinstall the software after formatting the HDD with [3] + [C] + [START] -> 3: Format HDD.

[F510] Application start error

Classification	Error item
Other service call	The application fails to start.

Check item	Measures
Setting	1. Reboot. 2. If it has still not recovered, reinstall the HDD software. 3. If it still persists after step 2, perform [3] + [C] + [Start] -> 3, and then reinstall the HDD software. Note: User data will be deleted when [3] + [C] + [Start] -> 3 is performed.

[F520] Operating system start error

Classification	Error item
Other service call	The operation system fails to start.

Check item	Measures
Setting	1. Reboot. 2. If it has still not recovered, reinstall the HDD software. 3. If it still persists after step 2, perform [3] + [C] + [Start] -> 3, and then reinstall the HDD software. Note: User data will be deleted when [3] + [C] + [Start] -> 3 is performed.

[F521] Integrity check error

Classification	Error item
Other service call	Authentication of program data failed.

Check item	Measures
Setting	Restart the equipment. If the error is not recovered after restarting the equipment, reinstall software following the procedure below. (1) Turn the power OFF. (2) Turn the power back ON while pressing the [4] and [9] buttons simultaneously. (3) The authentication screen is displayed. Enter the password. (Password entry is not required under the default setting.) (4) Key in [1] to select "1. SYSTEM FIRMWARE (OS data)" and [4] to select "4. SYSTEM SOFTWARE (OS data)", and then press the [START] button. (5) When updating is completed properly, "Update successful completed Restart the MFP" is displayed on the touch panel.

[F550] Encryption partition error

Classification	Error item
Other service call	The encryption partition fails to be read and written.

Check item	Measures
Setting	• Recover the encryption key with [3] + [C] + [Start] → 5.

[F600] F/W update error

Classification	Error item
Other service call	The firmware fails to be updated.

Check item	Measures
Setting	1. Perform [3] + [C] + [POWER] -> [1] -> [START] for "Clear Error Flag in Software Installation". 2. Reinstall the firmware in error displayed on the F600 error screen.

[F700] Overwrite error

Classification	Error item
Other service call	Overwriting fails.

Check item	Measures
Setting	• If a service call occurs again after the reboot, replace the HDD.

[F800] Date error

Classification	Error item
Other service call	The year 2038 problem

Check item	Measures
Setting	Reset the date, and request the administrator to set the date and time. 1. Turn the power on while pressing the [6] and [CLEAR] button. 2. Select [2] key, and then press the [START] button. 3. Press the [START] button on the confirmation screen displayed. (The date is set to January 1st, 2011.) 4. Request the administrator to set the date and time.

[F900] Model information error

Classification	Error item
Other service call	Machine information alignment error: The machine information is damaged.

Check item	Measures
Setting	Recover the machine information by means of the following procedure. **Notes:** The following procedure is supported in the firmware with the version "2050" or later. If the version is before "2050", first upgrade it to "2050" or later with [4] + [9] -> [1] for "SYSTEM FIRMWARE (OS Data)". <Machine information recovery> (1) Turn the power ON while pressing [6] and the [CLEAR] button simultaneously. (2) Key in [3] to select "3. SRAM Re-Initialize Support", and then press the [START] button. (3) After the operation is completed, shut down the equipment by pressing the [ON/OFF] button. * If it is not recovered, perform the following procedure. (4) Turn the power ON while pressing [3] and the [CLEAR] button simultaneously. (5) Enter the password on the Authentication screen. If no password is set for Service, press the [OK] button without entering anything. If the High Security Mode has been set, enter "#1048#". (6) Key in [5] to select "5. Key Backup Restore", and then press the [START] button. (7) Key in [2] to select "2. Key FROM to SRAM", and then press the [START] button. (8) After the operation is completed, shut down the equipment by pressing the [ON/OFF] button.

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[F901] Engine speed error (first time)
[F901_1] Engine speed error (second time or later)

Classification	Error item
Other service call	The speed information of the LGC board is damaged. The LGC board in which is not corresponding to the equipment model is installed. The F901_1 error occurs when the power is turned ON if the LGC board is not replaced in the correct procedure after the F901 error.

Check item	Measures
Harness	Check if there is no problem in the harness for connecting to the following connectors. LGC board: CN311 and CN316
LGC board	Check if the LGC board in which is corresponded to the equipment model is installed. Check if the label color of the LGC board (indicated in the figure with the arrow) is corresponded to the equipment model (indicated on the rating label). e-STUDIO206L / e-STUDIO207L: White e-STUDIO256 / e-STUDIO257: Pink e-STUDIO306 / e-STUDIO307: Blue e-STUDIO356 / e-STUDIO357: Yellow e-STUDIO456 / e-STUDIO457: Green e-STUDIO506 / e-STUDIO507: Red • Position of the label to be checked If they are not corresponding correctly, replace the LGC board with the correct one by referring to the procedures described below. Reference: "9.3.5Procedures when replacing the LGC board" **Notes:** The F901_1 may occur especially when the equipment is not started up with the 08 mode according to the procedures when replacing the LGC board.
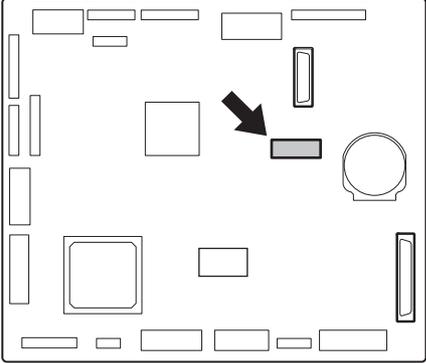
Replacement part	Remark
Harness	
LGC board	

8.3.22 Error in Internet FAX / Scanning Function

Notes:

When formatting the HDD ([5] + [C] + [POWER] -> 3 -> 1), all data in the shared folder, Electronic Filing, Address Book, template, etc. are erased. Back up these data before the initialization. Note that some of data cannot be backed up (Page 5-1).

[1] Internet FAX related error

[1C10] System access abnormality
[1C32] File deletion failure

Classification	Error item
Internet FAX related error	System access abnormality File deletion failure

Check item	Measures
Setting	• Turn the power OFF and then back ON. Perform the job in error again. • If the error still occurs, first, check if there are no jobs existing and then perform the HDD formatting ([5] + [C] + [POWER] -> 3 -> 1).

[1C11] Insufficient memory

Classification	Error item
Internet FAX related error	Insufficient memory

Check item	Measures
Setting	• When there are running jobs, perform the job in error again after the completion of the running jobs. • If the error still occurs, turn the power OFF and then back ON, and perform the job again.

[1C12] Message reception error
[1C13] Message transmission error

Classification	Error item
Internet FAX related error	Message reception error Message transmission error

Check item	Measures
Setting	• Turn the power OFF and then back ON. Perform the job in error again.

[1C14] Invalid parameter

Classification	Error item
Internet FAX related error	Invalid parameter

Check item	Measures
Setting	• When a template is used, form the template again. • If the error still occurs, turn the power OFF and then back ON, and perform the job again.

8

[1C15] Exceeding file capacity

Classification	Error item
Internet FAX related error	Exceeding file capacity

Check item	Measures
Setting	• Reset and extend the "Maximum send to E-mail/iFAX size" or reduce the number of pages and perform the job again.

[1C20] System management module access abnormality
[1C21] Job control module access abnormality
[1C22] Job control module access abnormality

Classification	Error item
Internet FAX related error	System management module access abnormality Job control module access abnormality

Check item	Measures
Setting	• Turn the power OFF and then back ON. Perform the job in error again. Check if there are no other running jobs and perform the HDD formatting ([5] + [C] + [POWER] -> 3 -> 1). If the recovery is still not completed, replace the SYS board.

[1C30] Directory creation failure
[1C31] File creation failure
[1C33] File access failure

Classification	Error item
Internet FAX related error	Directory creation failure File creation failure File access failure

Check item	Measures
Setting	• Check if the access privilege to the storage directory is writable. Check if the server or local disk has a sufficient space in disk capacity.

[1C40] Image conversion abnormality

Classification	Error item
Internet FAX related error	Image conversion abnormality

Check item	Measures
Setting	• Turn the power OFF and then back ON. Perform the job in error again. • Replace the main memory and perform the job again.

Replace parts	Remarks
Main memory	

[1C60] HDD full failure during processing

Classification	Error item
Internet FAX related error	HDD full failure during processing

Check item	Measures
Setting	• Delete the job in progress or being set or in the HOLD/ PRIVATE/PROOF/INVALID, and perform it again. • Check if the server or local disk has a sufficient space in disk capacity.

Replace parts	Remarks
Main memory	

[1C61] Address Book reading failure

Classification	Error item
Internet FAX related error	Address Book reading failure

Check item	Measures
Setting	• Turn the power OFF and then back ON. Perform the job in error again. • Reset the data in the Address Book and perform the job again.

[1C63] Terminal IP address unset

Classification	Error item
Internet FAX related error	Terminal IP address unset

Check item	Measures
Setting	• Reset the Terminal IP address. • Turn the power OFF and then back ON. Perform the job in error again.

[1C64] Terminal mail address unset

Classification	Error item
Internet FAX related error	Terminal mail address unset

Check item	Measures
Setting	• Reset the Terminal mail address. • Turn the power OFF and then back ON. Perform the job in error again.

[1C65] SMTP mail address unset

Classification	Error item
Internet FAX related error	SMTP mail address unset

Check item	Measures
Setting	• Reset the SMTP address and perform the job. • Turn the power OFF and then back ON. Perform the job in error again.

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[1C66] Server time-out error

Classification	Error item
Internet FAX related error	Server time-out error

Check item	Measures
Setting	• Check if the SMTP server is operating properly.

[1C69] SMTP server connection error

Classification	Error item
Internet FAX related error	SMTP server connection error

Check item	Measures
Setting	• Reset the login name or password of SMTP server and perform the job again. • Check if the SMTP server is operating properly.

[1C6B] Terminal mail address error

Classification	Error item
Internet FAX related error	Terminal mail address error

Check item	Measures
Setting	• Check the SMTP Authentication method. • Check if there is an illegal character in the Terminal mail address. • Set the correct SMTP Authentication method or delete the illegal character and reset the appropriate Terminal mail address, then perform the job again.

[1C6C] Destination mail address error

Classification	Error item
Internet FAX related error	Destination mail address error

Check item	Measures
Setting	• Check if there is an illegal character in the Destination mail address. • Delete the illegal character and reset the appropriate Destination mail address, then perform the job again.

[1C6D] System error

Classification	Error item
Internet FAX related error	System error

Check item	Measures
Setting	• Turn the power OFF and then back ON. Perform the job in error again. • If the error still occurs, replace the SYS board.

Replace parts	Remarks
SYS board	

[1C70] SMTP client OFF

Classification	Error item
Internet FAX related error	SMTP client OFF

Check item	Measures
Setting	• Set the SMTP valid and perform the job again.

[1C71] SMTP authentication ERROR

Classification	Error item
Internet FAX related error	SMTP authentication ERROR

Check item	Measures
Setting	• Check that SMTP authentication method, login name and password are correct, then perform authentication again.

[1C72] POP Before SMTP ERROR

Classification	Error item
Internet FAX related error	POP Before SMTP ERROR

Check item	Measures
Setting	• Check that both the POP Before SMTP setting and POP3 setting are correct, then perform authentication again.

[1C80] Internet FAX transmission failure when processing E-mail job received

Classification	Error item
Internet FAX related error	Internet FAX transmission failure when processing FAX job received

Check item	Measures
Setting	• Reset the "Received InternetFax Forward".

[1C81] Onramp Gateway transmission failure

Classification	Error item
Internet FAX related error	Onramp Gateway transmission failure

Check item	Measures
Setting	• Reset the mail box.

[1C82] Internet FAX transmission failure when processing FAX job received

Classification	Error item
Internet FAX related error	Internet FAX transmission failure when processing FAX job received

Check item	Measures
Setting	• Reset the "Received Fax Forward"

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[1CC1] Power failure

Classification	Error item
Internet FAX related error	Power failure

Check item	Measures
Setting	• Check if the power cable is connected properly and it is inserted securely. • Check if the power voltage is unstable.

[2] RFC related error

[2500] HOST NAME error (RFC: 500) / Destination mail address error (RFC: 500) / Terminal mail address error (RFC: 500)

[2501] HOST NAME error (RFC: 501) / Destination mail address error (RFC: 501) / Terminal mail address error (RFC: 501)

Classification	Error item
RFC related error	

Check item	Measures
Setting	• Check if the Terminal mail address and Destination mail address are correct. • Check if the mail server is operating properly. • Turn the power OFF and then back ON. Perform the job in error again.

[2503] Destination mail address error (RFC: 503)

[2504] HOST NAME error (RFC: 504)
[2551] Destination mail address error (RFC: 551)

Classification	Error item
RFC related error	

Check item	Measures
Setting	• Check if the mail server is operating properly. • Turn the power OFF and then back ON. Perform the job in error again. • If the error still occurs, replace the SYS board.

Replace parts	Remarks
SYS board	

[2550] Destination mail address error (RFC: 550)

Classification	Error item
RFC related error	

Check item	Measures
Setting	• Check the state of the mail box in the mail server.

[2552] Terminal/Destination mail address error (RFC: 552)

Classification	Error item
RFC related error	

Check item	Measures
Setting	• Confirm the size on the mail server. • Transmit again in text mode or with lower resolution or divide the document and transmit again. • If the error still occurs, turn the power OFF and then back ON. Perform the job in error again.

8

[2553] Destination mail address error (RFC: 553)

Classification	Error item
RFC related error	

Check item	Measures
Setting	• Check if there is an illegal character in the mail box in the mail server.

[3]   Electronic Filing related error

[2B10] No applicable job error in Job control module

[2B11] JOB status abnormality

[2B20] File library function error

[2B30] Insufficient disk space in BOX partition
[2BC0] Fatal failure occurred
[2BC1] System management module resource acquiring failure

Classification	Error item
Electronic Filing related error	

Check item	Measures
Setting	• Erase some data in the Electronic Filing or the shared folder and perform the job in error again (in case of [2B30]). • Turn the power OFF and then back ON. Perform the job in error again. • Check that there is no other job in progress, and format the HDD with [5] + [C] + [START]. • If the recovery is still not completed, replace the SYS board.

Replace parts	Remarks
SYS board	

[2B21] Exceeding file capacity

Classification	Error item
Electronic Filing related error	

Check item	Measures
Setting	• Reset and extend the "Maximum send to E-mail/Internet FAX size" or reduce the number of pages and perform the job again.

[2B31] Status of specified Electronic Filing or folder is undefined or being created/deleted

Classification	Error item
Electronic Filing related error	

Check item	Measures
Setting	• Check if the specified Electronic Filing or folder exists. (If no, this error would not occur.) • Delete the specified Electronic Filing or folder. • Perform the job in error again. • If the specified box/folder cannot be deleted, initialize the Electronic Filing with [5] + [C] + [START].

[2B32] Electronic Filing printing failure: Specified document can not be printed because of client's access (being edited, etc.)

Classification	Error item
Electronic Filing related error	

Check item	Measures
Setting	• Check if the specified document exists. (If no, this error would not occur.) Delete the specified document. Perform the job in error again.

8

[2B50] Image library error
[2B90] Insufficient memory capacity

Classification	Error item
Electronic Filing related error	

Check item	Measures
Setting	• Turn the power OFF and then back ON. Perform the job in error again. • If the error still occurs, replace the main memory. • Delete the job in progress or being set or in the HOLD/ PRIVATE/PROOF/INVALID, and retry the job in error. • Check that there is no other job in progress, and initialize the Electronic Filing with [5] + [C] + [START].

Replace parts	Remarks
Main memory	

[2B51] List library error

Classification	Error item
Electronic Filing related error	

Check item	Measures
Setting	• Check if the Function list can be printed. • If it can be printed, retry the job which was in error. • If it cannot be printed, replace the main memory. • If it still cannot be recovered, format the HDD with [5] + [C] + [START].

[2BA0] Invalid Box password

Classification	Error item
Electronic Filing related error	

Check item	Measures
Setting	• Check if the password is correct. • Reset the password. • When this error occurs when printing the data in the Electronic Filing, perform the printing with the administrator's password. • If it still cannot be recovered, or a password for the operation other than printing is invalid, initialize the Electronic Filing with [5] + [C] + [START].

[2BA1] A paper size or a color mode not supported in the Electronic Filing function is being selected.

Classification	Error item
Electronic Filing related error	A Paper size not supported in the Electronic Filing function is being selected.

Check item	Measures
Setting	• The specified paper size, color mode or resolution cannot be used. Check the setting.

[2BB1] Power failure
[2BD0] Power failure occurred during restoring of Electronic Filing

Classification	Error item
Electronic Filing related error	Power failure Power failure occurred during restoring of Electronic Filing

Check item	Measures
Setting	• Check if the power cable is connected properly and it is inserted securely. • Check if the power voltage is unstable.

[2BE0] Machine parameter reading error

Classification	Error item
Electronic Filing related error	

Check item	Measures
Setting	• Turn the power OFF and then back ON. Perform the job in error again.

[2BF0] Exceeding maximum number of pages

Classification	Error item
Electronic Filing related error	

Check item	Measures
Setting	• Reduce the number of inserting pages and perform the job again.

[2BF1] Exceeding maximum number of documents

Classification	Error item
Electronic Filing related error	

Check item	Measures
Setting	• Backup the documents in the box or folder to PC or delete them.

[2BF2] Exceeding maximum number of folders

Classification	Error item
Electronic Filing related error	

Check item	Measures
Setting	• Backup the folders in the box or folder to PC or delete them.

8

[4]   Remote scanning related error
[2A20] System management module resource acquiring failure

Classification	Error item
Remote scanning related error	

Check item	Measures
Setting	• Retry the job in error. • If the error still occurs, turn the power OFF and then back ON, then retry the job in error.

[2A31] Disabled WS Scan

Classification	Error item
Remote scanning related error	A job is performed while WS Scan function is disabled.

Check item	Measures
Setting	Check if WS Scan (Web Scanning Services) function is disabled on the TopAccess screen. If it is disabled, enable it.

[2A40] System error

Classification	Error item
Remote scanning related error	

Check item	Measures
Setting	• Turn the power OFF and then back ON, then retry the job in error.

[2A51] Power failure

Classification	Error item
Remote scanning related error	

Check item	Measures
Setting	• Check if the power supply voltage is inconstant.

[2A60] WS Scan user authentication failure

Classification	Error item
Remote scanning related error	WS Scan for job authentication failed.

Check item	Measures
Setting	• When "1" (TTEC's WIA driver) is set for 08-9749 and also Windows Fax&Scan is used Check if the user name that you used to log in Windows is a name registered as a user. • When MFP panel or EWB Scan is used Check if the login user name is a name registered as a user.

[2A70] Remote Scan privilege check error

Classification	Error item
Remote scanning related error	A job is performed by a user without Remote Scan privilege.

Check item	Measures
Setting	Check if correct privilege is given to the user.

[2A71] WS Scan privilege check error

Classification	Error item
Remote scanning related error	A job is performed by a user without WS Scan privilege.

Check item	Measures
Setting	Check if correct privilege is given to the user.

[2A72] e-Filing data access privilege check error (Scan Utility)

Classification	Error item
Remote scanning related error	A user without e-Filing data access privilege tried to use Scan utility.

Check item	Measures
Setting	Check if correct privilege is given to the user.

8

[5]   E-mail related error

[2C10] System access abnormality
[2C32] File deletion failure

Classification	Error item
E-mail related error	

Check item	Measures
Setting	• Turn the power OFF and then back ON. Perform the job in error again. • If the error still occurs, check that there is no job, and format the HDD with [5] + [C] + [START].

[2C11] Insufficient memory

Classification	Error item
E-mail related error	

Check item	Measures
Setting	• When there are running jobs, perform the job in error again after the completion of the running jobs. • If the error still occurs, turn the power OFF and then back ON, and perform the job again.

[2C12] Message reception error
[2C13] Message transmission error

Classification	Error item
E-mail related error	

Check item	Measures
Setting	• Turn the power OFF and then back ON. Perform the job in error again.

[2C14] Invalid parameter

Classification	Error item
E-mail related error	

Check item	Measures
Setting	• When a template is used, form the template again. • If the error still occurs, turn the power OFF and then back ON, and perform the job again.

[2C15] Exceeding file capacity

Classification	Error item
E-mail related error	

Check item	Measures
Setting	• Reset and extend the "Maximum send to E-mail/iFAX size" or reduce the number of pages and perform the job again.

[2C20] System management module access abnormality

[2C21] Job control module access abnormality
[2C22] Job control module access abnormality

Classification	Error item
E-mail related error	

Check item	Measures
Setting	• Turn the power OFF and then back ON. Perform the job in error again. • Check that there is no other job in progress, and format the HDD with [5] + [C] + [START]. • If the recovery is still not completed, replace the SYS board.

Replace parts	Remarks
SYS board	

[2C30] Directory creation failure

[2C31] File creation failure
[2C33] File access failure

Classification	Error item
E-mail related error	

Check item	Measures
Setting	• Check if the access privilege to the storage directory is writable. • Check if the server or local disk has a sufficient space in disk capacity.

[2C40] Image conversion abnormality
[2C62] Memory acquiring failure

Classification	Error item
E-mail related error	

Check item	Measures
Setting	• Turn the power OFF and then back ON. Perform the job in error again. • Replace the main memory and perform the job again.

Replace parts	Remarks
Main memory	

[2C43] Encryption error

Classification	Error item
E-mail related error	

Check item	Measures
Setting	• Turn the power OFF and then back ON. Perform the job in error again.

[2C44] Encryption PDF enforced mode error

Classification	Error item
E-mail related error	

Check item	Measures
Setting	• Reset the encryption and perform the job in error again. • If an image file not encrypted is created, consult your administrators.

[2C45] Meta data creation error (Scan to Email)

Classification	Error item
E-mail related error	Creation of meta data failed when a user tried to perform meta scan for Scan to Email.

Check item	Measures
Setting	Check the template settings. Perform the job in error again. If the error still occurs, turn the power OFF and then back ON, and then perform the job in error again.

[2C60] HDD full failure during processing

Classification	Error item
E-mail related error	

Check item	Measures
Setting	• Delete the job in progress or being set or in the HOLD/PRIVATE/PROOF/INVALID, and perform it again. • Check if the server or local disk has a sufficient space in disk capacity. • Check that there is enough space in the server or local disk.

[2C61] Address Book reading failure

Classification	Error item
E-mail related error	

Check item	Measures
Setting	• Turn the power OFF and then back ON. Perform the job in error again. • Reset the data in the Address Book and perform the job again.

[2C63] Terminal IP address unset

Classification	Error item
E-mail related error	

Check item	Measures
Setting	• Reset the Terminal IP address. • Turn the power OFF and then back ON. Perform the job in error again.

[2C64] Terminal mail address unset

Classification	Error item
E-mail related error	

Check item	Measures
Setting	• Reset the Terminal mail address. • Turn the power OFF and then back ON. Perform the job in error again.

[2C65] SMTP address unset

Classification	Error item
E-mail related error	

Check item	Measures
Setting	• Reset the SMTP address and perform the job. • Turn the power OFF and then back ON. Perform the job in error again.

[2C66] Server time-out error

Classification	Error item
E-mail related error	

Check item	Measures
Setting	• Check if the SMTP server is operating properly.

[2C69] SMTP server connection error

Classification	Error item
E-mail related error	

Check item	Measures
Setting	• Reset the login name and password of SMTP server and perform the job again. • Check if the SMTP server is operating properly.

[2C6A] HOST NAME error (No RFC error)

Classification	Error item
E-mail related error	

Check item	Measures
Setting	• Check if there is an illegal character in the device name. • Delete the illegal character and reset the appropriate device name.

[2C6B] Terminal mail address error

Classification	Error item
E-mail related error	

Check item	Measures
Setting	• Check the SMTP Authentication method. • Check if there is an illegal character in the Terminal mail address. • Set the correct SMTP Authentication method or delete the illegal character and reset the appropriate Terminal mail address, then perform the job again.

[2C6C] Destination mail address error (No RFC error)

Classification	Error item
E-mail related error	

Check item	Measures
Setting	• Check if there is an illegal character in the Destination mail address. • Delete the illegal character and reset the appropriate Destination mail address, then perform the job again.

[2C70] SMTP client OFF

Classification	Error item
E-mail related error	

Check item	Measures
Setting	• Set the SMTP valid and perform the job again.

[2C71] SMTP authentication ERROR

Classification	Error item
E-mail related error	

Check item	Measures
Setting	• Check that SMTP authentication method, login name and password are correct, then perform authentication again.

[2C72] POP Before SMTP ERROR

Classification	Error item
E-mail related error	

Check item	Measures
Setting	• Check that both the POP Before SMTP setting and POP3 setting are correct, then perform authentication again.

[2C80] E-mail transmission failure when processing E-mail job received

Classification	Error item
E-mail related error	

Check item	Measures
Setting	• Reset the "Received InternetFax Forward".

[2C81] Process failure of FAX job received

Classification	Error item
E-mail related error	

Check item	Measures
Setting	• Reset the setting of the mail box or "Received InternetFax Forward".

[2CC1] Power failure

Classification	Error item
E-mail related error	

Check item	Measures
Setting	• Check if the power cable is connected properly and it is inserted securely. • Check if the power voltage is unstable.

8

[6]   File sharing related error

[2D10] System access abnormality

[2D32] File deletion failure

[2DA6] File deletion failure
[2DA7] Resource acquiring failure

Classification	Error item
File sharing related error	System access abnormality File deletion failure Resource acquiring failure

Check item	Measures
Setting	• Delete some files in the shared folder by using Explorer because of automatic/manual file deletion failure (in case of [2DA6]) • Turn the power OFF and then back ON. Perform the job in error again. • If the error still occurs, check that there is no job, and format the HDD with [5] + [C] + [START].

[2D11] Insufficient memory

Classification	Error item
File sharing related error	Insufficient memory

Check item	Measures
Setting	• When there are running jobs, perform the job in error again after the completion of the running jobs. • If the error still occurs, turn the power OFF and then back ON, and perform the job again.

[2D12] Message reception error
[2D13] Message transmission error

Classification	Error item
File sharing related error	Message reception error Message transmission error

Check item	Measures
Setting	• Turn the power OFF and then back ON. Perform the job in error again.

[2D14] Invalid parameter
[2D61] Invalid parameter

Classification	Error item
File sharing related error	Invalid parameter

Check item	Measures
Setting	• When a template is used, form the template again. • If the error still occurs, turn the power OFF and then back ON, and perform the job again.

[2D15] Exceeding the maximum size for file sharing

Classification	Error item
File sharing related error	Exceeding the maximum size for file sharing

Check item	Measures
Setting	• Divide the file in error into several files and retry. Or retry the job in a single-page format.

[2D20] System management module access abnormality
[2D21] Job control module access abnormality
[2D22] Job control module access abnormality
[2D60] File library access abnormality

Classification	Error item
File sharing related error	System management module access abnormality Job control module access abnormality File library access abnormality

Check item	Measures
Setting	• Turn the power OFF and then back ON. Perform the job in error again. Check if there are no other running jobs and perform the HDD formatting ([5] + [C] + [POWER] -> 3 -> 1). If the recovery is still not completed, replace the SYS board.

[2D30] Directory creation failure

[2D31] File creation failure
[2D33] File access failure

Classification	Error item
File sharing related error	Directory creation failure File creation failure File access failure

Check item	Measures
Setting	• Check if the access privilege to the storage directory is writable. • Check if the server or local disk has a sufficient space in disk capacity.

[2D40] Image conversion abnormality

Classification	Error item
File sharing related error	Image conversion abnormality

Check item	Measures
Setting	• Turn the power OFF and then back ON. Perform the job in error again. • Replace the main memory and perform the job again. • If the error still occurs, check that there is no job, and initialize the shared folder with [5] + [C] + [START].

[2D43] Encryption error

Classification	Error item
File sharing related error	Encryption error

Check item	Measures
Setting	• Turn the power OFF and then back ON. Perform the job in error again.

[2D44] Encryption PDF enforced mode error

Classification	Error item
File sharing related error	Encryption PDF enforced mode error

Check item	Measures
Setting	• Reset the encryption and perform the job in error again. • If an image file not encrypted is created, consult your administrators.

[2D45] Meta data creation error (Scan to File)

Classification	Error item
File sharing related error	Creation of meta data failed when a user tried to perform meta scan for Scan to File.

Check item	Measures
Setting	Check the template settings. Perform the job in error again. If the error still occurs, turn the power OFF and then back ON, and then perform the job in error again.

[2D62] File server connection error

Classification	Error item
File sharing related error	File server connection error

Check item	Measures
Setting	• Check the IP address or path of the server. • Check if the server is operating properly.

[2D63] Invalid network path

Classification	Error item
File sharing related error	Invalid network path

Check item	Measures
Setting	• Check the network path. • If the path is correct, turn the power OFF and then back ON, and perform the job again.

[2D64] Login failure

Classification	Error item
File sharing related error	Login failure

Check item	Measures
Setting	• Reset the login name and password. Perform the job. • Check if the account of the server is properly set up.

[2D65] Exceeding documents in folder: Creating new document is failed

Classification	Error item
File sharing related error	Exceeding documents in folder: Creating new document is failed

Check item	Measures
Setting	• Delete some documents in the folder.

[2D66] Storage capacity full failure during processing

Classification	Error item
File sharing related error	Storage capacity full failure during processing

Check item	Measures
Setting	• Delete the job in progress or being set or in the HOLD/PRIVATE/PROOF/INVALID, and perform it again. • Check if the server or local disk has a sufficient space in disk capacity. • Check that there is enough space in the server or local disk.

[2D67] FTP service not available

Classification	Error item
File sharing related error	

Check item	Measures
Setting	• Check if the setting of FTP service is valid.

[2D68] File sharing service not available

Classification	Error item
File sharing related error	**File sharing service not available**

Check item	Measures
Setting	• Check if the setting of SMB is valid.

[2D69] NetWare service not available

Classification	Error item
File sharing related error	When a user tried to perform Scan to File with NetWare protocol even though the NetWare setting is disabled, a message notifies the user that NetWare service is disabled.

Check item	Measures
Setting	Check if the Netware setting is enabled.

[2DC1] Power failure

Classification	Error item
File sharing related error	Power failure

Check item	Measures
Setting	• Check if the power cable is connected properly and it is inserted securely. • Check if the power voltage is unstable.

[2E10] USB storage system access abnormality

Classification	Error item
File sharing related error	Job status is invalid.

Check item	Measures
Setting	Turn the power OFF and then back ON. Perform the job in error again. If the error still occurs, check that there is no job, and format the HDD with [5] + [C] + [START].

[2E11] Insufficient memory capacity for USB storage

Classification	Error item
File sharing related error	Memory in the USB folder is not sufficient.

Check item	Measures
Setting	If there is a job in progress, perform the job in error again after the job in progress is finished. If the error still occurs, turn the power OFF and then back ON, and then perform the job in error again.

[2E12] Message reception error in USB storage
[2E13] Message transmission error in USB storage

Classification	Error item
File sharing related error	Job status is invalid.

Check item	Measures
Setting	Turn the power OFF and then back ON. Perform the job in error again.

[2E14] Invalid parameter for USB storage

Classification	Error item
File sharing related error	The specified parameter is invalid.

Check item	Measures
Setting	If a template is being used, recreate the template. If the error still occurs, turn the power OFF and then back ON. Perform the job in error again.

[2E15] Exceeding maximum file capacity

Classification	Error item
File sharing related error	There are too many files in the folder.

Check item	Measures
Setting	Delete some files in the folder. Perform the job in error again.

[2E30] Directory creation failure in USB storage

Classification	Error item
File sharing related error	Creation of a directory failed.

Check item	Measures
Setting	Check if access privilege to the storage directory is writable. Check if the server or local disk has sufficient space in its disk capacity.

[2E31] File creation failure in USB storage

Classification	Error item
File sharing related error	Creation of a file failed.

Check item	Measures
Setting	Check if access privilege to the storage directory is writable. Check if the server or local disk has sufficient space in its disk capacity.

[2E32] File deletion failure in USB storage

Classification	Error item
File sharing related error	Deletion of a file failed.

Check item	Measures
Setting	Turn the power OFF and then back ON. Perform the job in error again. If the error still occurs, check that there is no job, and format the HDD with [5] + [C] + [START].

[2E33] File access failure in USB storage

Classification	Error item
File sharing related error	Access to a file failed.

Check item	Measures
Setting	Check if access privilege to the storage directory is writable. Check if the server or local disk has sufficient space in its disk capacity.

[2E40] Image conversion abnormality in USB storage

Classification	Error item
File sharing related error	Conversion of image file format failed.

Check item	Measures
Setting	Turn the power OFF and then back ON. Perform the job in error again. Replace the main memory and then perform the job in error again.

[2E43] Encryption failure in USB storage

Classification	Error item
File sharing related error	Creation of a file failed due to PDF encryption error.

Check item	Measures
Setting	Turn the power OFF and then back ON. Perform the job in error again.

[2E44] Encryption PDF enforced mode error in USB storage

Classification	Error item
File sharing related error	Creation of an image file is not permitted.

Check item	Measures
Setting	Reset the encryption and perform the job in error again. To create an image file not encrypted, consult your administrator.

[2E45] Meta data creation error in USB storage (Scan to File)

Classification	Error item
File sharing related error	Creation of meta data failed.

Check item	Measures
Setting	Check the template settings. Perform the job in error again. If the error still occurs, turn the power OFF and then back ON, and then perform the job in error again.

[2E65] File creation error due to insufficient USB folder capacity

Classification	Error item
File sharing related error	Creation of a new file failed because there were too many files in the USB folder

Check item	Measures
Setting	Delete unnecessary files in the folder.

[2E66] HDD full failure in USB storage

Classification	Error item
File sharing related error	HDD became full while storing data in HDD.

Check item	Measures
Setting	Delete the job in progress or being set or in the HOLD/ PRIVATE/PROOF/INVALID, and perform it again. Check if the server or local disk has a sufficient space in disk capacity. Check that there is enough space in the USB memory.

[2EC1] Power failure in USB storage

Classification	Error item
File sharing related error	Power failure occurred.

Check item	Measures
Setting	Check if the power cable is connected properly and inserted securely. Check if the power voltage is unstable.

[7] E-mail reception related error

[3A10] E-mail MIME error

Classification	Error item
E-mail reception related error	E-mail MIME error

Check item	Measures
Setting	• The format of the mail is not corresponding to MIME 1.0. • Request the sender to retransmit the mail in the format corresponding to MIME 1.0.

[3A20] E-mail analysis error
[3B10] E-mail format error
[3B40] E-mail decode error

Classification	Error item
E-mail reception related error	E-mail analysis error E-mail format error E-mail decode error

Check item	Measures
Setting	• These errors occur when the mail data is damaged from the transmission to the reception of the mail. • Request the sender to retransmit the mail.

[3A30] Partial mail time-out error

Classification	Error item
E-mail reception related error	Partial mail time-out error

Check item	Measures
Setting	• The partial mail is not received in a specified period of time. • Request the sender to retransmit the partial mail, or set the time-out period of the partial mail longer.

[3A40] Partial mail related error

Classification	Error item
E-mail reception related error	Partial mail related error

Check item	Measures
Setting	• The format of the partial mail is not corresponding to this equipment. • Request the sender to remake and retransmit the partial mail in RFC2046 format.

[3A50] Insufficient HDD capacity error

Classification	Error item
E-mail reception related error	Insufficient HDD capacity error

Check item	Measures
Setting	• These errors occur when the HDD capacity is not sufficient for a temporary concentration of the jobs, etc. • Request the sender to retransmit after a certain period of time, or divide the mail into more than one. • Insufficient HDD capacity error also occurs when printing is disabled for no printing paper. • In this case, supply the printing paper.

[3A70] Warning of partial mail interruption

Classification	Error item
E-mail reception related error	Warning of partial mail interruption

Check item	Measures
Setting	• This error occurs when the partial mail reception setting becomes OFF during the partial mail reception. • Reset the partial mail reception setting ON and then request the sender to retransmit the mail.

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[3A80] Partial mail reception setting OFF

Classification	Error item
E-mail reception related error	

Check item	Measures
Setting	• Reset the partial mail reception setting ON and then request the sender to retransmit the mail.

[3B20] Content-Type error

Classification	Error item
E-mail reception related error	Content-Type error

Check item	Measures
Setting	• The format of the attached file is not supported by this equipment (TIFF-FX). • Request the sender to retransmit the file in TIFF-FX.

[3C10] TIFF analysis error
[3C13] TIFF analysis error

Classification	Error item
E-mail reception related error	TIFF analysis error

Check item	Measures
Setting	• These errors occur when the mail data is damaged from the transmission to the reception of the mail, or when the format of the attached file is not supported by this equipment (TIFF-FX). • Request the sender to retransmit the mail.

[3C20] TIFF compression error

Classification	Error item
E-mail reception related error	TIFF compression error

Check item	Measures
Setting	• The compression method of the TIFF file is not acceptable for this equipment. (Acceptable: MH/MR/MMR/JBIG) • Request the sender to retransmit the file in the acceptable compression method.

[3C30] TIFF resolution error

Classification	Error item
E-mail reception related error	TIFF resolution error

Check item	Measures
Setting	• The resolution of the TIFF file is not acceptable for this equipment. (Acceptable: 200 x 100, 200 x 200, 200 x 400, 400 x 400, 300 x 300 or equivalent) • Request the sender to retransmit the file in the acceptable resolution.

[3C40] TIFF paper size error

Classification	Error item
E-mail reception related error	TIFF paper size error

Check item	Measures
Setting	• The paper size of the TIFF file is not acceptable for this equipment. (Acceptable: A4, B4, A3, B5, LT, LG, LD or ST) • Request the sender to retransmit the file in the acceptable paper size.

[3C50] Offramp destination error

Classification	Error item
E-mail reception related error	Offramp destination error

Check item	Measures
Setting	• These errors occur when the FAX number of the offramp destination is incorrect. • Request the sender to correct the FAX number of offramp destination and then retransmit the mail.

[3C60] Offramp security error

Classification	Error item
E-mail reception related error	Offramp security error

Check item	Measures
Setting	• These errors occur when the FAX number of the offramp destination is not on the Address Book. • Check if the FAX number of the offramp destination is correctly entered or the number has not been changed.

[3C70] Power failure error

Classification	Error item
E-mail reception related error	Power failure error

Check item	Measures
Setting	• Check if the mail is recovered after turning ON the power again. • Request the sender to retransmit the mail if it is not recovered.

[3C90] OffRamp Fax transmission disable error

Classification	Error item
E-mail reception related error	OffRamp Fax transmission disable error

Check item	Measures
Setting	• OffRamp Fax transmission disable error has been detected in the received mail. • Confirm if the Fax Send Function of MFP setting is disable or not.

[3D10] Destination address error

Classification	Error item
E-mail reception related error	Destination address error

Check item	Measures
Setting	• Check if the setting of the server or DNS is correct. Correct if any of the setting is incorrect. • When the content of the setting is correct, confirm the sender if the destination is correct.

[3D20] Offramp destination limitation error

Classification	Error item
E-mail reception related error	Offramp destination limitation error

Check item	Measures
Setting	• Inform the sender that the transfer of the FAX data over 40 is not supported.

[3D30] FAX board error

Classification	Error item
E-mail reception related error	FAX board error

Check item	Measures
Setting	• This error occurs when the FAX board is not installed or the FAX board has an abnormality. • Check if the FAX board is correctly connected.

[3E10] POP3 server connection error

Classification	Error item
E-mail reception related error	POP3 server connection error

Check item	Measures
Setting	• Check if the IP address or domain name of the POP3 server set for this equipment is correct, or check if POP3 server to be connected is operating properly.

[3E20] POP3 server connection time-out error

Classification	Error item
E-mail reception related error	POP3 server connection time-out error

Check item	Measures
Setting	• Check if POP3 server to be connected is operating properly. • Check if the LAN cable is correctly connected.

[3E30] POP3 login error

Classification	Error item
E-mail reception related error	POP3 login error

Check item	Measures
Setting	• Check if the POP3 server login name and password set for this equipment are correct.

[3E40] POP3 Login Type ERROR

Classification	Error item
E-mail reception related error	POP3 Login Type ERROR

Check item	Measures
Setting	• Check that the login type (Auto, POP3 or APOP) to the POP3 server is correct.

[3F10] File I/O error
[3F20] File I/O error

Classification	Error item
E-mail reception related error	File I/O error

Check item	Measures
Setting	• These errors occur when the mail data is not transferred properly to the HDD. • Request the sender to retransmit the mail. • Replace the HDD if the error still occurs after retransmission.

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8.3.23 Printer function error

[4011] Print job cancellation

Classification	Error item
Printer function error	Print job cancellation

Check item	Measures
Setting	• This message appears when deleting the job on the screen.

[4021] Print job power failure

Classification	Error item
Printer function error	Print job power failure

Check item	Measures
Setting	• When there are running jobs, perform the job in error again after the completion of the running jobs. If the error still occurs, turn the power OFF and then back ON, and perform the job again.

[4030] No printer kit/Invalid

Classification	Error item
TopAccess related error	No printer kit/Invalid

Check item	Measures
Setting	• Install the print kit and perform the job again. • Register it officially and perform the job again.

[4031] HDD full error

Classification	Error item
TopAccess related error	HDD full error

Check item	Measures
Setting	• Delete unnecessary private print jobs and invalid department print jobs.

[4032] Private-print-only error

Classification	Error item
TopAccess related error	Private-print-only error

Check item	Measures
Setting	• Select "Private", and then perform the printing again.

[4033] Printing data storing limitation error

Classification	Error item
TopAccess related error	**Printing data storing limitation error**

Check item	Measures
Setting	• Select "Normal Print", and then perform the printing again.

[4034] e-Filing storing limitation error

Classification	Error item
TopAccess related error	e-Filing storing limitation error

Check item	Measures
Setting	• Select "Normal Print", and then perform the printing again.

[4035] Local file storing limitation error

Classification	Error item
TopAccess related error	Local file storing limitation error

Check item	Measures
Setting	• Select "Remote" (SMB/FTP) for the destination of the file to save.

[4037] Hardcopy security printing error

Classification	Error item
TopAccess related error	Hardcopy security printing error

Check item	Measures
Setting	• Hardcopy security printing cannot be performed because the function is restricted in the self-diagnosis mode.

[4038] Restriction error (only for hold print jobs)

Classification	Error item
TopAccess related error	Restriction error (only for hold print jobs)

Check item	Measures
Setting	• Select [Hold Print] to retry

[4039] Restriction error (only for private/hold print jobs)

Classification	Error item
TopAccess related error	Restriction error (only for private/hold print jobs)

Check item	Measures
Setting	• Select [Private Print] or [Hold Print] to retry

[4040] Not being authorized to perform JOB

Classification	Error item
TopAccess related error	Not being authorized to perform JOB

Check item	Measures
Setting	• Confirm the administrator for the JOB authorization.

[4041] User authentication error

Classification	Error item
TopAccess related error	User authentication error

Check item	Measures
Setting	• Perform the authentication or register as a user, and then perform the printing again.

[4042] Department authentication error

Classification	Error item
TopAccess related error	Department authentication error

Check item	Measures
Setting	• Check department information registered in this equipment.

[4050] Problem in LDAP server connection or LDAP server authorization settings

Classification	Error item
TopAccess related error	Problem in LDAP server connection or LDAP server authorization settings

Check item	Measures
Setting	• Confirm the administrator for the LDAP server connection or LDAP server authorization settings.

[4111] Quota over error (The number of the assigned pages set by department and user management has reached 0.)

Classification	Error item
Printer function error	**Quota over error (The number of the assigned pages set by department and user management has reached 0.)**

Check item	Measures
Setting	• The number of the assigned pages set by the department and the number of those assigned by user management have both reached 0. Assign the number of the pages again or perform initialization.

[4112] Quota over error (The number of the assigned pages set by user management has reached 0.

Classification	Error item
Printer function error	**Quota over error (The number of the assigned pages set by user management has reached 0.**

Check item	Measures
Setting	• The number of the assigned pages set by the user management has reached 0. Assign the number of the pages again or perform initialization.

[4113] Quota over error (The number of the assigned pages set by department management has reached 0.

Classification	Error item
Printer function error	**Quota over error (The number of the assigned pages set by department management has reached 0.**

Check item	Measures
Setting	• The number of the assigned pages set by the department management has reached 0. Assign the number of the pages again or perform initialization.

[4121]Job canceling due to external counter error

Classification	Error item
TopAccess related error	Job canceling due to external counter error

Check item	Measures
Setting	1. Drop a coin in. Perform the print job in error again. 2. Insert a key card and then perform the print job in error again, or consult your administrator. 3. Insert a key copy counter and then perform the print job in error again. 4. Reset the scheduled print job and then perform the print job in error again.

[4214] Fax/Internet Fax transmission limitation error

Classification	Error item
TopAccess related error	Fax/Internet Fax transmission limitation error

Check item	Measures
Setting	• Check the settings of this equipment.

[4241] No Printer kit / Printer function disabled

Classification	Error item
Printer function error	Printing functions are disabled since the Printer kit or Printer/Scanner kit is not installed firmly

Check item	Measures
Setting	• Check that the Printer kit or Printer/Scanner kit is installed firmly.

[4242] No Scanner kit / Scanner function disabled

Classification	Error item
Scanner function error	Internet FAX or storing to a share folder function using a network fax driver is disabled since the Scanner kit is not installed firmly, but the Printer kit is installed.

Check item	Measures
Setting	• Check that the Scanner kit is installed firmly.

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[4300] Job execution error due to functional restrictions

Classification	Error item
TopAccess related error	Job execution error due to functional restrictions

Check item	Measures
Setting	• USB direct printing cannot be performed because the function is restricted by the self-diagnosis. Check the self-diagnosis setting.

[4301] File conversion error

Classification	Error item
TopAccess related error	Printing a file whose format is not supported, or an invalid file

Check item	Measures
Setting	• The format of this file (other than PDF and JPEG) is not supported in USB direct printing, or the file is invalid. Check the file.

[4311] Not being authorized to perform JOB

Classification	Error item
TopAccess related error	Not being authorized to perform JOB

Check item	Measures
Setting	• Confirm the administrator for the JOB authorization.

[4312] Not authorized to store a file

Classification	Error item
TopAccess related error	Not authorized to store a file

Check item	Measures
Setting	• The user has not been authorized to perform this operation. Ask your administrator.

[4313] No privilege for e-Filing storage
[4314] No privilege for Fax / Internet FAX transmission

Classification	Error item
TopAccess related error	No privilege for e-Filing storage No privilege for Fax / Internet FAX transmission

Check item	Measures
Setting	• Check the privilege given, or request the administrator to add the necessary privilege.

[4411] Image data creation failure)

Classification	Error item
TopAccess related error	Image data creation failure)

Check item	Measures
Setting	Check if the file to be printed is broken. Perform printing again or use another printer driver. • Network print: Perform the print job in error again, or use another printer driver (e.g.; PS3, Universal). • Direct print: Check if the file is corrupted (e.g. checking if the file is displayed on your PC monitor), or check if the file format is supported by this equipment.

[4412] Double-sign encoding error

Classification	Error item
TopAccess related error	Double-sign encoding error

Check item	Measures
Setting	• Printing using this function cannot be performed due to a decoding process error which occurs because the PDF file is encrypted incorrectly or encrypted in a language not supported.

[4611] Font download failure (reached the registration limit)
[4612] Font download failure (HDD full)

Classification	Error item
TopAccess related error	Font download failure (reached the registration limit) Font download failure (HDD full)

Check item	Measures
Setting	• Delete one or more font already registered.

[4613] Font download failure (others)

Classification	Error item
TopAccess related error	Font download failure (others)

Check item	Measures
Setting	• Reattempt the downloading. Recreate font data and reattempt the downloading.

[4621] Font deletion failure

Classification	Error item
TopAccess related error	Font deletion failure

Check item	Measures
Setting	• Check if the font to be deleted is registered (or pre-registered) in this equipment.

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[4F10] System abnormality

Classification	Error item
TopAccess related error	Printing was not performed successfully due to other abnormalities.

Check item	Measures
Setting	1. Perform the job in error again. If the error still occurs, turn the power OFF and then back ON, and perform the job again. 2. Collect the debug log with USB media. 📖 P. 8-3 "8.1.2 Collection of debug logs with a USB device" 3. Initialize HDD. Refer to step 3 and later in [E]Replace / Format HDDin 📖 P. 9-19 "9.3.3 Precautions and procedures when replacing the HDD".

8.3.24 TopAccess related error

[5010] Internal setting error

Classification	Error item
Communication error with external application	There is a print job, a proof print job, a private print job, a print job without a set department code, a scan job or a fax job remaining in this equipment.

Check item	Measures
Setting	Delete the remaining jobs. Turn the power OFF and then back ON. Until the initial registration is begun, do not press any button on the control panel or start any print or fax job.

[5012] Authentication error

Classification	Error item
Communication error with external application	A temporary password downloaded from e-Bridge and entered in this equipment is not valid, or the permanent password set in the e-Bridge is not valid.

Check item	Measures
Setting	Confirm the user name and tentative password.

[5013] e-Bridge communication error

Classification	Error item
Communication error with external application	Communication is attempted while the e-Bridge is enabled for some reason such as version upgrade.

Check item	Measures
Setting	Check if the MFP is connected to the eBR2 server.

[5014] No SSL certificate

Classification	Error item
Communication error with external application	There is no SSL certificate or the certificate is not in a correct file format.

Check item	Measures
Setting	Install the correct SSL certificate.

[5015] Invalid SSL certificate

Classification	Error item
Communication error with external application	SSL certificate is not valid.

Check item	Measures
Setting	Install the correct SSL certificate.

[5016] Expired SSL certificate

Classification	Error item
Communication error with external application	SSL certificate is expired.

Check item	Measures
Setting	Set the correct time.

[5017] Other SSL certificate related error

Classification	Error item
Communication error with external application	SSL certificate is invalid.

Check item	Measures
Setting	Install the correct SSL certificate.

[5018] Invalid DNS error

Classification	Error item
Communication error with external application	DNS address is invalid.

Check item	Measures
Setting	Set the correct DNS address. If any setting is needed in DNS, consult your administrators.

[5019] Connection error

Classification	Error item
Communication error with external application	Settings for initial URL and proxy are incorrect.

Check item	Measures
Setting	Perform the correct settings for initial URL and proxy.

[501A] Proxy error

Classification	Error item
Communication error with external application	IP address or port for proxy setting is invalid.

Check item	Measures
Setting	Set the correct IP address or port for the proxy setting. If any setting is needed in proxy, consult your administrators.

[501B] No URL (host/port) or invalid path

Classification	Error item
Communication error with external application	Initial URL is invalid.

Check item	Measures
Setting	Set the correct initial URL.

[5030] HTTP communication error

Classification	Error item
Communication error with external application	An error in the HTTP communication

Check item	Measures
Setting	Check the URL for communication. Check that the valid IP address is assigned to connect to the server.

[50FF] eBR2 internal error

Classification	Error item
MFP internal error	A fatal error occurred in the MFP

Check item	Measures
Setting	Restart the MFP, and then try again.

[5110] Toner cartridge detection error

Classification	Error item
TopAccess related error	Toner cartridge detection error.

Check item	Measures
Setting	• Check if the toner cartridge is installed properly. • Check if the toner cartridge detection sensor operates properly.

[5BD0] Power failure during restoration

Classification	Error item
TopAccess related error	Power supply is cut off during the restoration of database sent from TopAccess

Check item	Measures
Setting	• Check if the power cable is connected properly and is inserted securely. • Check if the power voltage is unstable. • Reattempt the restoration of the database (Address Book, templates, F-code (Mailbox) or user information).

[5C10] FAX Unit attachment error

Classification	Error item
TopAccess related error	Network FAX is disabled because the FAX Unit is not attached

Check item	Measures
Setting	• Check if the FAX Unit is attached. • Check if there is any damage or abnormality on the FAX board. • Check if the connector on the FAX board is connected properly.

[5C11] Network FAX transmission error

Classification	Error item
TopAccess related error	The network FAX job failed because the specified address is not registered in the Address Book

Check item	Measures
Setting	The address specified for the network FAX is not registered on the Address Book. Register it.

[5C20] Data import from TopAccess succeeded

Classification	Error item
TopAccess related error	Displayed when data have been imported from TopAccess (Not an error message)

Check item	Measures
Setting	Data (Address book, department or user information) have been imported successfully. No troubleshooting is required.

[5C21] Error in data import from TopAccess

Classification	Error item
TopAccess related error	Data import from TopAccess failed due to invalid file format

Check item	Measures
Setting	Data import failed because the specified file (Address Book, department or user information) is incorrect or damaged. Check if the file is incorrect or damaged, and then reattempt the import.

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8.3.25   MFP access error

[6007] Unsuccessful User Login to MFP

Classification	Error item
MFP access error	User authentication cannot be done because connection to the authentication server has failed.

Check item	Measures
Setting	Check if the operating status of the server and connection from an MFP have been confirmed.

[6008] Failed to connect on External Role Base Access Control (LDAP) Server

Classification	Error item
MFP access error	User authentication cannot be done because connection to an external RBAC server has failed.

Check item	Measures
Setting	Check if the operating status of the server and connection from the MFP have been confirmed.

[6013] Connection failure to the authentication server

Classification	Error item
MFP access error	Failed to connect to the authentication server

Check item	Measures
Setting	Check that the server setting is proper by accessing [TopAccess] -> [Administration] -> [Maintenance] -> [Directory Service]. When "Auto" is selected as the authentication method, this error may output to the log depending on the environment.

[6014] The authentication server that cannot be accessed is detected

Classification	Error item
MFP access error	The authentication server that cannot be accessed is detected

Check item	Measures
Setting	Check if the authentication server is down since the access to the authentication server is not available. The unavailable authentication server is accessed again if the time set in 08-8788 passes or the power of the equipment is turned OFF and back ON.

[6032] Card related error: Expired card

Classification	Error item
MFP access error	The card cannot be used because it has expired.

Check item	Measures
Setting	Use a card with a valid expiration.

[6033] Card related error: Invalid flag data (no room-entry data)

Classification	Error item
MFP access error	The card cannot be used because no room-entry data are recorded in it.

Check item	Measures
Setting	Use a correct card that has been used for entering the room.

[6034] Card related error: Invalid flag data (invalid card data)

Classification	Error item
MFP access error	The card cannot be used because the data required for the use of the card are not correctly set.

Check item	Measures
Setting	Use a valid card.

[6037] Flags not available

Classification	Error item
MFP access error	The equipment or device cannot be used since no privilege is given.

Check item	Measures
Setting	Use the enable card or contact your administrator.

[6041] Card authentication: Card related error

Classification	Error item
MFP access error	The self-diagnostic code required for card authentication is not set in this equipment correctly.

Check item	Measures
Setting	Reattempt scanning. If the error still occurs after reattempting scanning for several times, card data may be corrupted or the card reader may be out of order.

[6042] Card authentication: Card setting error

Classification	Error item
MFP access error	The self-diagnostic code required for card authentication is not set in this equipment correctly.

Check item	Measures
MFP access error	Set the correct self-diagnostic code.

[6100] User account locking out

Classification	Error item
MFP access error	User account is locked

Check item	Measures
Setting	Log into TopAccess as an administrator, and release the locked user account.

[6101] e-Filing box locking out

Classification	Error item
MFP access error	The e-Filing Box became inaccessible because an incorrect password has been entered for the specified number of times.

Check item	Measures
Setting	Retry access after a few minutes. For the locking period, ask your administrator.

[6102] User account being locking out

Classification	Error item
MFP access error	Failed to login because the user account had been locked out

Check item	Measures
Setting	Log into TopAccess as an administrator, and release the locked user account.

[6103] e-Filing Box is locked out

Classification	Error item
MFP access error	The e-Filing Box became inaccessible because an incorrect password has been entered for the specified number of times.

Check item	Measures
Setting	Retry access after a few minutes. For the locking period, ask your administrator.

[6121] Automatic Secure Erase failure

Classification	Error item
MFP access error	The automatic secure erase fails.

Check item	Measures
Setting	Data overwriting failed for some reason. If the error still occurs after rebooting the equipment, start up using the following procedure:[3] + [C] + [START] $\rightarrow$ 3. HDD formatting $\rightarrow$ Reinstallation of software or HDD replacement

[6131] Clock skew failure to time server

Classification	Error item
MFP access error	Clock skew failure to time server

Check item	Measures
Setting	Check that the time server works properly. Moreover, log into TopAccess as an administrator, and check that the SNTP setting is correct.

[6150] Print log DB full

Classification	Error item
MFP access error	Print log DB full

Check item	Measures
Setting	Perform Clear Log with TopAccess Logs>Export Logs>Print Job Log Export.

[6151] Print log DB near-full (95%

Classification	Error item
MFP access error	Print log DB near-full (95%)

Check item	Measures
Setting	Perform Clear Log with TopAccess Logs>Export Logs>Print Job Log Export.

[6152] Print log DB near-full (90%)

Classification	Error item
MFP access error	Print log DB near-full (90%)

Check item	Measures
Setting	Perform Clear Log with TopAccess Logs>Export Logs>Print Job Log Export.

[6153] Print log DB near-full (80%)

Classification	Error item
MFP access error	Print log DB near-full (80%)

Check item	Measures
Setting	Perform Clear Log with TopAccess Logs>Export Logs>Print Job Log Export.

[6154] Print log database near-full (70%)

Classification	Error item
MFP access error	Print log DB near-full (70%)

Check item	Measures
Setting	Perform Clear Log with TopAccess Logs>Export Logs>Print Job Log Export.

[6160] Scan log DB full

Classification	Error item
MFP access error	Scan log DB full

Check item	Measures
Setting	Perform Clear Log with TopAccess Logs>Export Logs>Scan Job Log Export.

[6161] Scan log DB near-full (95%)

Classification	Error item
MFP access error	Scan log DB near-full (95%)

Check item	Measures
Setting	Perform Clear Log with TopAccess Logs>Export Logs>Scan Job Log Export.

[6162] Scan log DB near-full (90%)

Classification	Error item
MFP access error	Scan log DB near-full (90%)

Check item	Measures
Setting	Perform Clear Log with TopAccess Logs>Export Logs>Scan Job Log Export.

[6163] Scan log DB near-full (80%)

Classification	Error item
MFP access error	Scan log DB near-full (80%)

Check item	Measures
Setting	Perform Clear Log with TopAccess Logs>Export Logs>Scan Job Log Export.

[6164] Scan log DB near-full (70%)

Classification	Error item
MFP access error	Scan log DB near-full (70%)

Check item	Measures
Setting	Perform Clear Log with TopAccess Logs>Export Logs>Scan Job Log Export.

[6170] FAX transmission log DB full

Classification	Error item
MFP access error	FAX transmission log DB full

Check item	Measures
Setting	Perform Clear Log with TopAccess Logs>Export Logs>Fax Transmission Journal Export.

[6171] FAX transmission log DB near-full (95%)

Classification	Error item
MFP access error	FAX transmission log DB near-full (95%)

Check item	Measures
Setting	Perform Clear Log with TopAccess Logs>Export Logs>Fax Transmission Journal Export.

[6172] FAX transmission log DB near-full (90%)

Classification	Error item
MFP access error	FAX transmission log DB near-full (90%)

Check item	Measures
Setting	Perform Clear Log with TopAccess Logs>Export Logs>Fax Transmission Journal Export.

[6173] FAX transmission log DB near-full (80%)

Classification	Error item
MFP access error	FAX transmission log DB near-full (80%)

Check item	Measures
Setting	Perform Clear Log with TopAccess Logs>Export Logs>Fax Transmission Journal Export.

[6174] FAX transmission log DB near-full (70%)

Classification	Error item
MFP access error	FAX transmission log DB near-full (70%)

Check item	Measures
Setting	Perform Clear Log with TopAccess Logs>Export Logs>Fax Transmission Journal Export.

[6180] FAX reception log DB full

Classification	Error item
MFP access error	FAX reception log DB full

Check item	Measures
Setting	Perform Clear Log with TopAccess Logs>Export Logs>Fax Reception Journal Export.

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[6181] FAX reception log DB near-full (95%)

Classification	Error item
MFP access error	FAX reception log DB near-full (95%)

Check item	Measures
Setting	Perform Clear Log with TopAccess Logs>Export Logs>Fax Reception Journal Export.

[6182] FAX reception log DB near-full (90%)

Classification	Error item
MFP access error	FAX reception log DB near-full (90%)

Check item	Measures
Setting	Perform Clear Log with TopAccess Logs>Export Logs>Fax Reception Journal Export.

[6183] FAX reception log DB near-full (80%)

Classification	Error item
MFP access error	FAX reception log DB near-full (80%)

Check item	Measures
Setting	Perform Clear Log with TopAccess Logs>Export Logs>Fax Reception Journal Export.

[6184] FAX reception log DB near-full (70%)

Classification	Error item
MFP access error	FAX reception log DB near-full (70%)

Check item	Measures
Setting	Perform Clear Log with TopAccess Logs>Export Logs>Fax Reception Journal Export.

[6190] Message log DB full

Classification	Error item
MFP access error	Message log DB full

Check item	Measures
Setting	Perform Clear Log with TopAccess Logs>Export Logs>Message Log Export.

[6191] Message log DB near-full (95%)

Classification	Error item
MFP access error	Message log DB near-full (95%)

Check item	Measures
Setting	Perform Clear Log with TopAccess Logs>Export Logs>Message Log Export.

[6192] Message log DB near-full (90%)

Classification	Error item
MFP access error	Message log DB near-full (90%)

Check item	Measures
Setting	Perform Clear Log with TopAccess Logs>Export Logs>Message Log Export.

[6193] Message log DB near-full (80%)

Classification	Error item
MFP access error	Message log DB near-full (80%)

Check item	Measures
Setting	Perform Clear Log with TopAccess Logs>Export Logs>Message Log Export.

[6194] Message log DB near-full (70%)

Classification	Error item
MFP access error	Message log DB near-full (70%)

Check item	Measures
Setting	Perform Clear Log with TopAccess Logs>Export Logs>Message Log Export.

8.3.26 Maintenance error

[7101] System firmware installation failure

[7103] Engine firmware installation failure

[7105] Scanner firmware installation failure

[7107] MEP firmware installation failure

[7111] Patch installation failure

[7113] Plug-in installation failure

[7115] HDD data installation failure

[7117] DF firmware installation failure

Classification	Error item
Maintenance error	System firmware installation failed. ([7101]) Engine firmware installation failed. ([7103]) Scanner firmware installation failed. ([7105]) MEP firmware installation failed. ([7107]) Patch installation failed. ([7111]) Plug-in installation failed. ([7113]) HDD data installation failed. ([7115]) DF firmware installation failed. ([7117])

Check item	Measures
Setting	Software package file may have a problem or may be corrupted. Check the software package file and then reattempt the installation.

[7109] Printer driver update failure

Classification	Error item
Maintenance error	Printer driver upload failed.

Check item	Measures
Setting	Printer driver file may have a problem or may be corrupted. Check the package file and then reattempt the upload.

[710B] Point and Print data installation failure

Classification	Error item
Maintenance error	Point and Print data upload failed.

Check item	Measures
Setting	Point and Print data may have a problem or may be corrupted. Check the package file and then reattempt the upload.

[710F] Language Pack installation failure

Classification	Error item
Maintenance error	Language Pack installation failed.

Check item	Measures
Setting	Language Pack file may have a problem or may be corrupted. Check the package file and then reattempt the installation.

[711D] License key returning failure

Classification	Error item
Maintenance error	The one-time dongle license fails to be returned to USB media.

Check item	Measures
Setting	Return the license to the USB media used for installing the license. Check that the USB media is correctly installed. **Notes:** The GP-1080 IPSec Enabler cannot return to the USB media due to license problem. The GP-1070 Overwrite Enabler cannot return to the USB media in the high security (08-8911: 3).

[711F] License key installation failure

Classification	Error item
Maintenance error	The one-time dongle license fails to be installed.

Check item	Measures
Setting	Check that the USB media is correctly installed.

[7121] Unsuccessful Import of Address Book Data

Classification	Error item
Maintenance error	The import of Address Book data failed.

Check item	Measures
Setting	Check if you are importing a valid file.

[7123] Unsuccessful Import of Template Data

Classification	Error item
Maintenance error	The import of template data failed.

Check item	Measures
Setting	Check if you are importing a valid file.

[7125] Unsuccessful Import of MailBox Data

Classification	Error item
Maintenance error	The import of Mailbox data failed.

Check item	Measures
Setting	Check if you are importing a valid file.

[7127] Unsuccessful Import of Format File for Metascan

Classification	Error item
Maintenance error	The import of Meta Scan format file failed.

Check item	Measures
Setting	Check if you are importing a valid file.

[7129] Unsuccessful Import of User Information

Classification	Error item
Maintenance error	The import of user information failed.

Check item	Measures
Setting	Check if you are importing a valid file.

[712B] Unsuccessful Import of Role Information

Classification	Error item
Maintenance error	The import of role information failed.

Check item	Measures
Setting	Check if you are importing a valid file.

[712D] Unsuccessful Import of Department Data

Classification	Error item
Maintenance error	The import of department data failed.

Check item	Measures
Setting	Check if you are importing a valid file.

[712F] Unsuccessful Import of ICC Profile

Classification	Error item
Maintenance error	The import of ICC Profile failed.

Check item	Measures
Setting	Check if you are importing a valid file.

[7131] Failed to import Print Data Converter

Classification	Error item
Maintenance error	The import of Print Data Converter failed.

Check item	Measures
Setting	Check if you are importing a valid file.

[7132] Failed to import any users

Classification	Error item
Maintenance error	A part of the user information was not imported.

Check item	Measures
Setting	There is a possibility that the amount of user information has exceeded the maximum for registration during the import or the file contains invalid data. Check if you are importing a valid file and also that the amount of user information does not exceed the maximum.

[7133] Failed to import any user, role and group information

Classification	Error item
Maintenance error	A part of the user, role or group information was not imported.

Check item	Measures
Setting	There is a possibility that the amount of the combined user information has exceeded the maximum for registration during the import or the file contains invalid data. Check if you are importing a valid file and also that the amount of the combined user information does not exceed the maximum.

[7134] Department data import partial failure

Classification	Error item
Maintenance error	A part of the department data was not imported.

Check item	Measures
Setting	There is a possibility that the amount of department data has exceeded the maximum for registration during the import or the file contains invalid data. Check if you are importing a valid file and also that the amount of department data does not exceed the maximum.

[7139] Unsuccessful Acquisition of Certificate from SCEP Server

Classification	Error item
Maintenance error	Failed to import the certificate by SCEP

Check item	Measures
Setting	Check the SCEP server and the SCEP setting (automatic) in TopAccess Administration>Security>Certificate Management.

[713B] Unsuccessful Import of Certificate from TopAccess

Classification	Error item
Maintenance error	Failed to import the certificate

Check item	Measures
Setting	Certificate may have a problem or be corrupted. Check the certificate and perform the job again.

[713D] Unsuccessful Import of User Combined Data

Classification	Error item
Maintenance error	The import of combined user information failed.

Check item	Measures
Setting	Check if you are importing a valid file.

[713F] Unsuccessful Import of All Data (Template/AddressBook/MailBox)

Classification	Error item
Maintenance error	The import of all data (templates, Address Book, Mailbox) failed.

Check item	Measures
Setting	Check if you are importing a valid file.

[7141] Unsuccessful Export of Address Book Data

Classification	Error item
Maintenance error	The export of Address Book data failed.

Check item	Measures
Setting	Check if there is enough capacity in the HDD and then retry the export.

[7143] Unsuccessful Export of Template Data

Classification	Error item
Maintenance error	The export of template data failed.

Check item	Measures
Setting	Check if there is enough capacity in the HDD and then retry the export.

[7145] Unsuccessful Export of MailBox Data

Classification	Error item
Maintenance error	The export of Mailbox data failed.

Check item	Measures
Setting	Check if there is enough capacity in the HDD and then retry the export.

[7147] Unsuccessful Export of Format File for Metascan

Classification	Error item
Maintenance error	The export of a Meta Scan format file failed.

Check item	Measures
Setting	Check if there is enough capacity in the HDD and then retry the export.

[7149] Unsuccessful Export of User Information

Classification	Error item
Maintenance error	The export of user information failed.

Check item	Measures
Setting	Check if there is enough capacity in the HDD and then retry the export.

[714B] Unsuccessful Export of Role Information

Classification	Error item
Maintenance error	The export of role information failed.

Check item	Measures
Setting	Check if there is enough capacity in the HDD and then retry the export.

[714D] Unsuccessful Export of Department Information

Classification	Error item
Maintenance error	The export of department data failed.

Check item	Measures
Setting	Check if there is enough capacity in the HDD and then retry the export.

[714F] Unsuccessful Export of ICC Profile

Classification	Error item
Maintenance error	The export of ICC Profile failed.

Check item	Measures
Setting	Check if there is enough capacity in the HDD and then retry the export.

[7151] Unsuccessful Export of Log Data

Classification	Error item
Maintenance error	The export of log data failed.

Check item	Measures
Setting	Check if there is enough capacity in the HDD and the USB media and then retry the export.

[715B] Unsuccessful Print Data Converter

Classification	Error item
Maintenance error	The export of Print Data Converter failed.

Check item	Measures
Setting	Check if there is enough capacity in the HDD and then retry the export.

[715D] Unsuccessful export of User Combined Data

Classification	Error item
Maintenance error	The export of combined user information failed.

Check item	Measures
Setting	Check if there is enough capacity in the HDD and then retry the export.

[715F] Unsuccessful Export of All Data (Template/AddressBook/MailBox)

Classification	Error item
Maintenance error	The export of all data (templates, Address Book, Mailbox) failed.

Check item	Measures
Setting	Check if there is enough capacity in the HDD and then retry the export.

[7191] DDNS public key file upload failure

Classification	Error item
Maintenance error	Failed to upload DDNS public key file

Check item	Measures
Setting	DDNS public key file may have a problem or be corrupted. Check the file and perform the job again.

[7193] DDNS private key file upload failure

Classification	Error item
Maintenance error	Failed to upload DDNS private key file

Check item	Measures
Setting	DDNS private key file may have a problem or be corrupted. Check the file and perform the job again.

[71A2] Unsuccessful Addition of CA Certificate

Classification	Error item
Maintenance error	Failed to add CA certificate

Check item	Measures
Setting	CA certificate may have a problem or be corrupted. Check the CA certificate and perform the job again.

[71A4] Cryptographic key consistency confirmation failure

Classification	Error item
Maintenance error	Cryptographic key consistency confirmation failed.

Check item	Measures
Setting	Start up the equipment in the following procedure:[3] + [C] + [START] → 5. Key Backup Restore Then overwrite the corrupted license key with a normal one.

[71A6] Device certificate deletion failure

Classification	Error item
Maintenance error	The deletion of device certificate failed.

Check item	Measures
Setting	Restart the equipment and then retry.

[71A8] CA certificate deletion failure

Classification	Error item
Maintenance error	The deletion of the CA certificate failed.

Check item	Measures
Setting	Restart the equipment and then retry.

[71AA] Unidentified error during certificate acquisition from SCEP server

Classification	Error item
Maintenance error	Unidentified error occurred during certificate acquisition from SCEP server.

Check item	Measures
Setting	Check SCEP server and the SCEP setting (automatic) on the TopAccess screen as follows: TopAccess Administration → Security → Certificate Management

[71AB] Timeout error during certificate acquisition from SCEP server

Classification	Error item
Maintenance error	Timeout error occurred during certificate acquisition from SCEP server.

Check item	Measures
Setting	Check SCEP server and the SCEP setting (automatic) on the TopAccess screen in the following procedure: TopAccess Administration → Security → Certificate Management

[71AC] File save error during certificate acquisition from SCEP server

Classification	Error item
Maintenance error	File save error occurred during certificate acquisition from SCEP server.

Check item	Measures
Setting	File saving failed for some reason. If the error still occurs after rebooting the equipment, start up using the following procedure:[3] + [C] + [START] → 3. HDD formatting → Reinstallation of software or HDD replacement

[71AD] Failed SCEP operation

Classification	Error item
Maintenance error	SCEP operation is failed

Check item	Measures
Setting	Check SCEP server and the SCEP setting on the TopAccess menu as follows: [Administration] > [Security] > [Certificate Management] > SCEP (Automatic)

[71B0] Software package file decryption failure

Classification	Error item
Maintenance error	Software package file decryption failed.

Check item	Measures
Setting	Software package file may have a problem or may be corrupted. Check the software package file and then reattempt the installation.

[71D0] Factory Default Failure

Classification	Error item
Maintenance error	Factory default setting failed.

Check item	Measures
Setting	Restart the equipment and then retry.

[71F1] Unsuccessful Creation of Clone File

Classification	Error item
Maintenance error	The creation of a clone file failed.

Check item	Measures
Setting	Check if there is enough capacity in the HDD and the USB media and then retry the creation.

[71F3] Unsuccessful Import of Clone Data

Classification	Error item
Maintenance error	The import of clone data failed.

Check item	Measures
Setting	The clone file may be invalid. Check the file and then retry the import.

[71F4] Failed to decrypt Clone file

Classification	Error item
Maintenance error	The decryption of a clone file failed.

Check item	Measures
Setting	The clone file may be invalid or the password may be incorrect. Check the file and the password, and then retry the import.

[71F5] Failed to encrypt Clone file

Classification	Error item
Maintenance error	The encryption of a clone file failed.

Check item	Measures
Setting	Restart the equipment and then retry the encryption.

8.3.27 Network error

[8000] Static IPv4 address conflict

Classification	Error item
Network error	IPv4 address overlaps.

Check item	Measures
Setting	Check if the same IP address is not used by other machine.

[8011] Linklocal Address Conflict

Classification	Error item
Network error	Linklocal Address Conflict

Check item	Measures
Setting	Check if the same IP address is not used by other machine.

[8012] Manual Address Conflict

Classification	Error item
Network error	Manual IPv6 Address Conflict

Check item	Measures
Setting	Check if the same IP address is not used by other machine.

[8013] Stateless Address Conflict

Classification	Error item
Network error	Stateless Address Conflict

Check item	Measures
Setting	Check if the same IP address is not used by other machine.

[8014] Stateful Address Conflict

Classification	Error item
Network error	Stateful Address Conflict

Check item	Measures
Setting	Check if the same IP address is not used by other machine.

[8022] Authentication Failure

Classification	Error item
Network error	Failed in 802.1X authentication.

Check item	Measures
Setting	Check the user credential.

[8023] Can not contact Authentication Server/Switch

Classification	Error item
Network error	Failed in connection to authentication server and switch.

Check item	Measures
Setting	Check connectivity to switch or server.

[8024] Certificate verification Failure

Classification	Error item
Network error	Failed in verification of certificate.

Check item	Measures
Setting	Check if a valid certificate is installed.

[8031] IKEv1 certification failed

Classification	Error item
Network error	Ipsec error for ikev1 certification failed

Check item	Measures
Setting	Check 1. CA and user certificate in both MFP and remote peer - certificate timestamp and IPsec Certificate template should be valid. 2. CRL DP server name is mapped in MFP's host table or DNS entry. 3. Certificate against CRL.

[8032] IKEv1 wrong proposal chosen

Classification	Error item
Network error	Ipsec error for wrong proposal chosen

Check item	Measures
Setting	Check the IKEv1 IPsec proposal parameters (like encryption/ authentication algorithms, DH group, authentication methods) in MFP and peer machine.

[8033] IKEv1 shared key authentication failed

Classification	Error item
Network error	Ipsec error if auth for shared key failed

Check item	Measures
Setting	Mismatch in IKEv1 Pre Shared Key. Check the PSK in MFP and remote machine.

[8034] IKEv1 invalid certificate

Classification	Error item
Network error	Ipsec error if invalid certificate uploaded

Check item	Measures
Setting	Check the CA and User certificate in MFP and peer machine.

[8035] IKEv1 certificate not supported

Classification	Error item
Network error	Ipsec error if certificate not supported

Check item	Measures
Setting	Check the User certificate type.

[8036] IKEv1 invalid certificate authentication

Classification	Error item
Network error	Ipsec error if invalid certificate authentication

Check item	Measures
Setting	Check the CA certificate in MFP and Peer machine.

[8037] IKEv1 certificate unavailable

Classification	Error item
Network error	Ipsec error if certificate are not available

Check item	Measures
Setting	Certificate has been deleted from Certificate store. Re-upload the corresponding certificates.

[8038] IKEv1 no SA established

Classification	Error item
Network error	Ipsec error for SA is not present

Check item	Measures
Setting	Check the IKEv1/IPsec proposal parameters (like encryption/ authentication algorithms, DH group, authentication methods) in MFP and peer machine. Check 1. CA and user certificate in both MFP and remote peer - certificate timestamp and IPsec Certificate template.

[8039] IKEv1 invalid signature

Classification	Error item
Network error	Ipsec error for invalid signature for certificate

Check item	Measures
Setting	Mismatch in Signature payload (MAC or IV). Check the CA and user certificate in MFP and peer machine.

[803A] IKEv2 wrong proposal chosen

Classification	Error item
Network error	Ipsec error if proposal chosen is wrong

Check item	Measures
Setting	Check the IKEv2/IPsec proposal parameters (encryption/ authentication algorithms, DH group, authentication methods) in MFP and peer machine.

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[803B] IKEv2 Certificate failed

Classification	Error item
Network error	Ipsec error for ikev2 certification failed

Check item	Measures
Setting	Check 1. CA and user certificate in both MFP and remote peer - certificate timestamp and IPsec Certificate template should be valid. 2. CRL DP server name is mapped in MFP's host table or DNS entry. 3. Certificate against CRL.

[803C] IKEv2 secret key authentication failed

Classification	Error item
Network error	Ipsec error for ikev2 if secret key auth failed

Check item	Measures
Setting	Mismatch in IKEv2 Pre Shared Key. Check the PSK in MFP and peer machine.

[803D] IKEv2 falling back to IKEv1

Classification	Error item
Network error	Ipsec error if peer does not support IKEv2 and falling back to IKEv1

Check item	Measures
Setting	Remote machine is not supporting IKEv2. Going back to use IKEv1.

[803E] IKEv2 ISAKMP SA unavailable

Classification	Error item
Network error	Ipsec error if ISAKMP SA is not created of destroyed due to some uncertain condition

Check item	Measures
Setting	Restart IPsec service on Peer and retry.

[803F] IKEv2 cryptographic operation failed

Classification	Error item
Network error	Ipsec error for ikev2 if crypto operation failed

Check item	Measures
Setting	If Certificates are being used, re-upload the corresponding certificates using Security Services. Restart IPsec Service on MFP.

[8040] IKEv2 invalid key information

Classification	Error item
Network error	Ipsec error for ikev2 if key info is invalid

Check item	Measures
Setting	Check IKE settings in MFP and peer.

[8041] IKEv2 CA not trusted

Classification	Error item
Network error	Ipsec error for ikev2 if CA is not trusted

Check item	Measures
Setting	Check the CA certificate in MFP and peer machine. Check the CA certificate timestamp.

[8042] IKEv2 Authentication method mismatch

Classification	Error item
Network error	Ipsec error if authentication method is not matching

Check item	Measures
Setting	Mismatch in IKE authentication type. Check the Authentication type in MFP and peer.

[8043] IPsec IKE version mismatch

Classification	Error item
Network error	Ipsec error if ike version is not matching

Check item	Measures
Setting	Mismatch in IKE version. Check the IKE version in MFP and peer.

[8044] IPsec encapsulation mismatch

Classification	Error item
Network error	Ipsec error for encapsulation is not matching

Check item	Measures
Setting	Check the IPsec mode (Transport/Tunnel) in MFP and peer.

[8045] IPsec Peer IP mismatch

Classification	Error item
Network error	Ipsec error for peer ip mismatch

Check item	Measures
Setting	Remote Traffic selector mismatch. Check the destination address/port in IPsec filter.

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[8046] IPsec local IP mismatch

Classification	Error item
Network error	Ipsec error for local ip mismatch

Check item	Measures
Setting	Local traffic selector mismatch. Check the source address/port in IPsec filter.

[8047] IPsec local ID mismatch

Classification	Error item
Network error	Ipsec error for local id mismatch

Check item	Measures
Setting	Check the user certificate in MFP

[8048] IPsec Remote ID mismatch

Classification	Error item
Network error	Ipsec error for remote id mismatch

Check item	Measures
Setting	Check the user certificate in peer machine.

[8049] IPsec Remote IP mismatch

Classification	Error item
Network error	Ipsec error for remote ip mismatch

Check item	Measures
Setting	Remote traffic selector mismatch. Check the source address/port in IPsec filter.

[804A] IPsec IKE timeout

Classification	Error item
Network error	Ipsec error for ike timeout

Check item	Measures
Setting	Check the network connectivity between MFP and peer machine. Select the Flush Connections Option and retry.

[804B] IPSec invalid manual key

Classification	Error item
Network error	Ipsec error id manual key is not valid

Check item	Measures
Setting	Check the Inbound and Outbound (ESP Encryption/ Authentication and AH Authentication) keys in MFP and Remote PC.

[8061] Secure primary DDNS update error

[8062] Secure secondary DDNS update error

[8063] IPv6 Secure primary DDNS update error

[8064] IPv6 Secure secondary DDNS update error

[8065] IPv6 primary DDNS update error

[8066] IPv6 secondary DDNS update error

[8067] IPv4 primary DDNS update error

[8068] IPv4 secondary DDNS update error

Classification	Error item
Network error	Secure update to primary IPv4 server failed. ([8061]) Secure update to secondary IPv4 server failed. ([8062]) Secure update to primary IPv6 server failed. ([8063]) Secure update to secondary IPv6 server failed. ([8064]) IPv6 primary DDNS update error. ([8065]) IPv6 secondary DDNS update error. ([8066]) IPv4 primary DDNS update error. ([8067]) IPv4 secondary DDNS update error. ([8068])

Check item	Measures
Setting	Check if there is any problem with DNS or DDNS settings.

[8069] Invalid TSIG/SIG(0) Key file

Classification	Error item
Network error	This message is displayed when the key file for SIG(0) or TSIG is invalid.

Check item	Measures
Setting	Verify the TSIG/SIG(0) key files used.

[8101] Wireless association with Access point failure

Classification	Error item
Network error	Wireless association with Access point failure

Check item	Measures
Setting	Verify the credentials used for association with Access point.

[8102] MFP not able to contact the Access point with the specified SSID

Classification	Error item
Network error	MFP not able to contact the Access point with the specified SSID

Check item	Measures
Setting	Verify the access point name setting and mechanism used for association same as Access Point setting.

[8103] Wireless Certificate verification failure

Classification	Error item
Network error	Wireless Certificate verification failure

Check item	Measures
Setting	Verify the certificate settings used for association.

[8111] SNMP writing access failure

Classification	Error item
Network error	An error occurred during SNMP data writing.

Check item	Measures
Setting	Check if the parameter entered in the application is correct. Check if the entered department code and box password are correct. If the error still occurs after the correct parameter is entered, restart the equipment and the application.

[8112] SNMP communication failure

Classification	Error item
Network error	SNMP communication failed.

Check item	Measures
Setting	Check if there is any problem in the application.

[8121] Domain authentication error: Domain authentication error

Classification	Error item
Network error	An unidentified domain authentication error occurred during the connection of domain controller.

Check item	Measures
Setting	Check the network configuration of this equipment and then reconnect to the domain controller.

[8122] Domain authentication error: Invalid user name or password

Classification	Error item
Network error	Login is not permitted because the user name or a password for domain authentication is invalid.

Check item	Measures
Setting	Check if the user name and the password for this equipment are correct. Specify upper- and lower-case characters correctly when you enter them.

[8123] Domain authentication error: Invalid server

Classification	Error item
Network error	The server was not discovered during domain authentication.

Check item	Measures
Setting	Check if the server is down or the network configuration of this equipment is correct. If domain name resolution is used, check the DNS and DDNS settings.

[8124] Domain authentication error: Invalid user account

Classification	Error item
Network error	The user account is invalid and not available for login for domain authentication

Check item	Measures
Setting	Check the setting to see if the user account noted in the Active Directory Users and Computers window is valid.

[8125] Domain authentication error: Expired user account

Classification	Error item
Network error	The user account is expired and not available for login for domain authentication.

Check item	Measures
Setting	Check the setting to see if the user account noted in the Active Directory Users and Computers window is not expired.

[8126] Domain authentication error: User account lockout

Classification	Error item
Network error	The user account is locked out and not available for login for domain authentication.

Check item	Measures
Setting	Check the account lockout setting of the server.

[8127] Domain authentication error: Invalid logon hours

Classification	Error item
Network error	The logon hour is invalid and not available for login for domain authentication.

Check item	Measures
Setting	Check the logon hour setting for the user account noted in the Active Directory Users and Computers window.

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[8128] Active Directory domain authentication error: Time delay between server and equipment

Classification	Error item
Network error	There is a difference of 5 minutes or longer between the time settings of this equipment and the server, and therefore the login is not available for Active Directory domain authentication.

Check item	Measures
Setting	Set the time of this equipment and that of the domain controller the same. SNTP is recommended if there is an SNTP server in the network.

[8129] Active Directory domain authentication error: Expired Kerberos ticket

Classification	Error item
Network error	The Kerberos ticket is expired and not available for login for Active Directory domain authentication.

Check item	Measures
Setting	Check if the Kerberos ticket on the Kerberos server is expired.

[812A] Active Directory domain authentication error: Kerberos ticket authentication error

Classification	Error item
Network error	Login is not available for Active Directory domain authentication due to a Kerberos ticket authentication error.

Check item	Measures
Setting	Check if the user name and the password for this equipment are correct. If the error still occurs, ask your Windows Server administrator.

[812B] Active Directory domain authentication error: invalid realm name

Classification	Error item
Network error	The realm name is invalid and not available for login for Active Directory domain authentication.

Check item	Measures
Setting	Check if the realm name of this equipment for the Active Directory server is correct. If the error still occurs, ask your Windows Server administrator.

8.4 Troubleshooting for the Image

8.4.1 Abnormality of image density / Gray balance
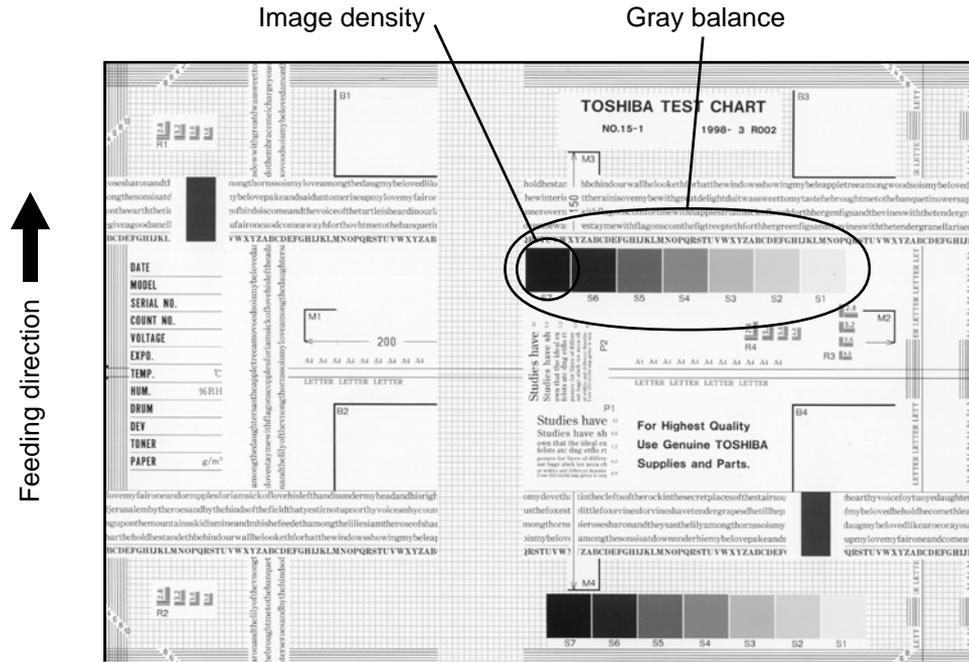
Fig.8-2

Defective area	Step	Check items	Prescription
Density/Gray balance	1	Check the density/gray balance.	Adjust the density.
Printer section	2	Check test print image (04-114).	Go to step 4 if there is any problem on image.
Scanner	3	Are the original glass, mirrors and lens dirty?	Clean them.
Printed image	4	Is the image faded?	Perform troubleshooting for faded image.
	5	Is background fogging occurring?	Perform troubleshooting for background fogging.
	6	Is there a blotch on the image?	Perform troubleshooting for blotched image.
	7	Is the image transferred normally?	Perform troubleshooting for abnormal transfer.

8.4.2 Background fogging
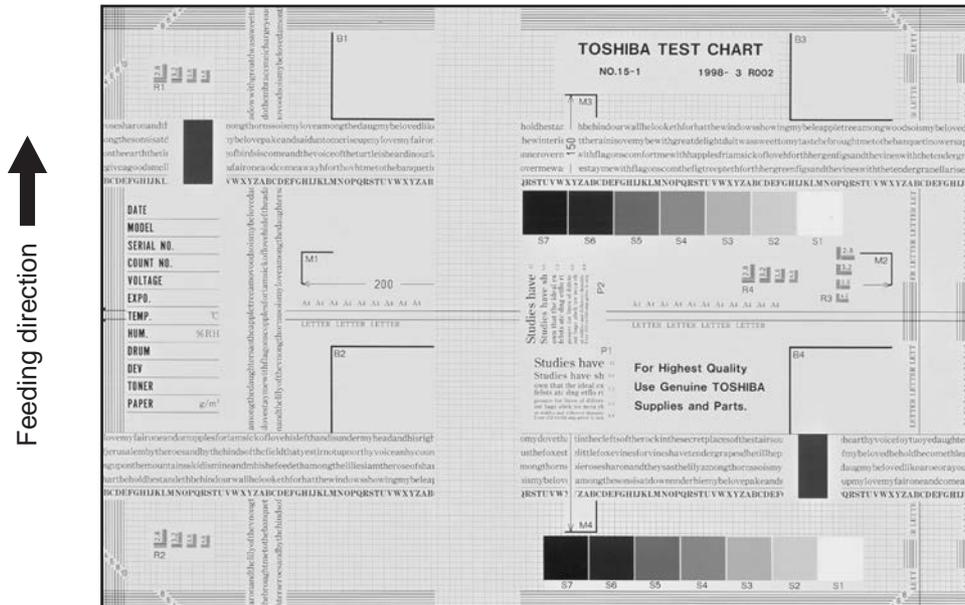
Fig.8-3

Defective area	Step	Check items	Prescription
Adjustment (e-STUDIO207L/257/307/357/457/507)	1	Perform the shading correction.	Perform 05-3218. If an error occurs, retry it. If the error still persists, clean the original glass.
Density reproduction	2	Check the reproduction of the image density.	Adjust the density.
Background reproduction	3	Check the background reproduction.	Adjust the background.
Printer section	4	Check test print image (04-114).	Go to step 5 if there is any problem on image.
Scanner	5	Are the original glass, mirrors and lens dirty?	Clean them.
Auto-toner	6	Is the auto-toner sensor normal?	Check the performance of the auto-toner sensor and readjust.
	7	Is the toner supplied normally?	Check the motor and circuits.
High-voltage transformer (Main charger / Developer bias)	8	Is the high-voltage transformer output defective?	Adjust the output, or replace the transformer.
Developer unit	9	Is the contact between the drum and developer material normal?	Adjust the doctor-sleeve gap and polarity.
Developer material/Toner/Drum	10	Using the specified developer material, toner and drum?	Use the specified developer material, toner and drum.
	11	Have the developer material and drum reached their PM life?	Replace the developer material and drum.
	12	Is the storage environment of the toner cartridge 35°c less without dew?	Use the toner cartridge stored in the environment within specification.
Drum cleaning blade	13	Is the drum cleaned properly?	Check the pressure of the drum cleaning blade.
Toner dusting	14	Is toner heaped on the seal of the developer unit?	Remove the toner and clean the developer unit.

8.4.3 Moire/lack of sharpness
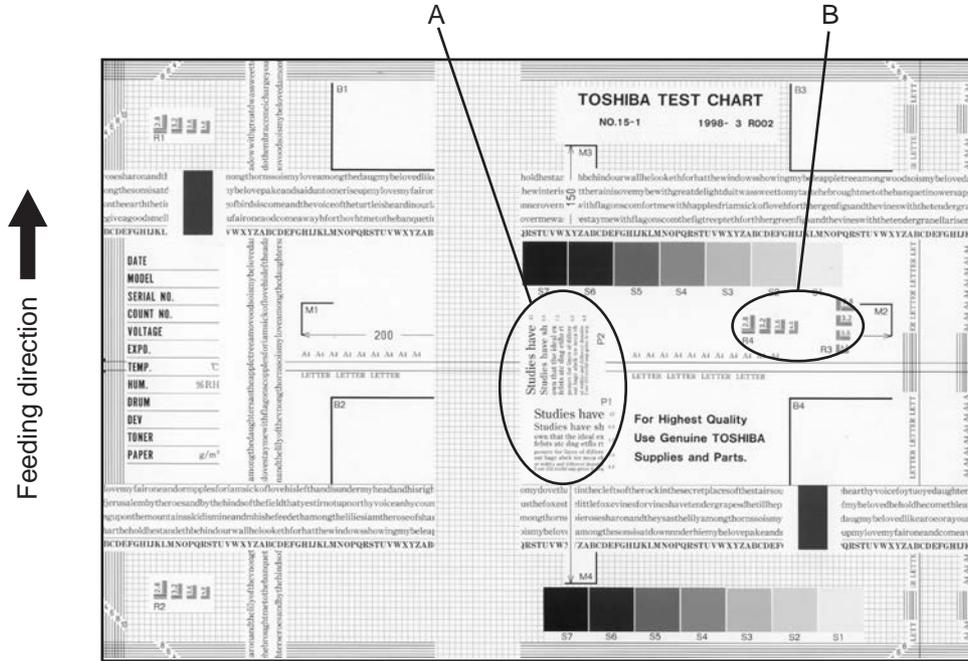
Fig.8-4

Moire

Defective area	Step	Check items	Prescription
Density reproduction	1	Check the reproduction of the image density.	Adjust the density.
Parameter adjustment value	2	Check the image processing parameters.	Check the adjustment value for sharpness.
Printer section	3	Check test print image (04-114).	When defects occur, perform the corresponding troubleshooting procedure.

Lack of sharpness

Defective area	Step	Check items	Prescription
Density reproduction	1	Check the reproduction of the image density.	Adjust the density.
Parameter adjustment value	2	Check the image processing parameters.	Check the adjustment value for sharpness.
Printer section	3	Check test print image (04-114).	When defects occur, perform the corresponding troubleshooting procedure.
	4	Check the image processing parameters.	Check the encircled areas A and B in the image, and change the sharpness intensity in the sharpness adjustment mode.

8.4.4 Toner offset
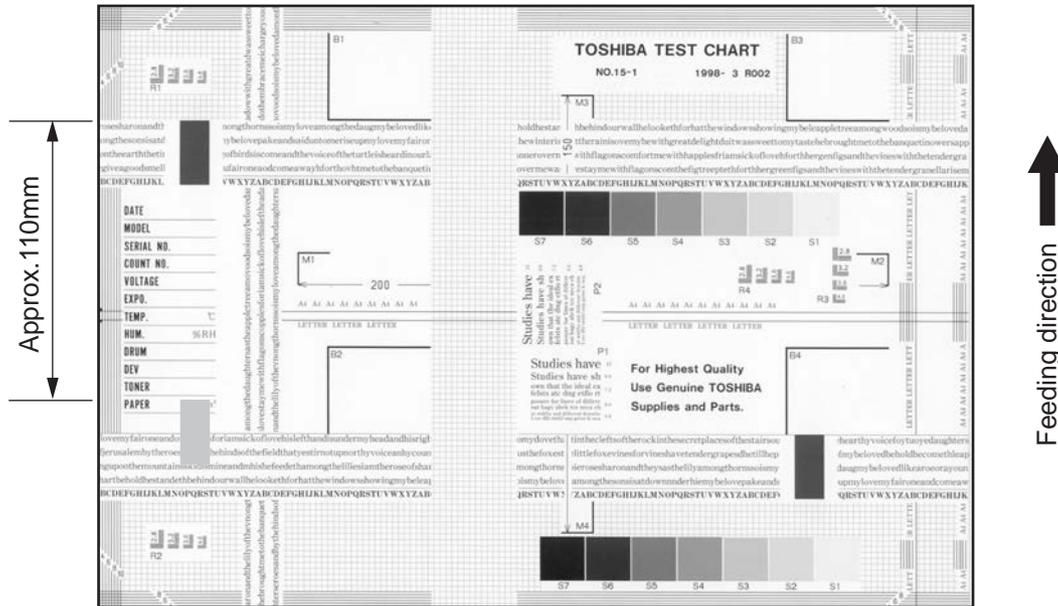
Fig.8-5

Toner offset (Shadow image appears approx.110mm toward the dark image.)

Defective area	Step	Check items	Prescription
Density	1	Is the density too high?	Adjust the density.
Fuser unit	2	Is the pressure of the fuser roller normal?	Check the pressure releasing parts and pressurization mechanism.
	3	Is the thermistor in contact with the fuser roller?	Contact the thermistor with the fuser roller.
	4	Is there a scratch on the fuser roller surface?	Replace the fuser roller.
	5	Has the fuser roller reached its PM life?	Replace the fuser roller.
	6	Is the setting temperature of the fuser roller normal?	Check the adjustment values of fuser roller temperature? 08-2120, 2010, 2009, 2140, 515, 516 (08-5285: Only e-STUDIO356/456/506 / e-STUDIO357/457/507)
	7	Is the power supplied between the fuser unit entrance guide and the registration roller on the equipment side?	Check if the power supply bracket of the fuser unit is installed properly.
Paper	8	Has the appropriate paper type been selected?	Select a proper mode.
	9	Is the setting temperature of the fuser roller in each paper type normal?	Check the setting and correct it. (08-2028, 2049, 2050, 2051, 2141, 2142, 2143, 2192, 2194, 2195) (08-5328, 5329, 5330, 5331, 5332: Only e-STUDIO356/456/506 / e-STUDIO357/457/507)
	10	Using the recommended paper?	Use the recommended paper.
Developer material	11	Using the specified developer material?	Use the specified developer material and toner.

Defective area	Step	Check items	Prescription
Scanner	12	Are the original glass (especially the position of shading correction plate), mirror and lens dirty?	Clean them.

8

8.4.5　Blurred image
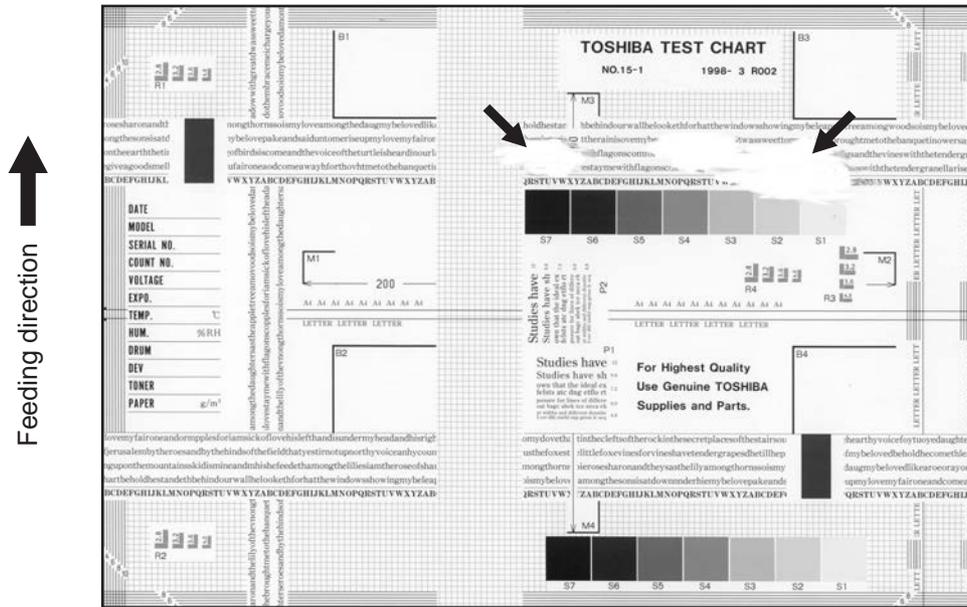
Fig.8-6

Defective area	Step	Check items	Prescription
Paper	1	Is the paper in the drawer or LCF damp?	Change paper. Avoid storing paper in damp place.
Bedewed scanner	2	Is the scanner bedewed?	Clean the scanner.
Drum	3	Is the drum surface wet or dirty?	Wipe the drum with a piece of dry cloth. *　Do not use alcohol or other organic solvents.
Ozone exhaust	4	Is the exhaust fan operating properly?	Check the connection of connector. Replace the ozone exhaust fan.
	5	Is the ozone filter stained or damaged?	Replace the ozone filter.

8.4.6 Poor fusing
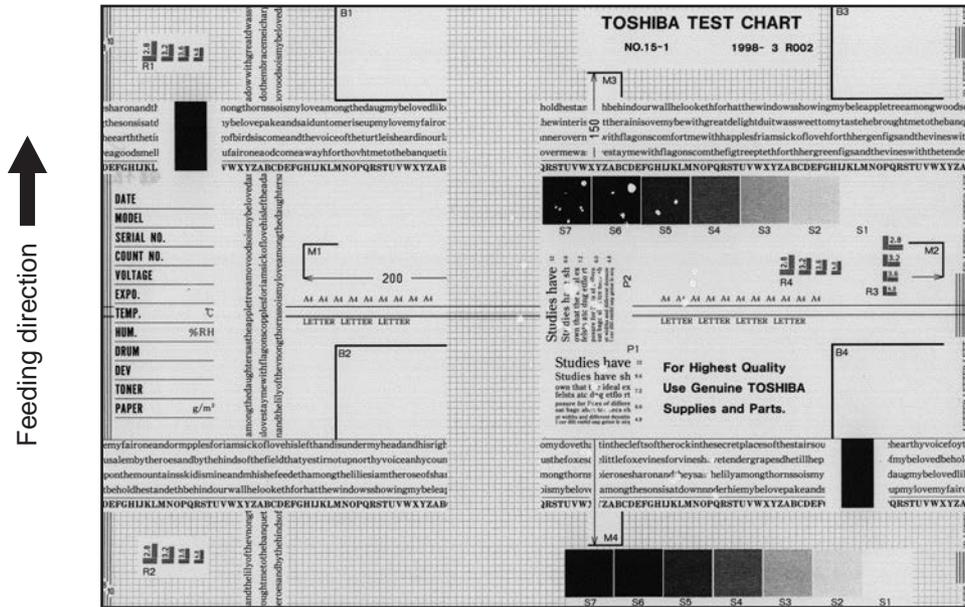
Fig.8-7

Defective area	Step	Check items	Prescription
Heater electric power	1	Check if the connector contacts properly.	Correct it.
	2	Is the heater shorted or broken?	Replace the heater.
Pressure between fuser roller and pressure roller	3	Are the pressure springs working properly?	Check and adjust the pressure springs.
Fuser roller temperature	4	Is the temperature of the fuser roller normal?	Check the setting and correct it. 08-2120, 2010, 2009, 2140, 515, 516 (08-5285: Only e-STUDIO356/456/506 / e-STUDIO357/457/507)
Developer material/Toner	5	Using the specified developer material and toner?	Use the specified developer material and toner.
Paper	6	Is the paper in the drawer or LCF damp?	Avoid storing paper in damp place.
	7	Is the paper type corresponding to its mode?	Use the proper type of paper or select the proper mode.
	8	Is the setting temperature of the fuser roller in each paper type normal?	Check the setting and correct it. 08-2028, 2049, 2050, 2051,2141, 2142, 2143, 2192, 2194, 2195) (08-5328, 5329, 5330, 5331, 5332: e-STUDIO356/456/506 / e-STUDIO357/457/507)
	9	Using the recommended paper?	Use the recommended paper.

8.4.7 Blank copy
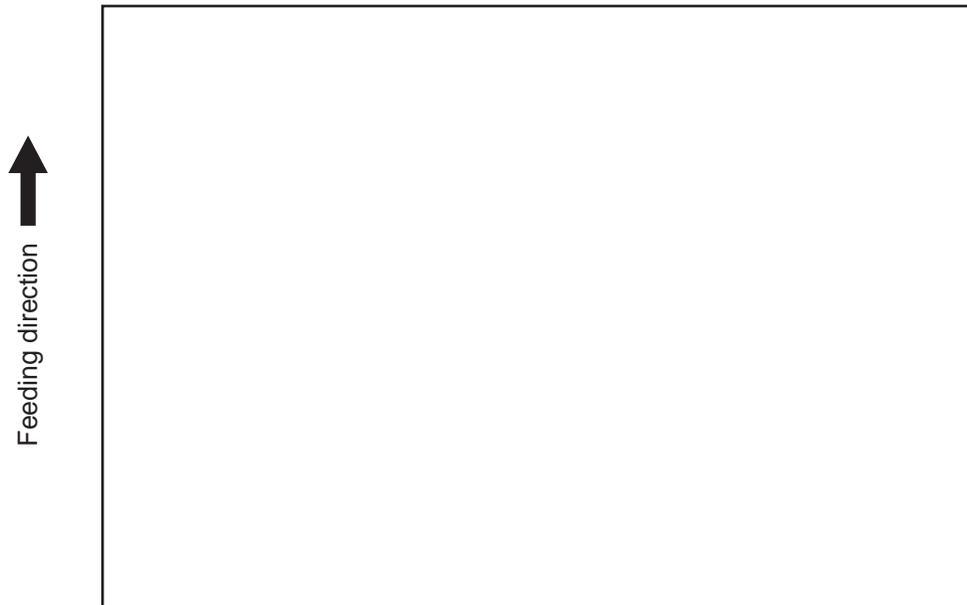
Fig.8-8

Defective area	Step	Check items	Prescription
Transfer roller unit	1	Is the power supplying spring of the transfer roller installed securely? (Is it almost detached?)	Check the power supplying spring and reinstall it.
High-voltage transformer (Transfer roller unit, Developer bias)	2	Is the high-voltage transformer output defective?	Adjust the output, or replace the transformer.
	3	Are the connectors of the high-voltage harness securely connected? Is the harness open circuited?	Reconnect the harness securely. Replace the high-voltage harness.
Developer unit	4	Is the developer unit installed properly?	Check and correct the engaging condition of the developer unit gears.
	5	Do the developer sleeve and mixers rotate?	Check and fix the drive system of the developer unit.
	6	Is the developer material smoothly transported?	Remove the foreign matter from the developer material.
	7	Has the magnetic brush phase been shifted?	Adjust the developer polarity.
	8	Is the doctor blade positioned properly?	Adjust it using the doctor-sleeve jig.
Drum	9	Is the drum rotating?	Check the drive system of the drum.
CCD, SLG, SYS, LGC boards and harnesses	10	Are the connectors securely connected? Check if the harnesses connecting the boards are open circuited.	Connect the connectors securely. Replace the harness.

8.4.8　Solid copy

Feeding direction

Fig.8-9

Defective area	Step	Check items	Prescription
Exposure lamp and inverter / LED board	1	Does the exposure lamp light?	Check if the connector contacts with the exposure lamp terminal. Replace the defective inverter / LED board (e-STUDIO206L/256/306/356/456/506 only).
Scanner	2	Is there any foreign matter on the light path?	Remove it.
Bedewed scanner and drum	3	Is the scanner or drum bedewed?	Clean the mirrors, lens and drum. Keep the power cord plugged in all trough the day and night. (For the model with damp heater)
Main charger	4	Is the main charger securely installed?	Install it securely.
	5	Is the needle electrode broken?	Replace the needle electrode.
High-voltage transformer (Main charger)	6	Is the high-voltage transformer output defective?	Adjust the output, or replace the transformer.
	7	Are the connectors of the high-voltage harness securely connected? Is the harness open circuited?	Reconnect the harness securely. Replace the high-voltage harness.
CCD, SLG, SYS, LGC boards and harnesses	8	Are the connectors securely connected? Check if the harnesses connecting the boards are open circuited.	Connect the connectors securely. Replace the harness.

8.4.9 White banding or white void (in the feeding direction)

Fig.8-10

Defective area	Step	Check items	Prescription
Laser optical unit	1	Is there a foreign matter or stain on the slit glass?	Remove the foreign matter or stain.
Main charger grid	2	Is there a foreign matter or dew on the charger grid?	Remove the foreign matter.
Toner cartridge	3	Is the adhered foreign matter blocking the laser light path?	Remove the foreign matter.
Developer unit	4	Is the floated lid of the developer bottle blocking the laser light path?	Check the lid and place it properly.
	5	Is the developer material transported properly?	Remove the foreign matter if there is any. *1)
	6	Is there a foreign matter or dew on the drum seal?	Remove the foreign matter or dew.
	7	Is the upper drum seal of the developer unit in contact with the drum?	Correct the position of the drum seal or replace it.
Drum	8	Is there a foreign matter on the drum surface?	Replace the drum. If there is a convex foreign matter adhering to the drum surface, it indicates that the blade edge at this area is worn out. In this case, replace both the drum and the drum cleaning blade.
Transport path	9	Does the toner image contact with any foreign matter before the paper enters the fusing section after the separation?	Remove the foreign matter.
Discharge LED	10	Is any of the discharge LEDS off?	Replace the discharge LED.
Scanner	11	Is there a foreign matter on the light path?	Remove the foreign matter.
	12	Are the original glass (especially the position of shading correction plate) mirror and lens dirty?	Clean them.

Defective area	Step	Check items	Prescription
Cleaner	13	Is there any foreign matter, which contacts the drum on the cleaner stay?	Remove the foreign matter.

*1) Prescription for foreign matter in the doctor sleeve gap
- Pull the doctor blade in the direction of the arrow.
- Rotate the gear.
- Remove the foreign matter that has come out on the developer sleeve.
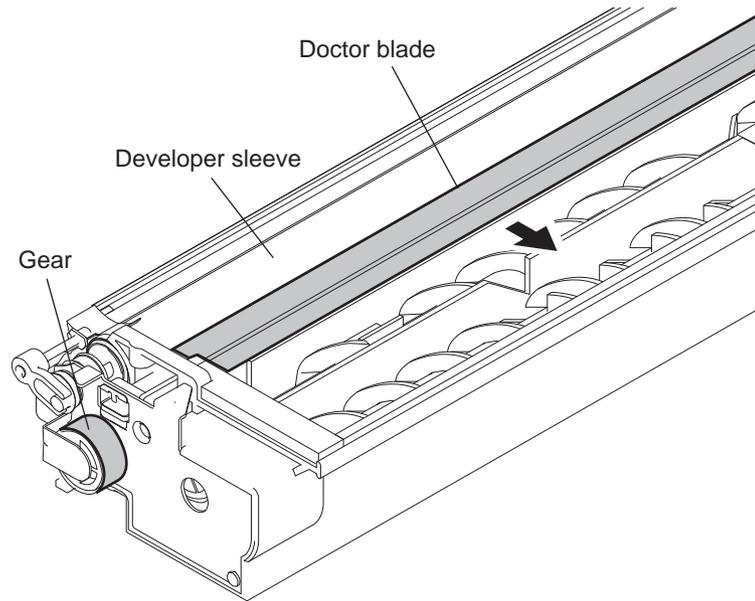
Fig.8-11

8.4.10 White banding (at right angle with the feeding direction)

Fig.8-12

Defective area	Step	Check items	Prescription
Main charger	1	Is there a foreign matter on the charger?	Remove the foreign matter.
	2	Is the connector in proper contact with the terminal?	Clean or adjust the terminal.
Drum	3	Is there any abnormality on the drum surface?	Replace the drum.
Discharge LED	4	Does the discharge LED light normally?	Replace the discharge LED or check the harness and the circuit.
Developer unit	5	Is the developer sleeve rotating normally? Is there any abnormality on the sleeve surface?	Check the drive system of the developer unit, or clean the sleeve surface.
Drive system	6	Are the drum and scanner jittering?	Check each drive system.
High-voltage transformer (Main charger / Developer bias / Transfer roller unit)	7	Is the high-voltage transformer output defective?	Adjust the output, or replace the transformer.
Transfer roller unit	8	Is there any foreign matter adhering to the transfer roller? Is there any abnormality in the appearance of the roller? Has the number of output pages exceeded the threshold for the life of the transfer roller?	Remove the foreign matter from the roller surface. Replace the roller if there is any abnormality in its appearance. Also replace the roller if the number of output pages has exceeded the threshold of its life.
Feed system	9	Is the aligning amount proper?	Adjust the aligning amount.

8.4.11　Skew (inclined image)
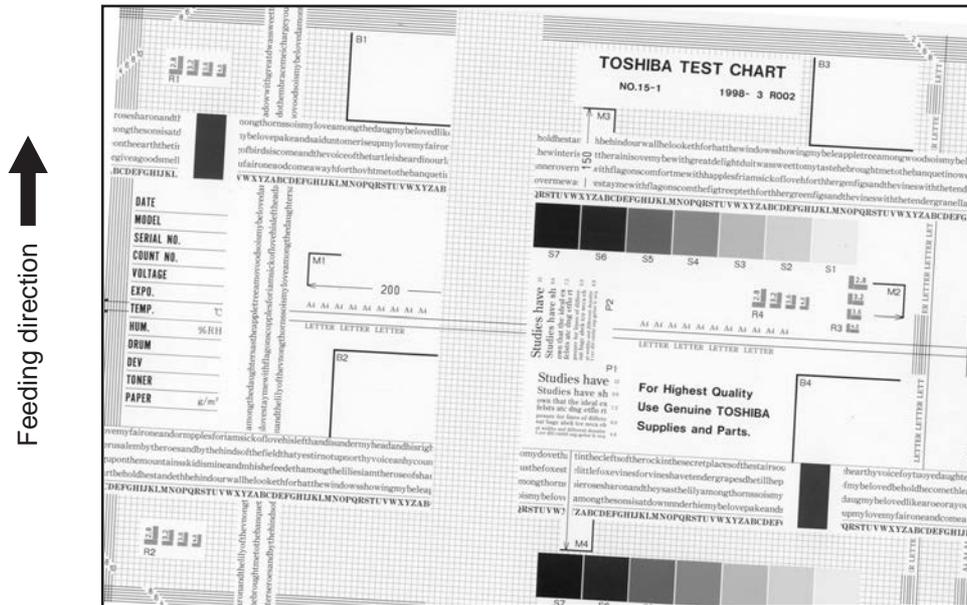
Fig.8-13

Defective area	Step	Check items	Prescription
Drawers LCF	1	Is the drawer or LCF properly installed?	Install the drawer or LCF properly.
	2	Is there too much paper in the drawer or LCF?	Reduce paper to 550 or fewer sheets in the drawer. Reduce paper to 1000 or fewer sheets in the feeding side tray and the standby side tray of LCF, respectively.
	3	Is the corner of the paper folded?	Change the direction of the paper and set it again.
	4	Are the side guides of the drawer or LCF properly installed?	Adjust the position of the side guides.
Feed roller	5	Is the surface of the feed roller dirty?	Clean the feed roller surface with alcohol, or replace the roller.
Rollers	6	Are the roller and shaft secured?	Check and tighten the E-rings, pins, clips and setscrews.
Registration roller	7	Is the spring detached from the registration roller?	Attach the spring correctly. Clean the roller if it is dirty.
Pre-registration guide	8	Is the pre-registration guide properly installed?	Correct it.
Scanner	9	Is the carriage-1 slanted?	Adjust the carriage-1.

8.4.12 Black banding (in the feeding direction)
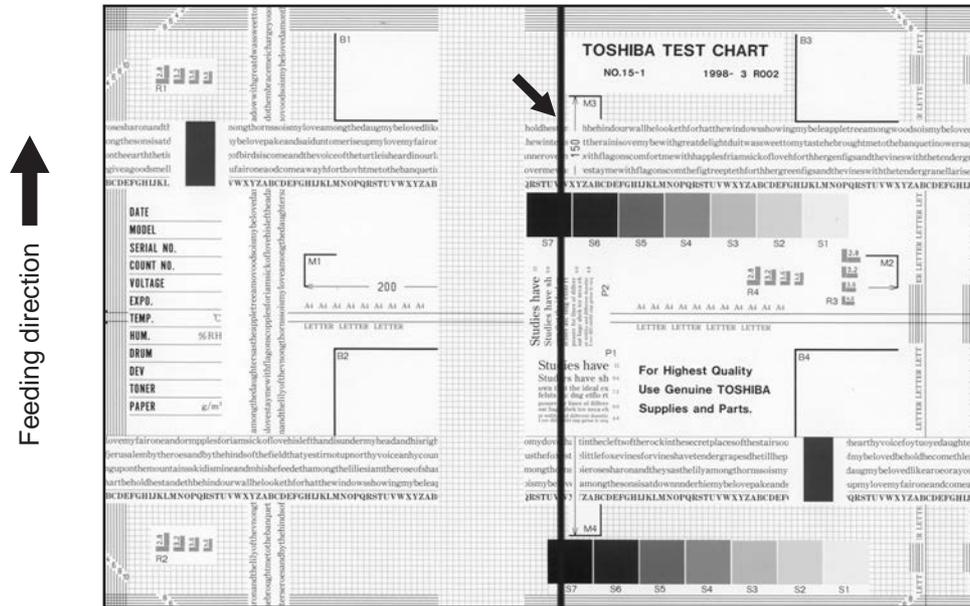
Fig.8-14

Defective area	Step	Check items	Prescription
Scanner	1	Is there a foreign matter on the light path?	Clean the slit, lens and mirrors.
Shading correction plate	2	Is there dust or stains on part of the original glass where the shading correction plate is placed.	Clean the plate.
Main charger	3	Is there a foreign matter on the main charger grid?	Remove the foreign matter.
	4	Is the main charger grid dirty or deformed?	Clean or replace the main charger grid.
	5	Is there a foreign matter on the main charger?	Remove the foreign matter.
	6	Is the needle electrode dirty or deformed?	Clean or replace the needle electrode.
	7	Is there a foreign matter inside the main charger case?	Remove the foreign matter.
	8	Is the inside of the main charger case dirty?	Clean the inside of the main charger case.
Cleaner	9	Is there paper dust sticking to the drum cleaning blade edge?	Clean or replace the cleaning blade.
	10	Is the drum cleaning blade working properly?	Check the pressurization of the drum cleaning blade.
	11	Has the used toner been recovered properly?	Clean the toner recovery auger.
Fuser unit	12	Is the fuser roller surface dirty or damaged?	Clean or replace the fuser roller.
	13	Is the thermistor dirty?	Clean the thermistor.
Drum	14	Are there scratches on the drum surface?	Replace the drum.
Laser optical unit	15	Is there a foreign matter or stain on the slit glass?	Remove the foreign matter or the stain.

8.4.13 Black banding (at right angle with the feeding direction)
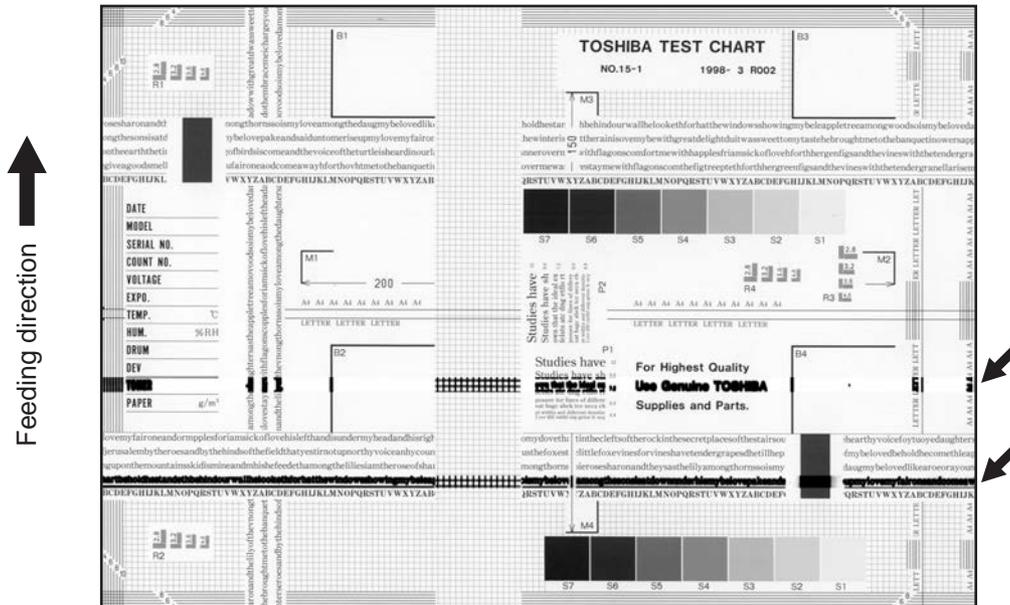
Fig.8-15

Defective area	Step	Check items	Prescription
Main charger	1	Is the needle electrode dirty or deformed?	Clean or replace the needle electrode.
Fuser unit	2	Are the fuser roller, separation finger for fuser roller and thermistor dirty?	Clean them.
	3	Has the fuser roller and separation finger for fuser roller reached their PM life?	Replace them.
High-voltage transformer (Main charger / Developer bias / Transfer roller unit)	4	Is the high-voltage transformer output defective?	Adjust the output, or replace the transformer.
Drum	5	Is there a deep scratch on the drum surface?	Replace the drum if the scratch has reached the aluminum base.
	6	Is there thin scratch (drum pitting) on the drum surface?	Check and adjust the contact condition of the cleaning blade and recovery blade.
Scanner	7	Is there a foreign matter on the carriage rail?	Remove the foreign matter.

8.4.14 White spots

Feeding direction
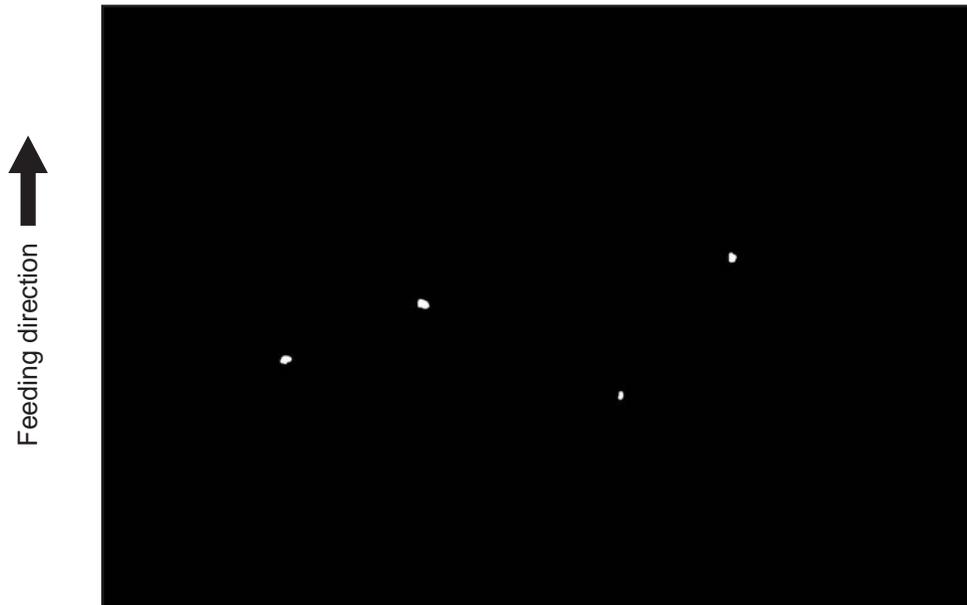
Fig.8-16

Defective area	Step	Check items	Prescription
Developer unit, Toner cartridge	1	Is the toner density in the developer material appropriate?	Check and correct the auto-toner sensor and toner supply operation. Check if the amount of the toner is sufficient in the toner cartridge.
	2	Is the doctor-sleeve gap proper?	Adjust the doctor-sleeve gap.
Developer material, Toner, Drum	3	Using the specified developer material, toner and drum?	Use the specified developer material, toner and drum.
	4	Have the developer material and drum reached their PM life?	Replace the developer material and drum.
	5	Is the storage environment of the toner cartridge 35°c or less without dew?	Use the toner cartridge stored in the environment with specification.
	6	Is there any dent on the drum surface?	Replace the drum.
	7	Is there any film forming on the drum?	Clean or replace the drum.
Main charger	8	Is there any foreign matter on the charger?	Remove it.
	9	Is the needle electrode dirty or deformed?	Clean or replace the needle electrode.
High-voltage transformer (Main charger / Developer bias / Transfer roller unit)	10	Is the high-voltage transformer output defective?	Adjust the output, or replace the transformer.
Transfer roller unit	11	Is there any foreign matter such as fiber in the paper transport area of the transfer roller unit?	Clean the transfer roller unit.
	12	Is there any foreign matter on the transfer roller? Is there any abnormality on its appearance?	Remove the foreign matter or replace the transfer roller.

8.4.15 Poor image transfer

Fig.8-17

Defective area	Step	Check items	Prescription
Paper	1	Is the paper in the drawer or LCF/PFP curled?	Reinsert the paper with the reverse side up or change the paper.
	2	Is the paper in the drawer or LCF damp?	Avoid storing paper in damp place.
	3	Is the paper type corresponding to its mode?	Select the proper mode.
	4	Using the recommended paper?	Use the recommended paper.
Transfer roller unit	5	Is the transfer roller contacting with the drum? Are the charger pushing-spring and the transfer roller pressure spring installed properly?	Check them and reinstall if required.
Registration roller	6	Is there any abnormality related to the registration roller or with the roller itself?	Clean the roller if it is dirty. Securely attach the springs if they are detached. Replace the clutch if it is defective. Adjust the rotation speed of the roller.
High-voltage transformer (Transfer roller unit)	7	Is the high-voltage transformer output defective?	Adjust the output, or replace the transformer.

8.4.16 Uneven image density
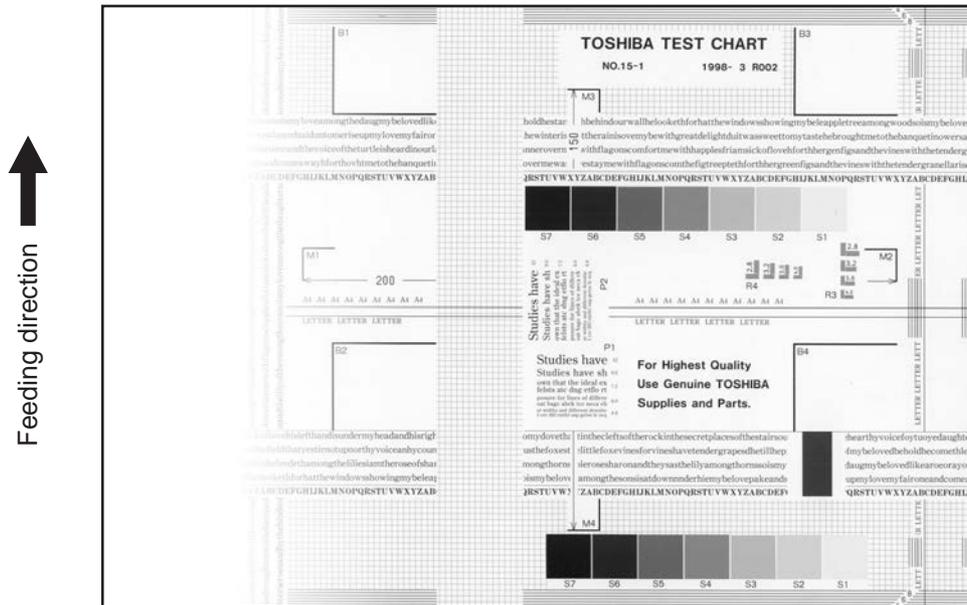
Fig.8-18

Defective area	Step	Check items	Prescription
Main charger	1	Is the main charger dirty?	Clean or replace the needle electrode and main charger grid.
Transfer roller unit	2	Is the transfer roller contacting with the drum? Are the charger pushing-spring and the transfer roller pressure spring installed properly?	Check them and reinstall if required.
Laser optical unit	3	Is there any foreign matter or stain on the slit glass?	Remove the foreign matter or stain.
Discharge LED	4	Are the connectors of discharge LED harness securely connected?	Reconnect the harness securely.
	5	Is the discharge LED dirty?	Clean the discharge LED.
	6	Is any of the discharge LEDs off?	Replace the discharge LED.
Developer unit	7	Is the magnetic brush in proper contact with the drum?	Adjust the doctor-sleeve gap.
	8	Is the developer sleeve pressurization mechanism working?	Check the mechanism.
	9	Is the developer material transported normally?	Remove foreign matters if there is any.
Scanner	10	Is the original cover or RADF opened?	Close the original cover or RADF.
	11	Are the original glass (especially the position of shading correction plate), mirror and lens dirty?	Clean them.

8.4.17 Faded image (low density, abnormal gray balance)
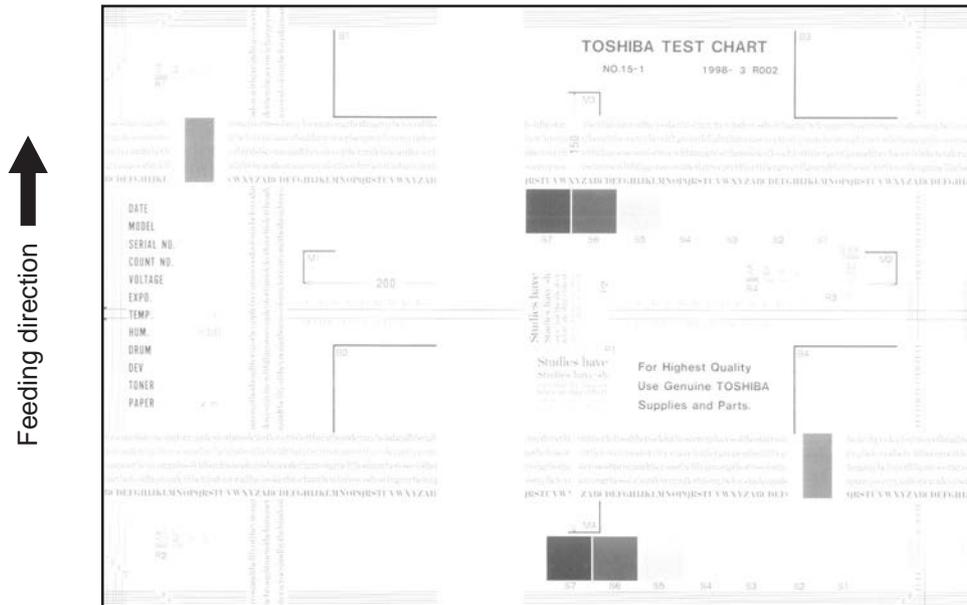
Fig.8-19

Defective area	Step	Check items	Prescription
Toner empty	1	Is "ADD TONER" symbol lit?	Replace the toner cartridge.
Auto-toner circuit	2	Is there enough toner in the cartridge?	Check the performance of the auto-toner circuit.
	3	Is the toner density in the developer material too low?	
Toner motor	4	Is the toner motor working normally?	Check the toner motor and the motor drive.
Toner cartridge	5	Is there any problem with the toner cartridge?	Replace the toner cartridge.
Developer material	6	Has the developer material reached its PM life?	Replace the developer material.
Developer unit	7	Is the magnetic brush in proper contact with the drum?	Check the installation of the developer unit. Adjust the doctor-sleeve gap and polarity.
	8	Is the developer sleeve pressurization mechanism working?	Check the mechanism.
Main charger	9	Is the main charger dirty?	Clean it or replace the needle electrode and main charger grid.
Drum	10	Is "film-forming" occurring on the drum surface?	Clean or replace the drum.
	11	Has the drum reached its PM life?	Replace the drum.
Transfer roller unit	12	Is the transfer roller contacting with the drum? Is the transfer roller pressure spring installed properly?	Check them and reinstall if required.
High-voltage transformer	13	Is the setting for the high-voltage transformer proper?	Adjust the output from the high-voltage transformer.
	14	Are the connectors of the high-voltage harness securely connected? Is the harness open circuited?	Reconnect the harness securely. Replace the high-voltage harness.
Discharge LED	15	Are the connectors of discharge LED harness securely connected?	Reconnect the harness securely.

8.4.18 Image dislocation in feeding direction
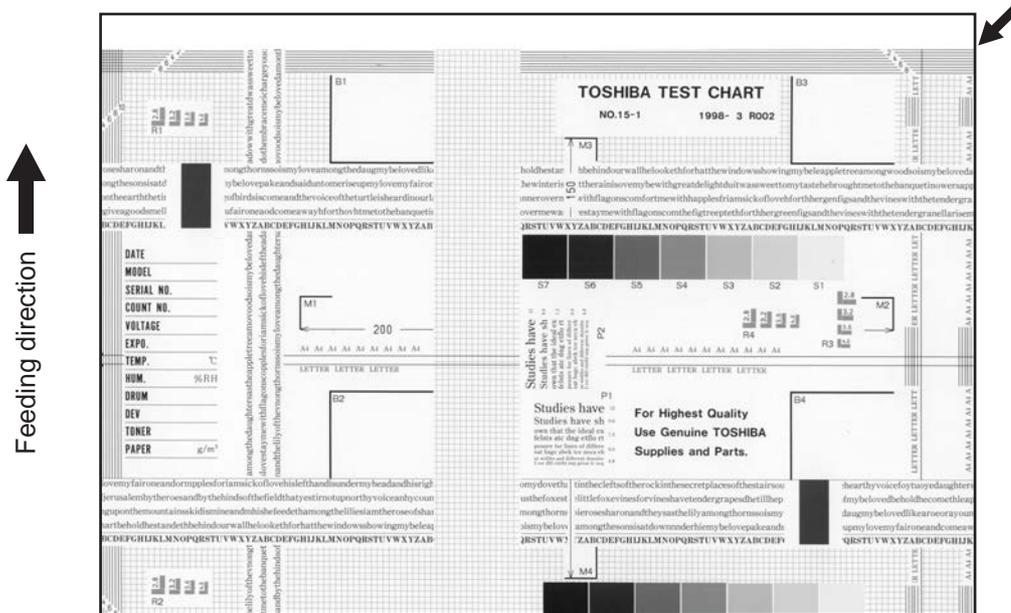
Fig.8-20

Defective area	Step	Check items	Prescription
Scanner/Printer adjustment	1	Have the printed images been dislocated in the same manner?	Adjust the position of the leading edge of paper in the Adjustment Mode.
Registration roller	2	Is the registration roller dirty, or the spring detached?	Clean the registration roller with alcohol. Securely attach the springs.
	3	Is the registration roller working properly?	Adjust or replace the gears if they are not engaged properly.
Feed clutch	4	Is the feed clutch working properly?	Check the circuit or feed clutch, and replace them if necessary.
Pre-registration guide	5	Is the pre-registration guide installed properly?	Install the guide properly.

8.4.19 Jittering image
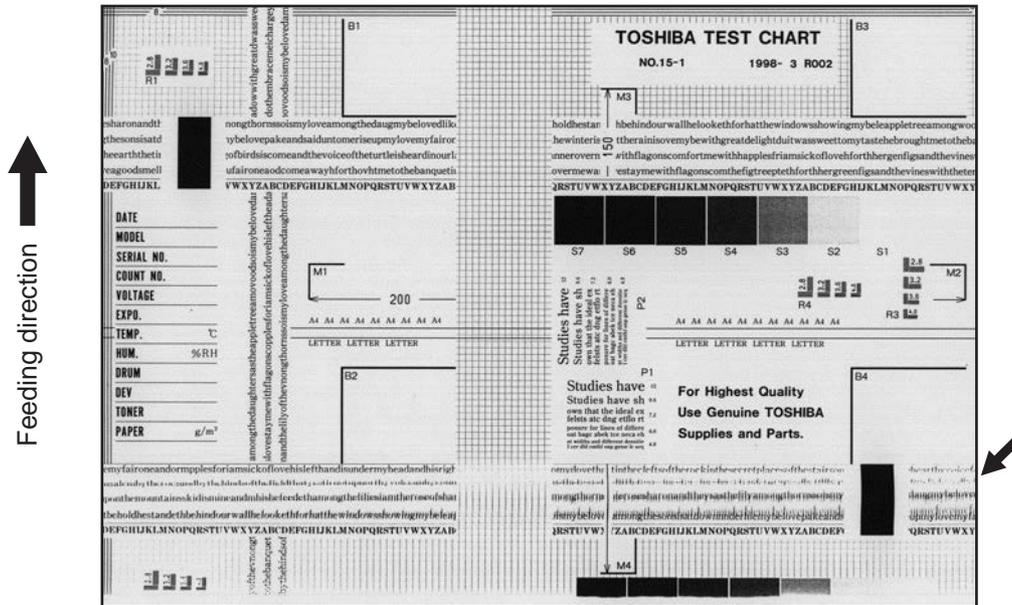
Fig.8-21

Defective area	Step	Check items	Prescription
—	1	Is the toner image on the drum normal?	If normal, perform steps 2 to 4. Perform step 5 and followings in case the image is abnormal.
Registration roller	2	Is the registration roller rotating normally?	Check the registration roller area and springs for installation condition.
Fuser roller and pressure roller	3	Are the fuser roller and pressure roller rotating normally?	Check the fuser roller area. Replace the rollers if necessary.
Drum	4	Is there a big scratch on the drum?	Replace the drum.
Operation of carriage	5	Is there any problem with the slide sheet?	Replace the slide sheet.
	6	Is there any problem with the carriage foot?	Replace the carriage foot.
	7	Is the tension of the timing belt normal?	Adjust the tension.
	8	Is there any problem with the drive system of the carriage?	Check the drive system of the carriage.
Scanner	9	Is the mirror secured?	Secure it.
Drum drive system	10	Is there any problem with the drive system of the drum?	Check the drive system of the drum. Clean or replace the gears if they have stains or scratches.

8.4.20 Poor cleaning
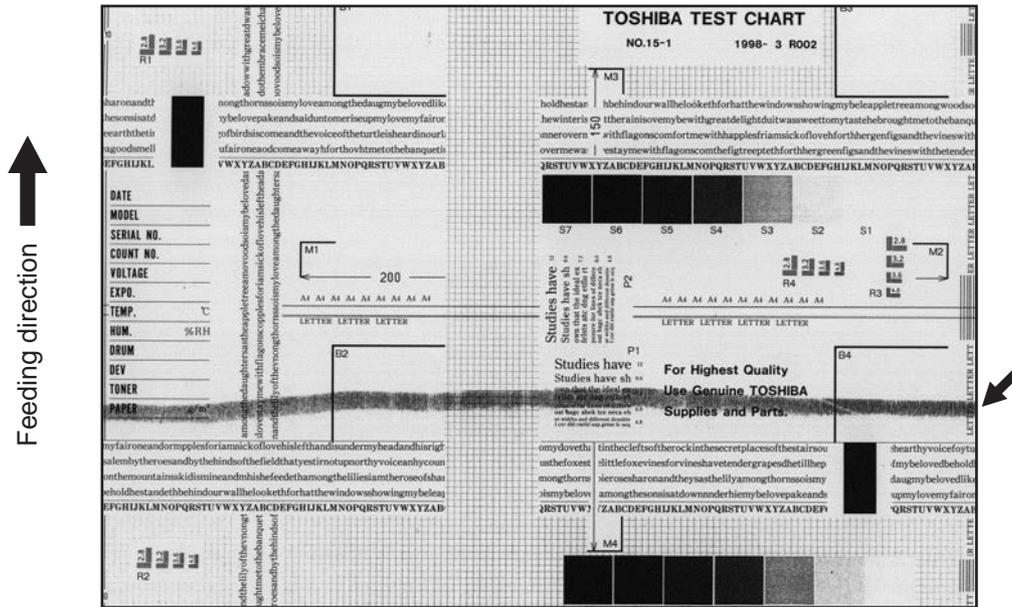
Fig.8-22

Defective area	Step	Check items	Prescription
Developer material	1	Using the specified developer material?	Use the specified developer material and toner.
Cleaner	2	Is the cleaning blade in proper contact with the drum?	Check the cleaning blade.
	3	Has the cleaning blade been turned up?	Replace the cleaning blade. Check and replace drum if necessary.
Toner recovery auger	4	Is the toner recovered normally?	Clean the toner recovery auger. Check the pressure of the cleaning blade. Check if the toner recovery auger is rotated properly.
Fuser unit	5	Are there bubble-like scratches on the fuser roller (94 mm pitch on the image), (110mm: e-STUDIO356/456/506 / e-STUDIO357/457/507)?	Replace the fuser roller. Check and adjust the temperature control circuit.
	6	Has the fuser roller reached its PM life?	Replace the fuser roller.
	7	Is the pressure of the fuser roller normal?	Check and adjust the mechanism.
	8	Is the setting temperature of the fuser roller normal?	Check the setting and correct it. 08-2009, 2010, 2101, 2120, 2140 (08-5285: e-STUDIO356/456/506 / e-STUDIO357/457/507)

8.4.21 Uneven light distribution

Feeding direction
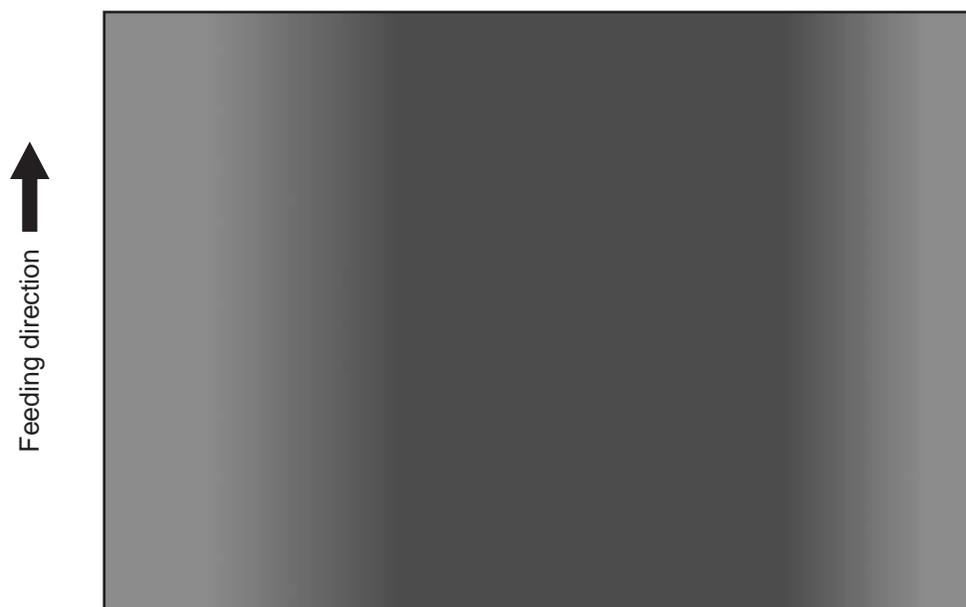
Fig.8-23

Defective area	Step	Check items	Prescription
Original glass	1	Is the original glass dirty?	Clean the original glass.
Main charger	2	Are the needle electrode, main charger grid and main charger case dirty?	Clean or replace them.
Discharge LED	3	Is the discharge LED dirty?	Clean the discharge LED.
	4	Is any of the discharge LEDs off?	Replace the discharge LED.
Scanner	5	Are the reflector, exposure lamp, mirrors, lens, and original glass (especially the position of shading correction plate) dirty?	Clean them.
Exposure lamp	6	Is the exposure lamp tilted?	Adjust the position of the exposure lamp.
	7	Is the exposure lamp discolored or degraded?	Replace the exposure lamp.

8.4.22 Blotched image
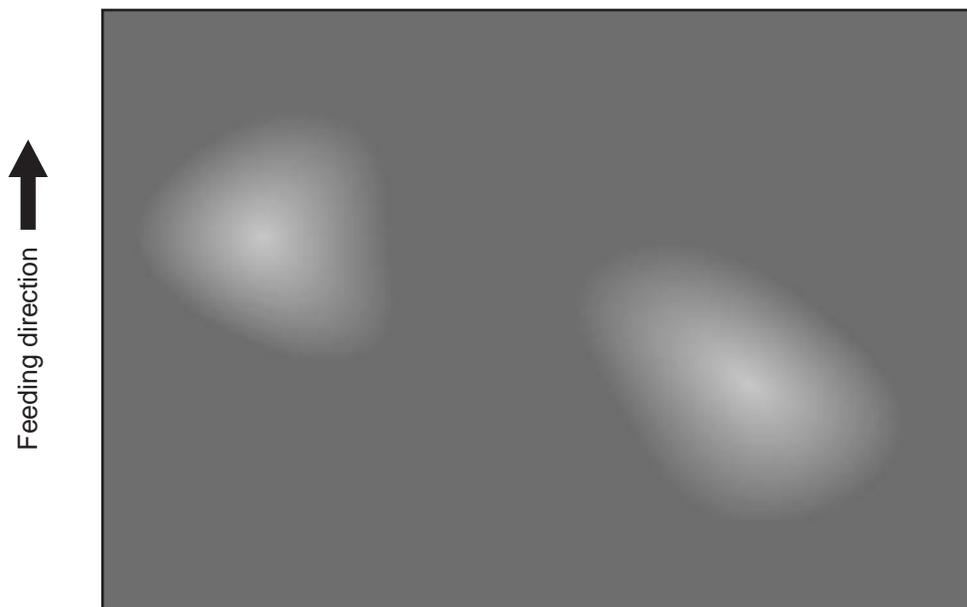
Fig.8-24

Defective area	Step	Check items	Prescription
Paper	1	Is the paper type corresponding to its mode?	Check the paper type and mode.
	2	Is the paper too dry?	Change the paper.
Transfer roller unit	3	Is the power supplying spring of the transfer roller installed securely? (Is it almost detached?)	Check the power supplying spring and reinstall it.
High-voltage transformer (Transfer roller unit)	4	Is the output from the high-voltage transformer normal?	Adjust the output. Replace the transformer if necessary.
Separation	5	Is the output from the separation charger too high?	Adjust the output, from the separation charger.

8.4.23 Black streaks on image leading edge during scanning
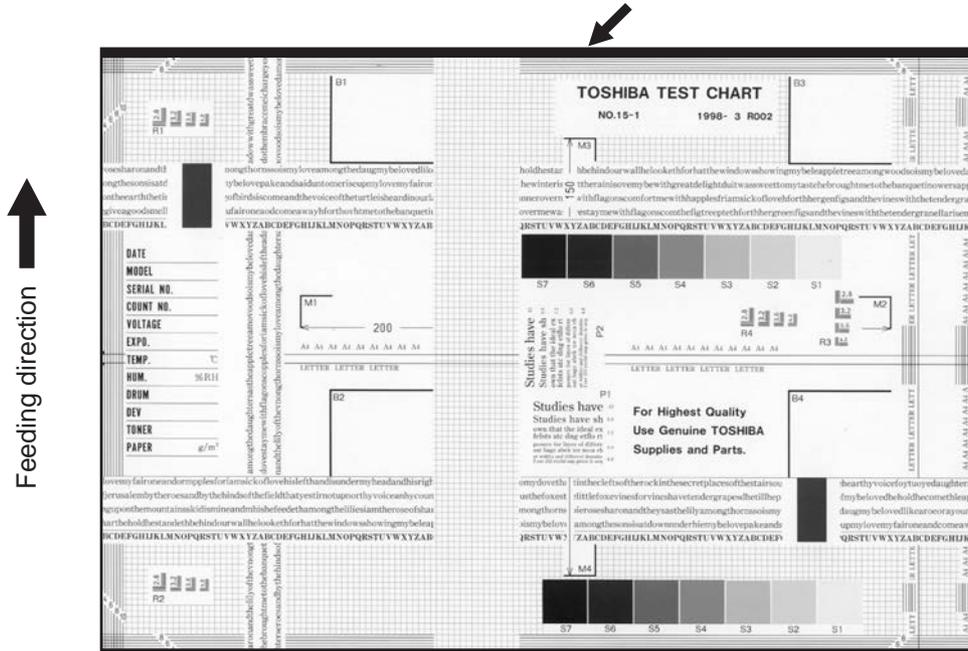
Fig.8-25

Defective area	Step	Check items	Prescription
Scanner	1	Amount of surrounding void (network scanning)	Perform 05-7489 to adjust the amount of the surrounding void during network scanning.

8.5　Other Errors

8.5.1　When "SET FUSER UNIT" is displayed.

When the signal for installing the fuser unit cannot be detected with the LGC board, "SET FUSER UNIT" appears.
In this case, check the following.
1. Check that the screw fixing the fuser unit is not loose.
2. Remove CN309 and check if the circuit between 1 pin and 7 pin is electrically conducted.
3. Replace the LGC board.

8.5.2　Hard disk full error "H04" is displayed

Perform the following, referring to 📖 P. 9-19 "9.3.3 Precautions and procedures when replacing the HDD".
- Back up the user data
  (1)　[A] Back up data in HDD
  (2)　[B] Print out "FUNCTION LIST FOR MAINTENANCE"
  (3)　[C] Print out "FUNCTION" list

- Initialize the HDD
  (4)　[E] Replace / Format HDD
  　　　Step 2 for replacing the HDD is unnecessary.

- Restore the user data
  (5)　[F] Reset user's setting items and restore data/information
  (6)　[G] Reset "FUNCTION LIST FOR MAINTENANCE"
  (7)　[H] Reset "FUNCTION" list

- Adjust image quality
  (8)　[I] Adjust image quality

8.5.3　Error code "M00" is displayed while updating firmware

Check Item	Measure
Switching regulator	• Connector check (CN415) • Harness check
LGC board	• Connector check (CN301, CN312) • Harness check

Replacement part	Remark
Switching regulator	
LGC board	

9. REPLACEMENT OF HDD/PC BOARDS

9.1 Installation and Replacement of PC boards <e-STUDIO206L/256/306/356/456/506>

Notes:

• When the PC board/HDD is replaced, refer to the respective Notes and Cautions of "Replacement of PC board and HDD" in 📖 P. 9-16 "9.3 Precautions and Procedures for Replacing PC Boards and HDD".

• If the PC board has to be replaced due to an operational defect, this may have been caused by a contact failure of the connector. Before replacing the board, disconnect and then reconnect the connector to check if this action eliminates the operational defect.

9.1.1 System control PC board (SYS board)

(1) Take off the rear cover.
    (📖 P. 4-3 "4.1.6 Rear cover").
(2) Disconnect 8 connectors, remove 5 screws, and then take off the SYS board [1].
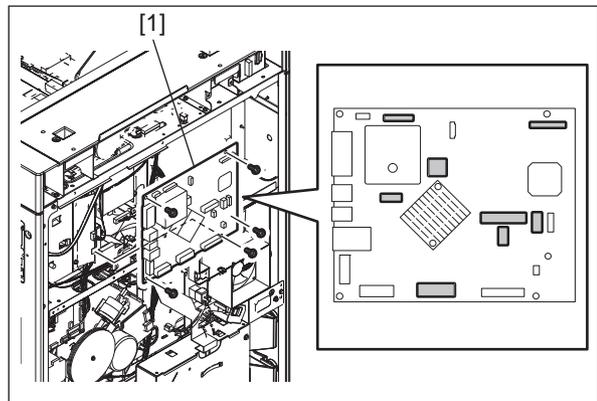
Fig. 9-1

9.1.2 Hard disk (HDD)

[A] Normal hard disk (SATA-HDD)

(1) Take off the SYS board.
    (📖 P. 9-1 "9.1.1 System control PC board (SYS board)").
(2) Remove 2 screws, and then take off the protection film [1].
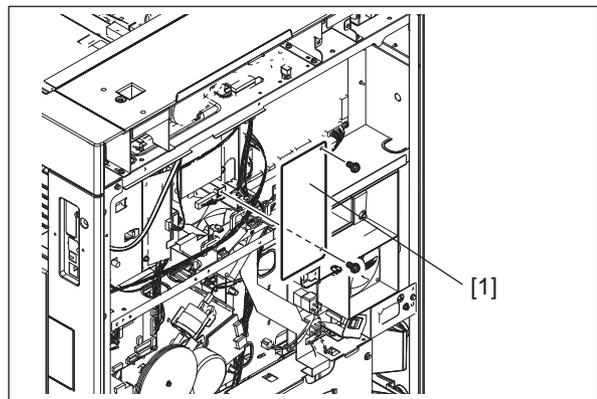
Fig. 9-2

(3) Remove 5 screws, disconnect 2 connectors, and then take off the HDD.
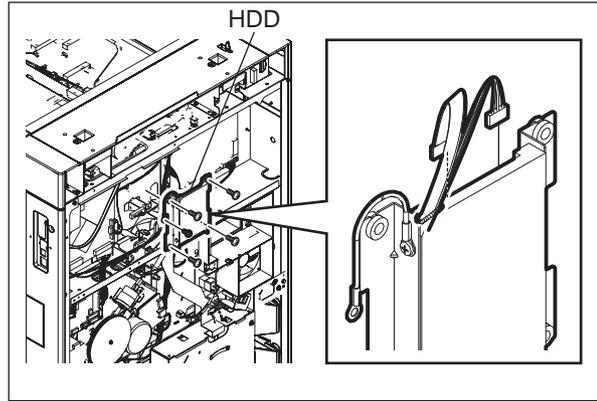
HDD

Fig. 9-3

(4) Remove 4 screws and then remove 2 brackets and the ground wire from the HDD.

Bracket

Bracket

Ground wire
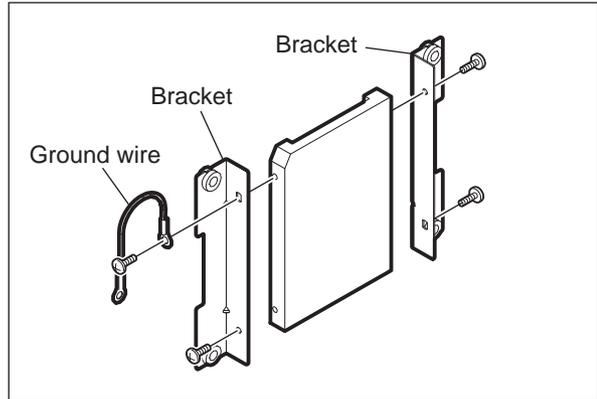
Fig. 9-4

[B] Normal hard disk (ADI-HDD)

(1) Take off the SYS board.
 (📖 P. 9-1 "9.1.1 System control PC board (SYS board)").

(2) Remove 2 screws, and then take off the protection film [1].

[1]
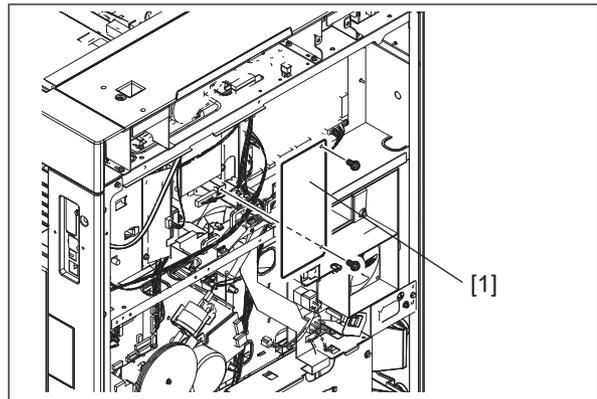
Fig. 9-5

(3) Remove 5 screws, disconnect 2 connectors, and then take off the HDD.
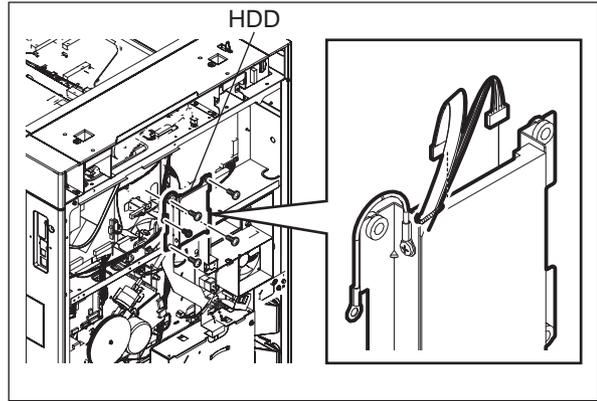
HDD

Fig. 9-6

(4) Remove 4 screws and then remove 2 brackets and the ground wire from the HDD.

Bracket

Bracket

Ground wire
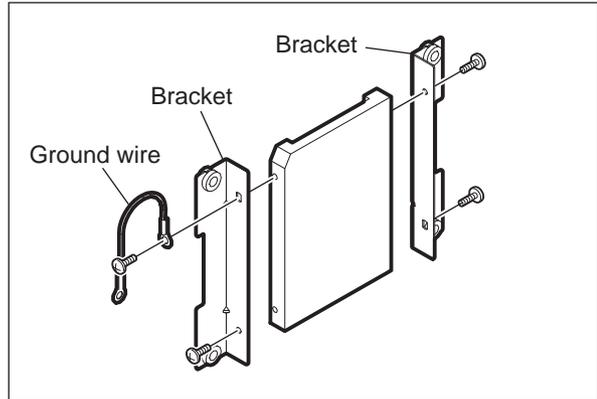
Fig. 9-7

9.1.3   LGC board (e-STUDIO206L/256/306)

(1) Take off the rear cover
(📖 P. 4-3 "4.1.6 Rear cover").
(2) Disconnect 15 connectors, remove 4 screws, and then take off the LGC board [1].

Notes:

When replacing the LGC board, remove IC29 from the old board and then install it on the new one.

• When installing EEPROM (IC29)[2], be sure that its pins are attached in the correct direction and not misaligned.

• Do not touch the pins of EEPROM (IC29)[2] with your bare hands. (Be careful of static electricity.)

• Replace the LGC board following 📖 P. 9-28 "9.3.5 Procedures when replacing the LGC board".
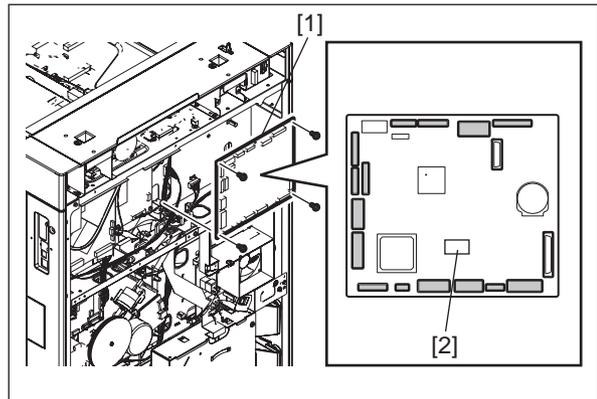
Fig. 9-8

9.1.4   LGC board (e-STUDIO356/456/506)

(1) Take off the rear cover
   (📖 P. 4-3 "4.1.6 Rear cover").

(2) Disconnect 16 connectors, remove 4 screws, and then take off the LGC board [1].

Notes:

When replacing the LGC board, remove IC29 from the old board and then install it on the new one.

- When installing EEPROM (IC29)[2], be sure that its pins are attached in the correct direction and not misaligned.

- Do not touch the pins of EEPROM (IC29)[2] with your bare hands. (Be careful of static electricity.)

- Replace the LGC board following 📖 P. 9-28 "9.3.5 Procedures when replacing the LGC board".
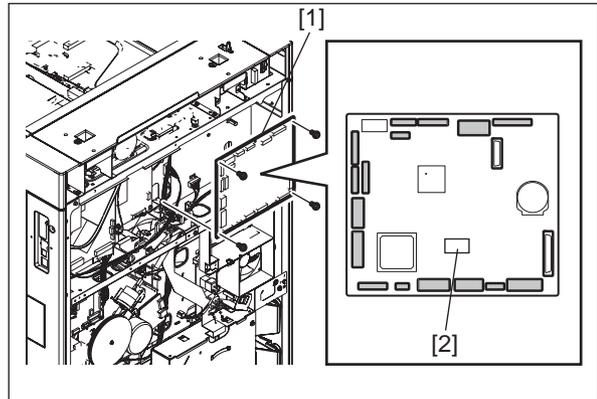
Fig. 9-9

9.1.5   MOT board (e-STUDIO206L/256/306)

(1) Take off the rear cover
   (📖 P. 4-3 "4.1.6 Rear cover").

(2) Remove 1 screw, and take off the flywheel.
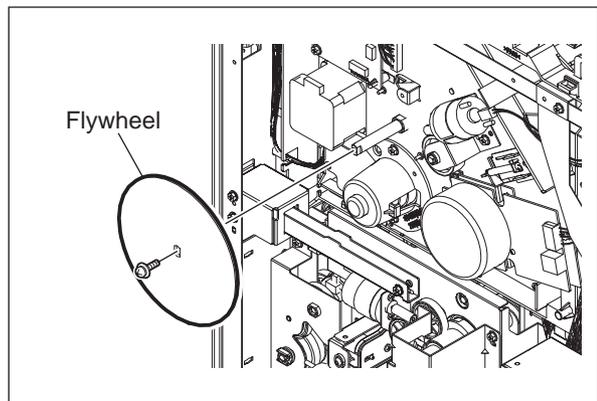
Fig. 9-10

(3) Disconnect 4 connectors, remove 2 locking supports and 2 screws, and then take off the MOT board.
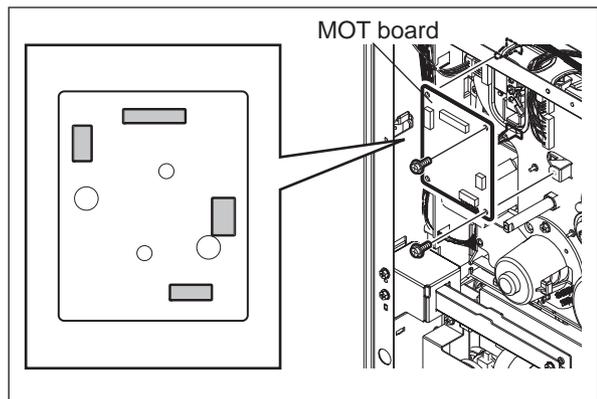
Fig. 9-11

9.1.6   MOT2 board (e-STUDIO356/456/506)

(1) Take off the rear cover
     (📖 P. 4-3 "4.1.6 Rear cover").
(2) Remove 1 screw, and take off the flywheel.
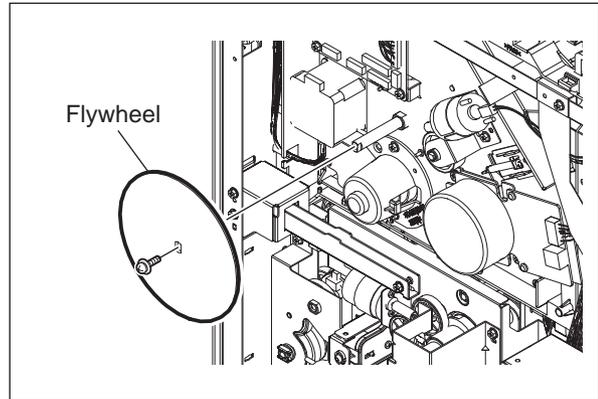
Fig. 9-12

(3) Disconnect 9 connectors, remove 4 screws,
     and then take off the MOT2 board.
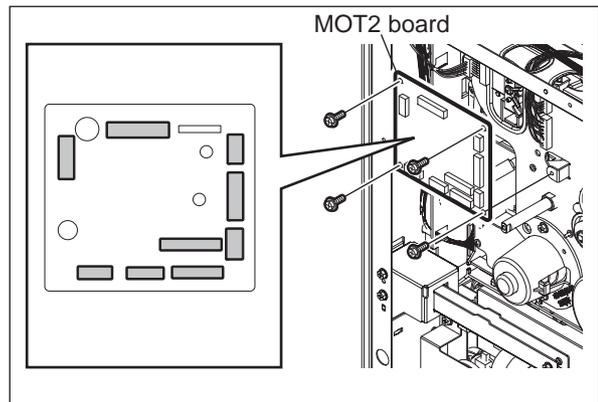
Fig. 9-13

9.1.7   Switching regulator

Notes:
Be very careful of residual charge in the capacitors of the switching regulator; this may remain even after the main power switch is turned OFF.

(1) Take off the laser optical unit.
     (📖 P. 4-58 "4.7.1 Laser optical unit").
(2) Take off the left cover
     (📖 P. 4-5 "4.1.10 Left cover").
(3) Disconnect 10 connectors, remove 9 screws,
     and then take off the Switching regulator.

Notes:
Be careful not to touch the area covered with a Mylar since electrical charge may remain.
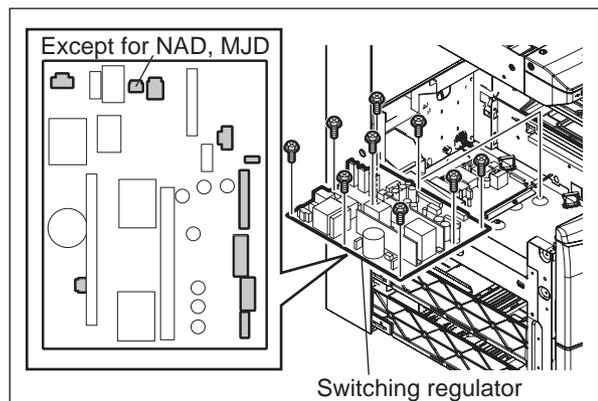
Fig. 9-14

9.1.8　High-voltage transformer

(1) Take off the laser optical unit.
　　(📖 P. 4-58 "4.7.1 Laser optical unit").
(2) Take off the left cover
　　(📖 P. 4-5 "4.1.10 Left cover").
(3) Remove 1 screw and take off the duct.
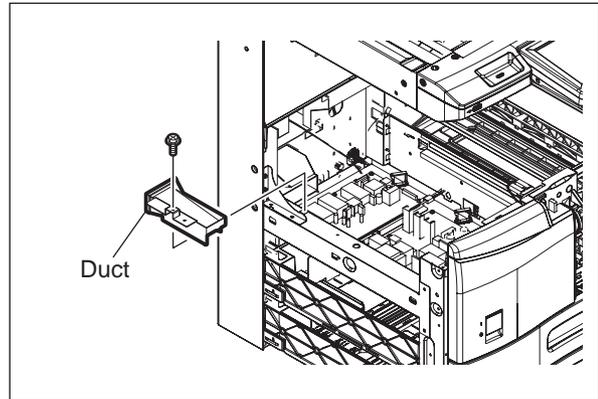
Fig. 9-15

(4)
- e-STUDIO206L/256/306: Disconnect 6 terminals and one connector, remove 2 screws, and then take off the High-voltage transformer together with its bracket.
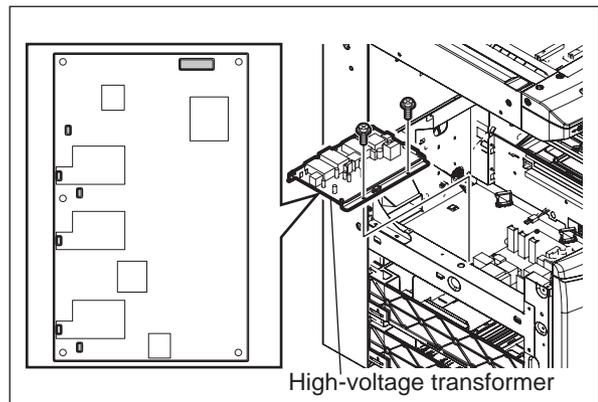
Fig. 9-16

- e-STUDIO356/456/506: Disconnect 6 terminals and 2 connectors, remove 2 screws, and then take off the High-voltage transformer together with its bracket.
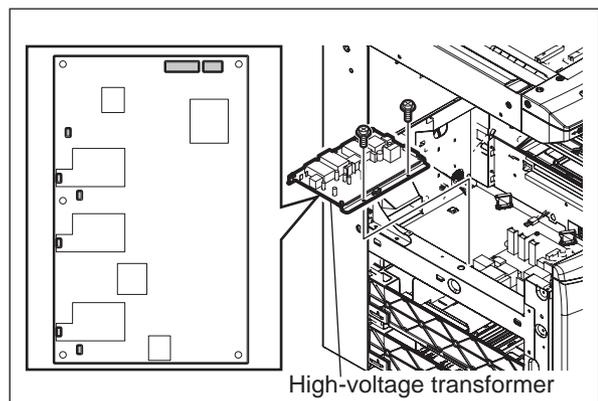
Fig. 9-17

(5) Remove 5 screws and then take off the bracket from the High-voltage transformer.
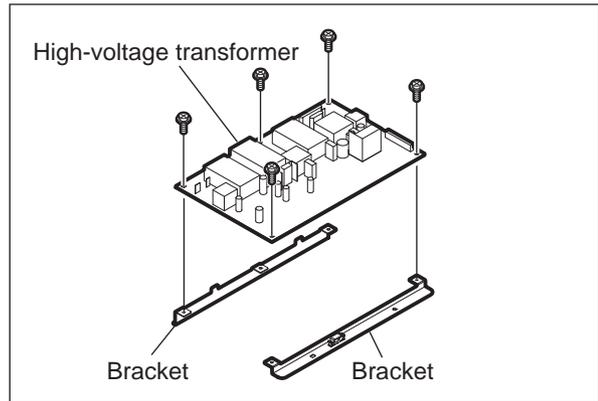
Fig. 9-18

9.1.9 SRAM board

(1) Take off the rear cover
(📖 P. 4-3 "4.1.6 Rear cover").
(2) Release 2 latches and take off the SRAM board for the SYS board with the case.
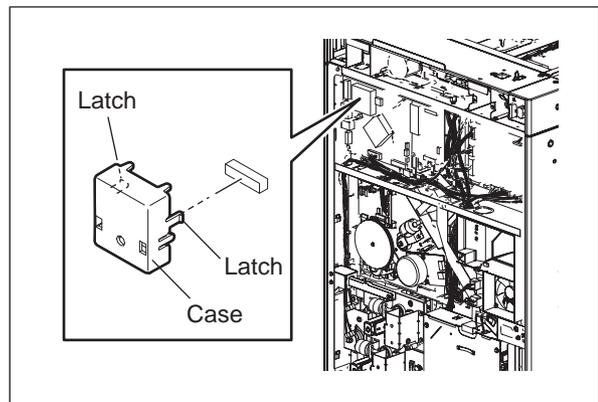
Fig. 9-19

(3) Release 2 latches and take off the SRAM board for SYS board from the case.

Fig. 9-20

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
REPLACEMENT OF HDD/PC BOARDS
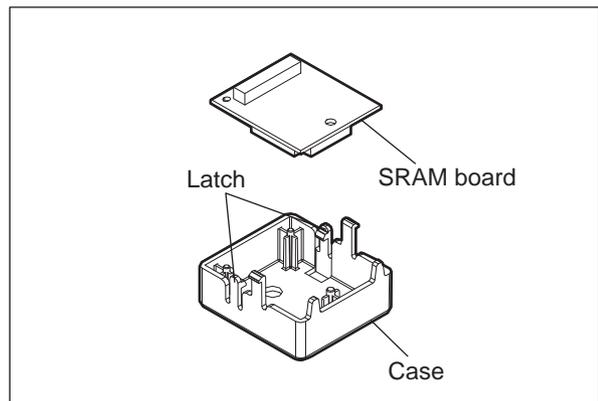
9.2 Installation and Replacement of PC boards <e-STUDIO207L/257/307/357/457/507>

Notes:
- When the PC board/HDD is replaced, refer to the respective Notes and Cautions of "Replacement of PC board and HDD" in 📖 P. 9-16 "9.3 Precautions and Procedures for Replacing PC Boards and HDD".
- If the PC board has to be replaced due to an operational defect, this may have been caused by a contact failure of the connector. Before replacing the board, disconnect and then reconnect the connector to check if this action eliminates the operational defect.

9.2.1 System control PC board (SYS board)

(1) Take off the rear cover.
 (📖 P. 4-12 "4.2.6 Rear cover").
(2) Remove 1 screw, take off the ground plate [1].
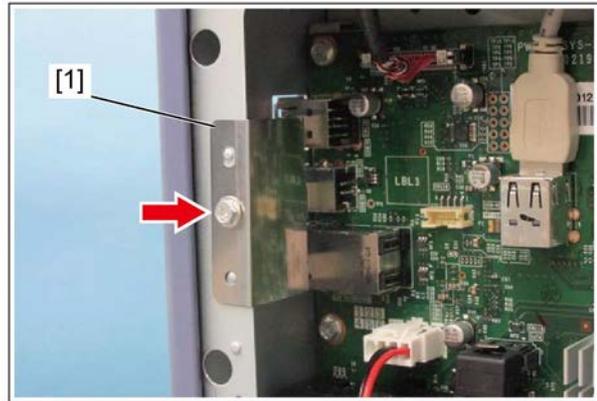
Fig. 9-21

(3) Disconnect 13 connectors.
(4) Remove 8 screws and then take off the SYS board [2].
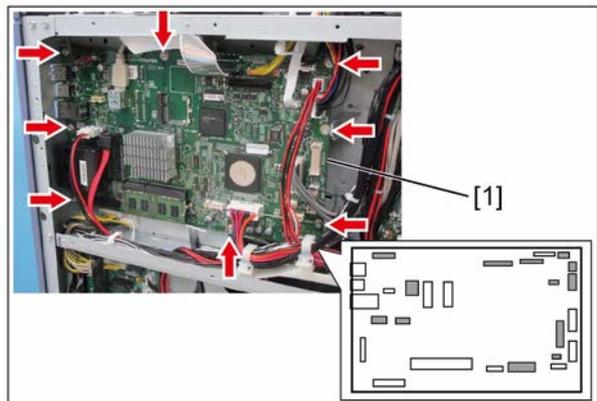
Fig. 9-22

9.2.2   Hard disk (HDD)

(1) Take off the rear cover.
     (P. 4-12 "4.2.6 Rear cover").
(2) Remove 3 screws.

Fig. 9-23

(3) Disconnect 1 connector [1], and then take off
     the HDD bracket [2].

Fig. 9-24

(4) Remove 1 screw with ground wire.

Fig. 9-25

(5) Remove 4 screws.
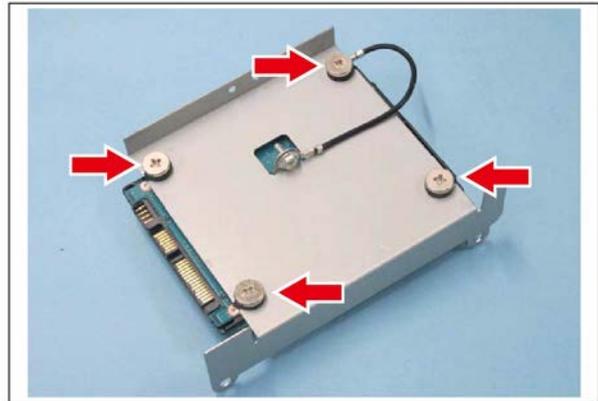
Fig. 9-26

(6) Take off the HDD [3] from HDD bracket [2].

Fig. 9-27

9.2.3 LGC board (e-STUDIO207L/257/307)

(1) Take off the rear cover
(📖 P. 4-12 "4.2.6 Rear cover").
(2) Disconnect 15 connectors.
(3) Remove 4 screws and then take off the LGC board [1].

Notes:

When replacing the LGC board, remove IC29 from the old board and then install it on the new one.

- When installing EEPROM (IC29)[2], be sure that its pins are attached in the correct direction and not misaligned.
- Do not touch the pins of EEPROM (IC29)[2] with your bare hands. (Be careful of static electricity.)
- Replace the LGC board following 📖 P. 9-28 "9.3.5 Procedures when replacing the LGC board".
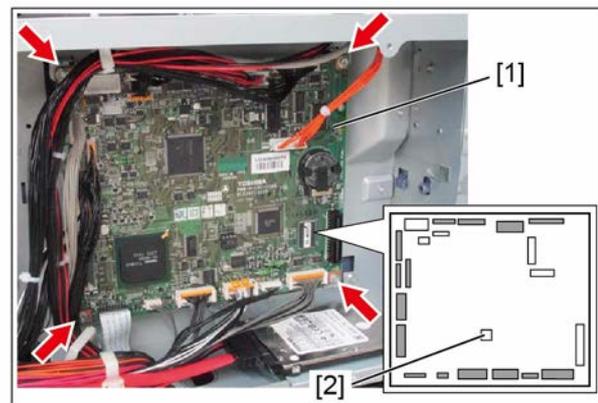
Fig. 9-28

9.2.4 LGC board (e-STUDIO357/457/507)

(1) Take off the rear cover
 (📖 P. 4-12 "4.2.6 Rear cover").
(2) Disconnect 16 connectors.
(3) Remove 4 screws and then take off the LGC board [1].

Notes:

When replacing the LGC board, remove IC29 from the old board and then install it on the new one.

- When installing EEPROM (IC29)[2], be sure that its pins are attached in the correct direction and not misaligned.
- Do not touch the pins of EEPROM (IC29)[2] with your bare hands. (Be careful of static electricity.)
- Replace the LGC board following 📖 P. 9-28 "9.3.5 Procedures when replacing the LGC board".
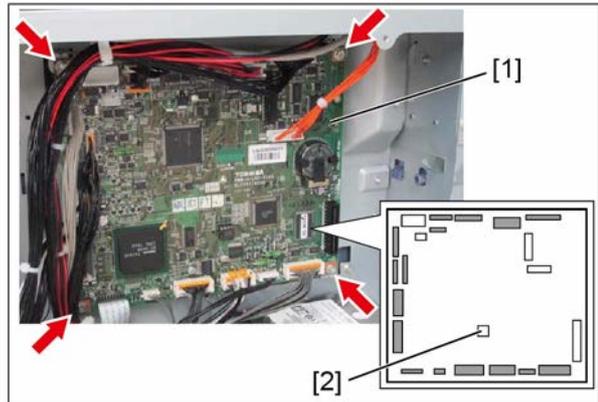
Fig. 9-29

9.2.5 MOT board (e-STUDIO207L/257/307)

(1) Take off the rear cover
 (📖 P. 4-12 "4.2.6 Rear cover").
(2) Remove 1 screw, and take off the flywheel.
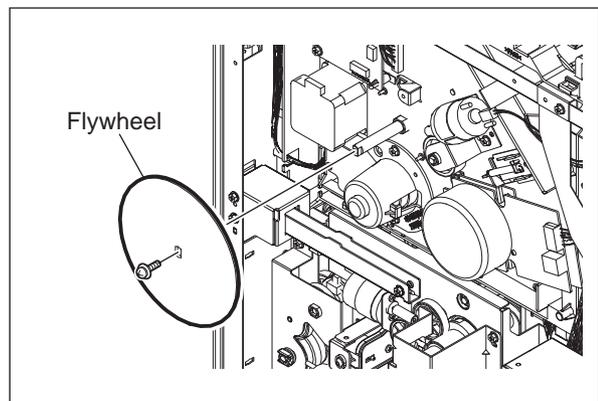
Flywheel

Fig. 9-30

(3) Disconnect 4 connectors, remove 2 locking supports and 2 screws, and then take off the MOT board.

MOT board
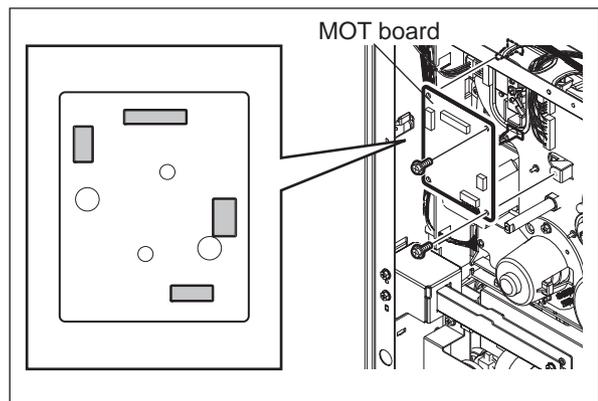
Fig. 9-31

9.2.6　MOT2 board (e-STUDIO357/457/507)

(1)　Take off the rear cover
　　　(📖 P. 4-12 "4.2.6 Rear cover").
(2)　Remove 1 screw, and take off the flywheel.
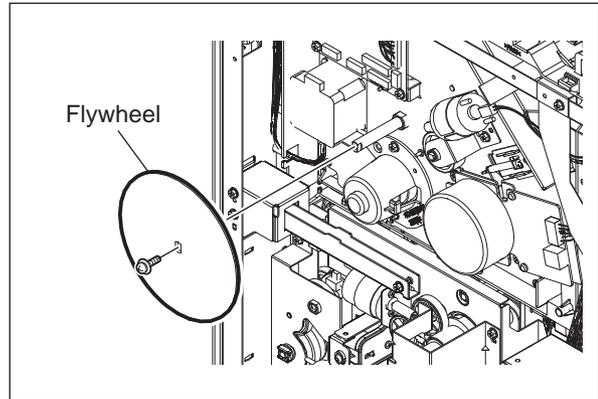
Fig. 9-32

(3)　Disconnect 9 connectors, remove 4 screws,
　　　and then take off the MOT2 board.
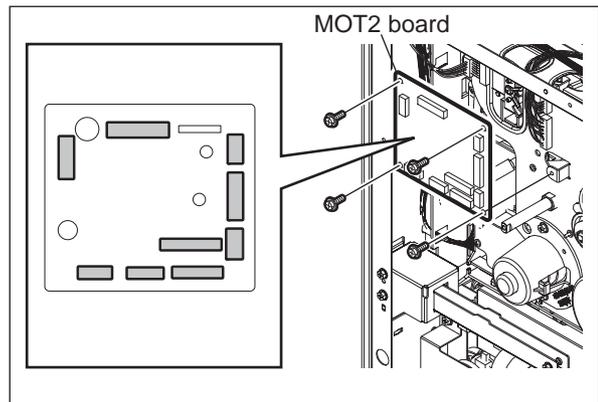
Fig. 9-33

9.2.7　Switching regulator

Notes:
Be very careful of residual charge in the capacitors of the switching regulator; this may remain
even after the main power switch is turned OFF.

(1)　Take off the laser optical unit.
　　　(📖 P. 4-60 "4.8.1 Laser optical unit").
(2)　Take off the left cover
　　　(📖 P. 4-13 "4.2.11 Left cover").
(3)　(3) Remove 1 screw and take off the plate
　　　[1].
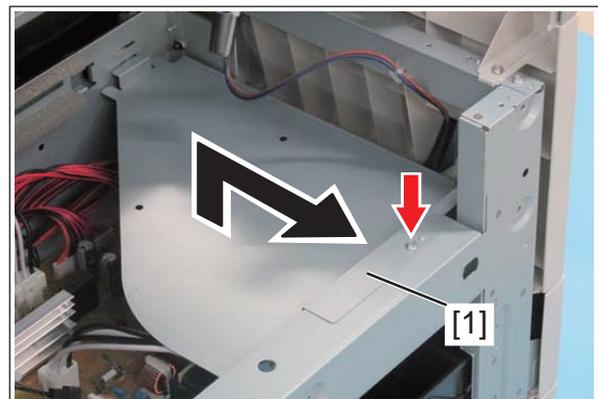
Fig. 9-34

(4) Disconnect 10 connectors, remove 9 screws, and then take off the Switching regulator.

Notes:

Be careful not to touch the area covered with a Mylar since electrical charge may remain.

Except for NAD, MJD

Switching regulator
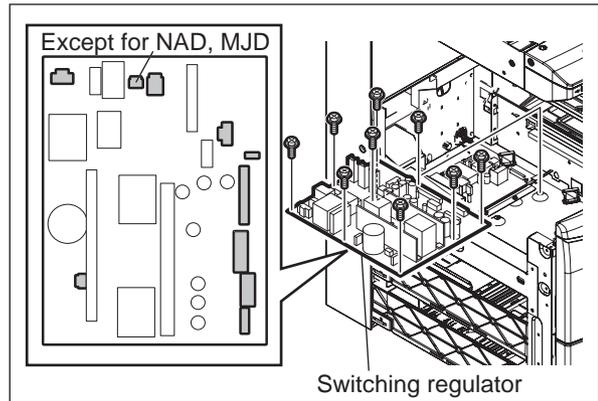
Fig. 9-35

9.2.8   High-voltage transformer

(1) Take off the laser optical unit.
   (📖 P. 4-60 "4.8.1 Laser optical unit").
(2) Take off the left cover
   (📖 P. 4-13 "4.2.11 Left cover").
(3) Disconnect 2 connectors [1], remove 2 screws and then take off the duct [2]

[1]

[2]
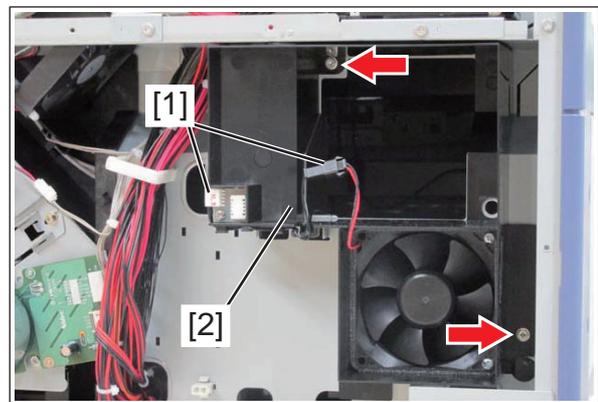
Fig. 9-36

(4) Remove the high-voltage transformer.
   • e-STUDIO207L/257/307: Disconnect 6 terminals and one connector, remove 2 screws, and then take off the High-voltage transformer together with its bracket.

High-voltage transformer
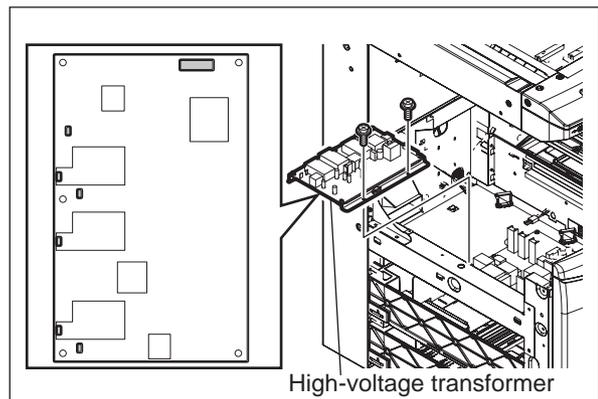
Fig. 9-37

- e-STUDIO357/457/507: Disconnect 6 terminals and 2 connectors, remove 2 screws, and then take off the High-voltage transformer together with its bracket.

High-voltage transformer
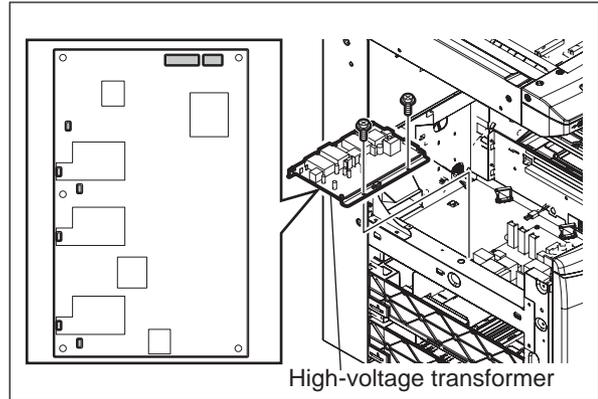
Fig. 9-38

(5) Remove 5 screws and then take off the bracket from the High-voltage transformer.

High-voltage transformer

Bracket   Bracket
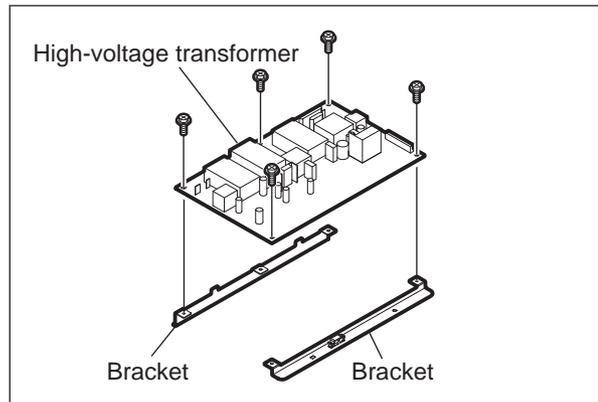
Fig. 9-39

9.2.9 SRAM board

(1) Take off the rear cover
(📖 P. 4-12 "4.2.6 Rear cover").
(2) Release 2 latches [1] and take off the SRAM board for the SYS board with the case.
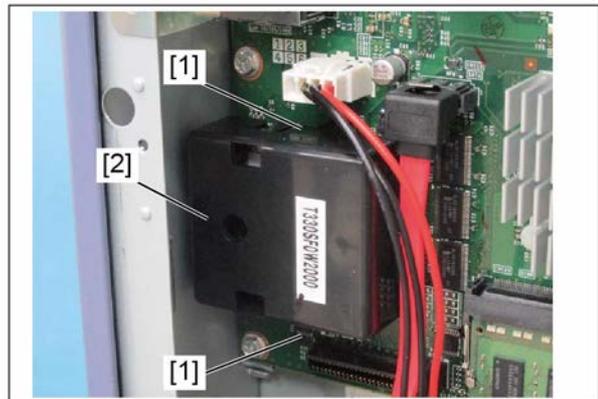
Fig. 9-40

(3) Release 2 latches and take off the SRAM board for SYS board from the case.

Fig. 9-41

9
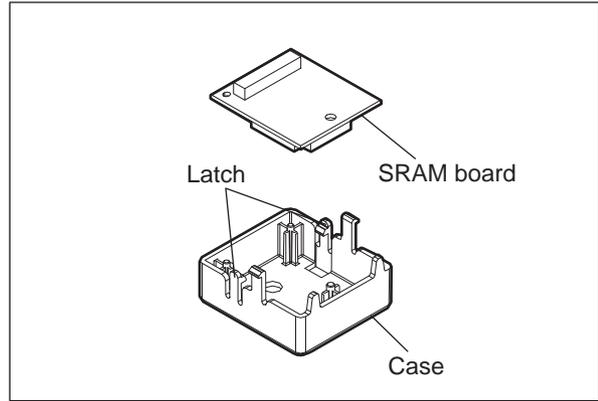
9.3 Precautions and Procedures for Replacing PC Boards and HDD

9.3.1 Precautions when replacing PC boards

- If more than one of the LGC board, the IMG board and the SYS board require replacement, replace them in the following procedure.
  1. First, replace one of the board to be replaced.
  2. Turn the power ON and confirm that "READY" is displayed.
  3. Turn the power OFF.
  4. Replace another board that requires replacement.
  5. Repeat steps 2 to 4.
  6. Do not replace the SYS and the SRAM board together.
  7. Do not replace the LGC board and the EEPROM together.

- The IMG board can be replaced without other settings.

- To replace the HDD, see the following procedure.
  📖 P. 9-19 "9.3.3 Precautions and procedures when replacing the HDD"

- To replace the SYS board, see the following procedure.
  📖 P. 9-24 "9.3.4 Precautions and Procedures when replacing the SYS board"

- To replace the LGC board, see the following procedure.
  📖 P. 9-28 "9.3.5 Procedures when replacing the LGC board"

- To replace the SLG board, see the following procedure.
  📖 P. 9-29 "9.3.7 Procedures when replacing the SLG board (e-STUDIO206L/256/306/356/456/506)"

- To replace the SRAM board, see the following procedures.
  📖 P. 9-31 "9.3.8 Precautions and Procedures when replacing SRAM board"

- To replace the EEPROM, see the following procedures.
  📖 P. 9-37 "9.3.9 Procedures when replacing EEPROM"

- Difference of the boards composition

e-STUDIO206L/256/306/356/456/506	e-STUDIO207L/257/307/357/457/507
HDD	HDD
SYS board	SYS board
LGC board	LGC board
SLG board	-
SRAM board	SRAM board
EEPROM	EEPROM

9.3.2 HDD fault diagnosis

This code displays the HDD operation history, which is recorded in the HDD, on the control panel. HDD failure can be diagnosed or predicted with the information displayed.

1. Display
   The following screen is displayed with setting code 08-9065.
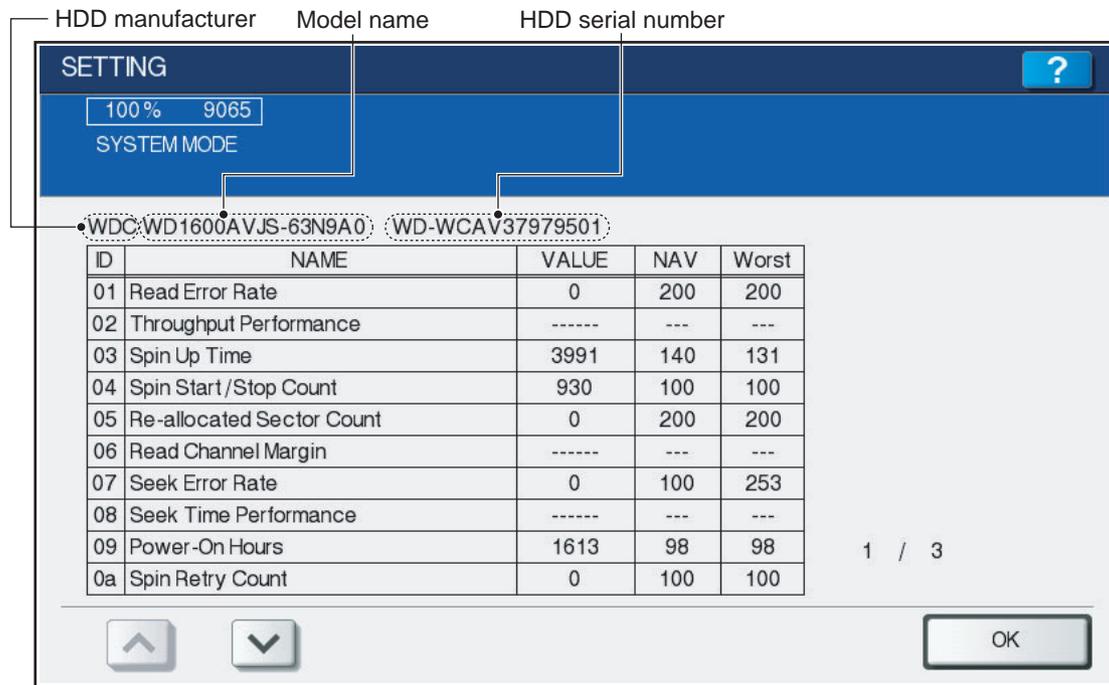
Fig. 9-42

- Items supported differ depending on the HDD manufacturer.
- "---" is displayed on the VALUE, NAV and Worst columns if items are not supported.

2. Usage
   The combination of the values of ID=05 and c5 is used to diagnose whether or not the HDD has a physical failure when HDD failure is suspected (service call F100-108 or 120 occurred).

Result ID	Result VALUE	Description	Diagnosis
05	0	Low possibility of physical failure	HDD replacement is not required.
c5	0		
05	From 1 to 999	Defective sector has been reassigned and HDD is recovered.	HDD replacement is not required.
c5	0		
05	Any value	High possibility of defective sector existence. (There will be a possibility of physical failure depending on the use of HDD.)	HDD replacement is recommended.
c5	1 or more		
05	Either one is at least 1000.	High possibility of physical failure	HDD replacement is recommended.
c5			
05	All values are displayed as "-------".	High possibility of physical failure (A HDD connector, harness or SYS board may be one of the causes.)	HDD replacement is recommended.
c5			

3. ID=05 and c5

ID	Name	Description	Remarks
05	Re-allocated Sector Count	The number of sectors reassigned	This value tends to increase at HDD failure.
c5	Current Pending Sector Count	The number of candidate sectors to be reassigned	This value tends to increase at HDD failure.

4. Description of each ID

ID	Name	Meaning
01	Read Error Rate	This attribute is a measure of the read error rate.
02	Throughput Performance	This attribute is a measure of the throughput performance.
03	Spin Up Time	This attribute is a measure of how quickly the drive is able to spin up from a spun down condition.
04	Spin Start/Stop Count	This attribute is a measure of the total number of spin ups from a spun down condition.
05	Re-allocated Sector Count	This attribute is a measure of the total number of reallocated sectors.
07	Seek Error Rate	This is a measure of the seek error rate.
08	Seek Time Performance	This attribute is a measure of a drive's seek performance during normal online operations.
09	Power-On Hours	This attribute is a measure of the total time (hours or minutes depending on disk manufacturer) the drive has been on.
0a	Spin Retry Count	This attribute is a measure of the total number of spin retries.
0c	Power Cycle Count	This attribute is a measure of the number of times the drive has been turned on.
c0	Power off Retract Count	This attribute is a measure of the total number of emergency unloads.
c1	Load Cycle Count	This attribute is a measure of the total number of load/ unloads.
c2	Temperature	This attribute is a measure of the temperature in the HDD.
c3	ECC On the Fly Count	This attribute is a measure of the total number of the ECC On the Fly.
c4	Reallocation Event Count	This attribute is a measure of the total number of the reallocation events.
c5	Current Pending Sector Count	This attribute is a measure of the total number of candidate sectors to be reallocated.
c6	Off-Line Scan Uncorrectable Sector Count	This attribute is a measure of the total number of uncorrectable sectors found during the off-line scan.
c7	Ultra DMA CRC Error Count (Rate)	This attribute is a measure of the total number of errors found in data transfer in the Ultra-DMA mode.
c8	Write Error Rate	This attribute is a measure of the write error rate.

Notes:

"Over-range" appears when the digits of the numbers obtained from HDD exceed the acceptable limit for being displayed on the touch panel. This is not shown as a failure.

9.3.3 Precautions and procedures when replacing the HDD

Notes:
- Replacing ADI-HDD with SATA-HDD is not possible. When replacing ADI-HDD, replace it with another ADI-HDD.
- When the HDD is replaced, it is necessary to back up the data in the HDD before replacing and to recover them after replacing.
- To maintain the security, ask users to perform the backup/restore for users' data/information in the HDD. The service technician can perform them only when users permit it.
- Some data in the HDD cannot be backed up and can be kept only on the paper.
- Do not replace the HDD and the SRAM board together.
- When the HDD is replaced, do not perform SRAM data formatting (Clear SRAM) before the normal start-up.
- When the HDD is replaced, do not restore the back-up file before the normal start-up.

A procedure for replacing the HDD is shown below.

~~~
                    Start

          [A] Back up data in HDD

    [B] Print out "FUNCTION LIST FOR MAINTENANCE"

            [C] Print out "FUNCTION" list

                 [D] Erase HDD

             [E] Replace/Format HDD

   [F] Reset user's setting item and restore data/information

      [G] Reset "FUNCTION LIST FOR MAINTENANCE"

            [H] Reset "FUNCTION" list

             [I] Adjust image quality

               Setting completed
~~~
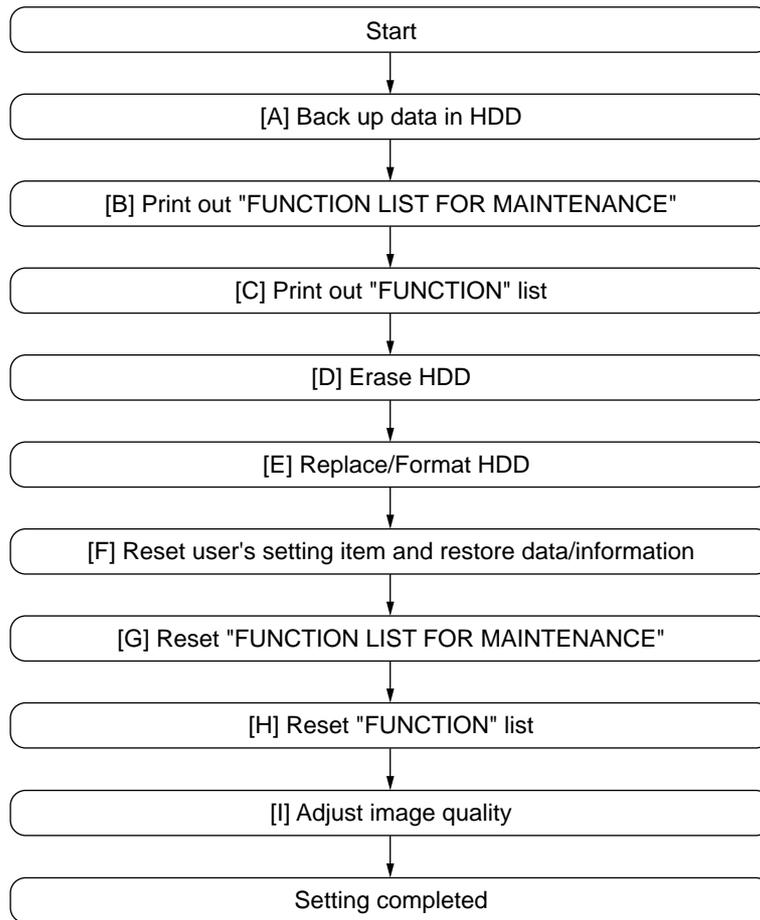
Fig. 9-43

[A] Back up in HDD

Ask the user (machine administrator) to back up the data in the HDD. Refer to the table below for the type of data, availability and method of backup.

Type of data in HDD	Availability	Backup method
Image data in the e-Filing	Available	Archive them in the "e-Filing" of TopAccess. As for the backup in Box data, all data (selectable by the box) can be backed up / restored in one go by using "e-Filing Backup/ Restore Utility".
F-code information, Template registration information, Address book data	Available	Back them up in the "Administrator" menu of TopAccess.
Department management data	Available	Export them in "Administrator" menu of TopAccess.
Log data (Print, Scan, FAX (Transmission/Reception)	Available	Export them in the "Administrator" menu of TopAccess. (Import cannot be performed.)
Data in the shared folder (Scanned data, Saved data of copy / FAX transmission)	Available	Copy them to the client computer via the network. (The data which have been copied to the client computer cannot be copied to the shared folder.)
Print waiting data (Copying data and FAX reception data that are waiting to be printed due to the paper run-out and jam, etc.)	Not available	Finish printing them after supplying paper or releasing the jam, etc. (The data cannot be left.)
Print job (Private print data, Schedule print data)	Not available	If any jobs are left, print them. (The data cannot be backed up.)
FAX saved data (Confidential / Bulletin board data)	Not available	Print them. (The data cannot be backed up.)
Registration data for FAX transmission (Delayed transmission / Recovery transmission)	Not available	Print them. (The data cannot be backed up.)

[B] Print out "FUNCTION LIST FOR MAINTENANCE"

(1) Enter the Service Mode.
   📖 P. 5-5 "5.2 Service UI"

(2) Select "FAX LIST PRINT MODE" and then press [NEXT].

(3) Select "Function list for Maintenance" and then press [PRINT].

[C] Print out "FUNCTION" list

(1) Press the [USER FUNCTIONS] button.

(2) Press the [ADMIN] button, enter the password, and then press the [OK] button.
   Notes:
   Explain the procedure to the user (machine administrator) and ask him/her to enter his/her password.

(3) Press the [LIST/REPORT] button and then the [LIST] button.

(4) Press the [FUNCTION] button. The "FUNCTION" list is printed out.

[D] Erase HDD

In case of the ADI-HDD:

(1) Turn the power ON while pressing [4] and the [CLEAR] button simultaneously.

(2) Key in [1] to select "1: Revert factory install status HDD." and then press the [START] button.

(3) Turn the power OFF.

Incase of SATA-HDD:

(1) Turn the power ON while pressing [3] and the [CLEAR] button simultaneously.

(2) Key in [6] to select "6: Erase HDD Security." and then press the [START] button.

(3) Select "1. LOW", "2. MEDIUM", "3. HIGH" and "4. SIMPLE".

(4) Turn the power OFF.

[E] Replace / Format HDD

(1) Confirm that the power is turned OFF.

(2) Replace the HDD. For the details, see the following page.
□ P. 9-1 "9.1.2 Hard disk (HDD)"

(3) Clear the partitions on the HDD.
1.Turn the power ON while pressing [3] and [CLEAR] button simultaneously.
2.When "Firmware Assist Mode" appears on the LCD, key in [3] to select "3: Format HDD" and then press the [START] button.
3.When "Operation Complete" is displayed on the LCD, clearing of the partitions is completed.

(4) Turn the power OFF.

(5) Format the service tech password.
1. Turn the power ON while pressing [3] and the [CLEAR] button simultaneously.
2. When "Firmware Assist Mode" appears on the LCD, key in [8] to select "8. Clear Service Tech Password" and then press the [START] button.
3. When "Reset Complete" is displayed on the LCD, formatting of the service tech password is completed.

(6) Turn the power OFF.

(7) Update the master data using the USB media.
□ P. 11-11 "11.2 Firmware Updating with USB Media"

(8) Start up with the Setting Mode (08).

(9) When the Fax Unit is installed, perform "Fax Set Up" (1*-100) and "Clearing the image data" (1*-102).Then turn the power OFF.

(10) Start up with the Setting mode (08).

(11) Check the system ROM version (08-9930).
Confirm the version displayed on the LCD, and then press the [OK] button.

(12) Turn the power OFF.

[F]   Reset user's setting items and restore data/information

Ask the user (machine administrator) to reset the user's setting items and to restore data or information. Refer to the following for the reset and restore:

Items to reset/restore	Method
Printer driver	Upload them in the "Administrator" menu of TopAccess.
F-code information, Template registering information, Address book data	Restore them in the "Administrator" menu of TopAccess
Department management data	Import them in the "Administrator" menu of TopAccess.
Image data in the Electronic Filing	Upload them in the "e-Filing" of TopAccess.

*   When the SSL is enabled, perform the setting of the following items again with "Create self-certificate" of TopAccess.

    Country Name
    State or Province Name
    Locality Name
    Organization Name
    Organizational Unit Name
    Common Name
    Email Address

*   When wireless LAN is used, perform the setting again on the LCD panel.
    (only when security with a certificate is used)
    Also, upload the following certificate file with "Install Certificate for Wireless LAN" of TopAccess.

    CA certificate
    User certificate

[G]   Reset "FUNCTION LIST FOR MAINTENANCE"

(1)   Print out the "FUNCTION LIST FOR MAINTENANCE" after the HDD formatting.
    📖 P. 9-20 "[B] Print out "FUNCTION LIST FOR MAINTENANCE""

(2)   While pressing [1] and [3] simultaneously, turn the main power switch ON. (Function Mode)

(3)   Compare the lists which were printed before and after the formatting to check the setting items having the different setting values. Set the value which was set before the formatting.

(4)   Turn the power OFF.

[H]   Reset "FUNCTION" list

Reset the initial setting of the fax function by referring to the "function list" which has been printed out.
📖 P. 9-20 "[C] Print out "FUNCTION" list"

(1)   Turn the power ON.

(2)   Press the [USER FUNCTIONS] button.

(3)   Press the [ADMIN] button, enter the password, and then press the [OK] button.

    Notes:
        Explain the user (machine administrator) about the next operation and ask him/her to enter his/her password.

(4)   Press the [FAX] button and then the [TERMINAL ID] button to set each item.

(5)   Press the [INITIAL SETUP] button to set each item.

[I]   Adjust image quality

(1)   Start up with the Adjustment mode (05).

(2)   Perform "Automatic gamma adjustment" <PPC> (05-7165).
        📖 P. 6-22 "6.4.1 Automatic gamma adjustment"

(3)   Turn the power OFF.

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e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
                                                                    REPLACEMENT OF HDD/PC BOARDS

9.3.4   Precautions and Procedures when replacing the SYS board

A procedure for SYS board replacement is shown below.

```
                        ┌──────────┐
                        │  START   │
                        └────┬─────┘
                        ┌────┴─────┐
                        │   [A]    │
                        └────┬─────┘
                        ┌────┴─────┐
                        │   [B]    │
                        └────┬─────┘
        SATA-HDD    ┌────────┴────────┐   ADI-HDD
                    │                 │
              ┌─────┴────┐      ┌─────┴────┐
              │   [C]    │      │   [C]    │
              └─────┬────┘      └─────┬────┘
                    │           ┌─────┴────┐
                    │           │   [D]    │
                    │           └─────┬────┘
                    └────────┬────────┘
                        ┌────┴─────┐
                        │   [E]    │
                        └────┬─────┘
                        ┌────┴─────┐
                        │   [F]    │
                        └────┬─────┘
                        ┌────┴─────┐
                        │   [G]    │
                        └────┬─────┘
                        ┌────┴─────┐
                        │   [H]    │          SATA-HDD: Normal HDD
                        └────┬─────┘          ADI-HDD: Securely HDD
                        ┌────┴─────┐
                        │   END    │
                        └──────────┘
```
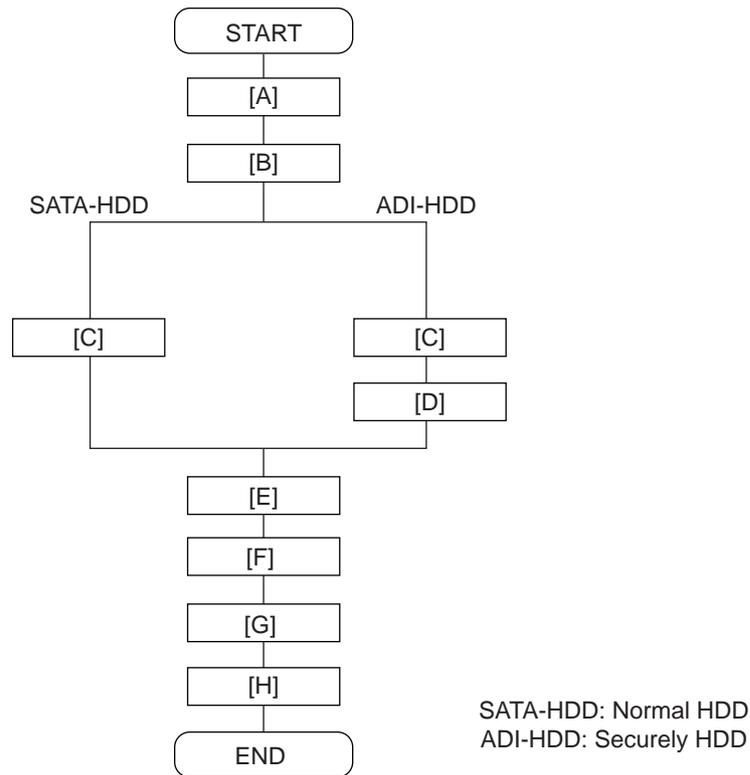
Fig. 9-44

Notes:
> "[D] Restore ADI key" is required only for the equipment in which the ADI-HDD has been installed.

[A]   Return License

> **Notes:**
> - If the Setting Mode (08) is not started up, "[A]Return License" can be omitted.
>   In that case, reinstall the license with "[1]Re-registration when the board is replaced" if it is cleared since "[G] Reinstallation of License" cannot be performed.
> - When installing the Data Overwrite Enabler (GP-1070) and security mode is setting High Security, set the security mode level to "1" (Low level). Then restart the equipment.

(1)   Start up with the Setting Mode (08).

(2)   Enter the password, and then press the [OK] button.
(If the password is not set for Service, press the [OK] button without entering anything.)

(3)   Key in [3840], and then press the [OK] button.

(4)   Select the license to be returned, and then press the [REMOVE] button.

(5)   Install the one-time dongle, which you used for uploading the selected license, in the equipment, and then press the [OK] button.

(6)   The Remove screen is displayed, then press the [YES] button. If this screen is not displayed, check whether the one-time dongle is installed in the equipment properly.

(7) After 10 to 40 seconds passes, the screen for notifying the success of performance is displayed. Then press the [OK] button. If this screen is not displayed or the screen for notifying the failure of performance is displayed, quit this operation by pressing the [NO]/[CLOSE] button. Then, check whether the one-time dongle, which you used for uploading the selected license, is installed in the equipment.

(8) Check that the returned license is not displayed on the screen.

Remarks:
If there are any other licenses to be returned, repeat from step (4).
If there is no more licenses to be returned, press the [CLOSE] button, and then turn the power OFF.

[B] Replace SYS board
Notes:
Before replacing the SYS board, refer to the following.
📕 P. 9-16 "9.3.1 Precautions when replacing PC boards"

(1) Confirm that the main power switch is turned OFF.

(2) Replace the SYS board.

(3) Install DIMM (main memory) to the new SYS board (from the old SYS board).

(4) Install SRAM board to the new SYS board (from the old SYS board).

[C] Update system ROM version (USB)
Update the version of system ROMs (OS data) with the USB media.
📕 P. 11-11 "11.2 Firmware Updating with USB Media"

[D] Restore ADI key
Perform the following procedures if the ADI-HDD has been installed.

(1) Turn the power ON while pressing [3] and the [CLEAR] button simultaneously.

(2) Enter the password, and then press the [OK] button.
(If the password is not set for Service, press the [OK] button without entering anything.)

(3) Key in [5] to select "5. Key Backup Restore", and then press the [START] button.

(4) Key in [5] to select "5.ADIKey SRAM to FROM", and then press the [START] button.
(5) Wait until the restoring of the encryption key is completed. "Operation Complete" is displayed.

(6) Restart the equipment after the restoring is completed. If you want to perform the restoring of the encryption key, do not restart the equipment but perform from (4) in "[E] Restore encryption key".

[E] Restore encryption key
(1) Turn the power ON while pressing [3] and the [CLEAR] button simultaneously.

(2) Enter the password, and then press the [OK] button.
(If the password is not set for Service, press the [OK] button without entering anything.)

(3) Key in [5] to select "5. Key Backup Restore", and then press the [START] button.

(4) Key in [1] to select "1. Key SRAM to FROM", and then press the [START] button.

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
REPLACEMENT OF HDD/PC BOARDS

(5) Wait until the restoring of the encryption key is completed. "Operation Complete" is displayed.

(6) Turn the power OFF after the restoring is completed.
If you want to perform the restoring of the license, do not turn the power OFF but perform from (4) in "[F] Restore license".

[F] Restore license

(1) Turn the power ON while pressing [3] and the [CLEAR] button simultaneously.

(2) Enter the password, and then press the [OK] button.
(If the password is not set for Service, press the [OK] button without entering anything.)

(3) Key in [5] to select "5. Key Backup Restore", and then press the [START] button.

(4) Key in [3] to select "3. License SRAM to FROM", and then press the [START] button.

(5) Wait until the restoring of the license is completed. "Operation Complete" is displayed.

(6) After the restoring is completed, check that "OK" is indicated in "SRAM License STATUS" and "FROM License Status". Then, turn the power OFF.

(7) If "4. License FROM to SRAM" is performed by mistake, carry out the following procedure.
📖 P. 9-39 "[1] Re-registration when the board is replaced"

[G] Reinstall license

If the license was returned in "[A]Return License", reinstall it with the following procedure.

(1) Turn the power ON while pressing [0] and [8] simultaneously.

(2) Enter the password, and then press the [OK] button.
(If the password is not set for Service, press the [OK] button without entering anything.)

(3) Key in [3840], and then press the [START] button.

(4) Press the [INSTALL] button.

(5) Install the one-time dongle in the equipment (the one which you used for returning the selected license before replacing the equipment). Then press the [OK] button.

(6) Select the license to be installed, and then press the [INSTALL] button.

(7) The screen for notifying that the installation will be started is displayed. Then press the [YES] button.

(8) After 10 to 40 seconds have passed, the screen for notifying the success of the performance is displayed. Then press the [OK] button. If the screen for notifying a failure of the performance is displayed, quit this operation by pressing the [NO] button. Then check that the one-time dongle is installed properly in the equipment.

(9) Check that the installed license is displayed on the license list.

  Remarks:
    If there are any other licenses to be installed, repeat from step (13). If there are no other licenses to be installed, press the [CLOSE] button, and then turn the power OFF.

[H] Check ROM versions

• System ROM version (08-9930)

Notes:

If the security mode is changed from High Security to Low Security in the step "[A]Return License", set the value of 08-8911 to "3" (High Security).

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REPLACEMENT OF HDD/PC BOARDS

9.3.5   Procedures when replacing the LGC board

Notes:

Before replacing the LGC board, perform the following procedure.

📖 P. 9-16 "9.3.1 Precautions when replacing PC boards"

The LGC board differs depending on the speed of the equipment.

Before replacing it, check that the speed (referring to the identification label, etc.) corresponds to the label color (indicated by the arrow) on the LGC board as shown below.

If not, F901 or F901_1 occurs.

- Combination of the speed and the label color
  e-STUDIO206L / e-STUDIO207L: White
  e-STUDIO256 / e-STUDIO257: Pink
  e-STUDIO306 / e-STUDIO307: Blue
  e-STUDIO356 / e-STUDIO357: Yellow
  e-STUDIO456 / e-STUDIO457: Green
  e-STUDIO506 / e-STUDIO507: Red
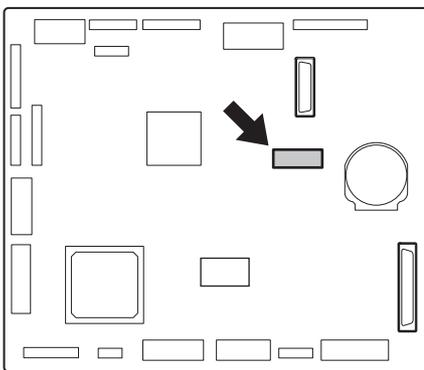
Fig. 9-45

Be sure to follow the procedure below when the LGC board is replaced.

(1)   Start up with the Setting Mode (08).

(2)   Copy the data in the SRAM to EEPROM (08-4581).
       If you cannot start up with the setting mode (08), begin from step (3).

(3)   Turn the power OFF.

(4)   Remove the LGC board.
       📖 P. 9-3 "9.1.3 LGC board (e-STUDIO206L/256/306)"
       📖 P. 9-4 "9.1.4 LGC board (e-STUDIO356/456/506)"
       📖 P. 9-10 "9.2.3 LGC board (e-STUDIO207L/257/307)"
       📖 P. 9-11 "9.2.4 LGC board (e-STUDIO357/457/507)"

(5)   Install the removed LGC board's EEPROM into the new LGC board's IC29.

(6)   Attach a battery to the new LGC board.

(7)   Attach the new LGC board.
       📖 P. 9-3 "9.1.3 LGC board (e-STUDIO206L/256/306)"
       📖 P. 9-4 "9.1.4 LGC board (e-STUDIO356/456/506)"
       📖 P. 9-10 "9.2.3 LGC board (e-STUDIO207L/257/307)"
       📖 P. 9-11 "9.2.4 LGC board (e-STUDIO357/457/507)"

(8)   Start up with the Setting Mode (08).

(9)   Copy the data in the EEPROM to SRAM (08-4582).

(10)   Turn the power OFF.
(11)   Update the engine ROM using the USB Media.
          P. 11-11 "11.2 Firmware Updating with USB Media"

(12)   Turn the power OFF.

(13)   Start up with the Setting Mode (08).

(14)   Check the version of the engine ROM (08-9901).

(15)   Turn the power OFF.
       Notes:
       If the equipment does not work properly after the LGC board was replaced, perform printer all
       clear in accordance with the procedure explained in the contents of 08-9090 in chapter 15.

9.3.6   Procedure when replacing the battery on LGC board

(1)   Start up with the Setting Mode (08).

(2)   Copy the data in the SRAM to EEPROM (08-4581).
       If you cannot start up with the setting mode (08), begin from step (3).

(3)   Turn the power OFF.

(4)   Remove a battery from the LGC board.

(5)   Attach a battery to the LGC board.

(6)   Start up with the Setting Mode (08).

(7)   Copy the data in the EEPROM to SRAM (08-4582).

(8)   Turn the power OFF.

9.3.7   Procedures when replacing the SLG board (e-STUDIO206L/256/ 306/356/456/506)

       Notes:
       Before replacing the SLG board, perform the following procedure.
         P. 9-16 "9.3.1 Precautions when replacing PC boards"

Be sure to follow the procedure below when the SLG board is replaced.

(1)   Confirm that the power is turned OFF.

(2)   Replace the SLG board.
          P. 4-44 "4.5.13 SLG board (SLG)"

(3)   Update the scanner ROM using the USB media.

(4)   Turn ON the main power switch and perform "Data transfer of characteristic value of scanner /
       SYS board -> SLG board (05-3209)".

(5)   Turn the power OFF.

(6)   Start up with the Setting Mode (08).

(7)   Check the version of the scanner ROM (08-9902).

(8)   Turn the power OFF.

9.3.8 Precautions and Procedures when replacing SRAM board

Notes:
- Do not replace the HDD and the SRAM board together.
- Be careful not to damage the board when replacing the SRAM board.
- When the SRAM board is replaced, do not perform HDD partition creation (Format HDD) before the normal start-up.

A procedure for replacing the SRAM board is shown below.

```
                    ┌─────────────┐
                    │    START    │
                    └──────┬──────┘
                    ┌──────┴──────┐
                    │     [A]     │
                    └──────┬──────┘
                    ┌──────┴──────┐
                    │     [B]     │
                    └──────┬──────┘
                    ┌──────┴──────┐
                    │     [C]     │
                    └──────┬──────┘
                    ┌──────┴──────┐
                    │     [D]     │
                    └──────┬──────┘
                    ┌──────┴──────┐
                    │     [E]     │
                    └──────┬──────┘
                    ┌──────┴──────┐
                    │     [F]     │        ADI-HDD
                    └──────┬──────┴──────┐
        SATA-HDD                  ┌──────┴──────┐
                                  │     [G]     │
                    ┌──────┬──────┴──────┘
                    ┌──────┴──────┐
                    │     [H]     │
                    └──────┬──────┘
                    ┌──────┴──────┐
                    │     [I]     │
                    └──────┬──────┘
                    ┌──────┴──────┐
                    │     [J]     │
                    └──────┬──────┘
                    ┌──────┴──────┐
                    │     [K]     │
                    └──────┬──────┘
                    ┌──────┴──────┐
                    │     [L]     │
                    └──────┬──────┘
                    ┌──────┴──────┐
                    │     [M]     │
                    └──────┬──────┘
                    ┌──────┴──────┐
                    │     [N]     │
                    └──────┬──────┘
                    ┌──────┴──────┐
                    │     [O]     │
                    └──────┬──────┘
                    ┌──────┴──────┐
                    │     END     │
                    └─────────────┘
```
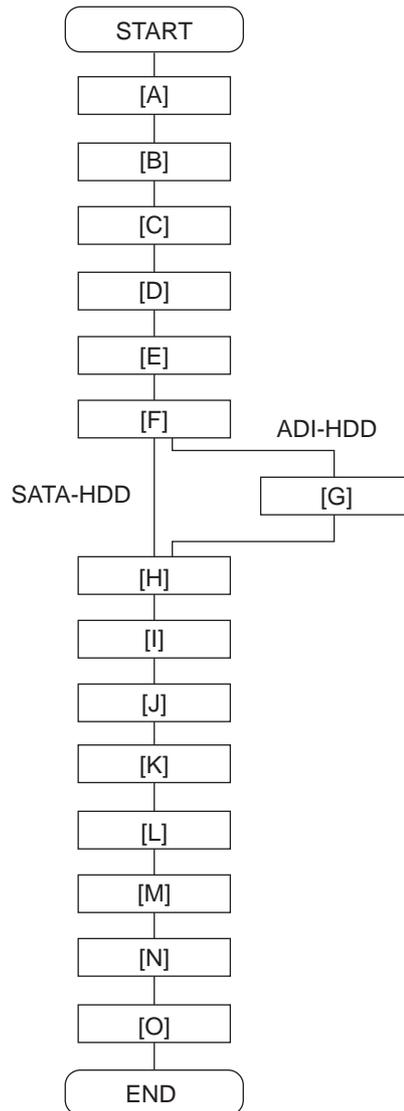
Fig. 9-46

Notes:
"[G]Backup ADI key" is required only for the equipment in which the ADI-HDD has been installed. Other procedures are the same as those for installing the SATA-HDD.

[A] Backup SRAM

Notes:
If "[A] Backup SRAM" fails, proceed to "[B]Return License".

(1) Install the USB media in the equipment, and then turn the power ON while pressing [5] and [9] buttons simultaneously.

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REPLACEMENT OF HDD/PC BOARDS

(2) Key in [1] to select "1. Backup SRAM Data to USB", and then press the [START] button.

(3) Enter a password (max. 15 characters) to be set for the backup data.

(4) Turn the power OFF after the backup is completed.

[B] Return License

(1) Start up with the Setting Mode (08).

(2) Enter the password, and then press the [OK] button.
(If the password is not set for Service, press the [OK] button without entering anything.)

(3) Key in [3840], and then press the [OK] button.

(4) Select the license to be returned, and then press the [REMOVE] button.

(5) Install the one-time dongle, which you used for uploading the selected license, in the equipment, and then press the [OK] button.

(6) The Remove screen is displayed, then press the [YES] button. If this screen is not displayed, check whether the one-time dongle is installed in the equipment properly.

(7) After 10 to 40 seconds passes, the screen for notifying the success of performance is displayed. Then press the [OK] button. If this screen is not displayed or the screen for notifying the failure of performance is displayed, quit this operation by pressing the [NO]/[CLOSE] button. Then, check whether the one-time dongle, which you used for uploading the selected license, is installed in the equipment.

(8) Check that the returned license is not displayed on the screen.

Remarks:
If there are any other licenses to be returned, repeat from step (4).
If there is no more licenses to be returned, press the [CLOSE] button, and then turn the power OFF.

[C] Replace SRAM board

(1) Confirm that the power is turned OFF.

(2) e-STUDIO206L/256/306/356/456/506: If the FAX unit (GD-1250) is installed, disconnect the connector (CN134).
e-STUDIO207L/257/307/357/457/507: If the FAX unit (GD-1350) is installed, disconnect the USB connector (CN117).

(3) Replace the SRAM board.
   📖 P. 9-7 "9.1.9 SRAM board"

[D] Initialize SRAM system storage area

(1) Turn the power ON while pressing [6] and [CLEAR] simultaneously.

(2) When "SRAM Clear Mode" appears on the LCD, key in [1] to select "1. Clear SRAM" and then press the [START] button.

(3) When "SRAM Format Completed" is displayed on the LCD, initializing is completed.

(4) Turn the power OFF.

[E] Restore SRAM

If there is SRAM backup data, perform the following steps.

(1) Turn the power ON while pressing [6] and the [CLEAR] button simultaneously.

(2) When "SRAM Clear Mode" appears on the LCD, key in [0] to select "0. Set Serial Number" and then press the [START] button.

(3) Key in the serial number on the label attached to the rear cover of the equipment, and then press the [OK] button.

(4) "Serial Number Setting completed" is displayed.

(5) Turn the power OFF.

(6) Install the USB media in the equipment, and then turn the power ON while pressing [5] and [9] simultaneously.

(7) Key in [2] to select "2. Restore SRAM Data from USB" and then press the [START] button.

(8) Enter the password set for the backup data.

(9) Enter the serial number of the backup file.

(10) Turn the power OFF after the restoring of SRAM is completed.

>   **Remarks:**
>   When the restoration is completed successfully, do not perform "[F] Clear SRAM update error flags" or later procedures. End this procedure here and finish replacing the SRAM board (for SYS board).

>   **Notes:**
>   When the back-up file is restored, do not perform HDD partition creation (Format HDD) before the normal start-up.

(11) e-STUDIO206L/256/306/356/456/506: If the FAX unit (GD-1250) is installed, connect the connector (CN134).
(12) e-STUDIO207L/257/307/357/457/507: If the FAX unit (GD-1350) is installed, connect the USB connector (CN117).

[F] Clear SRAM update Error flags

(1) Turn the power ON while pressing [3] and the [CLEAR] button simultaneously.

(2) Enter the password, and then press the [OK] button.
      (If the password is not set for Service, press the [OK] button without entering anything.)

(3) After "Firmware Assist Mode" is displayed on the LCD, check that "1: Clear Error Flag in Software Installation." is marked and press the [START] button.
      If not, key in [1] and then press the [START] button.

(4) When "Operation Complete" is displayed on the LCD, clearing the flag is completed.

(5) Turn the power OFF.

[G] Backup ADI key

Perform the following procedures if the ADI-HDD has been installed.

(1) Turn the power ON while pressing [3] and the [CLEAR] button simultaneously.

(2) Enter the password, and then press the [OK] button.

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(If the password is not set for Service, press the [OK] button without entering anything.)

(3) Key in [5] to select "5. Key Backup Restore", and then press the [START] button.

(4) Key in [6] to select "6. ADIKey FROM to SRAM", and then press the [START] button.

(5) Wait until the backup of the ADI key is completed. "Operation Complete" is displayed.

(6) Restart the equipment after the backup is completed. If you want to perform the backup of the license, do not restart the equipment but perform from (4) in "[H] Backup encryption key".

[H] Backup encryption key

(1) Turn the power ON while pressing [3] and the [CLEAR] button simultaneously.

(2) Enter the password, and then press the [OK] button.
 (If the password is not set for Service, press the [OK] button without entering anything.)

(3) Key in [5] to select "5. Key Backup Restore", and then press the [START] button.

(4) Key in [2] to select "2. Key FROM to SRAM", and then press the [START] button.

(5) Wait until the backup of the encryption key is completed. "Operation Complete" is displayed.

(6) Turn the power OFF after the backup is completed. If you want to perform the backup of the license, do not restart the equipment but perform from (4) in "[I] Backup license".

[I] Backup license
Notes:
If "3. License SRAM to FROM" is performed by mistake, carry out the following procedure.
📖 P. 9-39 "[1] Re-registration when the board is replaced"

(1) Turn the power ON while pressing [3] and the [CLEAR] button simultaneously.

(2) Enter the password, and then press the [OK] button.
(If the password is not set for Service, press the [OK] button without entering anything.)

(3) Key in [5] to select "5. Key Backup Restore", and then press the [START] button.

(4) Key in [4] to select "4. License FROM to SRAM", and then press the [START] button.

(5) Wait until the backup of the license is completed. "Operation Complete" is displayed.

(6) Turn the power OFF after the backup is completed.

[J] Initialize SRAM board

(1) Start up with the Setting Mode (08).

(2) Initialize the SRAM error.
  1. When "SRAM REQUIRES INITIALIZATION" is displayed on the LCD, check the destination and then press the [START] button.
     If the destination is not correct, key in the correct one and then press the [START] button.
  2. After the confirmation message is displayed, press the [INTERRUPT] button.

(3) Perform the panel calibration (08-9050).
  1.Touch the center of "+" mark displayed on the upper left of the LCD.
  2.Touch the center of "+" mark displayed on the upper right of the LCD.

3.Touch the center of "+" mark displayed on the lower left of the LCD.
4.Touch the center of "+" mark displayed on the lower right of the LCD.

(4) Perform the initialization at the software version upgrade (08-9030).

(5) Initialize the NIC information (08-9083).

(6) Enter the serial number (08-9601).
Key in the serial number on the label attached to the rear cover, and then press the [OK] button.

(7) Turn the power OFF.

[K]   Reinstall license
If the license was returned in "[B]Return License", reinstall it with the following procedure.

(1) Turn the power ON while pressing [0] and [8] simultaneously.

(2) Enter the password, and then press the [OK] button.
(If the password is not set for Service, press the [OK] button without entering anything.)

(3) Key in [3840], and then press the [START] button.

(4) Press the [INSTALL] button.

(5) Install the one-time dongle in the equipment (the one which you used for returning the selected license before replacing the equipment). Then press the [OK] button.

(6) Select the license to be installed, and then press the [INSTALL] button.

(7) The screen for notifying that the installation will be started is displayed. Then press the [YES] button.

(8) After 10 to 40 seconds have passed, the screen for notifying the success of the performance is displayed. Then press the [OK] button. If the screen for notifying a failure of the performance is displayed, quit this operation by pressing the [NO] button. Then check that the one-time dongle is installed properly in the equipment.

(9) Check that the installed license is displayed on the license list.
   Remarks:
   If there are any other licenses to be installed, repeat from step (4). If there are no other licenses to be installed, press the [CLOSE] button, and then turn the power OFF.

[L]   Enable HDD encryption
If the HDD encryption function is used, follow the procedure below.

(1) Start up with the Setting mode (08).

(2) Enter the password, and then press the [OK] button.
(If the password is not set for Service, press the [OK] button without entering anything.)

(3) Enable the HDD encryption function. (Set "3" for 08-8911. Or set "1" for 08-8911 and "1" or "2" for 08-9379.)

(4) Turn the power OFF.

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[M] Adjust image quality

(1)   Start up with the Adjustment mode (05).

(2)   Perform "Data transfer of characteristic value of scanner" (05-3203).

(3)   Perform "Automatic gamma adjustment" <PPC> (05-7165).
      📖 P. 6-22 "6.4.1 Automatic gamma adjustment"

(4)   Turn the power OFF.

[N]   Initialize settings when FAX Unit (GD-1250 / GD-1350) is installed

(1)   Connect the connector of the FAX unit (GD-1250 / GD-1350).

(2)   Start up with the Setting mode (08).

(3)   Set the destination of FAX (08-9001).

(4)   Turn the power OFF.

(5)   Start up with the FAX Clearing Mode (1*).

(6)   Perform the FAX Set Up (1*-100).

(7)   Turn the power OFF and then back ON.

(8)   Set the dial type according to these buttons: [USER FUNCTIONS] -> [ADMIN] -> [FAX] ->
      [INITIAL SETUP]

[O]   Set date and time

Set the date and time according to these buttons.

[USER FUNCTIONS] → [ADMIN] → [GENERAL] → [CLOCK] → [DATE/TIME]

9.3.9 Procedures when replacing EEPROM

A procedure for replacing the EEPROM is shown below.

```
┌─────────────────────────────────────┐
│                 Start                 │
└─────────────────────────────────────┘
                    │
                    ▼
┌─────────────────────────────────────┐
│          [A] Replace EEPROM           │
└─────────────────────────────────────┘
                    │
                    ▼
┌─────────────────────────────────────┐
│           Settings completed          │
└─────────────────────────────────────┘
```
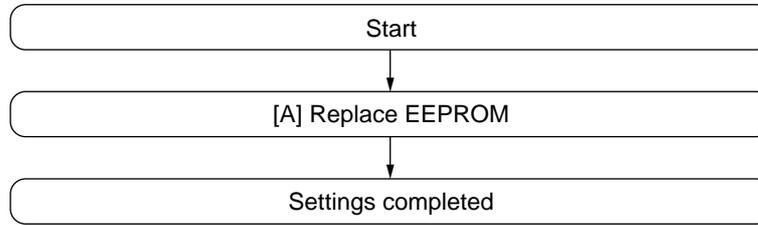
Fig. 9-47

[A] Replace EEPROM

(1) Confirm that the main power switch is turned OFF.

(2) Replace the EEPROM.

(3) Start up with the Setting mode (08).

(4) Copy the data in the SRAM to the EEPROM (08-4581).

(5) Turn the power OFF.

9.3.10 Firmware confirmation after the PC board/HDD replacement

After replacing the PC board/HDD, check the firmware version in the setting mode (08) and confirm if the firmware combination is correct.

Firmware	Code	Remarks
Updating Master data (HDD program data)	08-8952	HD data internal version
	08-9900	System software version
Updating System ROM (OS data)	08-9930	System ROM version
Updating Engine ROM (Engine firmware)	08-9901	Engine ROM version
Updating Scanner ROM (Scanner firmware)	08-9902	Scanner ROM version
Updating RADF ROM (RADF firmware)	08-9903	RADF ROM version
Updating Finisher ROM	08-9904	Finisher ROM version Saddle stitcher ROM version
	08-9944	Hole punch unit ROM version
	08-9945	Converter board ROM version
Updating FAX ROM	08-9905	FAX ROM version

The installed ROM versions and the registered optional Electronic License Keys can be confirmed in the list print mode following the procedure below.

(1) Turn the power ON using the main power switch while pressing the digital key [9] and the [START] button simultaneously.

(2) Key in "1" three times, and then press the [START] button.

(3) "VERSION LIST" is printed out.
   *   It is recommended to keep this list for future reinstallation such as the replacement of the SYS board.
(4) Keep pressing the [ON/OFF] button until you hear a sound to shut down the equipment.

9.3.11　License re-registration using the one-time dongle

[1]　Re-registration when the board is replaced

The license registered using the one-time dongle can be re-registered only in the same equipment. When the SYS board or SRAM board is replaced, follow the procedures for re-registration given below.

(1)　Start up with the Setting Mode (08).

(2)　Key in [3840], and then press the [START] button.

(3)　Press the [INSTALL] button.

(4)　Install the one-time dongle in the equipment (the one which you used for registering the selected license), and then press the [OK] button.

(5)　Select the license to be installed, and then press the [INSTALL] button.

(6)　The screen for notifying that the installation will be started is displayed. Then press the [YES] button.

(7)　After 10 to 40 seconds have passed, the screen for notifying the success of the performance is displayed. Then press the [OK] button. If the screen for notifying a failure of the performance is displayed, quit this operation by pressing the [CLOSE] button. Then check that the one-time dongle, which you used for uploading the selected license, is installed in the equipment.

(8)　Check that the installed license is displayed on the license list.

　　Remarks:
　　If there are any other licenses to be returned, repeat from step (3). If there are no other licenses to be returned, press the [CLOSE] button, and then turn the power OFF.

　　Notes:
　　This procedure is available only with the one-time dongle used for the previous registration, since the model information registered in it is utilized. Use the same one-time dongle and the equipment when registering the license.

[2]　Re-registration when the equipment is replaced due to malfunction

When the equipment has to be replaced due to a malfunction, return the license registered in the equipment to the one-time dongle and register it to the new equipment following the procedure below.

　　Notes:
　　The license of the IPSec Enabler (GP-1080) cannot be reinstalled. The one-time dongle to be used is the one for the previous registration of the license. The license is deleted from the equipment and is stored in the one-time dongle.
　　Do not perform the deletion of Converter for PDF-Archive since it is deleted without any return to the one-time dongle.

(1)　Start up with the Setting Mode (08).

(2)　Key in [3840], and then press the [START] button.

(3)　Select the license to be returned, and then press the [REMOVE] button.

(4)　Install the one-time dongle in the equipment (the one which you used for uploading the selected license), and then press the [OK] button.

(5)　The Remove screen is displayed. Then press the [YES] button.
　　If this screen is not displayed, check that the one-time dongle is installed in the equipment properly.

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(6) After 10 to 40 seconds have passed, the screen for notifying the success of the performance is displayed. Then press the [OK] button.
If the screen for notifying a failure of the performance is displayed, quit this operation by pressing the [CLOSE] button. Then check that the one-time dongle, which you used for uploading the selected license, is installed in the equipment.

(7) Check that the returned license is not displayed on the screen.
   Remarks:
   If there are any other licenses to be returned, repeat from step (4).
   If there are no other licenses to be returned, press the [CLOSE] button, and then turn the power OFF.

(8) Replace the equipment.

(9) Turn the power ON while pressing [0] and [8] simultaneously.

(10) Key in [3840], and then press the [START] button.

(11) Press the [INSTALL] button.

(12) Install the one-time dongle in the equipment (the one which you used for returning the selected license before replacing the equipment). Then press the [OK] button.

(13) Select the license to be installed, and then press the [INSTALL] button.

(14) The screen for notifying that the installation will be started is displayed. Then press the [YES] button.

(15) After 10 to 40 seconds have passed, the screen for notifying the success of the performance is displayed. Then press the [OK] button. If the screen for notifying a failure of the performance is displayed, quit this operation by pressing the [NO] button. Then check that the one-time dongle is installed properly in the equipment.

(16) Check that the installed license is displayed on the license list.
   Remarks:
   If there are any other licenses to be installed, repeat from step (11). If there are no other licenses to be installed, press the [CLOSE] button, and then turn the power OFF.

9.4 Precautions for Installation of GP-1070 and Disposal of HDD/ Board

9.4.1 Precautions for Installation of GP-1070

When installing the Data Overwrite Enabler (GP-1070), perform the following setting:

3C -> 6. Erase HDD Securely: HDD securely erasing
This setting is the overwriting method complying with DoD 5220.22-M.
    1. LOW: This is the normal overwriting method. (This setting is used normally.)
    2. MEDIUM: This overwriting method is more secure than LOW. The erasing time is between and HIGH.
    3. HIGH: This is the most secure overwriting method. It takes the longest time to erase data.
    4. SIMPLE: This is the simple overwriting method. It takes the shortest time to erase data.

9.4.2 Precautions when disposing of the HDD

[1] When disposing of ADI-HDD
When disposing of ADI-HDD, perform the following setting:

4C->1. Revert factory initial status HDD

[2] When disposing of SATA-HDD
When disposing of SATA-HDD, perform the following setting:

3C->6. Erase HDD Securely (HDD securely erasing)

This setting is the overwriting method complying with DoD 5220.22-M.
    1: LOW: This is the normal overwriting method. (This setting is used normally.)
    2: MEDIUM: This overwriting method is more secure than LOW. The erasing time is between LOW and HIGH.
    3: HIGH: This is the most secure overwriting method. It takes the longest time to erase data
    4:SIMPLE: This is the simple overwriting method. It takes the shortest time to erase data.

9.4.3 Precautions when disposing of the SYS board

When disposing of the SYS board, data clearing is not required since important data, such as user information, etc. are stored in the SRAM board.

9.4.4 Precautions when disposing of the SRAM board

When disposing of the SRAM board, perform 3C -> 7:Erase SRAM Securely (SRAM securely erasing) for security reasons.
    Notes:
        If these codes are performed, the equipment cannot be started up.

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10. REMOTE SERVICE

There are following functions as Remote Service.

1. Auto Supply Order
   Automatically orders the toner by FAX or E-mail.

2. Service Notification
   Notifies the status of the equipment to the service technician by E-mail or FAX.

To start in the self-diagnosis mode, turn OFF the power using the main power switch, then turn ON the power while two digital keys designated to each mode.

10.1 Auto Supply Order

10.1.1 Outline

Automatically orders the toner.

1. Placing an Order
   There are two ways to place an order.
   - FAX
     Installation of the FAX board is required.
     If the FAX board has not been installed, it is regarded as OFF setting.

   - E-mail (E-mail body + TIFF image)

2. Order Intervals
   The Auto Supply Order is sent as indicated in the following steps.

 (1) Toner empty occurs.
 (2) The toner cartridge is replaced.
 (3) The toner empty counter is incremented when the total number of prints or the pixel counter value exceeds the threshold set in the following self-diagnostic code.

Code	Details	Contents
08-6506	Toner empty determination counter	Selects the counter to determine toner empty. 0: Output pages 1: Pixel counter
08-6507	Threshold setting for toner empty determination (output pages)	Sets the number of output pages to determine toner empty. This setting is valid when "0" is set at 08-6506.
08-6508	Threshold setting for toner empty determination (pixel counter)	Sets the number of the pixel counter value to determine toner empty. This setting is valid when "1" is set at 08-6506.

   e.g.) When "0" is set for 08-6506 and "50" is set for 08-6507
   The toner empty counter is incremented when 50 sheets are printed after the toner cartridge has been replaced.

 (4) When the accumulated number of toner empty times reaches the set condition, an order is placed automatically.

3. If Order Failure Occurs
   If some problems occur and the order cannot be placed after registering an order as a job, refer to the standard countermeasure for the FAX/E-mail transmission failure.

10.1.2 Setting item

To enable Auto Supply Order, the following settings are required.

Notes:

When selecting E-mail to place an order, it is required that sending and receiving E-mails are available. Confirm the details to the administrator.

1. Self-diagnosis (08) Setting
   As the default setting, the Auto Supply Order setting screen is not displayed on the touch panel.
   To display it, switching the Valid/Invalid setting (08-9783) is required.

       0: Valid (FAX/Internet FAX)
       1: Valid (FAX/Internet FAX/HTTP)*
       2: Invalid (Default)

   When changing the setting value from "2" (default) to "0", the Auto Supply Order setting screen is displayed. (* HTTP has not been supported yet.)

2. Touch Panel Setting
   Each item is set from the Auto Supply Order screen on the touch panel.

   Entering the password and customer information is required because the setting is made from the ADMIN screen. Setting it with the administrator is a must.

   - Basic setting
     [ADMIN] > [SERVICE] > [SUPPLY ORDER SETUP] > [ORDER INFORMATION]

AUTO SUPPLY ORDER	Ordered by: [FAX], [MAIL], [HTTP] (*1)
FAX NUMBER	FAX number of supplier (*2)
E-MAIL	E-mail address of supplier (*3)
CUSTOMER	Customer information
NAME	
TEL NUMBER	
E-MAIL	
ADDRESS	
SUPPLIER	Supplier information
NAME	
ADDRESS	
SERVICE TECHNICIAN	Service technician information
NUMBER	
NAME	
TEL NUMBER	
E-MAIL	

    *1 HTTP has not been supported yet.
    *2 Even when "FAX" is selected, the order is not placed without entering the FAX number.
    *3 Even when "MAIL" is selected, the order is not placed without entering the E-mail address.

- Detailed setting for the order
  [ADMIN] > [SERVICE] > [SUPPLY ORDER SETUP] > [TONER ORDERING]

***** TONER ORDER	Order information (TONER)
PART NUMBER	Part number to be ordered
CONDITION	The number of conditions (*1)
QUANTITY	The quantity to be ordered
AUTO ORDER	ON/OFF setting of order for each part

*1 The order is placed when the number of replacement reaches the number specified for the CONDITION.

- FAX number of this equipment (common information)
  [ADMIN] > [FAX] > [TERMINAL ID]

ID NAME	ID name of this equipment
FAX NUMBER	FAX number of this equipment

- E-mail information of this equipment (common information)
  [ADMIN] > [E-MAIL]

FROM ADDRESS	E-mail address of this equipment (*1)
FROM NAME	E-mail user name of this equipment

*1 When sending an E-mail, validity of the address is checked. If the address is invalid, it is not sent.

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3. Output of setting list of the Auto Supply Order

1. Enter the Service Mode.
   📖 P. 5-5 "5.2 Service UI"

2. Select "FAX LIST PRINT MODE" and then press [NEXT].

3. Select "SUPPLY ORDER LIST" and then press [PRINT].

10.1.3   Setting procedure

(1)   Start up the self-diagnosis setting mode 08-9783, and then change the setting value to "0".

(2)   Turn the power OFF, and then ON.

(3)   Press the [USER FUNCTIONS] button to enter the user function screen.

(4)   Press the [ADMIN] tab.
   • When the Administrator Password has been set, ADMINISTRATOR PASSWORD screen is displayed.

(5)   Press the [PASSWORD] button and the screen is switched to a full keyboard. Then key in the Administrator Password and press the [OK] button.
   *   Confirm the password to the administrator.
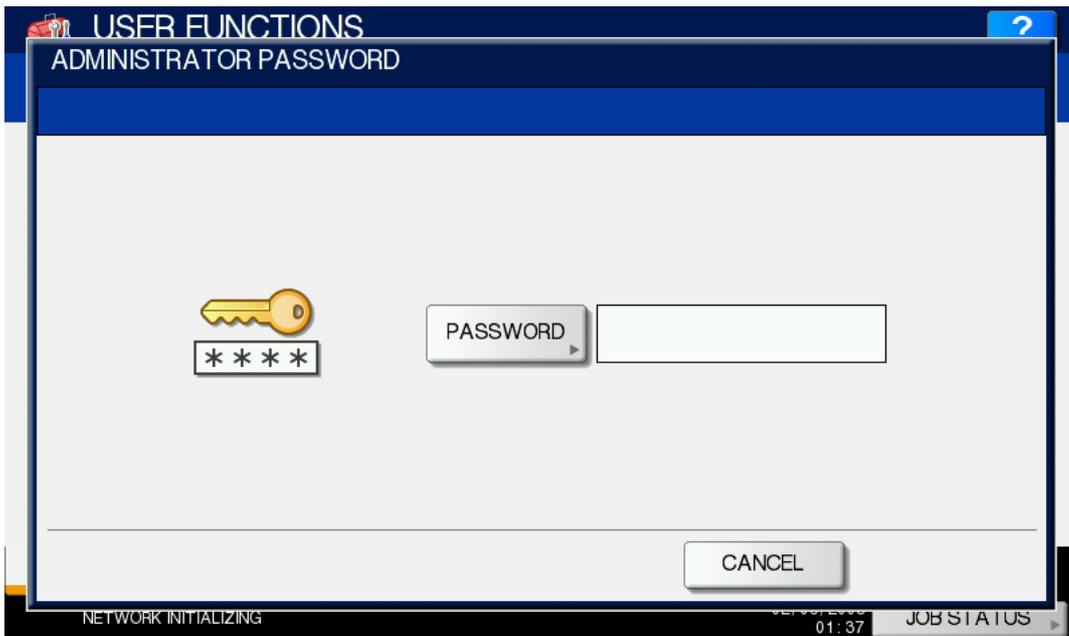
Fig.10-1

(6) Press the [SERVICE] button in the ADMIN screen.
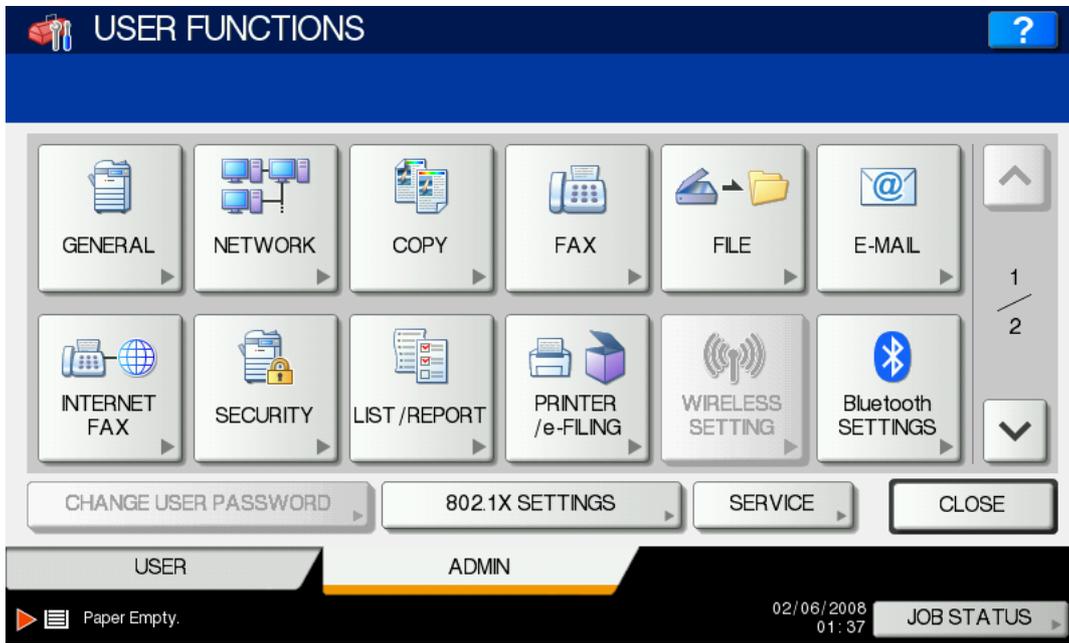
Fig.10-2

(7) The SERVICE screen is displayed.
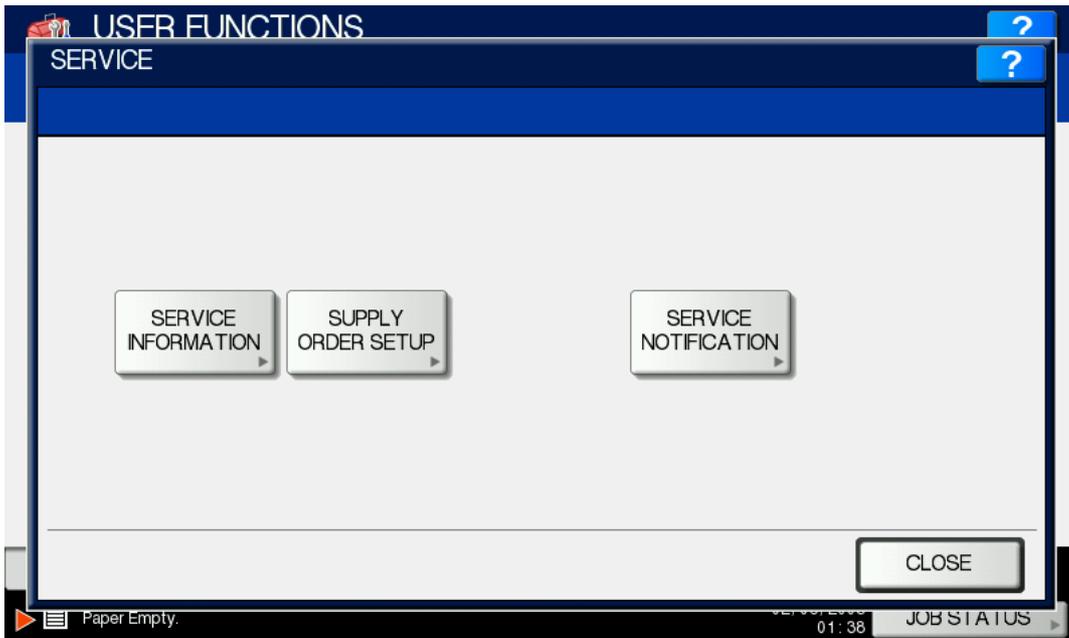
Fig.10-3

(8) Press the [SUPPLY ORDER SETUP] button.

(9)   Press the [ORDER INFORMATION] button.

Fig.10-4

(10) The ORDER INFORMATION screen is displayed.
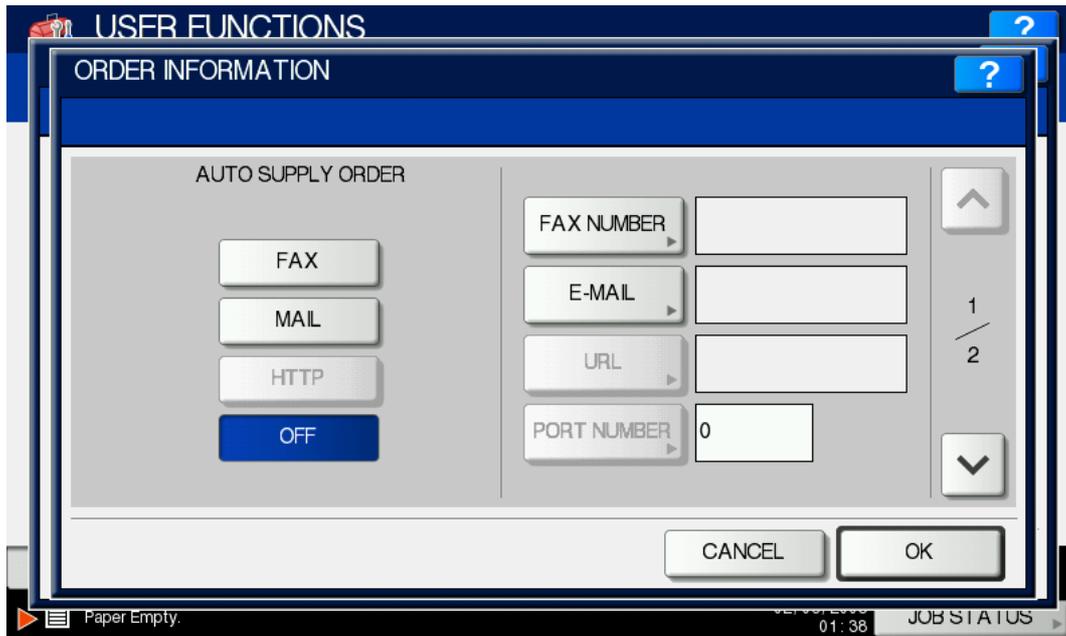
Fig.10-5

(11) Press the buttons on the screen of ORDER INFORMATION to set the required item.
[FAX]/[MAIL]/[OFF] ---
Select the [FAX] or the [MAIL] button for the transmitting way of order.
(HTTP has not been supported yet.)
[OFF]: Turn off the AUTO SUPPLY ORDER function.

[FAX NUMBER] --- Input the FAX number of supplier.
(To transmit by FAX, the order cannot be placed automatically if you do not input the number.)

[E-MAIL] --- Input the E-mail address of supplier.
(To transmit by E-mail, the order cannot be placed automatically if you do not input the address.)

(12) Press the scroll button.
(Press the [OK] button to register, and then the screen returns to the (7) SERVICE screen. Press the [CANCEL] button to cancel this register, and then the screen returns to the (7) SERVICE screen.)

(13) The SUPPLIER screen is displayed.
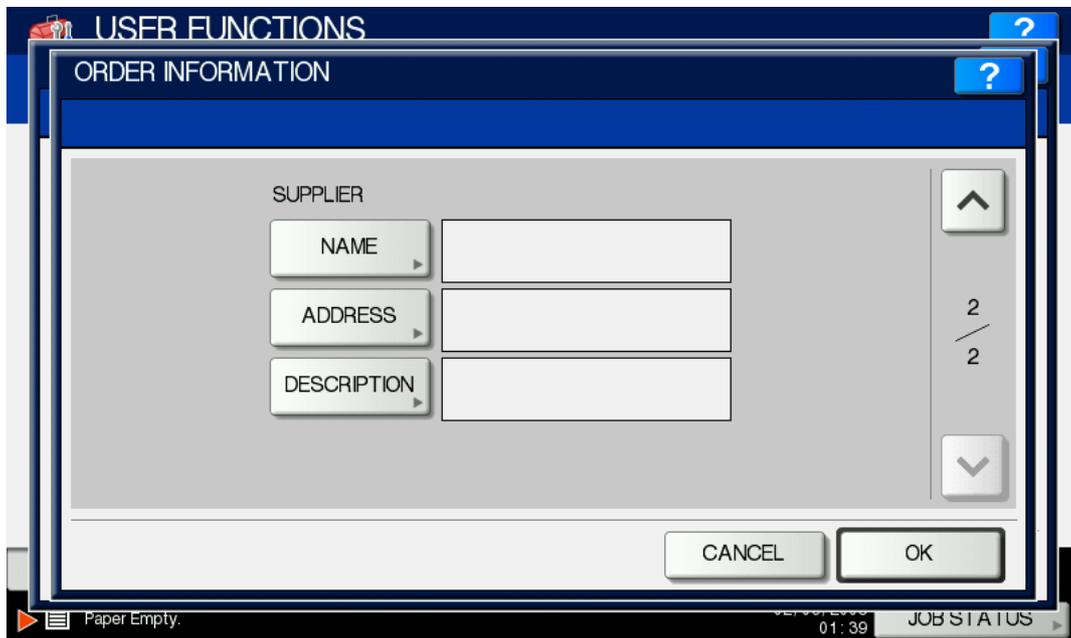
Fig.10-6

(14) Press the buttons of the screen of SUPPLIER to set the required item.
[NAME] --- Input the name of supplier.
[ADDRESS] --- Input the address of supplier.

(15) Press the [OK] button.

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(16) The SERVICE screen is displayed.
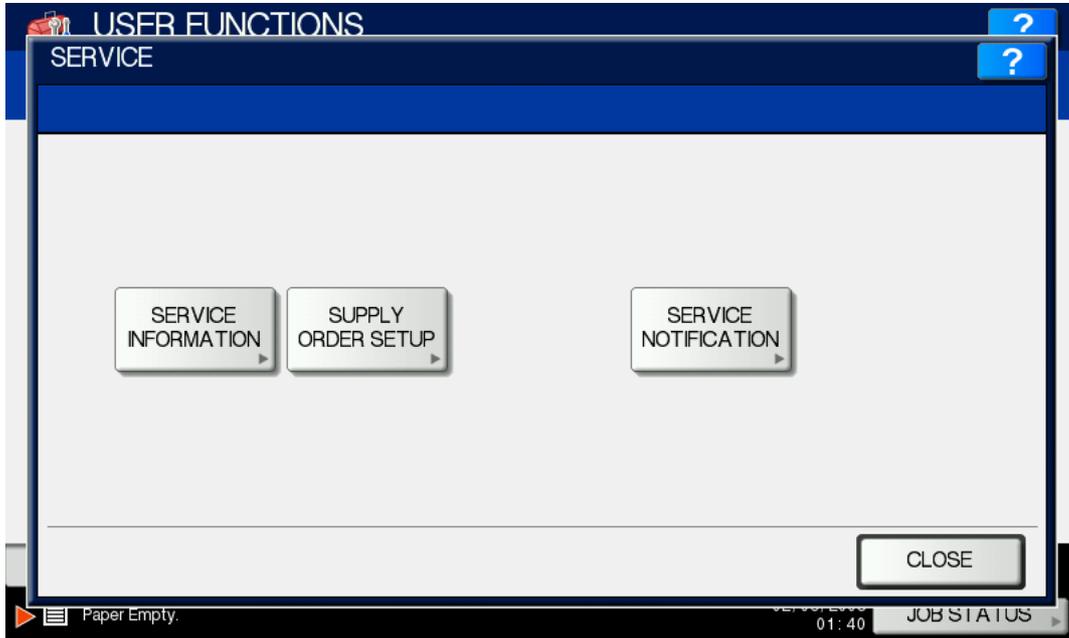
Fig.10-7

(17) Press the [SERVICE INFORMATION] button.

(18) The CUSTOMER/SERVICE TECHNICIAN screen is displayed.
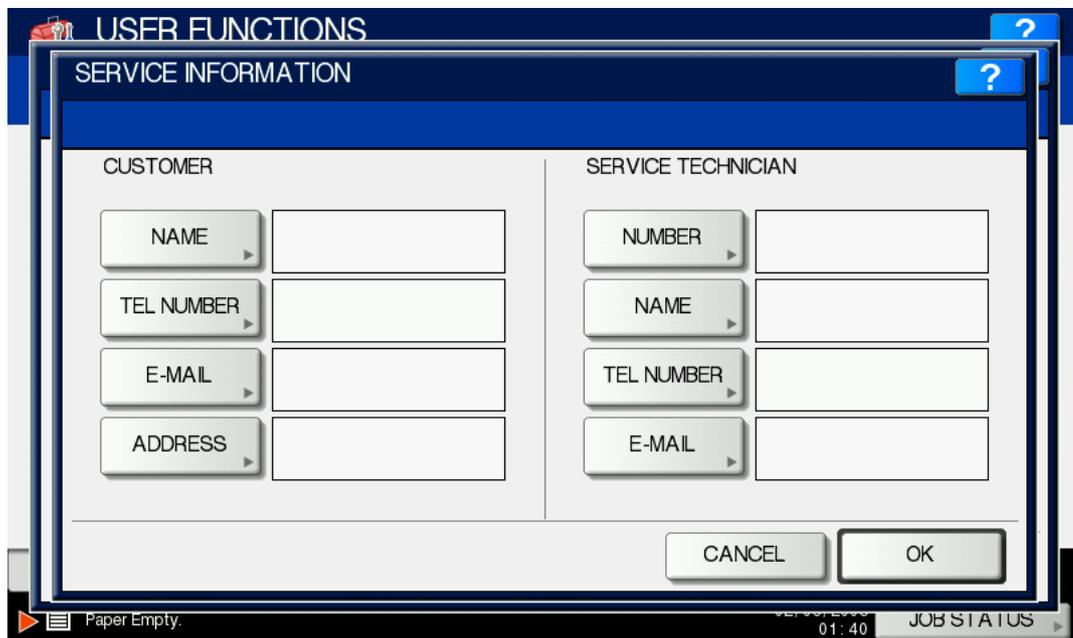
Fig.10-8

(19) Press the buttons of the screen of CUSTOMER/SERVICE TECHNICIAN to set the required item.

CUSTOMER

[NAME]	Input the name of customer.
[TEL NUMBER]	Input the telephone number of customer.
[E-MAIL]	Input the E-mail address of customer.
[ADDRESS]	Input the address of customer.

SERVICE TECHNICIAN

[NUMBER]	Input the number of SERVICE TECHNICIAN.
[NAME]	Input the name of SERVICE TECHNICIAN.
[TEL NUMBER]	Input the telephone number of SERVICE TECHNICIAN.
[E-MAIL]	Input the E-mail address of SERVICE TECHNICIAN.

(20) Press the [OK] button to register and complete the order information setting.

(21) The SERVICE screen is returned.
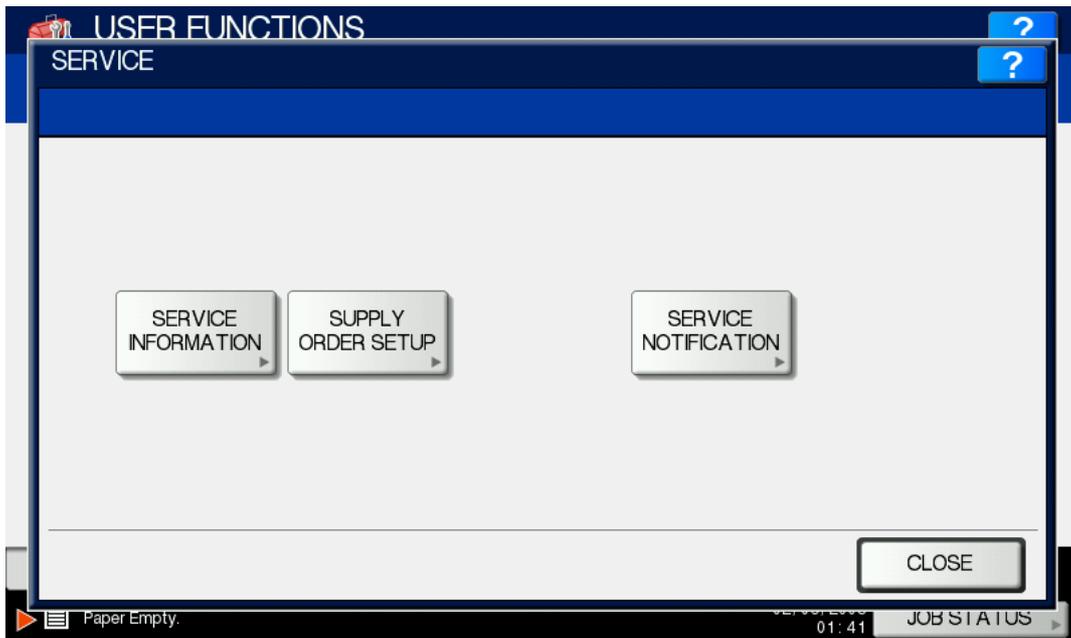
Fig.10-9

(22) Press the [SUPPLY ORDER SETUP] button.

(23) Press the [TONER ORDERING] button.
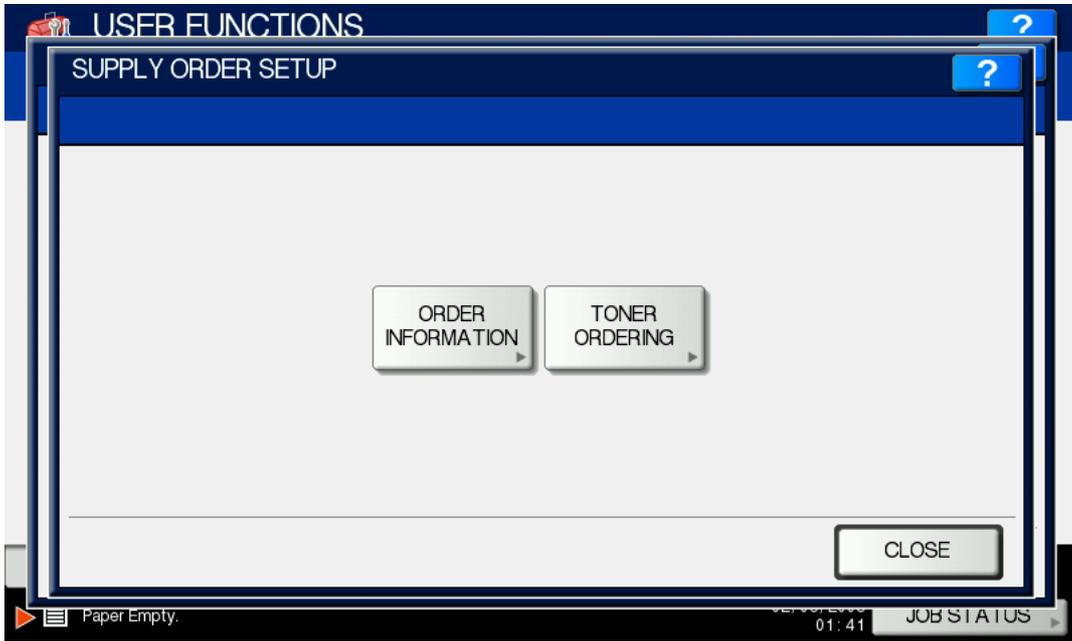
Fig.10-10

(24) The TONER ORDERING screen is displayed.
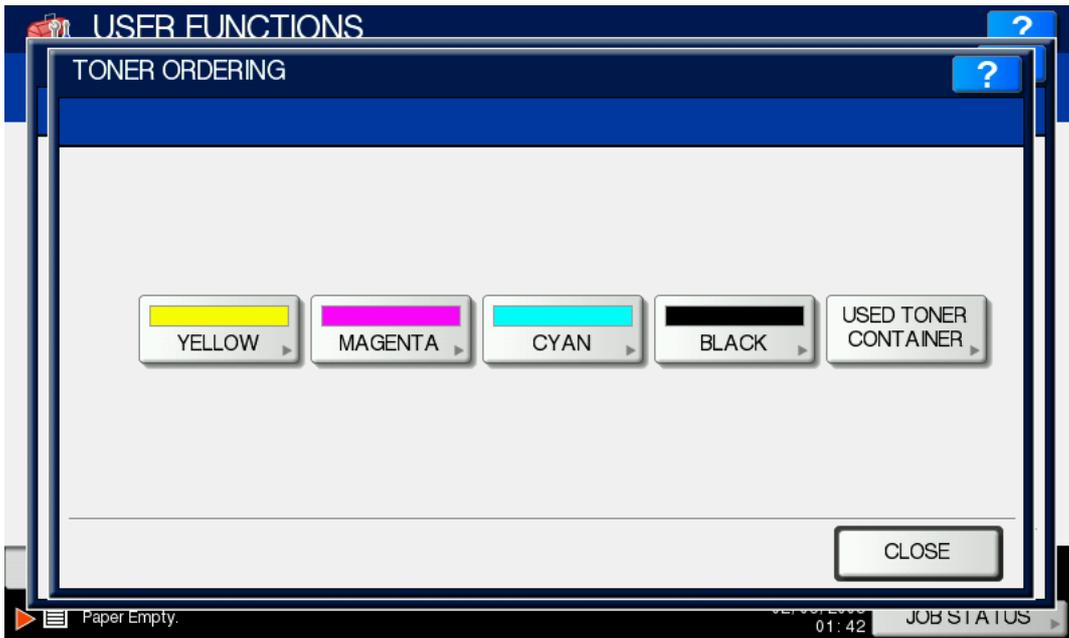
Fig.10-11

(25) Select the part to be ordered. (Press the [TONER] button.)

(26) Input the order information of TONER.
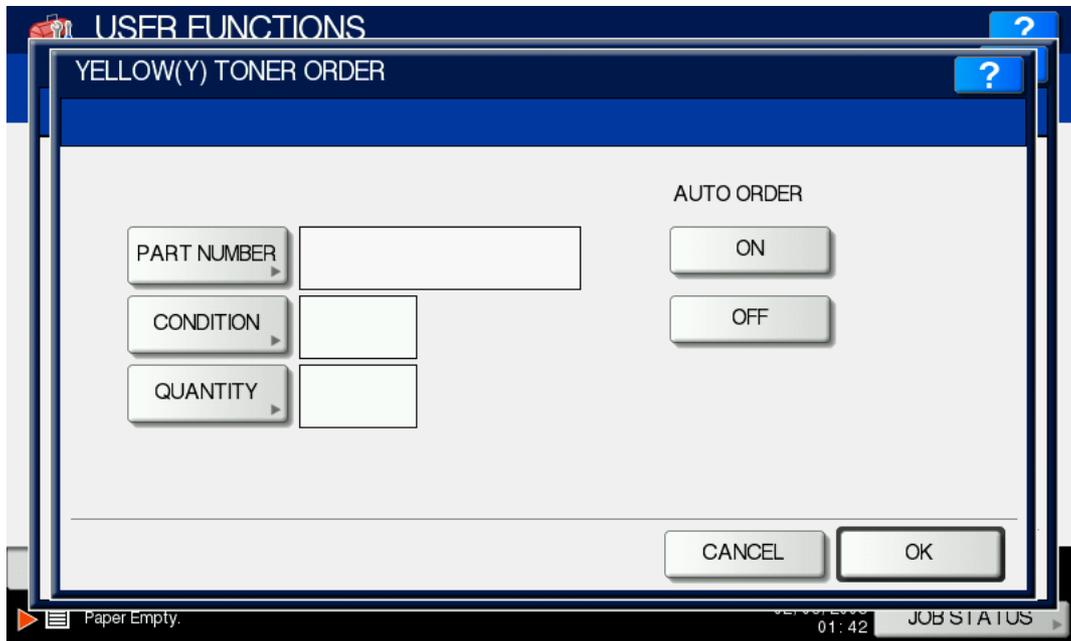
Fig.10-12

[PART NUMBER] Toner number
[CONDITION] The order is placed when the accumulated number of toner empty times reaches the value set in here.
[QUANTITY] Quantity to be ordered

AUTO ORDER
[ON]/[OFF] Allows you to select whether each part to be ordered is placed automatically or not.

(27) Press the [OK] button to register the setting of toner order.

(28) The screen returns to the TONER ORDERING.

(29) Press the [USER FUNCTION] button to be switched from the ADMIN screen on touch panel and returned to the BASIC screen, so that the setting of Auto Supply Order is finished.

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Notes:
Auto Supply Order setting is also available from the following setting mode (08).

Items	08 code	Contents
The transmitting way of order [FAX] / [MAIL] / [OFF]	9750	0: Ordered by FAX 1: Ordered by E-mail 2: Ordered by HTTP 3: OFF
SUPPLIER [FAX NUMBER]	9751	Maximum 32 digits
SUPPLIER [E-MAIL]	9752	Maximum 192 letters
CUSTOMER [NAME]	9756	Maximum 50 letters
CUSTOMER [TEL NUMBER]	9757	Maximum 32 letters
CUSTOMER [E-MAIL]	9758	Maximum 192 letters
CUSTOMER [ADDRESS]	9759	Maximum 100 letters
SUPPLIER [NAME]	9764	Maximum 50 letters
SUPPLIER [ADDRESS]	9765	Maximum 100 letters
SERVICE TECHNICIAN [NUMBER]	9760	Maximum 5 digits
SERVICE TECHNICIAN [NAME]	9761	Maximum 50 letters
SERVICE TECHNICIAN [TEL NUMBER]	9762	Maximum 32 digits
SERVICE TECHNICIAN [E-MAIL]	9763	Maximum 192 letters
Remarks [DESCRIPTION]	9766	Maximum 128 letters
TONER [PART NUMBER]	9776	Maximum 20 digits
TONER [CONDITION]	9778	1-99
TONER [QUANTITY]	9777	1-99

10.1.4 Order sheet format

The sample of order sheet is as follows.

(1) FAX (This format is the same as that of TIFF image attached E-mail.)
    *1. Part not to be ordered is not output. (Less space between the lines)

```
DATE & TIME                      :99-99-'99 99:99
CUSTOMER NAME                    :XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
CUSTOMER ADDRESS                 :XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
CUSTOMER TEL NUMBER              :XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
CUSTOMER E-MAIL ADDRESS          :XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
SERVICE TECHNICIAN NUMBER        :XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
SERVICE TECHNICIAN NAME          :XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
SERVICE TECHNICIAN TEL NUMBER    :XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
SERVICE TECHNICIAN E-MAIL        :XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
SUPPLIER NAME                    :XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
SUPPLIER ADDRESS                 :XXXXXXXXXXXXXXXXXXXXXXXXXXXXX

                                 PART NUMBER        QUANTITY
TONER CARTRIDGE        :         XXXXXXXXXXXX       99  (*1)

DESCRIPTION AREA  ...........................................
...........................................................

DEVICE DESCRIPTION               :XXXXXXXXXXXXXXXXXXXXXXX
SERIAL NUMBER                    :XXXXXXXXXXXXXXXXXXXXXXX
DEVICE FAX NUMBER                :XXXXXXXXXXXXXXXXXXXXXXX
DEVICE E-MAIL ADDRESS            :XXXXXXXXXXXXXXXXXXXXXXX

                TOTAL        BLACK        FULL COLOR
PRINT COUNTER   0            0            --------
SCAN COUNTER    0            0            0

TONER INFORMATION
   BLACK REMAINING QUANTITY (%) : 0000062
```

Fig.10-13

DESCRIPTION AREA: Remarks
DEVICE DESCRIPTION: Model name
SERIAL NUMBER: Serial number
DEVICE FAX NUMBER: Fax number
DEVICE E-MAIL ADDRESS: E-mail address

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(2) E-MAIL (TIFF image attached with the E-mail is the same format with that of the FAX order sheet.)
SUBJECT: SUPPLY ORDER REQUEST
*1. Part not to be ordered is not output. (Less space between the lines)

```
Date&Time: '08-04-14 00:17
Service Number: a1 MachineName: TOSHIBA e-STUDIOxxx
SerialNumber: 1234567890
Device FAX Number: 456
Device Email: aaa@linux.nam1.local
OrderInformation:
BLACK PartNumber: BLACK-04 Quantity: 18  (*1)
CounterInformation:
PrintCounter(Small) FullColor: 0 TwinColor: 0 Black: 150  (*2)
PrintCounter(Large) FullColor: 0 TwinColor: 0 Black: 0    (*2)
ScanCounter FullColor: 0 TwinColor: 0 Black: 7  (*3)
```

Fig.10-14

Date&Time:	Order date and time
Service Number	Service engineer number
MachineName:	Model name (MFP model name)
SerialNumber:	Serial number
Device FAX Number:	Fax number
Device Email:	E-mail address
OrderInformation:	Order information
BLACK PartNumber:	Black toner cartridge part number
Quantity:	Order quantity
CounterInformation:	Counter information

PrintCounter (Small) FullColor: 0 TwinColor: 0 Black [*2]:
    Print count (Small size) for Full color, Twin color and Black

PrintCounter (Large) FullColor: 0 TwinColor: 0 Black [*2]:
    Print count (Large size) for Full color, Twin color and Black

ScanCounter FullColor: 0 TwinColor: 0 Black: Scan count [*3]
    Scan count for Full color, Twin color and Black

*2. "FullColor:0" and "TwinColor:0" do not change. The value for "Black:" is the counter value.
*3. "TwinColor:0" does not change. The values for "FullColor:" and "Black:" are the counter values.

(3) Result list
  *1. Part not to be ordered is not output. (Less space between the lines)

```
                          SUPPLY ORDER FORM
      CONFIRMATION
                          ORDER SUCCESSFUL

      DATE & TIME                 :99-99-'99 99:99
      CUSTOMER NAME               :XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
      CUSTOMER ADDRESS            :XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
      CUSTOMER TEL NUMBER         :XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
      CUSTOMER E-MAIL ADDRESS     :XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
      SERVICE TECHNICIAN NUMBER   :XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
      SERVICE TECHNICIAN NAME     :XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
      SERVICE TECHNICIAN TEL NUMBER :XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
      SERVICE TECHNICIAN E-MAIL   :XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
      SUPPLIER NAME               :XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
      SUPPLIER ADDRESS            :XXXXXXXXXXXXXXXXXXXXXXXXXXXXX

                          PART NUMBER        QUANTITY
      TONER CARTRIDGE       :   XXXXXXXXXXX      99   (*1)

      DESCRIPTION AREA  ...........................................
      .................................................

      DEVICE DESCRIPTION       :XXXXXXXXXXXXXXXXXXXXXX
      SERIAL NUMBER            :XXXXXXXXXXXXXXXXXXXXXX
      DEVICE FAX NUMBER        :XXXXXXXXXXXXXXXXXXXXXX
      DEVICE E-MAIL ADDRESS    :XXXXXXXXXXXXXXXXXXXXXX

                   TOTAL       BLACK        FULL COLOR
      PRINT COUNTER  0           0          --------
      SCAN COUNTER   0           0           0

      TONER INFORMATION

        BLACK REMAINING QUANTITY (%) : 00000059
```

Fig.10-15

ORDER SUCCESSFUL/FAILURE:	Automatic supply ordering: transmission success or failure
DATE & TIME:	Order date and time
CUSTOMER NAME:	Customer name
CUSTOMER ADDRESS:	Customer address
CUSTOMER TEL NUMBER:	Customer telephone number
CUSTOMER E-MAIL ADDRESS:	Customer E-mail address
SERVICE TECNICIAN NUMBER	Service technician number
SERVICE TECHNICIAN NAME	Service technician name
SERVICE TECHNICIAN TEL NUMBER:	Service technician telephone number
SERVICE TECHNICIAN E-MAIL:	Service technician E-mail address
SUPPLIER NAME:	Supplier name
SUPPLIER ADDRESS:	Supplier address
PART NUMBER:	Order part number
QUANTITY:	Order quantity
TONER CARTRIDGE:	Toner cartridge

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DESCRIPTION AREA:	Remarks
DEVICE DESCRIPTION:	Model name (MFP model name)
SERIAL NUMBER:	Serial number
DEVICE FAX NUMBER:	Fax number
DEVICE E-MAIL ADDRESS:	E-mail address
PRINT COUNTER:	Print count
SCAN COUNTER:	Scan count
TOTAL:	Total
BLACK:	Black
FULL COLOR:	Full color
TONER INFORMATION	Black remaining quantity

10.2 Service Notification

10.2.1 Outline

This function automatically notifies the status of the equipment to the service technician by E-mail or FAX. The following three are the items to be notified.

- Total Counter Transmit
  When this function is effective, it notifies each counter information periodically (on the set date and time every month).

- Service Call Transmit (E-mail only)
  When this function is effective, it notifies the corresponding error code and such at a service call error.

- PM Counter Transmit
  When this function is effective, it notifies that the PM timing has come when the present PM count has reached to its setting value, or the present PM driving count has reached to its setting value.

- Toner near-empty notification
  If this function is effective, it notifies each counter information and toner cartridge information when toner near-empty occurs.

10

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REMOTE SERVICE

10.2.2　Setting

Notes:

When using this function, it is required that sending and receiving E-mails or FAXes are available. Confirm the details to the administrator.

[1]　Preparation

The screen to set this function is not displayed at the default setting.
Set this screen to be displayed with the following code (08).

08-9604	Setting of notification display
	0: Invalid (Default)
	1: Valid

[2]　Setting procedure

(1)	Press the [USER FUNCTIONS] button and select the [ADMIN] tab. Then enter the password and press the [OK] button.
- Confirm the password to the administrator.
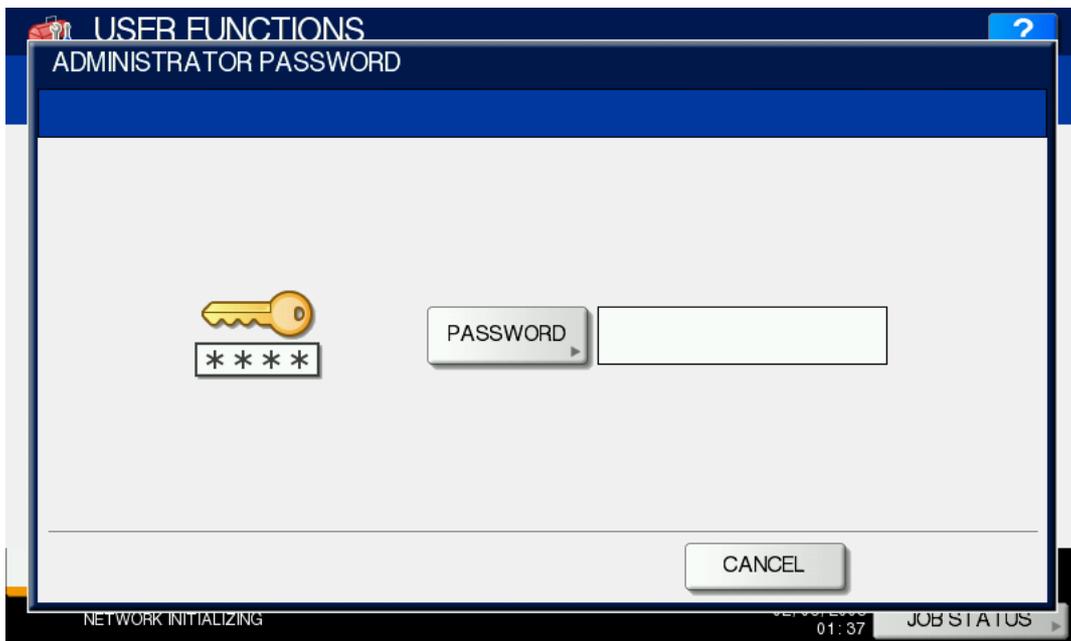
Fig.10-16

(2) Press the [SERVICE] button.
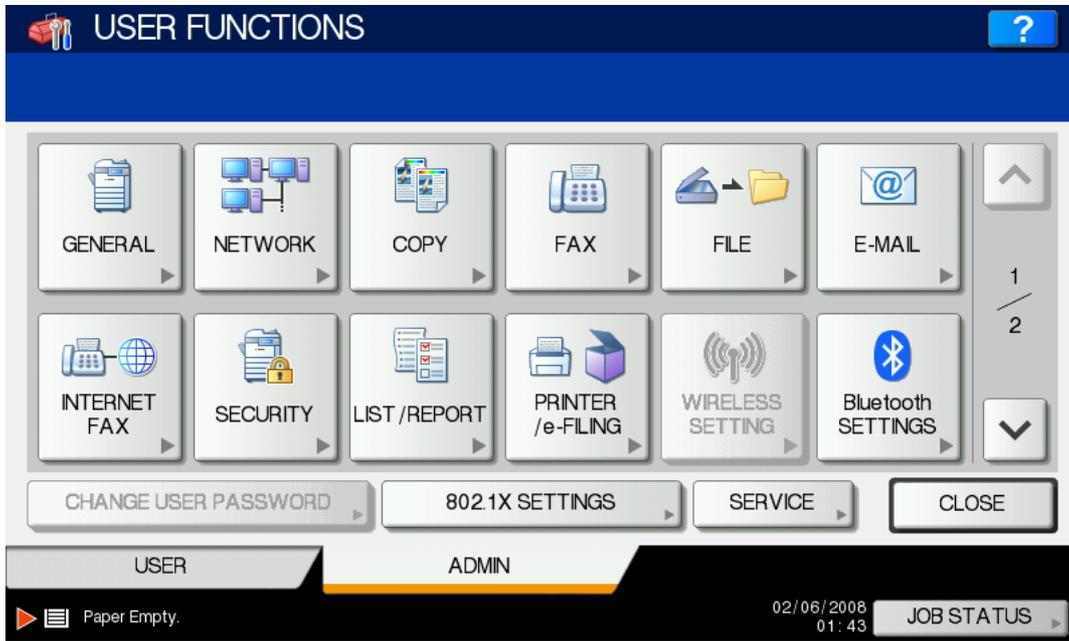
Fig.10-17

(3) Press the [SERVICE NOTIFICATION] button.

Fig.10-18

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
REMOTE SERVICE
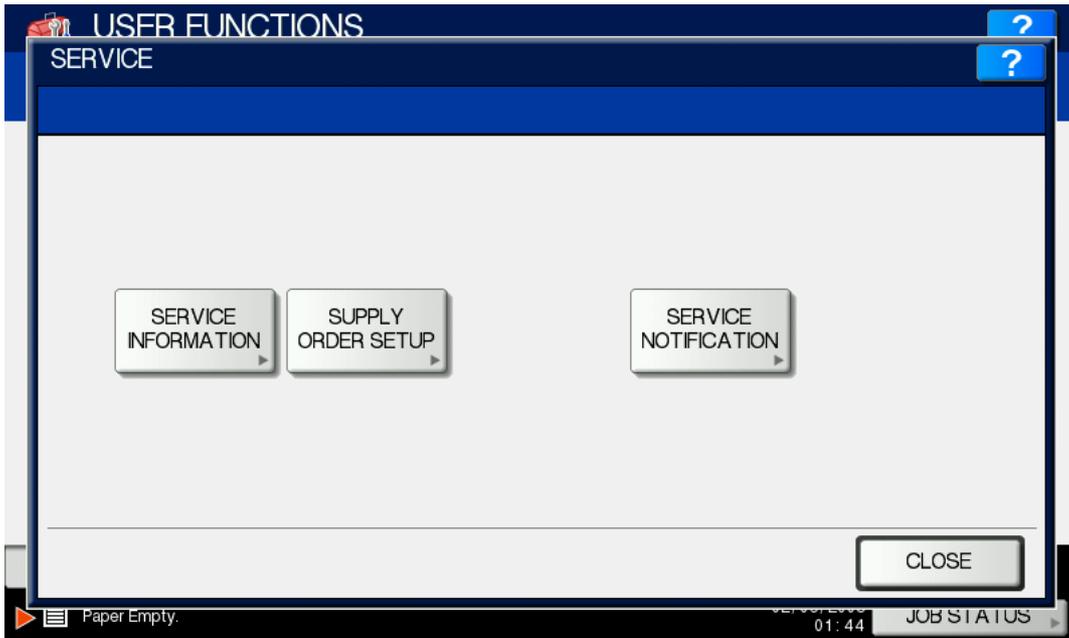
(4) Press the [E-MAIL] or [FAX] button in "SERVICE NOTIFICATION".
 • When the [OFF] button is pressed, all functions related Service Notification become ineffective.
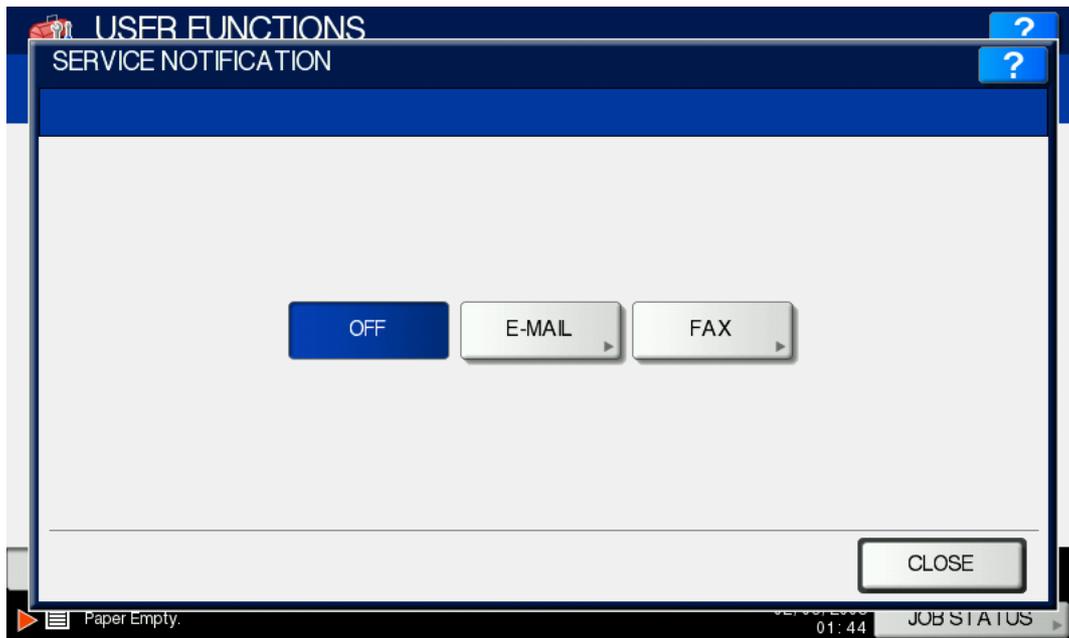
Fig.10-19

(5) Enter the E-mail address or FAX number of the destination.
 • When pressing the [E-MAIL] button, the screen is switched to a full keyboard. Then enter the E-mail addresses and press the [OK] button. (Maximum 3 addresses can be set.)
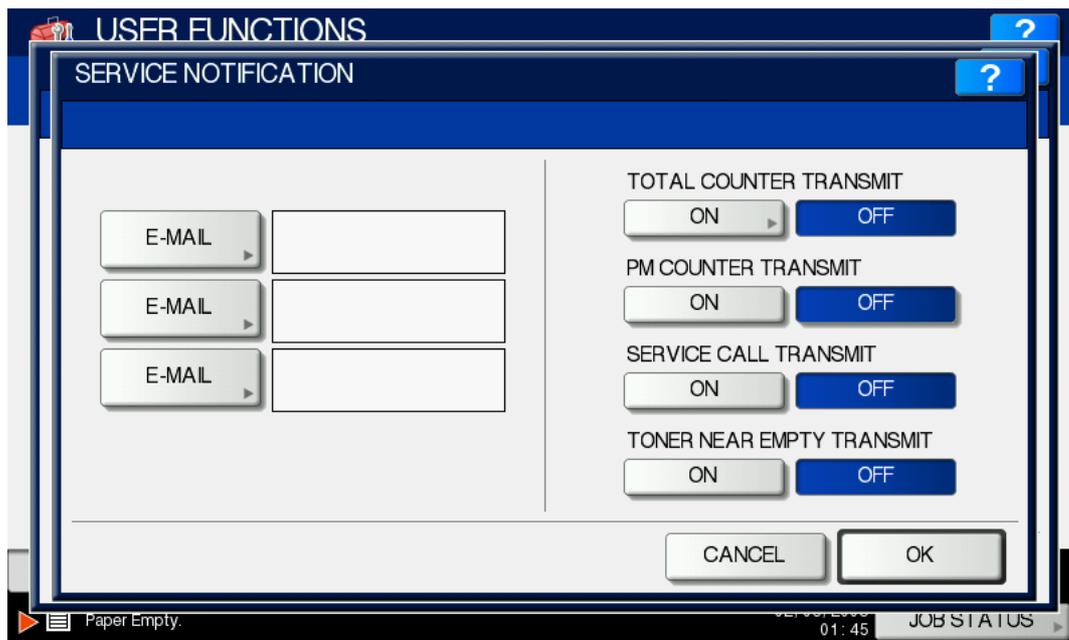
Fig.10-20

• Press the [FAX NUMBER] button, key in the FAX number and then press the [OK] button.

Fig.10-21

10

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                                                                                    REMOTE SERVICE
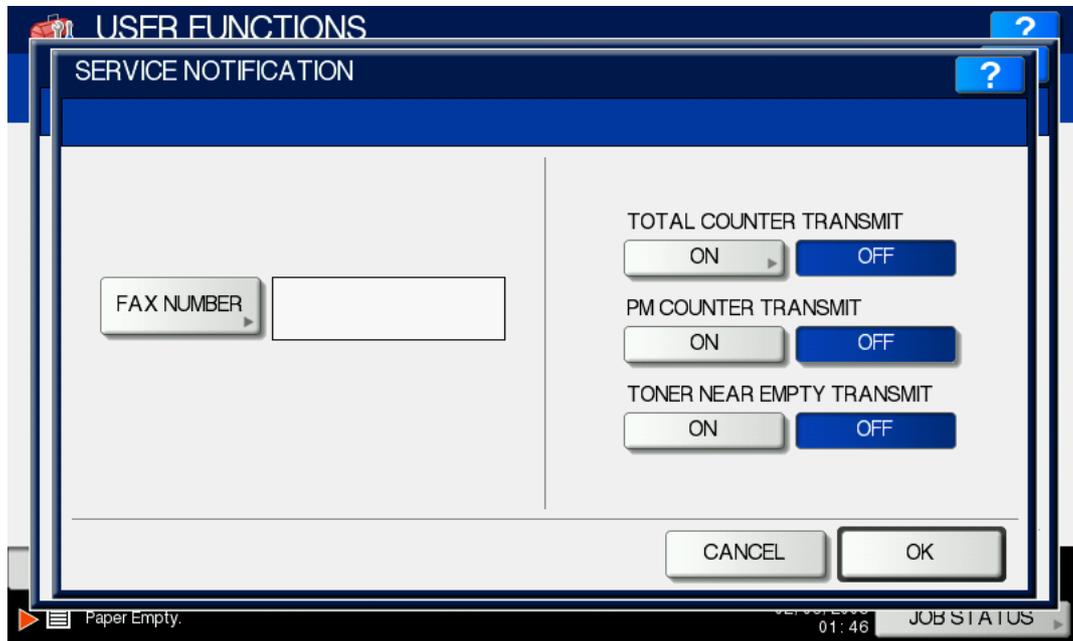
(6) Press the [ON] button to notify or the [OFF] button not to notify each item for E-mail and FAX. When Total Count Transmit is set to ON, the screen to set the notification date is displayed. Then set the notification date with the following procedure.
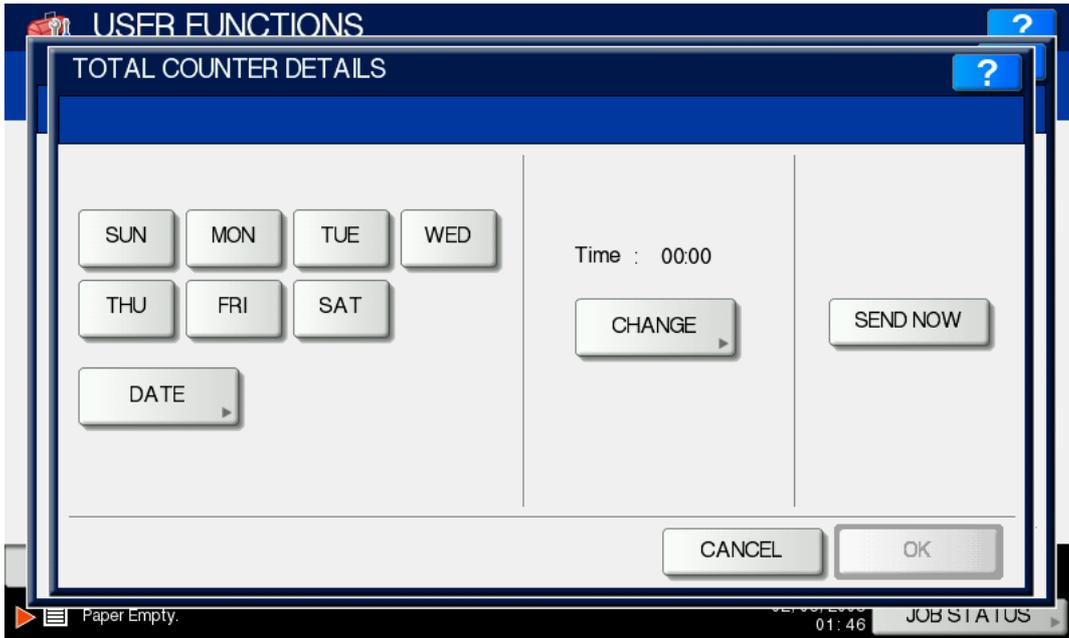
Fig.10-22

Set the date and time of the Total Counter.
The following 3 items can be specified for the date setting, and more than one day of the week also can be selected.
• Day of the week (More than one day can be selected.)
• Notify Date 1
• Notify Date 2

You can send the Total Counter immediately without the above settings by pressing the [SEND NOW] button.

• **Day of the week ([Sunday] to [Saturday] buttons)**
Pressing the buttons ([Sunday] to [Saturday]) of the desired day makes transmission on every specified day. More than one day can be selected.
 * This does not affect the settings of "Notify Date 1" and "Notify Date 2".

• **Notify Date 1 and Notify Date 2 ([DATE] button)**
Pressing the [DATE] button sets up to 2 dates on which you wand to send data.
 * This is not affected by the specified day of the week.
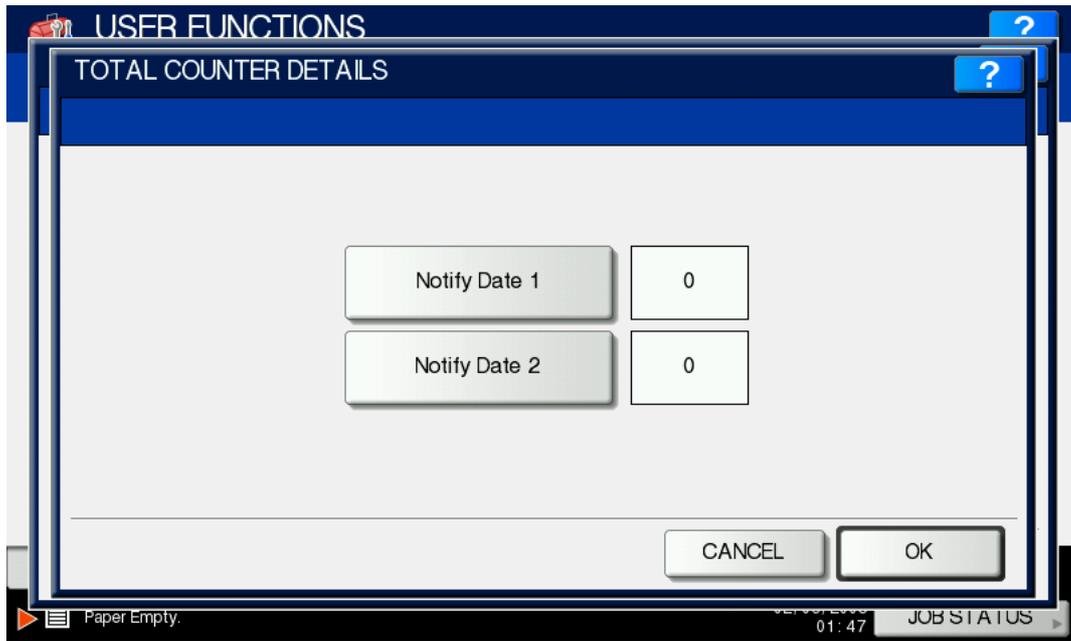
Fig.10-23

Key in the date (acceptable values: 0-31) in "Notify Date 1" or "Notify Date 2" and press the [OK] button.

10

- **Time setting ([CHANGE] button)**
  Pressing the [CHANGE] button sets the time at which you wand to send data.
  This is the time when data are sent with "Day of the week", "Notify Date 1" and "Notify Date 2".
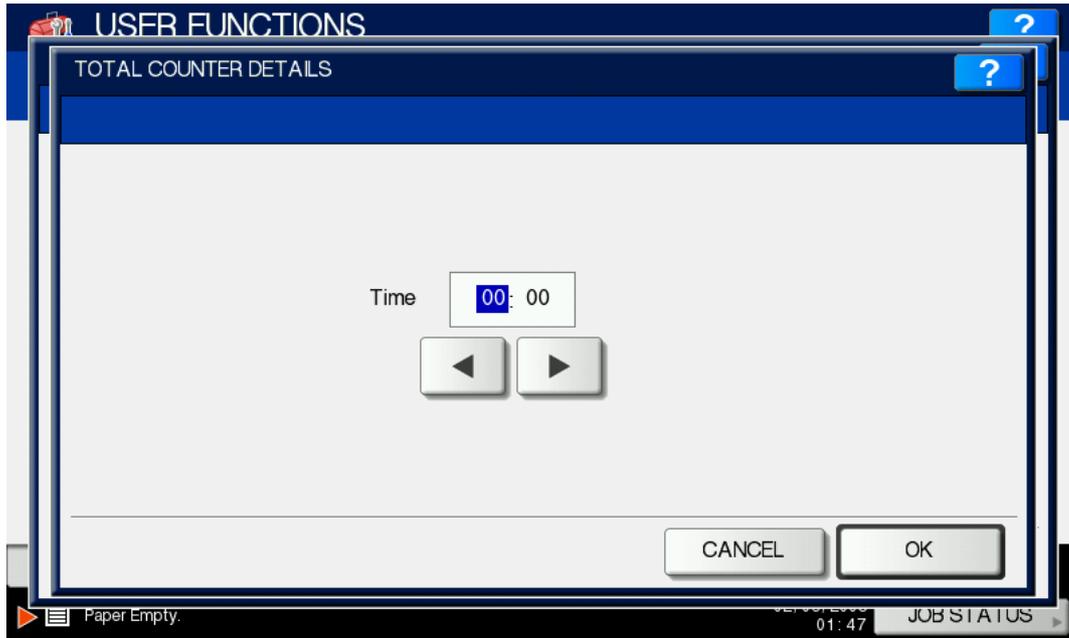
Fig.10-24

Key in the time (acceptable values: 00:00-23:59) in "Time".
Key in the time in the hour column of "Time", press the scroll button, key in the time in the minute column of "Time".
After all the settings are completed, press the [OK] button. The display returns to the screen in step (5).

(7) Press the [OK] button. The setting completes.

Notes:
Service Notification setting is also available from the following setting mode (08).

Items	08 code	Contents
Service Notification setting	9793	0: OFF (Invalid) 1:E-mail 2:FAX
E-mail address 1	9794	Maximum 192 letters
E-mail address 2	9607	Maximum 192 letters
E-mail address 3	9608	Maximum 192 letters
FAX number	9784	Maximum 32 digits
Total Counter Transmit setting	9795	0: OFF (Invalid) 1: ON (Valid)
Total counter transmission date setting	9796	0 to 31
Total counter transmission date setting(2)	9880	0 to 31
Day of total counter data transmission	9881	1 byte 00000000(0)-01111111(127) From the 2nd bit - Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday
Total counter transmission interval setting (Hour/Hour/Minute/Minute)	9606	00:00-23:59
Service Call Transmit setting	9605	0: OFF (Invalid) 1: ON (Valid)
PM Counter Transmit setting	9797	0: OFF (Invalid) 1: ON (Valid)

10.2.3 Items to be notified

The items to be notified are shown below.

1. Total Counter Transmit / PM Counter Transmit by E-mail
   Subject: Counter Notification
   (In case of the PM Counter Transmit, it is shown as "Periodical Maintenance Notification".)

```
1 ——— Date          : 04/26/2008 12:34
2 ——— Machine Model : TOSHIBA e-STUDIO655
3 ——— SerialNumber  : 1234567890
4 ——— Total Counter : 00004787
5 ——— Supplier:
          Name       : SUPPLIER_NAME
          Fax Number : 1122334455
          E-Mail     : Supplier_emailaddress@cccc.xxx
          Address    : SUPPLIER_ADDRESS
6 ——— Customer:
          Name       : CUSTOMER_NAME
          Tel Number : 1234567890
          E-Mail     : customer_emailaddress@dddd.xxx
          Address    : CUSTOMER_ADDRESS
7 ——— Service Technician:
          Number     : svc12
          Name       : SERVICE_TECHNICIAN_NAME
          Tel Number : 0987654321
          E-Mail     : svc@toshibatec.co.jp
       ChargeCounterFormat:
8 ———       LargeSizeChargeCount          1
9 ———       LargeSizeChargePaperDefinition 1

       PMCounterFormat:
10 ——       LargeSizePMCount              1
11 ——       LargeSizePMPaperDefinition    0
       Charge Counter:
                         Large     Small
          <Print Counter>
          Black ----------------------------------------
12 ——       Copy       00000000  00000000
13 ——       Print      00000000  00000000
14 ——       List       00000000  00000000
15 ——       FAX        00000000  00000000

          <Scan Counter>
          Full Color ----------------------------------------
16 ——       Net Scan   00000000  00000000
          Black ----------------------------------------
17 ——       Copy Scan  00000000  00000000
18 ——       FAX Scan   00000000  00000000
19 ——       Net Scan   00000000  00000000

          <FAX Counter>
20 ——    Transmit      00000000  00000000
21 ——    Receive       00000000  00000000
```

Fig.10-25

```
Periodical Maintenance Counter:

                      Pages        Drive Counts
       ----------------------------------------------
       K-EPU
22 ──      Setting    00000000     00000000
23 ──      Current    00000000     00000000
       ----------------------------------------------
       K-EPU
24 ──      Setting    00000000     00000000
25 ──      Current    00000000     00000000
       ----------------------------------------------
       Others
26 ──      Setting    00000000     00000000
27 ──      Current    00000000     00000000


28 ──  Printer Error History:
       Date         Time      ErrorCode   Counter
       ----------------------------------------------
       04/13/2008   16:44     F110        00000000
       04/12/2008   22:28     F110        00000000
       04/12/2008   22:23     F110        00000000  ┐ (*1)
       03/15/2008   22:23     F110        00000000  ┘
       02/25/2008   11:12     F110        00000000

29 ──  Toner                  Remaining Quantity (%)
       ----------------------------------------------
       Black                  00000000
```

Fig.10-26

1. Date
2. Machine model name
3. Serial number
4. Total counter value
5. Supplier information
6. Customer information
7. Service technician information
8. Count setting of large-sized paper (Fee charging system counter)
9. Definition setting of large-sized paper (Fee charging system counter)
10. Count setting of large-sized paper (PM)
11. Definition setting of large-sized paper (PM)
12. Number of output pages in the Copier Function (BLACK)
13. Number of output pages in the Printer Function (BLACK)
14. Number of output pages at the List Print Mode (BLACK)
15. Number of output pages in the FAX Function (BLACK)
16. Number of scanning pages in the Network Scanning Function (Full color)
17. Number of scanning pages in the Copier Function (BLACK)
18. Number of scanning pages in the FAX Function (BLACK)
19. Number of scanning pages in the Network Scanning Function (BLACK)
20. Number of transmitted pages in the FAX Function (BLACK)
21. Number of received pages in the FAX Function (BLACK)
22. PM count setting value / PM driving count setting value [EPU (K)]
23. PM count present value / PM driving count present value [EPU (K)]
24. PM count setting value / PM driving count setting value [Developer material (K)]
25. PM count present value / PM driving count present value [Developer material (K)]
26. PM count setting value / PM driving count setting value [Other parts]
27. PM count present value / PM driving count present value [Other parts]
28. History of error
    *1 The latest 20 errors are displayed.
29. Toner remaining quantity (Black)

2. Total Counter Transmit / PM Counter Transmit by FAX
*1 In case of the PM Counter Transmit, the title is replaced to "PERIODICAL MAINTENANCE NOTIFICATION".

Sheet 1

```
                COUNTER NOTIFICATION (*1)

1 ──── DATE                             : 08/04/14 13:47
2 ──── MACHINE MODEL                    : TOSHIBA e-STUDIO655
3 ──── SERIAL NUMBER                    : 1234567890
4 ──── TOTAL COUNTER                    : 00004787


      ┌ CUSTOMER NAME                   : CUSTOMER_NAME
      │ CUSTOMER ADDRESS                : CUSTOMER_ADDRESS
5 ────┤ CUSTOMER TEL NUMBER            : 1234567890
      └ CUSTOMER E-MAIL ADDRESS         : customer_emailaddress@dddd.xxx
      ┌ SERVICE TECHNICIAN NUMBER       : svc12
6 ────┤ SERVICE TECHNICIAN NAME         : SERVICE_TECHNICIAN_NAME
      │ SERVICE TECHNICIAN TEL NUMBER   : 0987654321
      └ SERVICE TECHNICIAN E-MAIL       : svc@toshibatec.co.jp
      ┌ SUPPLIER NAME                   : SUPPLIER_NAME
7 ────┤ SUPPLIER ADDRESS               : SUPPLIER_ADDRESS
      │ SUPPLIER FAX NUMBER            : 5544332211
      └ SUPPLIER E-MAIL                : supplier_emailaddress@ccccc.xxx
```

Fig.10-27

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                                                                                        REMOTE SERVICE

```
        COUNTER NOTIFICATION (*1)

     CHARGE COUNTER FORMAT                          PM COUNTER FORMAT

 8 ─── LARGE SIZE CHARGE COUNT              : 1  ┌── LARGE SIZE PM COUNT              : 1
 9 ─── LARGE SIZE CHARGE PAPER DEFINITION   : 1  │ ┌─ LARGE SIZE PM PAPER DEFINITION  : 0
     CHARGE COUNTER                              10 11

     PRINT COUNTER                               SCAN COUNTER
        BLACK       LARGE       SMALL               FULL COLOR   LARGE       SMALL
12 ─── COPY        00000000    00000000   16 ─── NET SCAN    00000000    00000000
13 ─── PRINT       00000000    00000000               BLACK        LARGE       SMALL
14 ─── LIST        00000000    00000000   17 ─── COPY SCAN   00000000    00000000
15 ─── FAX         00000000    00000000   18 ─── FAX SCAN    00000000    00000000
                                          19 ─── NET SCAN    00000000    00000000
     FAX COUNTER
                   LARGE       SMALL
20 ─── TRANSMIT    00000000    00000000
21 ─── RECEIVE     00000000    00000000

     PERIODICAL MAINTENANCE COUNTER

22 ─ SETTING  VALUE  (K-EPU PAGES)         : 00000000   SETTING  VALUE  (K-DEV DRIVE COUNTS)  : 00000000 ─ 28
23 ─ CURRENT VALUE  (K-EPU PAGES)          : 00000000   CURRENT VALUE  (K-DEV DRIVE COUNTS)  : 00000000 ─ 29
24 ─ SETTING  VALUE  (K-EPU DRIVE COUNTS)  : 00000000   SETTING  VALUE  (OTHERS PAGES)       : 00000000 ─ 30
25 ─ CURRENT VALUE  (K-EPU DRIVE COUNTS)   : 00000000   CURRENT VALUE  (OTHERS PAGES)        : 00000000 ─ 31
26 ─ SETTING  VALUE  (K-DEV PAGES)         : 00000000   SETTING  VALUE  (OTHERS DRIVE COUNTS) : 00000000 ─ 32
27 ─ CURRENT VALUE  (K-DEV PAGES)          : 00000000   CURRENT VALUE  (OTHERS DRIVE COUNTS) : 00000000 ─ 33

34 ─ PRINTER ERROR HISTORY

     DATE     TIME    ERROR CODE   COUNTER      DATE     TIME    ERROR CODE   COUNTER ┐
     08/04/13 16:44   F110         00000000     08/04/13 16:44  F110         00000000 │
     08/04/12 22:28   F110         00000000     08/04/13 16:44  F110         00000000 │
     08/04/12 22:23   F110         00000000     08/04/13 16:44  F110         00000000 ├ (*2)
     08/03/15 22:23   F110         00000000     08/04/13 16:44  F110         00000000 │
     08/02/25 11:12   F110         00000000     08/04/13 16:44  F110         00000000 ┘

35 ─ TONER INFORMATION

     BLACK REMAINING QUANTITY (%)               :   00000059
```

Fig.10-28

1. Date
2. Machine model name
3. Serial number
4. Total counter value
5. Customer information
6. Service technician information
7. Supplier information
8. Count setting of large-sized paper (Fee charging system counter)
9. Definition setting of large-sized paper (Fee charging system counter)
10. Count setting of large-sized paper (PM)
11. Definition setting of large-sized paper (PM)
12. Number of output pages in the Copier Function (BLACK)
13. Number of output pages in the Printer Function (BLACK)
14. Number of output pages at the List Print Mode (BLACK)
15. Number of output pages in the FAX Function (BLACK)

16. Number of scanning pages in the Network Scanning Function (Full color)
17. Number of scanning pages in the Copier Function (BLACK)
18. Number of scanning pages in the FAX Function (BLACK)
19. Number of scanning pages in the Network Scanning Function (BLACK)
20. Number of transmitted pages in the FAX Function (BLACK)
21. Number of received pages in the FAX Function (BLACK)
22. PM count setting value [EPU (K)]
23. PM count present value [EPU (K)]
24. PM driving count setting value [EPU (K)]
25. PM driving count present value [EPU (K)]
26. PM count setting value [Developer material (K)]
27. PM driving count present value [Developer material (K)]
28. PM driving count setting value [Developer material (K)]
29. PM driving count present value [Developer material (K)]
30. PM count setting value (Other parts)
31. PM driving count present value (Other parts)
32. PM driving count setting value (Other parts)
33. PM driving count present value (Other parts)
34. History of error
     *2 The latest 20 errors are displayed.
35. Toner remaining quantity (Black)

10

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REMOTE SERVICE

3. Toner near-empty notification by e-mail
   Subject: Toner Near-Empty Notification

```
1 ——   Date          : 04/26/2008 12:34
2 ——   Machine Model : TOSHIBA e-STUDIO655
3 ——   SerialNumber  : 1234567890
4 ——   Total Counter : 00004787
5 ——   Supplier:
           Name       : SUPPLIER_NAME
           Fax Number : 1122334455
           E-Mail     : Supplier_emailaddress@cccc.xxx
           Address    : SUPPLIER_ADDRESS
6 ——   Customer:
           Name       : CUSTOMER_NAME
           Tel Number : 1234567890
           E-Mail     : customer_emailaddress@dddd.xxx
           Address    : CUSTOMER_ADDRESS
7 ——   Service Technician:
           Number     : svc12
           Name       : SERVICE_TECHNICIAN_NAME
           Tel Number : 0987654321
           E-Mail     : svc@toshibatec.co.jp

       ChargeCounterFormat:
8 ——       LargeSizeChargeCount            1
9 ——       LargeSizeChargePaperDefinition  1

       PMCounterFormat:
10——       LargeSizePMCount                1
11——       LargeSizePMPaperDefinition  0

       Charge Counter:
                               Large     Small
           <Print Counter>
           Black ----------------------------------------
12——          Copy         00000000   00000000
13——          Print        00000000   00000000
14——          List         00000000   00000000
15——          FAX          00000000   00000000

           <Scan Counter>
           Full Color ----------------------------------------
16——          Net Scan     00000000   00000000
           Black ----------------------------------------
17——          Copy Scan    00000000   00000000
18——          FAX Scan     00000000   00000000
19——          Net Scan     00000000   00000000

           <FAX Counter>
20——      Transmit         00000000   00000000
21——      Receive          00000000   00000000
```

Fig.10-29

```
Periodical Maintenance Counter:

                         Pages      Drive Counts
        --------------------------------------------------
        K-EPU
22 ——       Setting       00000000   00000000
23 ——       Current       00000000   00000000
        --------------------------------------------------
        K-EPU
24 ——       Setting       00000000   00000000
25 ——       Current       00000000   00000000
        --------------------------------------------------
        Others
26 ——       Setting       00000000   00000000
27 ——       Current       00000000   00000000


28 ——   Printer Error History:
        Date          Time       ErrorCode   Counter
        --------------------------------------------------
        04/13/2008    16:44      F110        00000000  ⎤
        04/12/2008    22:28      F110        00000000  ⎥
        04/12/2008    22:23      F110        00000000  ⎬ (*1)
        03/15/2008    22:23      F110        00000000  ⎥
        02/25/2008    11:12      F110        00000000  ⎦

29 ——   Toner Cartridge Information:

30 ——       Toner Near-Empty Counter
31 ——           Setting            00000000
32 ——           Current            00000000

            Toner Near-Empty Sensed   1

33 ——       Point Of Destination      0

34 ——       Used History
35 ——           Developer Counter        00000000
36 ——           Developer Driving Time   00000000
37 ——           Drum Driving Time        00000000

38 ——   Toner Information:

        Toner
        --------------------------------------------------
        Black                         00000000
```

Fig.10-30

1. Date
2. Machine model name
3. Serial number
4. Total counter value
5. Supplier information
6. Customer information
7. Service technician information
8. Count setting of large-sized paper (Fee charging system counter)
9. Definition setting of large-sized paper (Fee charging system counter)
10. Count setting of large-sized paper (PM)
11. Definition setting of large-sized paper (PM)
12. Number of output pages in the Copier Function (BLACK)
13. Number of output pages in the Printer Function (BLACK)
14. Number of output pages at the List Print Mode (BLACK)
15. Number of output pages in the FAX Function (BLACK)
16. Number of scanning pages in the Network Scanning Function (Full color)
17. Number of scanning pages in the Copier Function (BLACK)
18. Number of scanning pages in the FAX Function (BLACK)
19. Number of scanning pages in the Network Scanning Function (BLACK)
20. Number of transmitted pages in the FAX Function (BLACK)

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REMOTE SERVICE

21. Number of received pages in the FAX Function (BLACK)
22. PM count setting value / PM driving count setting value [EPU (K)]
23. PM count present value / PM driving count present value [EPU (K)]
24. PM count setting value / PM driving count setting value [Developer material (K)]
25. PM count present value / PM driving count present value [Developer material (K)]
26. PM count setting value / PM driving count setting value [Other parts]
27. PM count present value / PM driving count present value [Other parts]
28. History error
29. Toner cartridge information
30. Toner near-empty counter
31. Setting value of toner cartridge rotation time counter
32. Current value of toner cartridge rotation time counter
33. Destination setting of toner cartridge
34. Usage History
35. Current value for total printed sheets of developer
36. Current value for developer driving time
37. Current value for drum driving time
    *1. The latest 20 errors are displayed.
38. Toner remaining quantity (Black)

4. Toner near-empty notification by FAX

Sheet 1

```
        TONER NEAR-EMPTY NOTIFICATION (*1)

1 ── DATE                             : 08/04/14 13:47
2 ── MACHINE MODEL                    : TOSHIBA e-STUDIO655
3 ── SERIAL NUMBER                    : 1234567890
4 ── TOTAL COUNTER                    : 00004787


       CUSTOMER NAME                  : CUSTOMER_NAME
       CUSTOMER ADDRESS               : CUSTOMER_ADDRESS
5 ──   CUSTOMER TEL NUMBER            : 1234567890
       CUSTOMER E-MAIL ADDRESS        : customer_emailaddress@dddd.xxx
       SERVICE TECHNICIAN NUMBER      : svc12
       SERVICE TECHNICIAN NAME        : SERVICE_TECHNICIAN_NAME
6 ──   SERVICE TECHNICIAN TEL NUMBER  : 0987654321
       SERVICE TECHNICIAN E-MAIL      : svc@toshibatec.co.jp
       SUPPLIER NAME                  : SUPPLIER_NAME
       SUPPLIER ADDRESS               : SUPPLIER_ADDRESS
7 ──   SUPPLIER FAX NUMBER            : 5544332211
       SUPPLIER E-MAIL                : supplier_emailaddress@ccccc.xxx
```

Fig.10-31

Sheet 2

```
┌──────────────────────────────────────────────────────────────────────────────────────────┐
│                                                                                            │
│        COUNTER NOTIFICATION (*1)                                                           │
│                                                                                            │
│     CHARGE COUNTER FORMAT                          PM COUNTER FORMAT                        │
│                                                                                            │
│  8 ──── LARGE SIZE CHARGE COUNT            : 1 ┌─ LARGE SIZE PM COUNT           : 1         │
│  9 ──── LARGE SIZE CHARGE PAPER DEFINITION : 1 ┌─ LARGE SIZE PM PAPER DEFINITION : 0        │
│                                                                                            │
│     CHARGE COUNTER                             10 11                                        │
│                                                                                            │
│     PRINT COUNTER                          SCAN COUNTER                                     │
│        BLACK        LARGE      SMALL          FULL COLOR    LARGE      SMALL                 │
│ 12 ──── COPY      00000000   00000000   16 ── NET SCAN    00000000   00000000               │
│ 13 ──── PRINT     00000000   00000000         BLACK        LARGE      SMALL                 │
│ 14 ──── LIST      00000000   00000000   17 ── COPY SCAN   00000000   00000000               │
│ 15 ──── FAX       00000000   00000000   18 ── FAX SCAN    00000000   00000000               │
│                                         19 ── NET SCAN    00000000   00000000               │
│     FAX COUNTER                                                                            │
│                     LARGE      SMALL                                                        │
│ 20 ──── TRANSMIT  00000000   00000000                                                       │
│ 21 ──── RECEIVE   00000000   00000000                                                       │
│                                                                                            │
│     PERIODICAL MAINTENANCE COUNTER                                                         │
│                                                                                            │
│ 22 ── SETTING  VALUE (K-EPU PAGES)        : 00000000   SETTING  VALUE (K-DEV DRIVE COUNTS) : 00000000 ── 28 │
│ 23 ── CURRENT VALUE (K-EPU PAGES)         : 00000000   CURRENT VALUE (K-DEV DRIVE COUNTS) : 00000000 ── 29 │
│ 24 ── SETTING  VALUE (K-EPU DRIVE COUNTS) : 00000000   SETTING  VALUE (OTHERS PAGES)       : 00000000 ── 30 │
│ 25 ── CURRENT VALUE (K-EPU DRIVE COUNTS)  : 00000000   CURRENT VALUE (OTHERS PAGES)        : 00000000 ── 31 │
│ 26 ── SETTING  VALUE (K-DEV PAGES)        : 00000000   SETTING  VALUE (OTHERS DRIVE COUNTS) : 00000000 ── 32 │
│ 27 ── CURRENT VALUE (K-DEV PAGES)         : 00000000   CURRENT VALUE (OTHERS DRIVE COUNTS) : 00000000 ── 33 │
│                                                                                            │
│ 34 ── PRINTER ERROR HISTORY                                                                │
│                                                                                            │
│     DATE      TIME    ERROR CODE   COUNTER      DATE      TIME    ERROR CODE   COUNTER ┐     │
│     08/04/13  16:44   F110         00000000     08/04/13  16:44   F110         00000000│     │
│     08/04/12  22:28   F110         00000000     08/04/13  16:44   F110         00000000│     │
│     08/04/12  22:23   F110         00000000     08/04/13  16:44   F110         00000000├ (*2)│
│     08/03/15  22:23   F110         00000000     08/04/13  16:44   F110         00000000│     │
│     08/02/25  11:12   F110         00000000     08/04/13  16:44   F110         00000000┘     │
│                                                                                            │
└──────────────────────────────────────────────────────────────────────────────────────────┘
```

Fig.10-32

Sheet 3

COUNTER NOTIFICATION (*1)

34 — PRINTER ERROR HISTORY

DATE	TIME	ERROR CODE	COUNTER	DATE	TIME	ERROR CODE	COUNTER	
08/04/13	16:44	F110	00000000	08/04/13	16:44	F110	00000000	
08/04/12	22:28	F110	00000000	08/04/13	16:44	F110	00000000	
08/04/12	22:23	F110	00000000	08/04/13	16:44	F110	00000000	(*2)
08/03/15	22:23	F110	00000000	08/04/13	16:44	F110	00000000	
08/02/25	11:12	F110	00000000	08/04/13	16:44	F110	00000000	

35 — Toner Cartridge Information:

36 —   Toner Near-Empty Counter
37 —   Setting   00000000
38 —   Current   00000000

   Toner Near-Empty Sensed   1

39 —   Point Of Destination   0

40 —   Used History
41 —   Developer Counter   00000000
42 —   Developer Driving Time   00000000
43 —   Drum Driving Time   00000000

Fig.10-33

10

1.   Date
2.   Machine model name
3.   Serial number
4.   Total counter value
5.   Customer information
6.   Service technician information
7.   Supplier information
8.   Count setting of large-sized paper (Fee charging system counter)
9.   Definition setting of large-sized paper (Fee charging system counter)
10.   Count setting of large-sized paper (PM)
11.   Definition setting of large-sized paper (PM)
12.   Number of output pages in the Copier Function (BLACK)
13.   Number of output pages in the Printer Function (BLACK)
14.   Number of output pages at the List Print Mode (BLACK)
15.   Number of output pages in the FAX Function (BLACK)
16.   Number of scanning pages in the Network Scanning Function (Full color)
17.   Number of scanning pages in the Copier Function (BLACK)
18.   Number of scanning pages in the FAX Function (BLACK)
19.   Number of scanning pages in the Network Scanning Function (BLACK)
20.   Number of transmitted pages in the FAX Function (BLACK)
21.   Number of received pages in the FAX Function (BLACK)
22.   PM count setting value [EPU (K)]
23.   PM count present value [EPU (K)]
24.   PM driving count setting value [EPU (K)]
25.   PM driving count present value [EPU (K)]
26.   PM count setting value [Developer material (K)]

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27. PM driving count present value [Developer material (K)]
28. PM driving count setting value [Developer material (K)]
29. PM driving count present value [Developer material (K)]
30. PM count setting value (Other parts)
31. PM driving count present value (Other parts)
32. PM driving count setting value (Other parts)
33. PM driving count present value (Other parts)
34. History of error
35. Toner cartridge information
36. Toner near-empty counter
37. Setting value of toner cartridge rotation time counter
38. Current value of toner cartridge rotation time counter
39. Destination setting of toner cartridge
40. Usage History
41. Current value for total printed sheets of developer
42. Current value for developer driving time
43. Current value for drum driving time
    *2 The latest 20 errors are displayed.

5. Service Call Transmit
   Subject: Service Call Notification

```
1 ———— Date: 04/14/2008 13:47
        Machine Name: e-STUDIO3520C SerialNumber:1234567890
                              └──── 2        └──── 3
4 ———— Function: Printer
5 ———— Severity: Error
6 ———— ErrorCode: XXXX
7 ———— Message:
        XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

8 ———— Supplier:
          Name        : SUPPLIER_NAME
          Tel Number  : 1122334455
          E-Mail      : supplier_emailaddress@cccc.xxx
          Address     : SUPPLIER_ADDRESS

9 ———— Customer:
          Name        : CUSTOMER_NAME
          Tel Number  : 1234567890
          E-Mail      : customer_emailaddress@dddd.xxx
          Address     : CUSTOMER_ADDRESS

10 ——— Service Technician:
          Number      : svc12
          Name        : SERVICE_TECHNICIAN_NAME
          Tel Number  : 0987654321
          E-Mail      : svc@toshibatec.co.jp

11 ——— Printer Error History:

          Date        Time     ErrorCode       Counter
          -----------------------------------------------------------
          04/13/2008   16:44    F110
          04/12/2008   22:28    F110
          04/12/2008   22:23    F110            (*1)
          03/15/2008   22:23    F110
          02/25/2008   11:12    F110

12 ——— Toner Information

          Toner                        Remaining Quantity(%)
          -----------------------------------------------------------
          Black                        00000000
```

Fig.10-34

1. Date (When an error occurs)
2. Machine model name
3. Serial number
4. Function: Fixed at "Printer"
5. Severity: Fixed at "Error"
6. Error code
7. Error message: The content of error is displayed.
8. Supplier information
9. Customer information

10. Service technician information
11. History of error
     *1 The latest 20 errors are displayed.
12. Toner remaining quantity (Black)

11. FIRMWARE UPDATING

11.1 General Description

When you want to update the firmware to the latest one or the equipment becomes inoperable due to some defect in the firmware, updating can be performed as follows.

11.1.1 e-STUDIO256/356/456/506

Equipment

Firmware	Updating method
Master data (HDD program data)	USB media
System ROM (OS data)	USB media
	Download jig (PWA-DWNLD-350-JIG1)
Engine ROM (Engine firmware)	USB media
	Download jig (PWA-DWNLD-350-JIG1)
Scanner ROM (Scanner firmware)	USB media
	Download jig (K-PWA-DLM-320)

Options

Model name	Firmware	Updating method
Reversing Automatic Document Feeder (RADF) (MR-3021/3022)	RADF firmware	USB media
		Download jig (K-PWA-DLM-320)
Finisher (MJ-1032)	Finisher firmware	Download jig (K-PWA-DLM-320)
	Converter firmware[*]	
Finisher (MJ-1033)	Finisher firmware	
	Converter firmware[*]	
Finisher (MJ-1101)	Finisher firmware	
	Converter firmware[*]	
Finisher (MJ-1106)	Finisher firmware	
	Converter firmware[*]	
	Saddle stitcher firmware	
Hole Punch Unit (MJ-6007)	Hole punch unit firmware	
Hole Punch Unit (MJ-6008)		
Hole Punch Unit (MJ-6103)		
Fax Unit (GD-1250)	FAX firmware	

* The harness jig for board connection (HRNS-CNV-DL-JIG) is necessary.

A. Master data / System ROM / Engine ROM / Scanner ROM / RADF ROM

USB media

B. System ROM

PWA-DWNLD-350-JIG1

C. Scanner ROM

K-PWA-DLM-320

Fig.11-1

D. RADF ROM

K-PWA-DLM-320

F. Engine ROM

PWA-DWNLD-350-JIG1

E. FAX ROM (GD-1250)

K-PWA-DLM-320
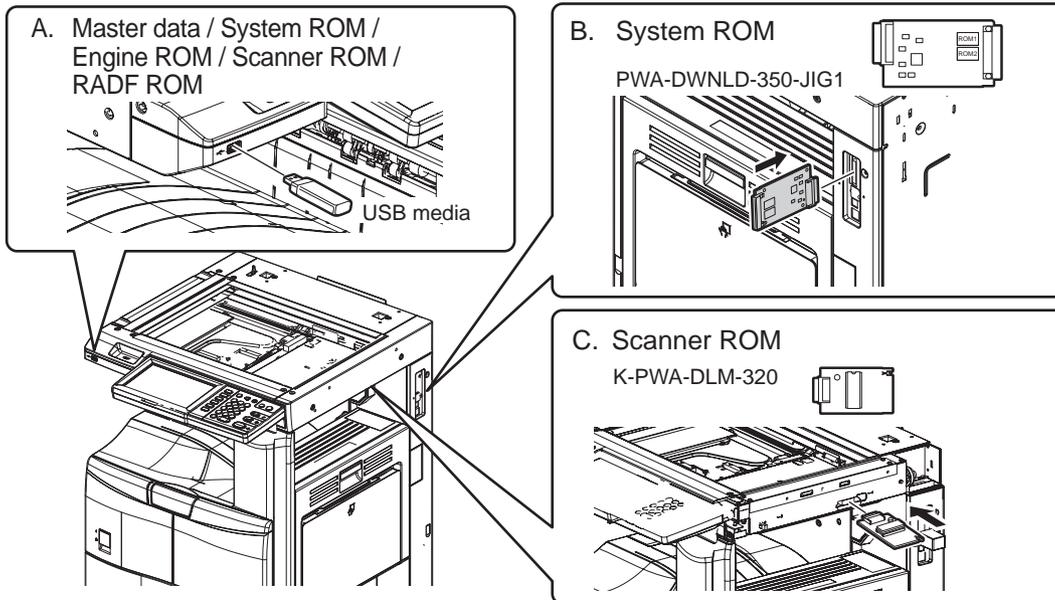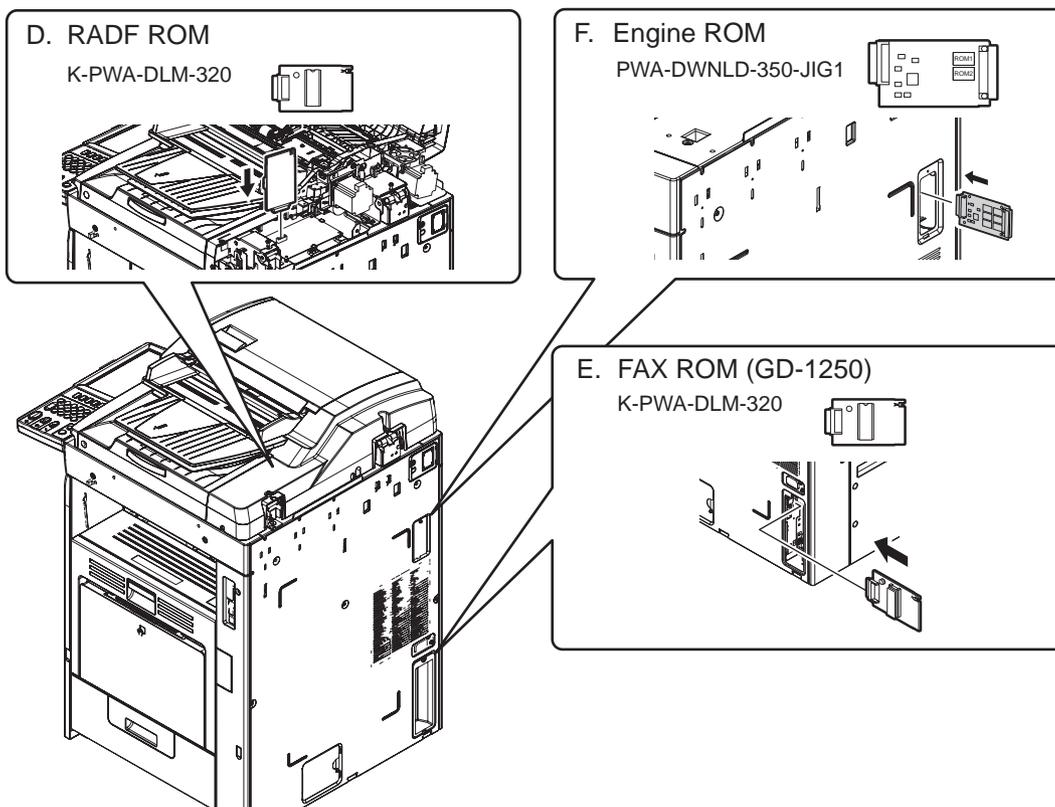
Fig.11-2

A	Master data, System ROM, Engine ROM, Scanner ROM	P. 11-15
B	System ROM	P. 11-39
C	Scanner ROM	P. 11-46
D	RADF ROM	P. 11-48
E	FAX ROM (GD-1250)	P. 11-74
F	Engine ROM	P. 11-42

G. Finisher ROM

K-PWA-DLM-320
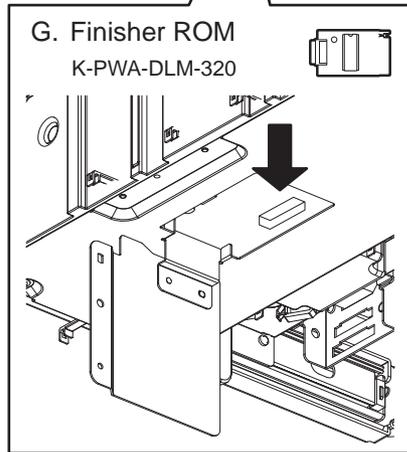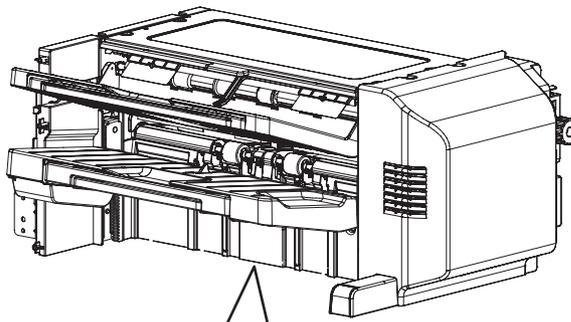
Fig.11-3

G	Finisher ROM (MJ-1032)	P. 11-50
-	Converter ROM (MJ-1032)	P. 11-61

H. Converter ROM
I. Finisher ROM
J. Punch ROM

K-PWA-DLM-320
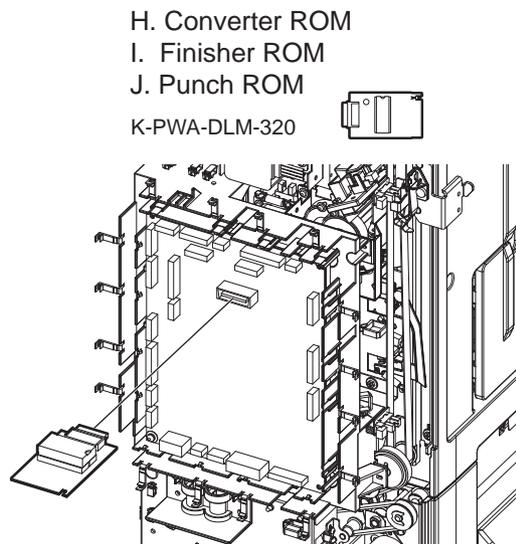
Fig.11-4

H	Converter ROM (MJ-1033)	P. 11-63
I	Finisher ROM (MJ-1033)	P. 11-52
J	Punch ROM (MJ-6008)	P. 11-56

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
FIRMWARE UPDATING
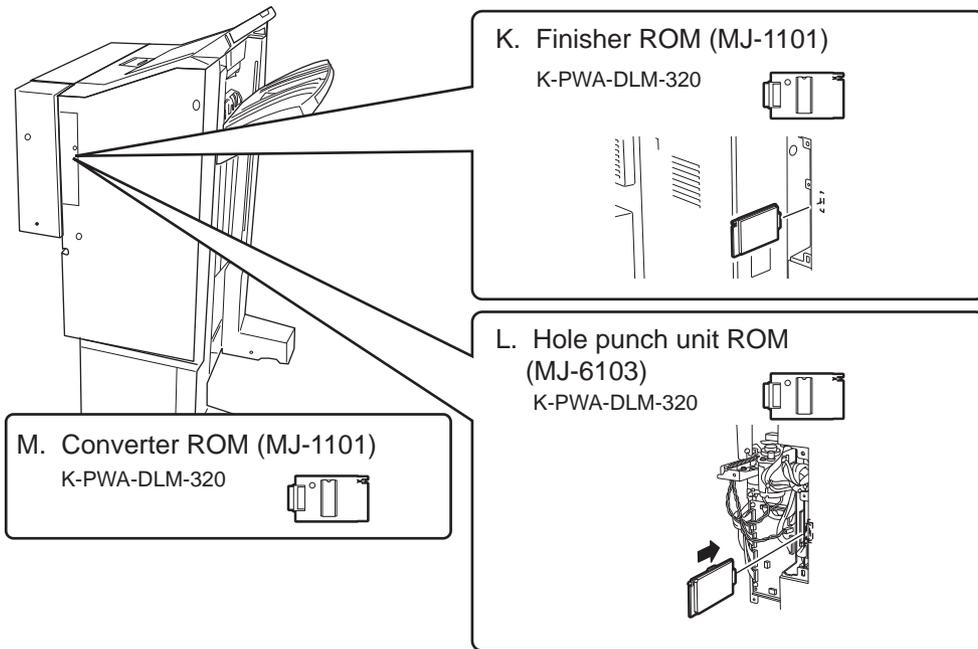
Fig.11-5

K	Finisher ROM (MJ-1101)	P. 11-53
L	Hole punch unit ROM (MJ-6103)	P. 11-57
M	Converter ROM (MJ-1101)	P. 11-65
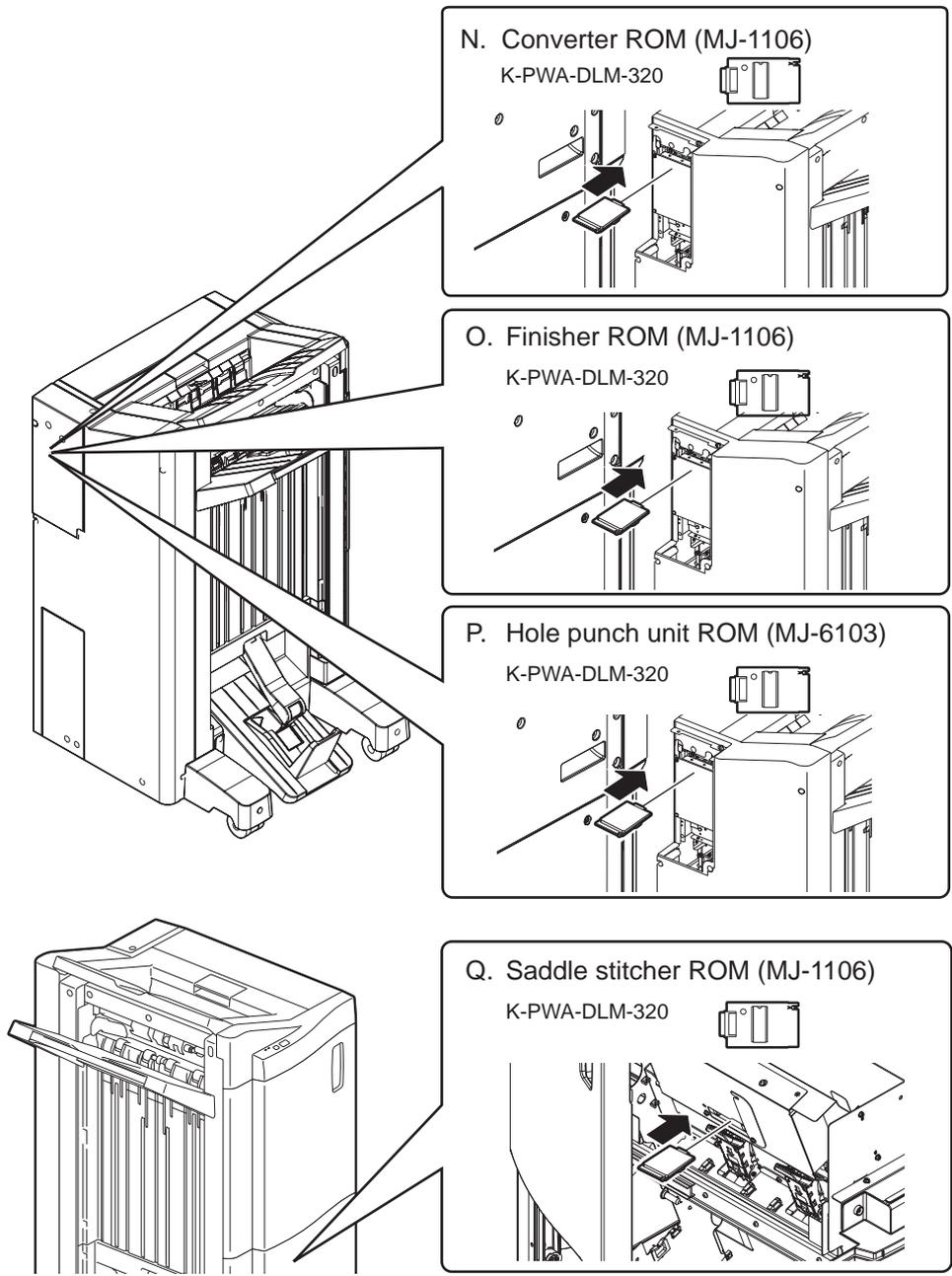
Fig.11-6

N	Finisher ROM (MJ-1106)	P. 11-55
O	Hole punch unit ROM (MJ-6103)	P. 11-57
P	Converter ROM (MJ-1106)	P. 11-68
Q	Saddle stitcher firmware (MJ-1106)	P. 11-72

Notes:

- Written firmware varies depending on the kinds of the boards provided as service parts. For updating, only the minimum firmware is installed on the system control PC board, logic PC board, and scanning section control PC board. No firmware is installed on the FAX board. The latest version of the firmware at the time of delivery is written on the RADF control PC board, finisher control PC board and saddle stitcher control PC board.
  When any of above boards is replaced with a new one in the field, check the other firmware version used and then update with a corresponding suitable version.
- The firmware (master data) is not installed on the hard disk provided as a service part. When the hard disk is replaced with a new one, check the other firmware version used and then write a corresponding suitable version.
- "Can't fetch Ver." is displayed in the Installed Version field when the version of the installed ROM cannot be acquired properly. If a normal power on is not performed after the firmware is updated and the [ON/OFF] button is pressed while simultaneously holding down the [4] and [9] buttons, "Can't fetch Ver." may be displayed on the control panel for some ROMS. A normal power on must be performed.

11.1.2　e-STUDIO207L/257/307/357/457/507

Equipment

Firmware	Updating method
Master data (HDD program data)	USB media
System ROM (OS data)	USB media
	Download jig (PWA-DWNLD-350-JIG1)
Engine ROM (Engine firmware)	USB media
Scanner ROM Scanner firmware)	USB media
	Download jig (PWA-DWNLD-350-JIG1)

Options

Model name	Firmware	Updating method
Reversing Automatic Document Feeder (RADF) (MR-3028)	RADF firmware	USB media
Finisher (MJ-1032)	Finisher firmware	Download jig (K-PWA-DLM-320)
	Converter firmware*	
Finisher (MJ-1033)	Finisher firmware	
	Converter firmware*	
Finisher (MJ-1107)	Finisher firmware	USB media
Finisher (MJ-1108)	Finisher firmware	
	Saddle stitcher firmware	
Hole Punch Unit (MJ-6007)	Hole punch unit firmware	Download jig (K-PWA-DLM-320)
Hole Punch Unit (MJ-6008)		
Hole Punch Unit (MJ-6104)		USB media
Fax Unit (GD-1350)	FAX firmware	Download jig (K-PWA-DLM-320F)

*　The harness jig for board connection (HRNS-CNV-DL-JIG) is necessary.

11

A. Master data / System ROM /
Engine ROM / Scanner ROM /
RADF ROM /
Finisher ROM (MJ-1107/1108)

USB media

B. System ROM
PWA-DWNLD-350-JIG1

ROM1
ROM2

Fig.11-7

F. Engine ROM
PWA-DWNLD-350-JIG1

ROM1
ROM2

E. FAX ROM (GD-1350)
K-PWA-DLM-320F
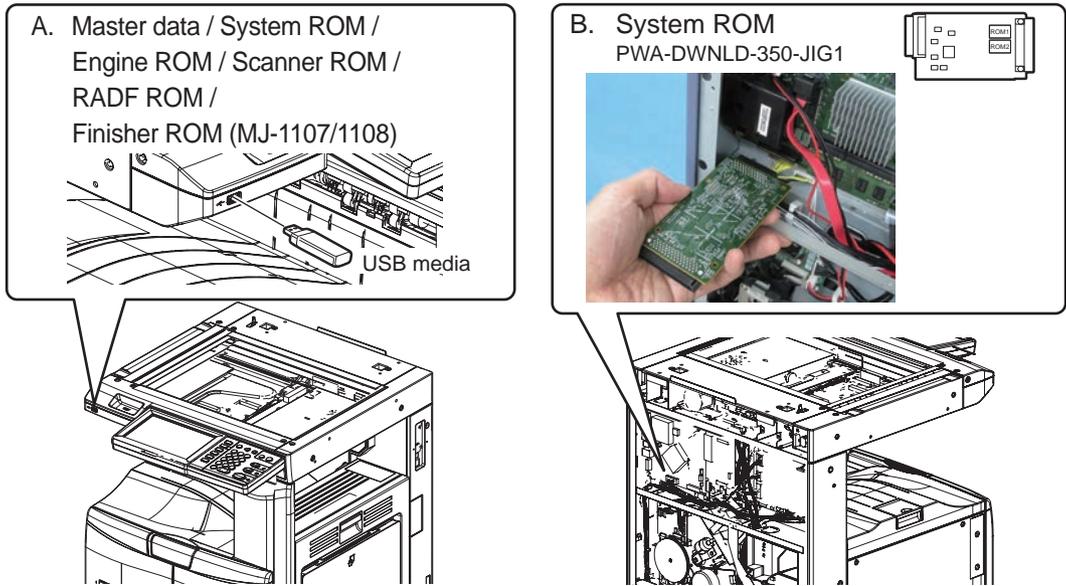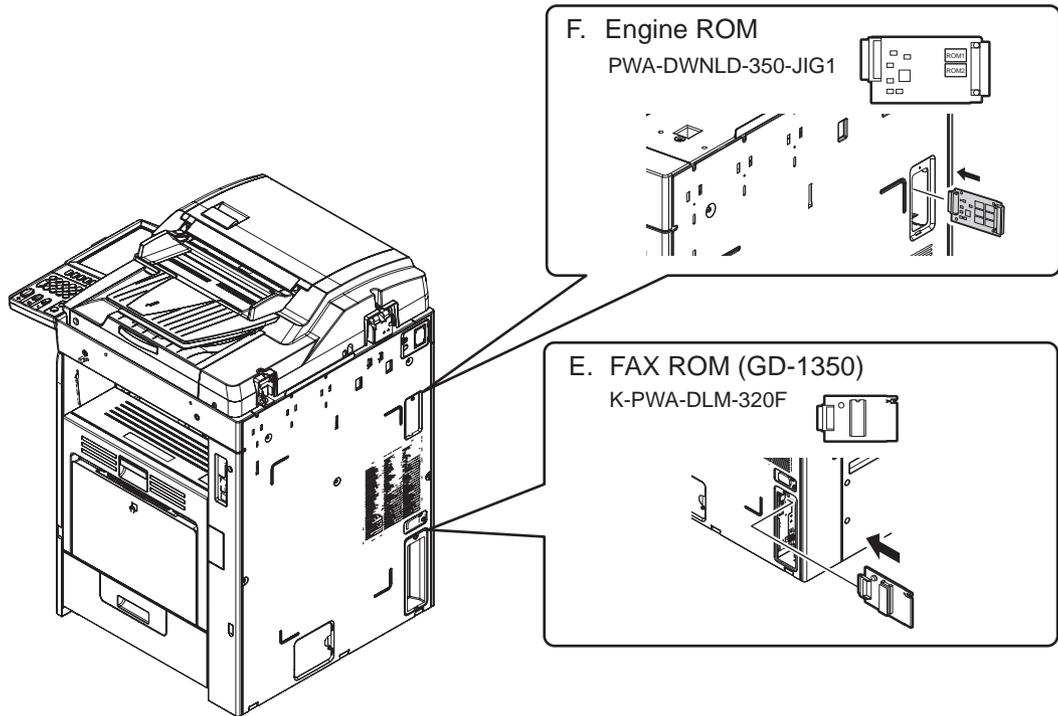
Fig.11-8

A	Master data, System ROM, Engine ROM, Scanner ROM, Finisher ROM (MJ-1107/1108)	P. 11-15
B	System ROM	P. 11-39
E	FAX ROM (GD-1350)	P. 11-78
F	Engine ROM	P. 11-42

G. Finisher ROM
K-PWA-DLM-320
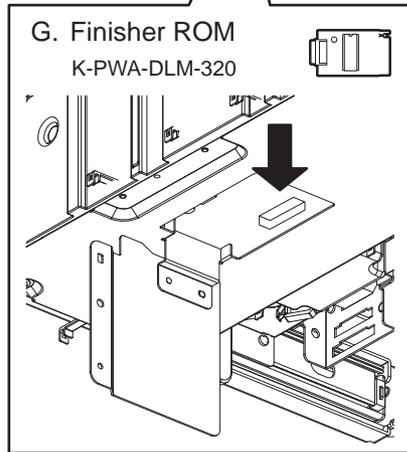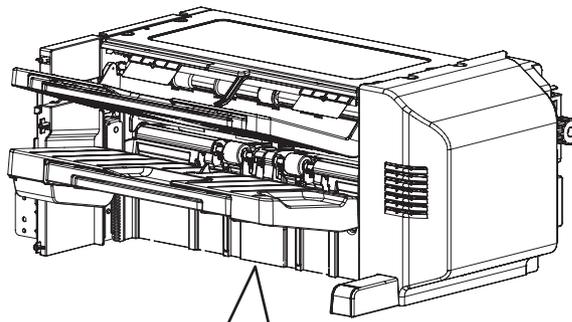
Fig.11-9

G	Finisher ROM (MJ-1032)	P. 11-50
-	Converter ROM (MJ-1032)	P. 11-61

H. Converter ROM
I. Finisher ROM
J. Punch ROM

K-PWA-DLM-320
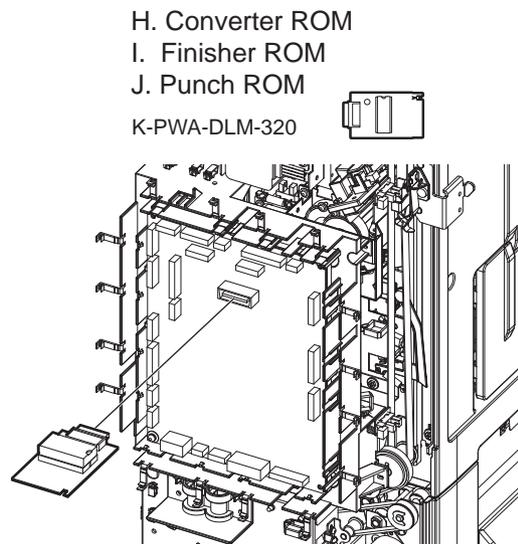
Fig.11-10

H	Converter ROM (MJ-1033)	P. 11-63
I	Finisher ROM (MJ-1033)	P. 11-52
J	Punch ROM (MJ-6008)	P. 11-56

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
FIRMWARE UPDATING

11

Notes:
- Written firmware varies depending on the kinds of the boards provided as service parts. For updating, only the minimum firmware is installed on the system control PC board, logic PC board, and scanning section control PC board. No firmware is installed on the FAX board. The latest version of the firmware at the time of delivery is written on the RADF control PC board, finisher control PC board and saddle stitcher control PC board.
When any of above boards is replaced with a new one in the field, check the other firmware version used and then update with a corresponding suitable version.
- The firmware (master data) is not installed on the hard disk provided as a service part. When the hard disk is replaced with a new one, check the other firmware version used and then write a corresponding suitable version.
- "Can't fetch Ver." is displayed in the Installed Version field when the version of the installed ROM cannot be acquired properly. If a normal power on is not performed after the firmware is updated and the [ON/OFF] button is pressed while simultaneously holding down the [4] and [9] buttons, "Can't fetch Ver." may be displayed on the control panel for some ROMS. A normal power on must be performed.

11.2 Firmware Updating with USB Media

11.2.1 e-STUDIO206L/256/306/356/456/506

To update firmware, store update programs and firmware data files in the USB media.
There are three update programs, signature.sig, pubkey.key and plt_integrity.cfg, and they are necessary for updating firmware except that of the System ROM.
For the data file for each firmware, refer to the following tables.

> **Notes:**
>   When performing the update, use the latest program.

Firmware type and data file name for updating
Equipment

Firmware	Stored	Data file name	Display
Master data (HDD program data)	Hard disk	T160HD0Wxxxx.tar * xxxx is version.	SYSTEM FIRMWARE(HD Data)
System ROM (OS data)	System control PC board (SYS board)	T160SF0Wxxxx.tar * xxxx is version.	SYSTEM FIRMWARE(OS Data)
Engine ROM (Engine firmware)	Logic PC board (LGC board)	T160MWW.xxx * e-STUDIO206L/256/ 306/356/456 * xxx is version. T165MWW.xxx * e-STUDIO506 * xxx is version.	ENGINE FIRMWARE
Scanner ROM (Scanner firmware)	Scanning section control PC board (SLG board)	T160SLGWW.xxx * xxx is version.	SCANNER FIRMWARE
RADF ROM (RADF firmware)	DLG board (MR-3021/3022)	502DFWW.xxxx * xxxx is version.	RADF FIRMWARE

Store the data file for updating in the model specific folder.

Model specific folder name	206_456

USB media
  206_456
        T160SF0Wxxxx.tar
        T160MWW.xxx
        T165MWW.xxx
        T160SLGWW.xxx
        T160HD0Wxxxx.tar
        T160SY0Wxxxx.tar
        502DFWW.xxxx
        signartures.sig
        pubkey.key
        plt_integrity.cfg

Fig.11-11

Notes:
- Since the date and time set in the equipment are recorded in the firmware update log, make sure that they are correct before updating the firmware.
- Never change the model specific folder name, since it is used for identifying the data file when the data files used for updating multiple models are stored in the USB media.

Important:
- Only the USB media which meet the following conditions should be used for updating. Be careful since updating with any device other than the above is never guaranteed.
    - A combination USB media with a flash memory (to be connected directly to the USB port) and its capacity is 1GB or more.
    - Operation of the USB media used for updating has been confirmed at the input check of this equipment (Test mode 03). (P. 5-8 "5.3 Input Check (Test Mode 03)")
    - USB media which comply with the following standards regulated by USB-IF (USB Implementers Forum)
    Class number: 8 (=08h) (Mass-storage class)
    Sub-class number: 6 (=06h) (SCSI transfer command set)
    Protocol number: 80 (=50h) (Bulk-Only)
    * Most common USB media comply with the specification above and can be used for updating. However, the operation in all the Multi Functional Digital Color Systems and Multi Functional Digital Systems is not necessarily guaranteed since the most of these devices are developed based on use in a PC environment (Windows or Macintosh). Therefore, check thoroughly that the device is operational in the equipment for which the updating will be performed when purchasing it.
- The USB media complying with USB2.0 can be used for updating.
- Do not update the firmware by any storage device other than a flash memory (such as a USB connection type memory card reader, CD/DVD drive or hard disk), since it is never guaranteed.
- It is possible to store the model specific update program and the data file for updating directly in the root directory when you store the updating data file for one specific model in the USB media. However, if the model specific folder for the same model as that of the data file stored in the root directory already exists, this will have priority.

11.2.2　e-STUDIO207L/257/307/357/457/507

To update firmware, store update programs and firmware data files in the USB media.
The update program is "signature.XX.sig", and it needs to be stored in the USB device. It is necessary for updating firmware except that of the System firmware.
For the data file for each firmware, refer to the following tables.

Notes:
　　When performing the update, use the latest program.

Firmware type and data file name for updating
Equipment

Firmware	Stored	Data file name	Display
Master data (HDD program data)	Hard disk	T330HD0Wxxxx.tar *　xxxx is version.	SYSTEM FIRMWARE(HD Data)
System ROM (OS data)	System control PC board (SYS board)	T330SF0Wxxxx.tar *　xxxx is version.	SYSTEM FIRMWARE(OS Data)
Engine ROM (Engine firmware)	Logic PC board (LGC board)	TH330MWW.xxx *　e-STUDIO207L/257/ 307/357/457 *　xxx is version. TH335MWW.xxx *　e-STUDIO507 *　xxx is version.	ENGINE FIRMWARE
Scanner ROM (Scanner firmware)	System control PC board (SYS board)	TH330SLGWW.xxx *　xxx is version.	SCANNER FIRMWARE
RADF ROM (RADF firmware)	DLG board (MR-3028)	H614DFWW.xxx *　xxxx is version.	RADF FIRMWARE
Finisher firmware (MJ-1107)	Finisher control PC board	FIN1107T.xxx *　xxxx is version.	FINISHER FIRMWARE
Finisher firmware (MJ-1108)	Finisher control PC board	FIN1108T.xxx *　xxxx is version.	FINISHER FIRMWARE
Saddle stitcher firmware (MJ-1108)	Saddle stitcher PC board	SDL1108T.xxx *　xxxx is version.	SADDLE FIRMWARE
Hole punch unit firmware (MJ-6104)	Punch control PC board	PUN6104T.xxx *　xxxx is version.	PUNCH FIRMWARE

Store the data file for updating in the model specific folder.

Model specific folder name	207_307

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```
                    ┌──────────────┐
                    │  USB media   │
                    └──────┬───────┘
                           │
                       ┌───┴─────┐
                   ────┤ 207_307 │
                       └────┬────┘
                            ├──── T330SF0Wxxxx.tar
                            ├──── TH330MWW.xxx
                            ├──── TH335MWW.xxx
                            ├──── TH330SLGWW.xxx
                            ├──── T330HD0Wxxxx.tar
                            ├──── H614DFWW.xxxx
                            ├──── FIN1107T.xxx
                            ├──── FIN1108T.xxx
                            ├──── PUN6104T.xxx
                            └──── signartures.sig
```
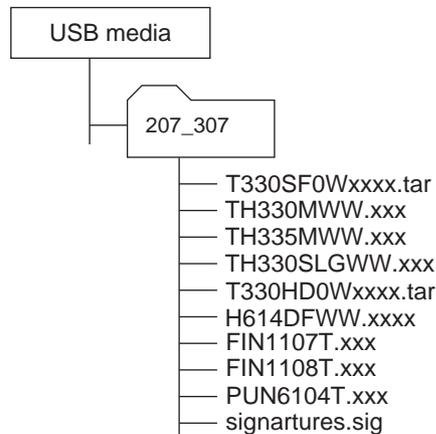
Fig.11-12

Notes:
- Since the date and time set in the equipment are recorded in the firmware update log, make sure that they are correct before updating the firmware.
- Never change the model specific folder name, since it is used for identifying the data file when the data files used for updating multiple models are stored in the USB media.

Important:
- Only the USB media which meet the following conditions should be used for updating. Be careful since updating with any device other than the above is never guaranteed.
    - A combination USB media with a flash memory (to be connected directly to the USB port) and its capacity is 1GB or more.
    - Operation of the USB media used for updating has been confirmed at the input check of this equipment (Test mode 03). (P. 5-8 "5.3 Input Check (Test Mode 03)")
    - USB media which comply with the following standards regulated by USB-IF (USB Implementers Forum)
      Class number: 8 (=08h) (Mass-storage class)
      Sub-class number: 6 (=06h) (SCSI transfer command set)
      Protocol number: 80 (=50h) (Bulk-Only)
  * Most common USB media comply with the specification above and can be used for updating. However, the operation in all the Multi Functional Digital Color Systems and Multi Functional Digital Systems is not necessarily guaranteed since the most of these devices are developed based on use in a PC environment (Windows or Macintosh). Therefore, check thoroughly that the device is operational in the equipment for which the updating will be performed when purchasing it.
- The USB media complying with USB2.0 can be used for updating.
- Do not update the firmware by any storage device other than a flash memory (such as a USB connection type memory card reader, CD/DVD drive or hard disk), since it is never guaranteed.
- It is possible to store the model specific update program and the data file for updating directly in the root directory when you store the updating data file for one specific model in the USB media. However, if the model specific folder for the same model as that of the data file stored in the root directory already exists, this will have priority.

11.2.3 Update procedure

Important:
- The file system of USB media should be formatted in the FAT or FAT32 format. Be careful since the devices formatted in NTFS or other format will not be able to be operated. The file system can be confirmed on the device properties in applications such as Explorer of Windows.
- Never shut down the equipment during the update. Firmware data and the following option data (if installed) could be damaged and may not be able to be operated properly.
    - Data Overwrite Enabler (GP-1070)
    - Meta Scan Enabler (GS-1010)
    - External Interface Enabler (GS-1020)
    - IPSec Enabler (GP-1080)
    - Unicode Font Enabler (GS-1007)

Important:
The firmware to be overwritten by this update are as follows.

	e-STUDIO206L/256/306/356/456/506	e-STUDIO207L/257/307/357/457/507
Master data (HD Data)	Yes	Yes
System Firmware (OS data)	Yes	Yes
Engine firmware	Yes	Yes
Scanner firmware	Yes	Yes
RADF firmware	Yes	Yes
Finisher firmware	-	Yes *1
Saddle stitcher firmware	-	Yes *2
Hole punch unit firmware	-	Yes *3

*1: MJ-1107/1108   *2: MJ-1108   *3: MJ-6104

[A] Update procedure

(1) Connect the USB media to the PC and write the model specific folder in which the data file is stored.
Store the data file for updating in the model specific folder.

(2) Press the [ON/OFF] button on the control panel to shut down the equipment.

(3) Connect the USB media [1] to the USB port [2] on the right upper cover.

Fig.11-13

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(4) Press the [ON/OFF] button while simultaneously holding down the [4] and [9] buttons.
Data in the USB media are checked and the checking status is displayed on the screen.

(5) When the authentication screen appears, enter the password. (If the Enter Password is blank, it is unnecessary to enter anything.)

Enter Password

!	"	#	$	%	&	'	(	)	=	~	|	`	{	}
*	<	>	?	_	.	^	@	+	[	]	;	:	/	1
Q	W	E	R	T	Y	U	I	O	P	2	3
A	S	D	F	G	H	J	K	L	4	5	6
Z	X	C	V	B	N	M	,	.	7	8	9

Caps   Space   Backspace

Ok   Reset
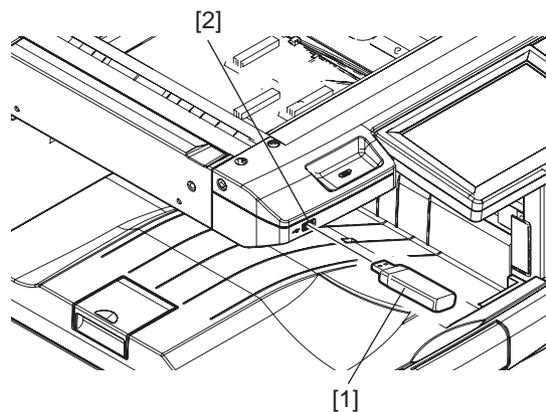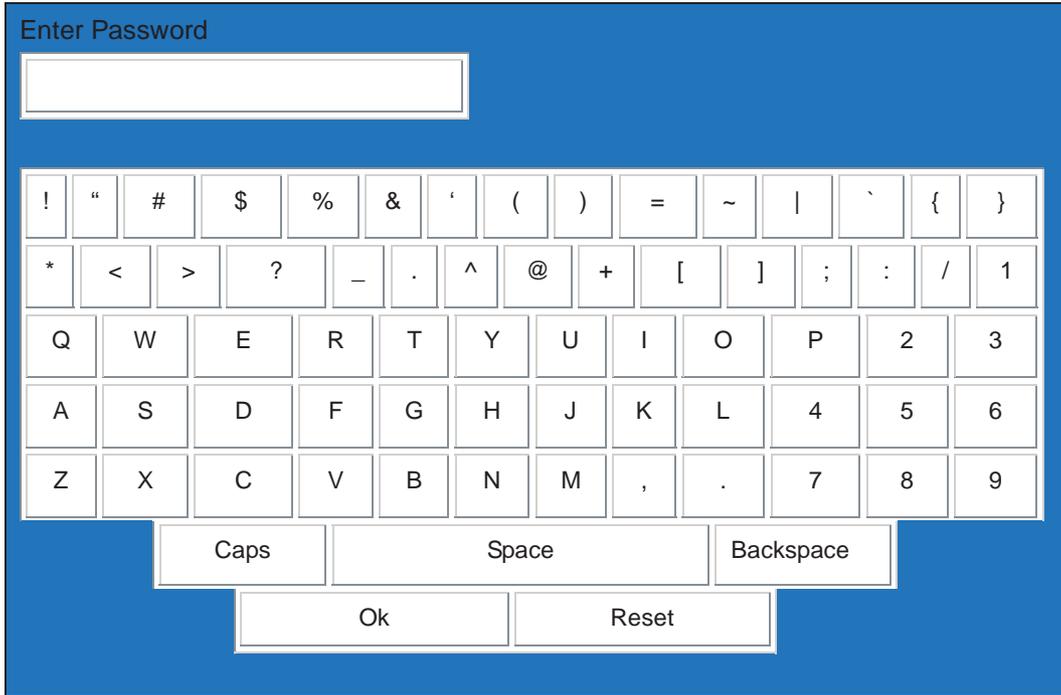
Fig.11-14

The screen for selecting items to be updated is displayed after approx. 3 minutes.
On this screen, the current firmware version of this equipment and the firmware version of data to be updated are displayed.

```
Firmware Update Mode                System Firmware Version : x.x.x.x
                                    Update Mode            : USB Update

Update Status                       Updater Version      Installed Version

   1. SYSTEM FIRMWARE(OS Data)      xxxxxxxxxxxx         xxxxxxxxxxxx
   2. ENGINE FIRMWARE               xxxxxxx.xxx          xxxxxxx.xxx
   3. SCANNER FIRMWARE              xxxxxxxxxxxx         xxxxxxxxxxxx
   4. SYSTEM SOFTWARE(HD Data)      xxxxxxxxxxxx         xxxxxxxxxxxx
      * FILE SYSTEM SOFTWARE        xxxxxxxxxxxx         xxxxxxxxxxxx
      * APPLICATION SOFTWARE        xxxxxxxxxxxx         xxxxxxxxxxxx
   5. RADF FIRMWARE                 xxxxxxxx.xxx         xxxxxxxx.xxx
```

Fig.11-15

Notes:
- The display of items on this screen varies depending on the types of data written on the USB media. Each item is displayed only when each data file is written on the USB media in the following conditions.

Item	Condition	
	e-STUDIO206L/256/306/356/ 456/506	**e-STUDIO207L/257/307/357/ 457/507**
1. SYSTEM FIRMWARE(OS Data)	T160SF0Wxxxx.tar is written. (xxxx is version.)	T330SF0Wxxxx.tar is written. (xxxx is version.)
2. ENGINE FIRMWARE	T160MWW.xxx or T165MWW.xxx is written. (xxx is version.)	TH330MWW.xxx or TH335MWW.xxx is written. (xxx is version.)
3. SCANNER FIRMWARE	T160SLGWW.xxx is written. (xxx is version.)	TH330SLGWW.xxx is written. (xxx is version.)
4. SYSTEM SOFTWARE (HD Data)	T160HD0Wxxxx.tar and T160SY0Wxxxx.tar are written. (xxxx is version.)	T330HD0Wxxxx.tar is written. (xxxx is version.)
5. RADF FIRMWARE	502DFWW.xxxx is written. (xxxx is version.)	H614DFWW.xxx is written. (xxxx is version.)
6. FINISHER FIRMWARE	-	FIN1107T.xxx is written. (When MJ-1107 is connected.) FIN1108T.xxx is written. (When MJ-1108 is connected.) (xxxx is version.)
7. SADDLE FIRMWARE	-	SDL1108T.xxx is written. (When MJ-1108 is connected.) (xxxx is version.)
8. PUNCH FIRMWARE	-	PUN6104T.xxx is written. (When MJ-6104 is connected.) (xxxx is version.)

- If the USB media are not recognized properly, "USB device Not detected" message is displayed. In this case, disconnect the USB media and connect again within 3 minutes, or shut down the equipment and connect the device properly. Then repeat the procedure from (4).
- If any of the error messages below is displayed, confirm if the data file in the USB media is correct. Then repeat the procedure from (4).

Error number	Error message	Cause
01	Error Loadmodule	Module loading failed.
02	Machine Model Get Error	Model information was not downloaded.
03	Copy Data with valid signature in USB Storage	Checking of data file failed.
04	Other models ROMDATA TXXXXXXXX * The version name comes at "xxxx.xxx.x".	Master data of other model are stored.
05	Copy Signature File in USB Storage	Data files are not stored in the USB media.
06	Patch and Normal package in one folder of USB Storage	When both the system and patch update packages are in the USB media

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(6) Select the item with the digital keys.
"*" is displayed next to the selected item. Display or delete the "*" by pressing the number of the item.

Item	Remarks
1. SYSTEM FIRMWARE(OS Data)	Updating OS data
2. ENGINE FIRMWARE	Updating Engine ROM
3. SCANNER FIRMWARE	Updating Scanner ROM
4. SYSTEM SOFTWARE (HD Data)	Updating Master data and application
5. RADF FIRMWARE	Updating RADF ROM
6. FINISHER FIRMWARE	Updating Finisher ROM
7. SADDLE FIRMWARE	Updating Saddlestitcher ROM
8. PUNCH FIRMWARE	Updating Puncher ROM

(7) Press the [START] button.
Updating starts and the processing status is displayed on the LCD screen.

Status display during update	Status display when update is completed
SYSTEM FIRMWARE(OS Data) update in progress	SYSTEM FIRMWARE(OS Data)　　Completed
ENGINE FIRMWARE 　　update in progress	ENGINE FIRMWARE 　Completed
SCANNER FIRMWARE 　update in progress	CANNER FIRMWARE 　Completed
SYSTEM SOFTWARE (HD Data) update in progress	SYSTEM SOFTWARE (HD Data) 　　Completed
RADF FIRMWARE 　update in progress	RADF FIRMWARE 　Completed
FINISHER FIRMWARE update in progress	FINISHERFIRMWARE 　Completed
SADDLE FIRMWARE update in progress	SADDLEFIRMWARE 　Completed
PUNCH FIRMWARE update in progress	PUNCHFIRMWARE 　Completed

(8) "Update successfully completed Restart the MFP" is displayed at the bottom of the LCD screen after the updating is completed properly.

```
Firmware Update Mode                    System Firmware Version : x.x.x.x
                                        Update Mode             : USB Update

Update Status

  *1.  SYSTEM FIRMWARE(OS Data)              Completed
  *2.  ENGINE FIRMWARE                       Completed
  *3.  SCANNER FIRMWARE                      Completed
  *4.  SYSTEM SOFTWARE(HD Data)              Completed
        * FILE SYSTEM SOFTWARE              Completed
        * APPLICATION SOFTWARE             Completed
  *5.  RADF FIRMWARE                         Completed




  ┌─────────────────────────────┐
  │ Update successfully completed│
  │ Restart the MFP             │
  └─────────────────────────────┘
```

Fig.11-16

Notes:
- "Update Failed." is displayed at the bottom of the LCD screen when the updating is not completed properly. "Failed" appears next to the failed item on the status display. Even though an update fails, do not turn the power OFF until other updates are finished. If "Update Failed" appears at the bottom of the screen, turn OFF the power and then check the following items. After confirming and clearing the problems, restart updating from the beginning.
  - Do the USB media meet the conditions to be used for updating?
  - Is the data file written properly on the USB media?
  - Are the USB media installed properly?
  - Do the USB media and equipment operate properly?
- The integrity check system is automatically operated before firmware updating. During this operation, "Verifying Signature..." and "Progress: **%" are displayed on the control panel. When the check is completed properly, no message for notifying the success will appear and the firmware updating will start. If it fails, "Invalid Signature" and "Copy Data with valid signature in USB" will be shown. In that case, firmware updating cannot be performed, so turn the power OFF and disconnect the USB device. Check the following, and reperform the update.
  - Check that the firmware data is not corrupted.
  - Check that the signature file is not corrupted.
  - Check that the combination of the firmware data and the signature file is correct.
- When an OS update error or HDD update error occurs, "Update Failed" or "Failed" appears on the screen and the error number appears next to the message.
  For details of each error, refer to the following tables.

OS update Error	
Error number	**Error content**
O01	FROM writing failed
O02	FROM verification error
O03	File operation error
O04	SRAM flag set error
O05	Electronic key data backup error
O06	Device error

HDD update Error	
Error number	**Error content**
H01	File creation error
H02	File decompression error
H03	Partition mount error
H04	Hard disk full error
H00	Other errors

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FIRMWARE UPDATING

- When an update error occurs, "Update Failed" or "Failed" appears on the screen and the error number and error message appear next to the message. For details of each error, refer to the following tables.

Engine update Error		
Error number	Error message	Error content
M01	Time out (When the download is requested)	Communication timeout (When the download is requested)
M02	Time out (When the download is written)	Communication timeout (When the download is written)
M03	Time out (When the download is finished)	Communication timeout (When the download is finished)
M04	Reception failed (When the download is requested)	Downloading request was denied. (When the download is requested)
M05	Deletion error (When the download is written)	Deletion error (When the download is written)
M06	Writing error (When the download is written)	Writing error (When the download is written)
M07	Checksum error (When the download is finished)	Checksum error (When the download is finished)
M08	Reception status code abnormality (When the download is requested)	Reception status code abnormality (When the download is requested)
M09	Reception status code abnormality (When the download is written)	Reception status code abnormality (When the download is written)
M10	Reception status code abnormality (When the download is finished)	Reception status code abnormality (When the download is finished)
M00	Other error	Other error To troubleshoot this error, refer to the following section: 📖 P. 8-316 "8.5.3 Error code "M00" is displayed while updating firmware"

Scanner update Error		
Error number	Error message	Error content
S01	Time out (When the download is requested)	Communication timeout (When the download is requested)
S02	Time out (When the download is written)	Communication timeout (When the download is written)
S03	Time out (When the download is finished)	Communication timeout (When the download is finished)
S05	Deletion error (When the download is written)	Deletion error (When the download is written)
S06	Writing error (When the download is written)	Writing error (When the download is written)
S08	Reception status code abnormality (When the download is requested)	Reception status code abnormality (When the download is requested)
S09	Reception status code abnormality (When the download is written)	Reception status code abnormality (When the download is written)
S10	Reception status code abnormality (When the download is finished)	Reception status code abnormality (When the download is finished)
S00	Other error	Other error

RADF update Error		
Error number	**Error message**	**Error content**
R01	Time out (When the download is requested)	Communication timeout (When the download is requested)
R02	Time out (When the download is written)	Communication timeout (When the download is written)
R03	Time out (When the download is finished)	Communication timeout (When the download is finished)
R05	Deletion error (When the download is written)	Deletion error (When the download is written)
R06	Writing error (When the download is written)	Writing error (When the download is written)
R08	Reception status code abnormality (When the download is requested)	Reception status code abnormality (When the download is requested)
R09	Reception status code abnormality (When the download is written)	Reception status code abnormality (When the download is written)
R10	Reception status code abnormality (When the download is finished)	Reception status code abnormality (When the download is finished)
R21	RADF Uninstallation	RADF not installed
R23	RADF Firmware model mismatch	RADF ROM for different model data connected
R00	Other error	Other error

Punch firmware update Error		
Error number	**Error message**	**Error content**
U01	Time out (When the download is requested)	Communication timeout (When the download is requested)
U02	Time out (When the download is written)	Communication timeout (When the download is written)
U03	Time out (When the download is finished)	Communication timeout (When the download is finished)
U04	Reception failed (When the download is requested)	Downloading request was denied. (When the download is requested)
U05	Deletion error (When the download is written)	Deletion error (When the download is written)
U06	Writing error (When the download is written)	Writing error (When the download is written)
U07	Checksum error (When the download is finished)	Checksum error (When the download is finished)
U08	Reception status code abnormality (When the download is requested)	Reception status code abnormality (When the download is requested)
U09	Reception status code abnormality (When the download is written)	Reception status code abnormality (When the download is written)
U10	Reception status code abnormality (When the download is finished)	Reception status code abnormality (When the download is finished)
U00	Other error	Other error

Finisher firmware update Error		
Error number	**Error message**	**Error content**
F01	Time out (When the download is requested)	Communication timeout (When the download is requested)
F02	Time out (When the download is written)	Communication timeout (When the download is written)

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FIRMWARE UPDATING

Finisher firmware update Error		
Error number	Error message	Error content
F03	Time out (When the download is finished)	Communication timeout (When the download is finished)
F04	Reception failed (When the download is requested)	Downloading request was denied. (When the download is requested)
F05	Deletion error (When the download is written)	Deletion error (When the download is written)
F06	Writing error (When the download is written)	Writing error (When the download is written)
F07	Checksum error (When the download is finished)	Checksum error (When the download is finished)
F08	Reception status code abnormality (When the download is requested)	Reception status code abnormality (When the download is requested)
F09	Reception status code abnormality (When the download is written)	Reception status code abnormality (When the download is written)
F10	Reception status code abnormality (When the download is finished)	Reception status code abnormality (When the download is finished)
F00	Other error	Other error

Saddle firmware update Error		
Error number	Error message	Error content
A01	Time out (When the download is requested)	Communication timeout (When the download is requested)
A02	Time out (When the download is written)	Communication timeout (When the download is written)
A03	Time out (When the download is finished)	Communication timeout (When the download is finished)
A04	Reception failed (When the download is requested)	Downloading request was denied. (When the download is requested)
A05	Deletion error (When the download is written)	Deletion error (When the download is written)
A06	Writing error (When the download is written)	Writing error (When the download is written)
A07	Checksum error (When the download is finished)	Checksum error (When the download is finished)
A08	Reception status code abnormality (When the download is requested)	Reception status code abnormality (When the download is requested)
A09	Reception status code abnormality (When the download is written)	Reception status code abnormality (When the download is written)
A10	Reception status code abnormality (When the download is finished)	Reception status code abnormality (When the download is finished)
A00	Other error	Other error

(9) Press the [ON/OFF] button to shut down the equipment, and then remove the USB media.

Notes:
When the equipment has been shut down normally, the LCD screen and LEDs (green and red) go OFF. When OS data have been updated and the equipment has been shut down immediately after the update, the LEDs (green and red) may not go OFF even if the LCD screen goes OFF. This indicates that the equipment is not shut down normally. Press the [ON/OFF] button on the control panel for more than 5 seconds, and then turn the main power switch OFF. Then remove the USB media.

(10) Perform the initialization of the updating data.

- Press the [ON/OFF] button while simultaneously holding down the [0] and [8] buttons.
- Key in "9030", and then press the [START] button.
- Press the [INITIALIZE] button.

[B] Confirmation of the updated data

After the updating is completed, check each data version in the Setting Mode (08) to confirm that the data were overwritten properly.

📖 P. 11-81 "11.7 Confirmation of the updated data"

[C] Display during the update

Update is performed in parallel as shown in the transition diagram below.
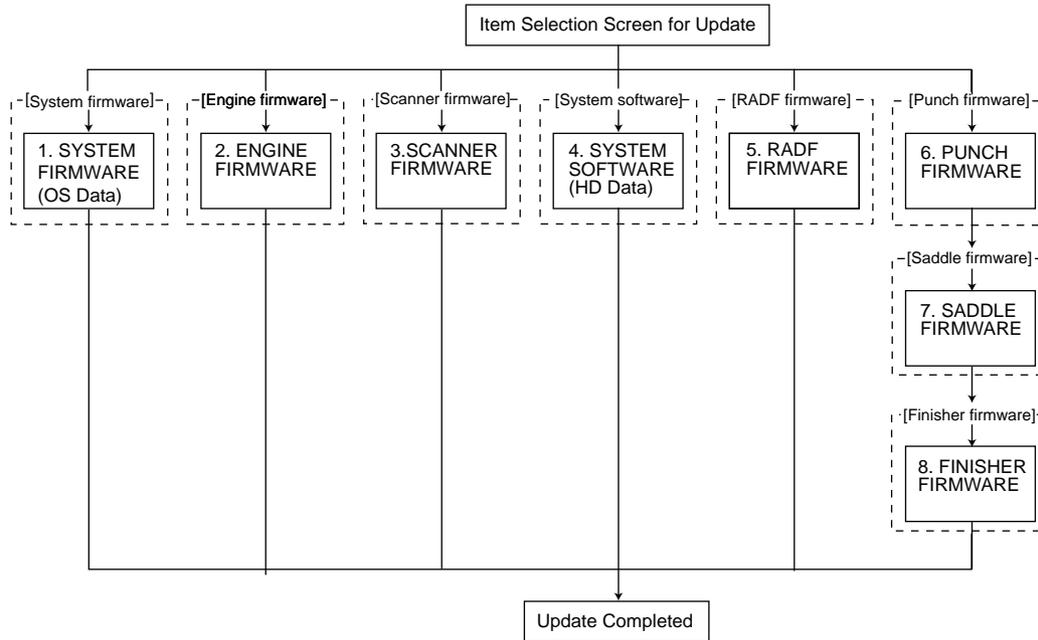
Below is an example of the changes of the LCD screen during update.
During the update, "Update in progress" is displayed on the right of each item. After it is completed, "Completed" is displayed there. Example screens of the system firmware update are as follows, and these are the same for other firmware.

```
Firmware Update Mode                    System Firmware Version : x.x.x.x
                                        Update Mode             : USB Update

Update Status

 *1. SYSTEM FIRMWARE(OS Data)            ┌─────────────────────┐
  2. ENGINE FIRMWARE                     │ Update in progress  │
  3. SCANNER FIRMWARE                    └─────────────────────┘
  4. SYSTEM SOFTWARE(HD Data)
       * FILE SYSTEM SOFTWARE
       * APPLICATION SOFTWARE
  5. RADF FIRMWARE




OS Update Status
     Updating FROM...(xx%)
```

⬇

```
Firmware Update Mode                    System Firmware Version : x.x.x.x
                                        Update Mode             : USB Update

Update Status

 *1. SYSTEM FIRMWARE(OS Data)            ┌───────────┐
  2. ENGINE FIRMWARE                     │ Completed │
  3. SCANNER FIRMWARE                    └───────────┘
  4. SYSTEM SOFTWARE(HD Data)
       * FILE SYSTEM SOFTWARE
       * APPLICATION SOFTWARE
  5. RADF FIRMWARE




Update successfully completed
Restart the MFP
```

Fig.11-17

11.3 Patch Updating with USB Media

Master data and system ROM can be updated in a shorter time than normal update using the data file for the patch update.

Notes:
When performing the update, use the latest program.

11.3.1 e-STUDIO206L/256/306/356/456/506

Firmware type and data file name for patch updating
Equipment

Firmware	Stored	Data file name	Display
Master data (HDD program data)	Hard disk	T160HDPWxxxx.tar * xxxx is version.	SYSTEM FIRMWARE(HD Data)
System ROM (OS data)	System control PC board (SYS board)	T160SFPWxxxx.tar * xxxx is version.	SYSTEM FIRMWARE(OS data)

Store the data file for patch updating in the model specific folder.

Model specific folder name	206_456

USB media
└ 206_456
  ├ T160SFPWxxxx.tar
  ├ T160HDPWxxxx.tar
  ├ signartures.sig
  ├ pubkey.key
  └ plt_integrity.cfg

Fig.11-181

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Notes:
- Since the date and time set in the equipment are recorded in the firmware update log, make sure that they are correct before updating the firmware.
- Never change the model specific folder name, since it is used for identifying the data file when the data files used for updating multiple models are stored in the USB media.

Important:
- Only the USB media which meet the following conditions should be used for updating. Be careful since updating with any device other than the above is never guaranteed.
    - A combination USB media with a flash memory (to be connected directly to the USB port) and its capacity is 1GB or more.
    - Operation of the USB media used for updating has been confirmed at the input check of this equipment (Test mode 03). (📖 P. 5-8 "5.3 Input Check (Test Mode 03)")
    - USB media which comply with the following standards regulated by USB-IF (USB Implementers Forum)
    Class number: 8 (=08h) (Mass-storage class)
    Sub-class number: 6 (=06h) (SCSI transfer command set)
    Protocol number: 80 (=50h) (Bulk-Only)
    * Most common USB media comply with the specification above and can be used for updating. However, the operation in all the Multi Functional Digital Color Systems and Multi Functional Digital Systems is not necessarily guaranteed since the most of these devices are developed based on use in a PC environment (Windows or Macintosh). Therefore, check thoroughly that the device is operational in the equipment for which the updating will be performed when purchasing it.
- The USB media complying with USB2.0 can be used for updating.
- Do not update the firmware by any storage device other than a flash memory (such as a USB connection type memory card reader, CD/DVD drive or hard disk), since it is never guaranteed.
- It is possible to store the model specific update program and the data file for updating directly in the root directory when you store the updating data file for one specific model in the USB media. However, if the model specific folder for the same model as that of the data file stored in the root directory already exists, this will have priority.

11.3.2　e-STUDIO207L/257/307/357/457/507

Firmware type and data file name for patch updating
Equipment

Firmware	Stored	Data file name	Display
Master data (HDD program data)	Hard disk	T330HDPWxxxx.tar *　xxxx is version.	SYSTEM FIRMWARE (HD Data)
System ROM (OS data)	System control PC board (SYS board)	T330SFPWxxxx.tar *　xxxx is version.	SYSTEM FIRMWARE (OS data)

Store the data file for patch updating in the model specific folder.

Model specific folder name	207_307

```
USB media
    │
    └── 207_307
            ├── T330SFPWxxxx.tar
            ├── T330HDPWxxxx.tar
            └── signartures.sig
```
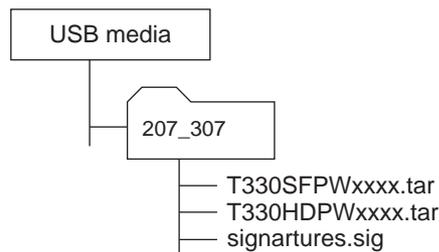
Fig.11-191

Notes:
- Since the date and time set in the equipment are recorded in the firmware update log, make sure that they are correct before updating the firmware.
- Never change the model specific folder name, since it is used for identifying the data file when the data files used for updating multiple models are stored in the USB media.

Important:
- Only the USB media which meet the following conditions should be used for updating. Be careful since updating with any device other than the above is never guaranteed.
    - A combination USB media with a flash memory (to be connected directly to the USB port) and its capacity is 1GB or more.
    - Operation of the USB media used for updating has been confirmed at the input check of this equipment (Test mode 03). (📕 P. 5-8 "5.3 Input Check (Test Mode 03)")
    - USB media which comply with the following standards regulated by USB-IF (USB Implementers Forum)
    Class number:　　　8 (=08h) (Mass-storage class)
    Sub-class number:　6 (=06h) (SCSI transfer command set)
    Protocol number:　　80 (=50h) (Bulk-Only)
    - *　Most common USB media comply with the specification above and can be used for updating. However, the operation in all the Multi Functional Digital Color Systems and Multi Functional Digital Systems is not necessarily guaranteed since the most of these devices are developed based on use in a PC environment (Windows or Macintosh). Therefore, check thoroughly that the device is operational in the equipment for which the updating will be performed when purchasing it.
- The USB media complying with USB2.0 can be used for updating.
- Do not update the firmware by any storage device other than a flash memory (such as a USB connection type memory card reader, CD/DVD drive or hard disk), since it is never guaranteed.
- It is possible to store the model specific update program and the data file for updating directly in the root directory when you store the updating data file for one specific model in the USB media. However, if the model specific folder for the same model as that of the data file stored in the root directory already exists, this will have priority.

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11.3.3　Master data/System ROM

Important:

- The file system of USB media should be formatted in the FAT or FAT32 format. Be careful since the devices formatted in NTFS or other format will not be able to be operated. The file system can be confirmed on the device properties in applications such as Explorer of Windows.
- Never shut down the equipment during the update. Firmware data and the following option data (if installed) could be damaged and may not be able to be operated properly.
    - Data Overwrite Enabler (GP-1070)
    - Meta Scan Enabler (GS-1010)
    - External Interface Enabler (GS-1020)
    - IPSec Enabler (GP-1080)
    - Unicode Font Enabler (GS-1007)

[A]　Update procedure

(1)　Connect the USB media to the PC and write the model specific folder in which the data file is stored.
Store the data file for updating in the model specific folder.

(2)　Press the [ON/OFF] button on the control panel to shut down the equipment.

(3)　Connect the USB media [1] to the USB port [2] on the right upper cover.
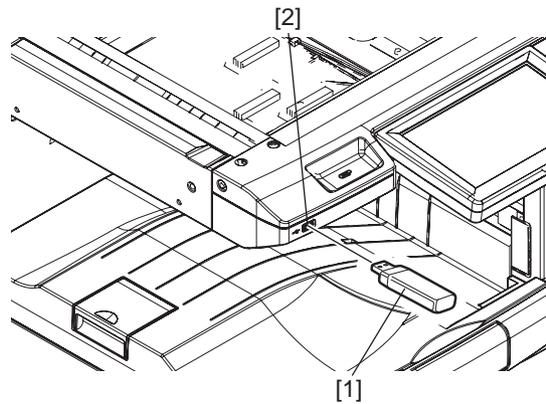
Fig.11-20

(4)　Press the [ON/OFF] button while simultaneously holding down the [4] and [9] buttons.
Data in the USB media are checked and the checking status is displayed on the screen.

(5) When the authentication screen appears, enter the password. (If the Enter Password is blank, it is unnecessary to enter anything.)

```
Enter Password

┌─────────────────────────────────────┐
│                                      │
└─────────────────────────────────────┘

  !   "   #   $   %   &   '   (   )   =   ~   |   `   {   }

  *   <   >   ?   _   .   ^   @   +   [   ]   ;   :   /   1

  Q   W   E   R   T   Y   U   I   O   P   2   3

  A   S   D   F   G   H   J   K   L   4   5   6

  Z   X   C   V   B   N   M   ,   .   7   8   9

         Caps           Space          Backspace

              Ok                Reset
```

Fig.11-21

The screen for selecting items to be updated is displayed after approx. 3 minutes.
On this screen, the current firmware version of this equipment and the firmware version of data to be updated are displayed.

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```
Firmware Update Mode                System Firmware Version : x.x.x.x
                                    Update Mode             : USB Update

Update Status                       Updater Version      Installed Version

  1.  SYSTEM FIRMWARE(OS Data)      T160SFPWxxxx.tar       T160SFPWxxxx.tar
  2.  SYSTEM SOFTWARE(HD Data)      T160HDPWxxxx.tar       T160HDPWxxxx.tar
```

Fig.11-22

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
                                                                          FIRMWARE UPDATING

Notes:
- The display of items on this screen varies depending on the types of data written on the USB media. Each item is displayed only when each data file is written on the USB media in the following conditions.

Item	Condition	
	e-STUDIO206L/256/306/356/456/506	e-STUDIO207L/257/307/357/457/507
1. SYSTEM FIRMWARE(OS Data)	T160SFPWxxxx.tar is written. (xxxx is version.)	T330SFPWxxxx.tar is written. (xxxx is version.)
2. SYSTEM SOFTWARE (HD Data)	T160HDPWxxxx.tar is written. (xxxx is version.)	T330HDPWxxxx.tar is written. (xxxx is version.)

- If the USB media are not recognized properly, "USB device Not detected" message is displayed. In this case, disconnect the USB media and connect again within 3 minutes, or shut down the equipment and connect the device properly. Then repeat the procedure from (4).
- If any of the error messages below is displayed, confirm if the data file in the USB media is correct. Then repeat the procedure from (4).

Error number	Error message	Cause
01	Error Loadmodule	Module loading failed.
02	Machine Model Get Error	Model information was not downloaded.
03	Copy Data with valid signature in USB Storage	Checking of data file failed.
04	Other models ROMDATA TXXXXXXXX * The version name comes at "xxxx.xxx.x".	Master data of other model are stored.
05	Copy Signature File in USB Storage	Data files are not stored in the USB media.
06	Patch and Normal package in one folder of USB Storage	When both the system and patch update packages are in the USB media

(6)   Select the item with the digital keys.
"*" is displayed next to the selected item. Display or delete the "*" by pressing the number of the item.

Item	Remarks
1. SYSTEM FIRMWARE(OS Data)	Updating OS Data
2. SYSTEM SOFTWARE (HD Data)	Updating Master data

(7) Press the [START] button.
Updating starts and the processing status is displayed on the LCD screen.
The follow screen shows the display when selecting "1. SYSTEM FIRMWARE (OS Data)" in the
update selection menu. "Update in progress" is displayed on the right side of the selected item,
and then "Verifying Signature..." appears.

```
Firmware Update Mode              System Firmware Version : x.x.x.x
                                  Update Mode             : USB Update

Update Status

 *1. SYSTEM FIRMWARE(OS Data)      ┌──────────────────┐
  2. SYSTEM SOFTWARE(HD Data)      │ Update in progress │
                                   └──────────────────┘




Progress : xx%
```

```
Firmware Update Mode              System Firmware Version : x.x.x.x
                                  Update Mode             : USB Update

Update Status

 *1. SYSTEM FIRMWARE(OS Data)      ┌──────────────────┐
  2. SYSTEM SOFTWARE(HD Data)      │ Verfying Signature... │
                                   └──────────────────┘




Progress : xx%
```

Fig.11-23

11

e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
FIRMWARE UPDATING

(8) "Patch Update Successful Restart the MFP" is displayed at the bottom of the LCD screen after the updating is completed properly.

```
┌──────────────────────────────────────────────────────────────────┐
│                                                                    │
│  Firmware Update Mode              System Firmware Version: x.x.x.x │
│                                    Update Mode         : USB Update │
│                                                                    │
│  Update Status                                                     │
│                                                                    │
│  *1. SYSTEM FIRMWARE(OS Data)          Completed                   │
│   2. SYSTEM SOFTWARE(HD Data)                                      │
│                                                                    │
│                                                                    │
│                                                                    │
│                                                                    │
│                                                                    │
│   ┌────────────────────────┐                                      │
│   │ Patch Update Successful │                                      │
│   │ Restart the MFP         │                                      │
│   └────────────────────────┘                                      │
│                                                                    │
└──────────────────────────────────────────────────────────────────┘
```

Fig.11-24

Notes:
- "Update Failed." is displayed at the bottom of the LCD screen when the updating is not completed properly. "Failed" appears next to the failed item on the status display. Even though an update fails, do not turn the power OFF until other updates are finished.If "Update Failed" appears at the bottom of the screen, turn OFF the power and then check the following items. After confirming and clearing the problems, restart updating from the beginning.
  - Do the USB media meet the conditions to be used for updating?
  - Is the data file written properly on the USB media?
  - Are the USB media installed properly?
  - Do the USB media and equipment operate properly?
- When an OS update error or HDD update error occurs, "Update Failed" or "Failed" appears on the screen and the error number appears next to the message.
  For details of each error, refer to the following tables.

OS update Error	
Error number	**Error content**
O01	FROM writing failed
O02	FROM verification error
O03	File operation error
O04	SRAM flag set error
O05	Electronic key data backup error
O06	Device error

HDD update Error	
Error number	**Error content**
H01	File creation error
H02	File decompression error
H03	Partition mount error
H04	Hard disk full error
H00	Other errors

(9) Press the [ON/OFF] button to shut down the equipment, and then remove the USB media.

[B] Confirmation of the updated data

After the updating is completed, check each data version in the Setting Mode (08) to confirm that the data were overwritten properly.

📖 P. 11-81 "11.7 Confirmation of the updated data"

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e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
FIRMWARE UPDATING

11.4 Firmware Updating with PWA-DWNLD-350-JIG1

The data to be overwritten by this update are as follows.
Update the ROM data written on each board according to the need such as the case of replacing the system control PC board, logic PC board or scanning section control PC board.

Equipment

Firmware	Stored	e-STUDIO206L/256/306/356/456/506	e-STUDIO207L/257/307/357/457/507
System ROM (OS data)	System control PC board (SYS board)	Yes	Yes
Engine ROM (Main firmware)	Logic PC board (LGC board)	Yes	Yes

PWA-DWNLD-350-JIG1 (16MB)
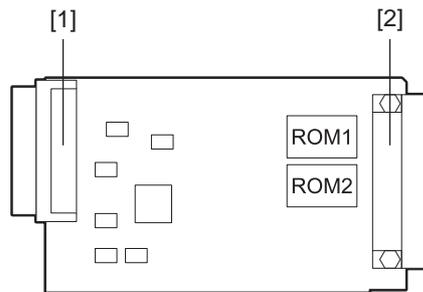
Fig.11-25 Jig board: PWA-DWNLD-350-JIG1 (16MB)

[1] Connector (for SYS board connection)
[2] Connector (for ROM writer adapter connection)

Important:

The download jig (PWA-DWNLD-350-JIG1) is the jig in which the Flash ROM is mounted on the board directly. Therefore, ROM writer adapter (PWA-DL-ADP-350) is required to write the data to these Flash ROMs. Refer to the following to write the data.

Remarks:

A download jig (PWA-DWNLD-350-JIG2; 48 MB) can also be used. Follow the same procedure as that for the following download jig: (PWA-DWNLD-350-JIG1).

Remarks: Useable jigs

Download jigs for this equipment are as follows:

Model	Connector	Type of jig	ROM capacity	Relay board	Type of relay board	Remarks
e-STUDIO206L/ 256/306/356/456/ 506		PWA-DWNLD-350-JIG1	16MB	Unnecessary		Discontinued model
		PWA-DWNLD-350-JIG2	48MB	Unnecessary		Discontinued model
		PWA-DWNLD-JIG1	16MB	Unnecessary		
		PWA-DWNLD-JIG2	48MB	Unnecessary		
		PWA-DWNLD-JIG1F	16MB	Necessary	PWA-DWNLD-RELAY-GLPGS	
		PWA-DWNLD-JIG2F	48MB	Necessary	PWA-DWNLD-RELAY-GLPGS	
e-STUDIO206L/ 256/306/356/456/ 506		PWA-DWNLD-350-JIG1	16MB	Necessary	PWA-DWNLD-RELAY-50F	Discontinued model
		PWA-DWNLD-350-JIG2	48MB	Necessary	PWA-DWNLD-RELAY-50F	Discontinued model
		PWA-DWNLD-JIG1	16MB	Necessary	PWA-DWNLD-RELAY-50F	
		PWA-DWNLD-JIG2	48MB	Necessary	PWA-DWNLD-RELAY-50F	
		PWA-DWNLD-JIG1F	16MB	Unnecessary		
		PWA-DWNLD-JIG2F	48MB	Unnecessary		
e-STUDIO207L/ 257/307/357/457/ 507		PWA-DWNLD-350-JIG1	16MB	Unnecessary		Discontinued model
		PWA-DWNLD-350-JIG2	48MB	Unnecessary		Discontinued model
		PWA-DWNLD-JIG1	16MB	Unnecessary		
		PWA-DWNLD-JIG2	48MB	Unnecessary		
		PWA-DWNLD-JIG1F	16MB	Necessary	PWA-DWNLD-RELAY-GLPGS	
		PWA-DWNLD-JIG2F	48MB	Necessary	PWA-DWNLD-RELAY-GLPGS	

11.4.1   Writing the data to the download jig (PWA-DWNLD-350-JIG1)

The download jig (PWA-DWNLD-350-JIG1) is the jig in which the Flash ROM is mounted on the board directly. The ROM writer adapter (PWA-DL-ADP-350) is required to write data to these Flash ROMs. Connect the download jig with the ROM writer via ROM writer adapter to write data. For the procedure to write data, refer to the download procedure, instruction manual of each ROM writer, or others.
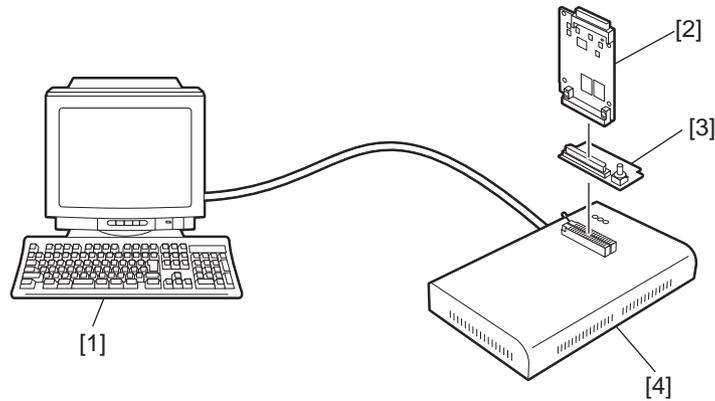
Fig.11-26

[1] PC
[2] Download jig (PWA-DWNLD-350-JIG1)
[3] ROM writer adapter (PWA-DL-ADP-350)
[4] ROM writer

Notes:
   There are two types of the ROM writer adapter. Use the proper one according to the ROM writer to be used. Applicable type of the adapter for the ROM writer can be confirmed by the model name indicated on the board. Confirm that the adapter is available for the ROM writer to be used before connecting them. If an unapplied adapter is connected, the application of the ROM writer judges it as an error and writing the data cannot be implemented. Applicable combinations of the ROM writer and adapter are as follows.

ROM writer	ROM writer adapter
Minato Electronics MODEL 1881XP/1881UXP (or equivalent)	PWA-DL-ADP-350-1881 (model 1881)
Minato Electronics MODEL 1893/1895/1931/1940 (or equivalent)	PWA-DL-ADP-350-1931 (model 1931)
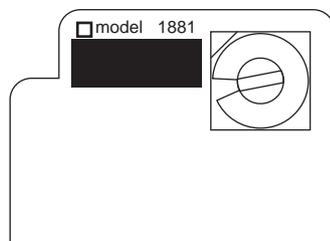
[PWA-DL-ADP-350-1881]
Fig.11-27
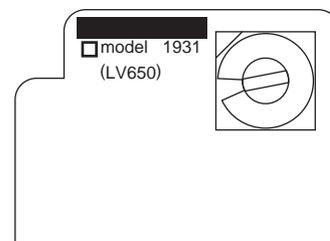
[PWA-DL-ADP-350-1931]
Fig.11-28

[A] Precautions when writing the System ROM data

- Set the writing voltage (VID) to 3.3 V.
  When an error appears while the data are being written to the download jig, set the writing voltage (VID) to 12 V and then write them.
- When writing the data, set the address from 0 to 3FFFFF. The data may not be written correctly if it is not set.
- Load the data file into the buffer by means of the following settings.

Auto Format Detected	Binary
From File	Normal
To Buffer	Normal
From File Address	0
To Buffer Address	0
Buffer Size	800100
Clear Buffer Before Loading the file	Clear buffer with blank state

[A-1] System ROM

Rotary Switch	File Name	Flash ROM
1	firmImage_jig0.bin	ROM1
2	firmImage_jig1.bin	ROM2

Notes:

Be sure not to confuse different ROM Versions since the file name is identical although the ROM version is different.

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[B] Precautions when writing the Engine ROM data

- Clear the buffer of the ROM writer by means of the following settings.

From Address	To Address	Code
0	800000	FF
800000	8000FF	00

- Set the writing voltage (VID) to 3.3 V.
  When an error appears while the data are being written to the download jig, set the writing voltage (VID) to 12 V and then write them.
- When writing the data, set the address from 0 to 3FFFFF. The data may not be written correctly if it is not set.
- Load the data file into the buffer by means of the following settings.

Auto Format Detected	Binary
From File	Normal
To Buffer	Normal
From File Address	0
To Buffer Address	300000
Buffer Size	800000
Clear Buffer Before Loading the file	Clear buffer with blank state

[B-1] Engine ROM

Rotary Switch	File Name	Flash ROM	Remarks
1	T160MWW.xxx T165MWW.xxx	ROM1	e-STUDIO206L/256/306/356/456/506
	TH330MWW.xxx	ROM1	e-STUDIO207L/257/307/357/457/507
2	N/A	ROM2	

Notes:

Be sure not to confuse different ROM Versions since the file name is identical although the ROM version is different.

11.4.2 System ROM

The firmware of the system ROM can be updated by using PWA-DWNLD-350-JIG1.

Important:
- Be sure to shut down the equipment before installing and removing the download jig.
- Do not shut down the equipment during the update. The data could be damaged and not be able to be operated properly.

[A] Update procedure

(1) Write the ROM data to be updated to the download jig (PWA-DWNLD-350-JIG1).

(2) Turn the power OFF using the main power switch on the right-hand surface of the equipment.

(3) Take off the cover.

e-STUDIO206L/256/306/356/456/506	e-STUDIO207L/257/307/357/457/507
Take off the cover plate.	Take off the rear cover.
Fig.11-29	Rear cover Fig.11-30
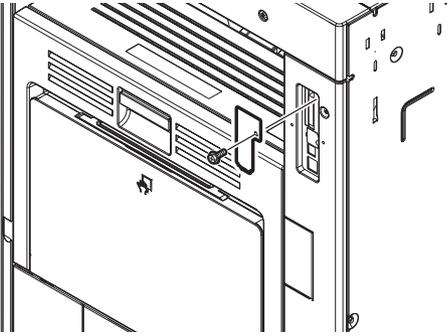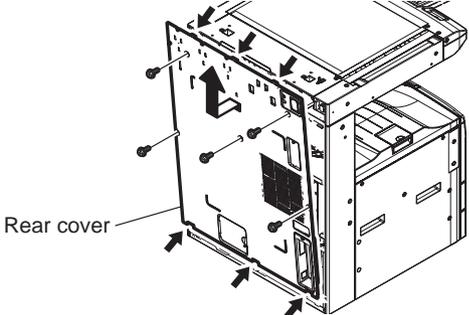
(4) Connect the download jig with the jig connector on the SYS board.

e-STUDIO206L/256/306/356/456/506	e-STUDIO207L/257/307/357/457/507
Connect the download jig.	Release the harness from the harness clamp [1]. Connect the download jig [2] with the jig connector CN110 on the SYS board.
Fig.11-31	Fig.11-32
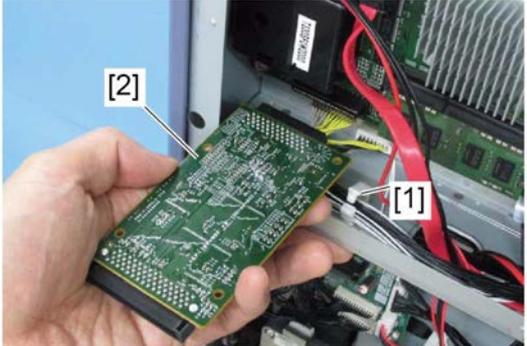
(5) Turn the power ON using the main power switch while simultaneously holding down the [8] and [9] buttons.

(6) Press the [Firmware Update] button, then press the [1] key to select "1.SYSTEM FIRMWARE(OS Data)".

(7) Select the item with the digital keys.
"*" is displayed next to the selected item. Display or delete the "*" by pressing the number of the item. All items are selected in the default settings.

(8) Press the [START] button.
Updating starts and the processing status is displayed on the LCD screen.

(9) "Update Completed." is displayed at the bottom of the LCD screen after the updating is completed properly. Turn the power OFF by pressing the [ON/OFF] button.

Notes:
"Update Failed." is displayed at the bottom of the LCD screen when the updating is not completed properly. "Failed" appears next to the failed item on the status display. In this case, shut down the equipment and check the following items. Then clear the problems and restart updating from the beginning.
- Is the download jig connected properly?
- Is the updating data written to the download jig properly?
- Do the download jig and the equipment operate properly?

(10) Press the [ON/OFF] button on the control panel to shut down the equipment and turn the power OFF using the main power switch.
Remove the download jig and install the cover plate.

Notes:
When the equipment has been shut down normally, the LCD screen and LEDs (green and red) go OFF.
When OS data have been updated and the equipment has been shut down immediately after the update, the LEDs (green and red) may not go OFF even if the LCD screen does. This indicates that the equipment has not shut down normally. Press the [ON/OFF] button on the control panel for more than 5 seconds, and then turn the main power switch OFF. Then remove the download jig.

(11) Turn the power ON using the main power switch while holding down the [3] and [C] keys simultaneously.

(12) Press the [5] key to select "5. Key Backup Restore", then press the [START] button.

(13) Restore the key and license data by following the steps below.
- Restore the key data by pressing the [1] key to select "1. Key SRAM to FROM", then press the [START] button.
- If the state of "FROM Licence Status" is "KeyMismatch", restore the license data by pressing the [3] key to select "3. License SRAM to FROM", then press the [START] button.
- If ADI-HDD is installed, restore the encryption key data by pressing the [5] key to select "5. ADIKey SRAM to FROM", then press the [START] button.

(14) Press the [ON/OFF] button to shut down the equipment.

(15) Perform the initialization of the updating data.
- Turn the power ON using the main power switch while pressing the [0] and [8] buttons simultaneously.
- Key in "9030", and then press the [START] button.
- Press the [INITIALIZE] button.

[B] Confirmation of the updated data

After the updating is completed, check each data version in the Setting Mode (08) to confirm that the data were overwritten properly.

📖 P. 11-81 "11.7 Confirmation of the updated data"

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e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
FIRMWARE UPDATING

11.4.3 Engine ROM

The firmware of the engine ROM can be updated individually by using PWA-DWNLD-350-JIG1.

Important:
- Be sure to shut down the equipment before installing and removing the download jig.
- Do not shut down the equipment during the update. The data could be damaged and not be able to be operated properly.

[A] Update procedure

(1)   Write the ROM data to be updated to the download jig (PWA-DWNLD-350-JIG1).

(2)   Press the [ON/OFF] button on the control panel to shut down the equipment and turn the power OFF using the main power switch.

(3)   Take off the cover plate.
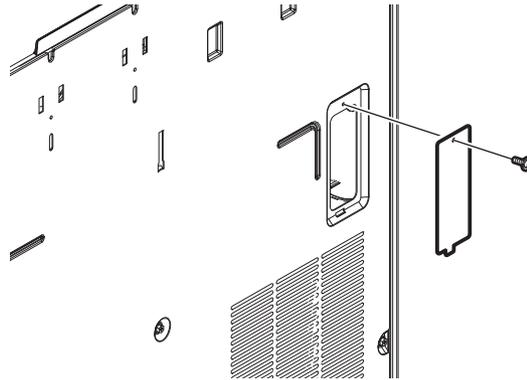
Fig.11-33

(4)   Connect the download jig with the jig connector on the logic PC board (LGC board).
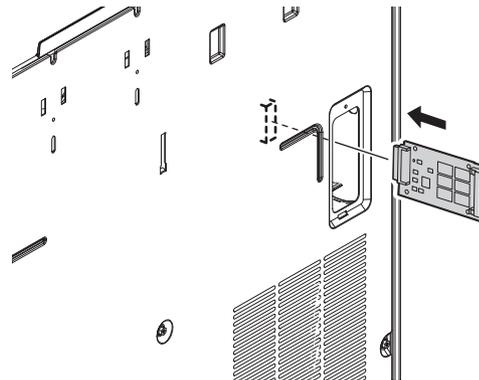
Fig.11-34

(5)   Open the front cover.

(6)   Turn the power ON using the main power switch while simultaneously holding down the [0] and [8] buttons. Updating starts automatically and the LED on the download jig lights.

(7) When the update is completed properly, the LED on the download jig blinks.
The LED starts blinking approx. 15 sec. after the update starts. It is assumed that the update has failed if it does not start blinking even though 1 min. has passed. In this case, shut down the equipment and check the following items. Then clear the problems and restart updating from the beginning.
- Is the download jig connected properly?
- Is the updating data written to the download jig properly?
- Do the download jig and the equipment operate properly?

(8) Press the [ON/OFF] button on the control panel to shut down the equipment and turn the power OFF using the main power switch.

Notes:
"Update Failed." is displayed at the bottom of the LCD screen when the updating is not completed properly. "Failed" appears next to the failed item on the status display. In this case, shut down the equipment and check the following items. Then clear the problems and restart updating from the beginning.

(9) Remove the download jig.

(10) Install the cover plate and then close the front cover.

[B] Confirmation of the updated data
After the updating is completed, check each data version in the Setting Mode (08) to confirm that the data were overwritten properly.

11

11.5 Firmware Updating with K-PWA-DLM-320

The firmware of the equipment (engine ROM, scanner ROM) and the option (RADF ROM, Finisher ROM, FAX ROM) can be updated individually by using K-PWA-DLM-320. Update the ROM data written on each board according to the need such as the case of replacing the board.

Equipment

Firmware	Stored	e-STUDIO206L/256/ 306/356/456/506	e-STUDIO207L/257/ 307/357/457/507
Scanner ROM (Scanner firmware)	Scanning section control PC board (SLG board)	Yes	No

Options

Model name	Firmware	Stored	e-STUDIO 206L/256/ 306/356/ 456/506	e-STUDIO 207L/257/ 307/357/ 457/507
Reversing Automatic Document Feeder (RADF) (MR-3021/3022)	RADF firmware	RADF control PC board	Yes	-
Reversing Automatic Document Feeder (RADF) (MR-3028)			-	No
Finisher (MJ-1032)	Finisher firmware	Finisher control PC board	Yes	Yes
	Converter firmware	Converter PC board	Yes	Yes
Finisher (MJ-1033)	Finisher firmware	Finisher control PC board	Yes	Yes
	Converter firmware	Converter PC board	Yes	Yes
Finisher (MJ-1101)	Finisher firmware	Finisher control PC board	Yes	-
	Converter firmware	Converter PC board	Yes	-
Finisher (MJ-1106)	Finisher firmware	Finisher control PC board	Yes	-
	Converter firmware	Converter PC board	Yes	-
	Saddle stitcher firmware	Saddle control PC board	Yes	-
Finisher (MJ-1107)	Finisher firmware	Finisher control PC board	-	No
Finisher (MJ-1108)	Finisher firmware	Finisher control PC board	-	No
	Saddle stitcher firmware	Saddle control PC board	-	No
Hole Punch Unit (MJ-6008)	Hole punch unit firmware	Hole punch control PC board	Yes	Yes
Hole Punch Unit (MJ-6103)			Yes	-
Hole Punch Unit (MJ-6104)			-	No
Fax Unit (GD-1250)	Fax unit firmware	FAX board	Yes	-
Fax Unit (GD-1350)			-	No

K-PWA-DLM-320

Connector   Mark for ROM installation direction   LED

ROM
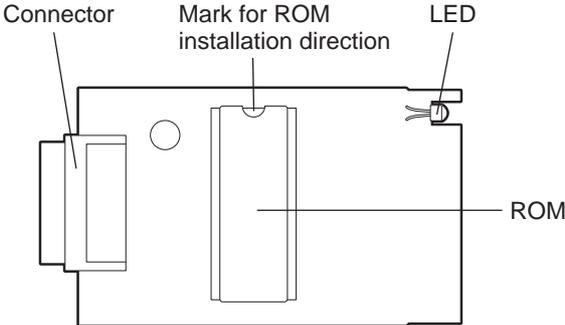
Fig.11-35 Jig board: K-PWA-DLM-320

Important:
    Pay attention to the direction of the ROM.

11

         e-STUDIO206L/256/306/356/456/506 / 207L/257/307/357/457/507
FIRMWARE UPDATING

11.5.1 Scanner ROM (e-STUDIO206L/256/306/356/456/506 only)

Important:
- Be sure to shut down the equipment before installing and removing the download jig.
- Do not shut down the equipment during the update. The data could be damaged and not be able to be operated properly.

[A] Update Procedure

(1) Install the ROM to the download jig (K-PWA-DLM-320).
Make sure the direction is correct.

(2) Press the [ON/OFF] button on the control panel to shut down the equipment and turn the power OFF using the main power switch.

(3) Take off the right upper cover.

Right upper cover
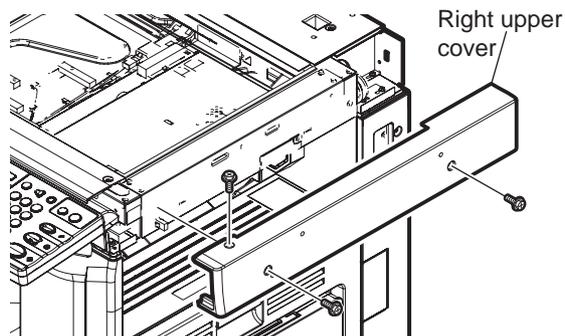
Fig.11-36

* When the authentication screen appears, press [OK]. (Enter the password, if one has been set.)

(4) Take off the cover plate.

Cover plate
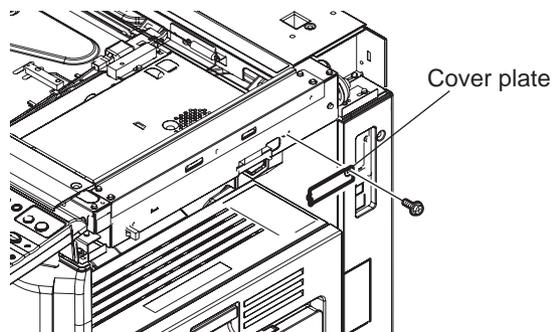
Fig.11-37

(5) Connect the download jig with the jig connector (CN6) on the scanning section control PC board (SLG board).

Connector
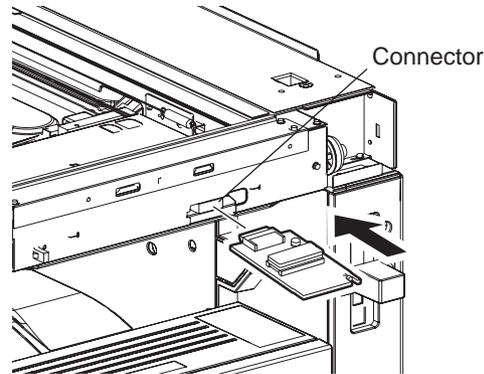
Fig.11-38

(6) Turn the power ON using the main power switch while simultaneously holding down the [0] and [8] buttons.
Updating starts automatically and the LED on the download jig lights.

(7) After the update is completed properly, the LED on the download jig blinks.
The LED starts blinking approx. 20 sec. after the update starts. It is assumed that the update has failed if it does not start blinking even though 1 min. has passed. In this case, shut down the equipment and check the following items. Then clear the problems and restart updating from the beginning.
•   Is the download jig connected properly?
•   Is the ROM installed to the download jig properly?
•   Is the updating data written on the ROM of the download jig properly?
•   Do the download jig and the equipment operate properly?

(8) Press the [ON/OFF] button on the control panel to shut down the equipment and turn the power OFF using the main power switch.
Remove the download jig, and then install the cover plate and right upper cover.

[B]   Confirmation of the updated data

After the updating is completed, check each data version in Setting Mode (08) to confirm that the data were overwritten properly.

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11.5.2 RADF firmware (MR-3021/3022)

Important:
- Be sure to shut down the equipment before installing and removing the download jig.
- Do not shut down the equipment during the update. The data could be damaged and not be able to be operated properly.
- Since the update data for the MR-3021 and the MR-3022 differ, be sure to install the correct.

[A] Update Procedure

(1) Install the ROM to the download jig (K-PWA-DLM-320).
    Make sure the direction is correct.

(2) Press the [ON/OFF] button on the control panel to shut down the equipment and turn the power OFF using the main power switch.

(3) Take off the RADF rear cover.
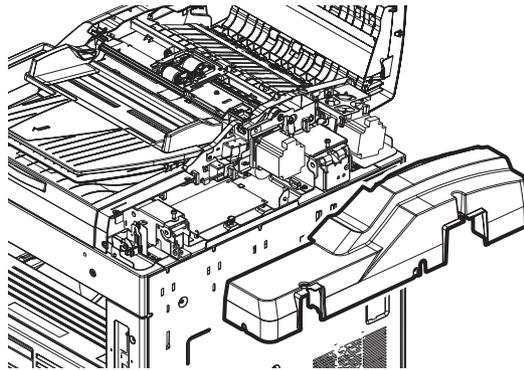
Fig.11-39

(4) Connect the download jig with the jig connector on the RADF control PC board.
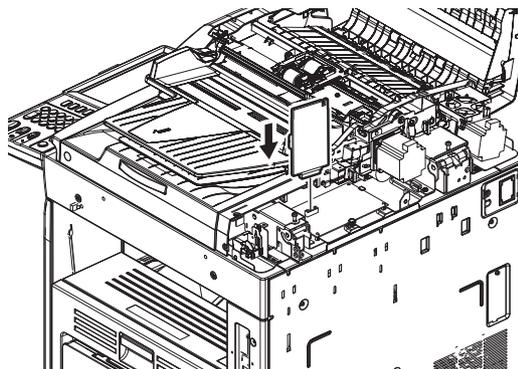
Fig.11-40

(5) Open the front cover.

(6) Turn the power ON using the main power switch while simultaneously holding down the [0] and [8] buttons.
    Updating starts automatically and the LED on the download jig lights.

(7) After the update is completed properly, the LED on the download jig blinks (at an interval of approx. 1 sec.).
     The LED starts blinking approx. 50 sec. after the update starts. It is assumed that the update has failed if it does not start blinking even though 2 min. has passed. In this case, shut down the equipment and check the following items. Then clear the problems and restart updating from the beginning.
     • Is the download jig connected properly?
     • Is the ROM installed to the download jig properly?
     • Is the updating data written on the ROM of the download jig properly?
     • Do the download jig, RADF and the equipment operate properly?

(8) Press the [ON/OFF] button on the control panel to shut down the equipment and turn the power OFF using the main power switch.
     Remove the download jig and install the RADF rear cover.

(9) Close the front cover.

[B] Confirmation of the updated data

After the updating is completed, check each data version in Setting Mode (08) to confirm that the data were overwritten properly.

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11.5.3 Finisher firmware (MJ-1032)

(1) Install the ROM [2] in the download jig (K-PWA-DLM-320) [1].
Make sure that the type of the ROM and installation direction are correct.

(2) Turn OFF the power of the equipment. Then slide the Finisher and pull it out from the equipment.

(3) Remove 1 screw [6] and take off the download cover [7].
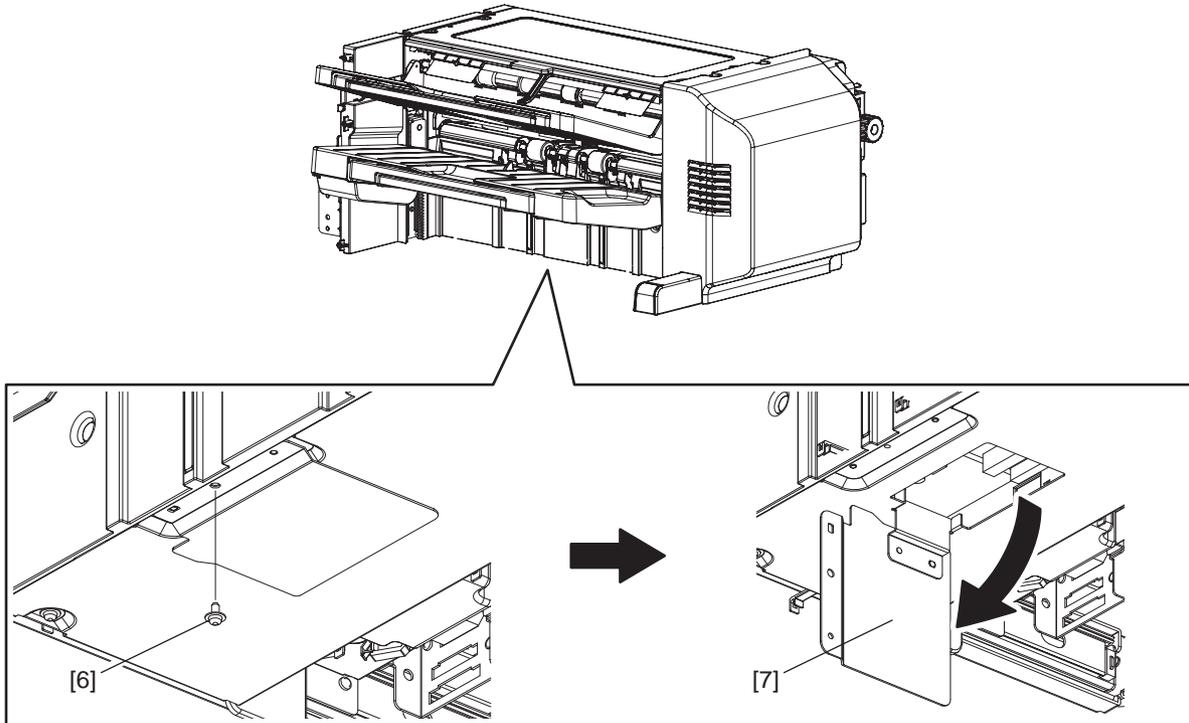
Fig.11-41

(4) Connect the download jig [1] to the jig connector (CN7) [8] on the finisher control PC board (FIN).
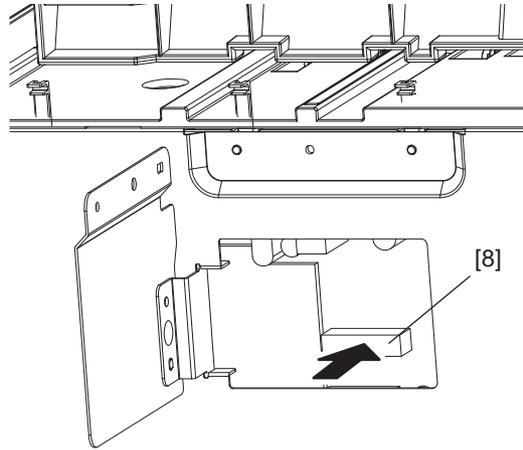
Fig.11-42

(5) Turn the power ON with the main power switch while pressing the digital keys [0] and [8] simultaneously.
Updating starts automatically and the LED on the download jig lights.

(6) When the update is completed normally, the LED on the download jig starts blinking.
It is assumed that the update has failed if the LED does not start blinking even after 1 minute has elapsed. In this case, shut down the equipment and check the following items.
Then clear the problems and restart the update from the beginning.
- Is the downloading jig connected properly?
- Is the ROM attached to the downloading jig properly?
- Have the update data been written correctly to the ROM on the jig?
- Is the download jig or the equipment damaged?

(7) Turn OFF the power of the equipment and disconnect the download jig.

(8) Install the download cover.

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11.5.4 Finisher firmware (MJ-1033)

(1) Install the ROM [2] to the download jig (K-PWA-DLM-320) [1].
Make sure that the type of the ROM and the installation direction are correct.

(2) Turn OFF the power of the connected equipment, and then release the Finisher from the equipment.

(3) Take off the rear cover of the Finisher.
(Refer to "MJ-1033/6008 Service Manual P4-4 [E] Rear cover")
* After taking off the rear cover of the Finisher, be sure to connect the finisher interface cable to the equipment.

(4) Connect the download jig [1] to the jig connector (CN5) [6] on the finisher control PC board (FIN).
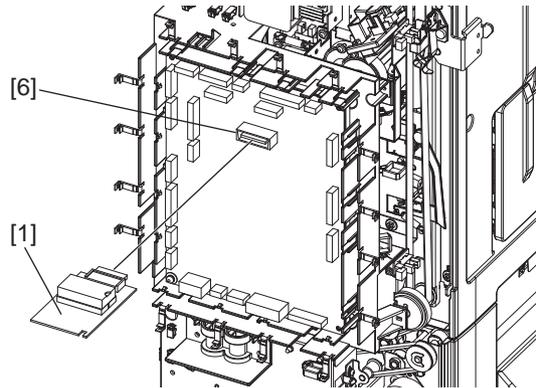
Fig.11-43

(5) Turn the power ON with the main power switch while pressing the digital keys [0] and [8] simultaneously.
Updating starts and the LED on the download jig lights.

(6) When the update is completed normally, the LED on the download jig starts blinking slowly.
The LED starts blinking after approx. 10 seconds have passed since the update had started.
When the LED does not blink even after 1 minute or more has passed or when it is blinking too fast, this means the update has failed. In this case, turn the power OFF and check items below.
After checking the item, solve the problem and restart the update.
• Is the downloading jig connected properly?
• Is the ROM attached to the downloading jig properly?
• Have the update data been written correctly to the ROM on the jig?
• Is the download jig or the equipment damaged?

(7) Turn the power OFF and then remove the download jig.

(8) Reinstall the rear cover of the Finisher.

11.5.5 Finisher firmware (MJ-1101)

Important:
- Be sure to shut down the equipment before installing and removing the download jig.
- Do not shut down the equipment during the update. The data could be damaged and not be operated properly.

[A] Update Procedure

(1) Install the ROM to the download jig (K-PWA-DLM-320).
Make sure the direction is correct.

(2) Press the [ON/OFF] button on the control panel to shut down the equipment and turn the power OFF using the main power switch.

(3) Remove 1 screw and take off the board access cover.

Board access cover
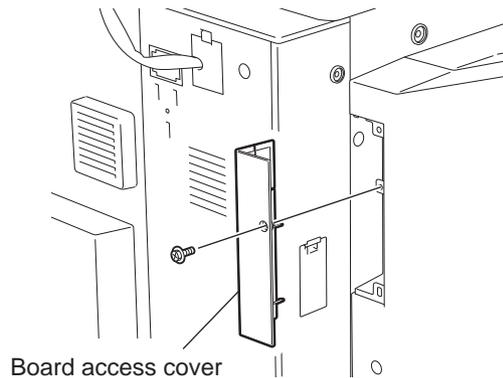
Fig.11-44

(4) Connect the download jig with the jig connector (CN9) on the Finisher control board.
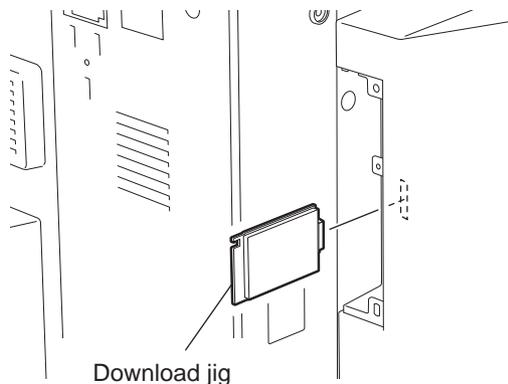
Download jig

Fig.11-45

(5) Turn the power ON using the main power switch while simultaneously holding down the [0] and [8] buttons.
Updating starts and the LED on the download jig lights

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(6)   When the update completes normally, the LED on the download jig starts blinking.
      The LED on the download jig starts blinking approx. 12 seconds after the update started.
      It is assumed that the update has failed if the LED does not start blinking even after 20 seconds
      have elapsed. In this case, shut down the equipment and check the following items. Then clear
      the problems and restart updating from the beginning.
      • Is the downloading jig connected properly?
      • Is the ROM attached to the downloading jig properly?
      • Has the update data been written correctly to the ROM on the jig?
      • Is the download jig or the equipment damaged?

(7)   Press the [ON/OFF] button on the control panel and turn the power OFF using the main power
      switch and remove the download jig. Install the board access cover.

[B]   Confirmation of the updated data

After the updating is completed, check each data version in Setting Mode (08) to confirm that the data
were overwritten properly.
📖 P. 11-81 "11.7 Confirmation of the updated data"

11.5.6　Finisher firmware (MJ-1106)

Important:
- Be sure to shut down the equipment before installing and removing the download jig.
- Do not shut down the equipment during the update. The data could be damaged and not be operated properly.

[A]　Update Procedure

(1)　Attach the ROM to the download jig.
　　　Make sure that the ROM and its direction are correct.
(2)　Turn OFF the power of the equipment.

(3)　Remove 2 screws and take off the board access cover [1].
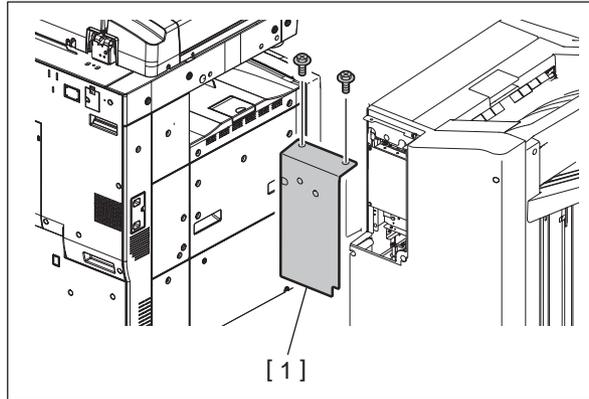
Fig.11-46

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(4) Connect the download jig [1] with the jig connector (CN28) on the Finisher control board.
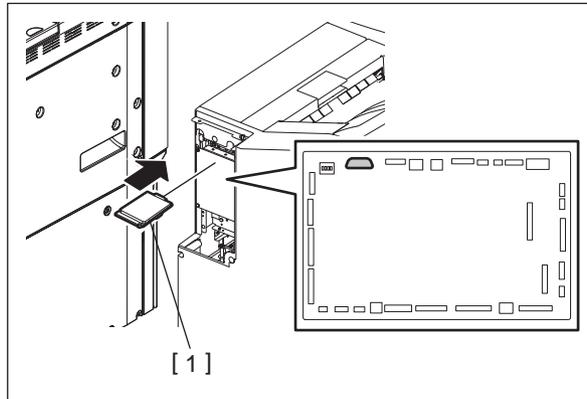
Fig.11-47

(5) Turn ON the power while pressing [0] and [8] simultaneously.
Updating starts and the LED on the download jig lights.

(6) When the update completes normally, the LED on the download jig starts blinking.
The LED on the download jig starts blinking in approx. 12 seconds after the update started.
It is assumed that the update is failed if the LED does not start blinking even after 20 seconds have elapsed.
In this case, turn the power OFF and check the following items.
Then, clear the problem and restart updating from the beginning.
- Is the download jig connected properly?
- Is the ROM attached to the download jig properly?
- Has the update data been written correctly to the ROM on the download jig?
- Is the download jig or the equipment damaged?

(7) Turn the power OFF and remove the download jig.

(8) Install the board access cover.

[B] Confirmation of the updated data

After the updating is completed, check each data version in Setting Mode (08) to confirm that the data were overwritten properly.
📖 P. 11-81 "11.7 Confirmation of the updated data"

11.5.7 Hole punch unit firmware (MJ-6008)

The update procedure of the hole punch control PC board (HP) is the same as that of the finisher control PC board (FIN). The data in the update ROM are automatically judged and stored whether they are for the finisher control PC board (FIN) or hole punch control board (HP).

11.5.8 Hole punch unit firmware (MJ-6103)

Important:
- Be sure to shut down the equipment before installing and removing the download jig.
- Do not shut down the equipment during the update. The data could be damaged and not be operated properly.

[A] Checking the hole punch position

Follow the procedure below to check the stopping position of the paper transport during the punching operation before updating the firmware, as the value for the position is defaulted when the firmware is updated.

(1) Press the [ON/OFF] button on the control panel to shut down the equipment and turn the power OFF using the main power switch.

(2) Remove the finisher board access cover and change the setting of the DIP-SW1 (SW1) on the finisher control PC board as shown in the figure below.
<When MJ-1101 is connected>
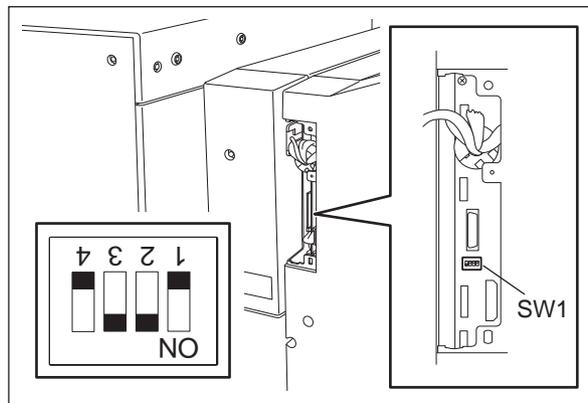
Fig.11-48

<When MJ-1106 is connected>
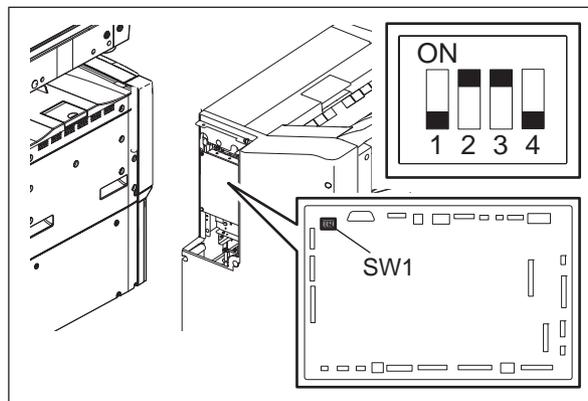
Fig.11-49

(3) Turn the power ON using the main power switch while simultaneously holding down the [0] and [8] buttons. The [LED1] on the finisher control panel starts blinking. Count the number of times it blinks. If the number of blinks is "6", this indicates that the value for the stopping position is the default. If the number is other than "6", record it because the value needs to be reset after the firmware is updated.

(4) Return the DIP-SW1 to the status before checking.

[B] Update Procedure

(1) Install the ROM to the download jig (K-PWA-DLM-320).
Make sure the direction is correct.

(2) Press the [ON/OFF] button on the control panel to shut down the equipment and turn the power OFF using the main power switch.

(3) Remove 1 screw and take off the finisher board access cover.
<When MJ-1101 is connected>

Board access cover

Fig.11-50

<When MJ-1106 is connected>

[1]
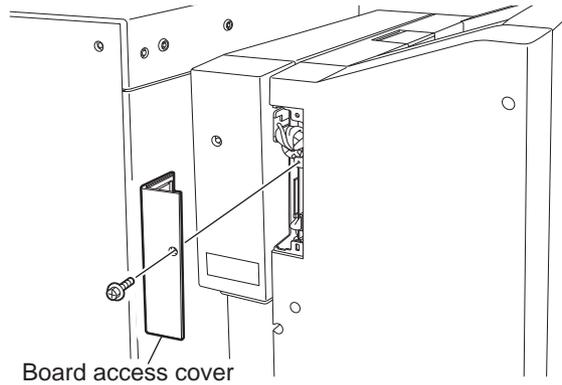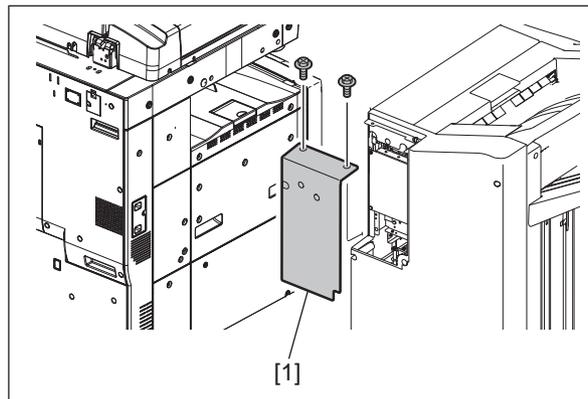
Fig.11-51

(4) Release the latches and take off the rear lower cover of the hole punch unit.

Rear lower cover
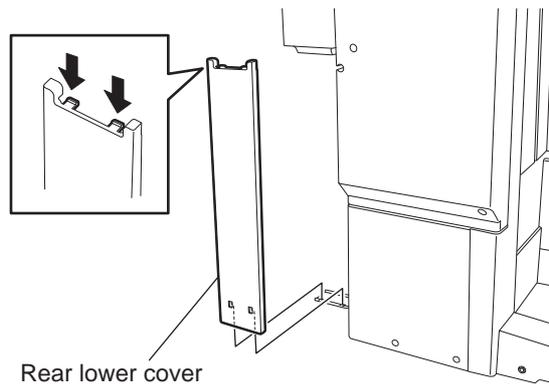
Fig.11-52

(5) Remove 3 screws and take off the rear cover of the hole punch unit.

Rear cover
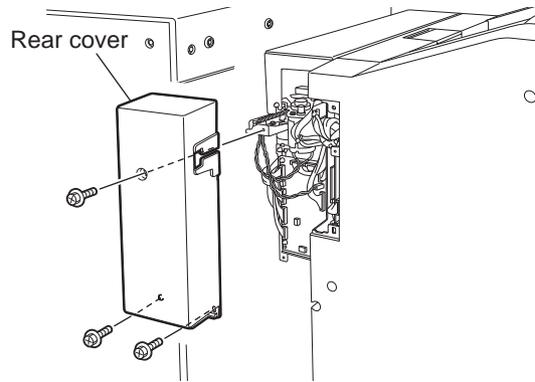
Fig.11-53

(6) Connect the download jig with the jig connector (CN9) on the finisher control PC board.
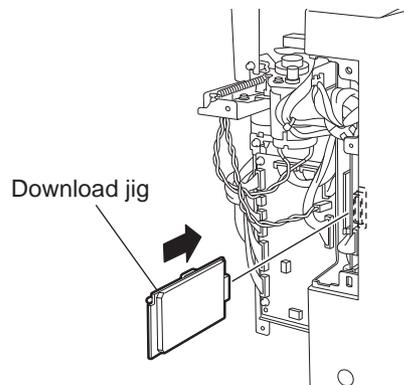
Download jig

Fig.11-54

(7) Set the DIP-SW4 on the hole punch control PC board to ON.

ON
1 2 3 4

Fig.11-55

(8) Turn the power ON using the main power switch while simultaneously holding down the [0] and [8] buttons.
Updating starts and the LED on the download jig lights.

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(9) When the update is completed normally, the LED on the download jig starts blinking.
The LED on the download jig starts blinking approx. 20 seconds after the update started. It is assumed that the update has failed if the LED does not start blinking even after 30 seconds have elapsed. In this case, shut down the equipment and check the following items. Then clear the problems and restart updating from the beginning.
- Is the downloading jig connected properly?
- Is the ROM attached to the downloading jig properly?
- Is the DIP-SW4 on the hole punch control PC board set properly?
- Has the update data been written correctly to the ROM on the jig?
- Is the download jig or the equipment damaged?
- Is the connector (CN12) on the finisher control PC board connected properly?
- Are the connector (CN15) on the finisher control PC board and the connector (CN1) on the hole punch control PC board connected properly?

(10) Press the [ON/OFF] button on the control panel and turn the power OFF using the main power switch and remove the download jig.

(11) Set the DIP-SW4 on the hole punch control PC board to OFF.
Notes:
When the number of blinks is other than "6" (which indicates that the adjustment value is "0") at the section "[A]Checking the hole punch position", follow the steps of "5.1 Stopping Position Adjustment" in the MJ-6103 Service Manual to adjust the value to the one that has been set before the update.

(12) Change the settings of the DIP-SW1 and -SW2 on the hole punch control PC board according to the model as shown in the figure below.
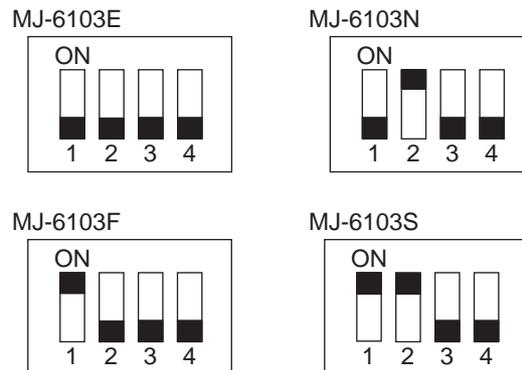
Fig.11-56

(13) Install the rear cover of the hole punch unit.

(14) Install the rear lower cover of the hole punch unit.

(15) Install the finisher board access cover.

[C] Confirmation of the updated data
After the updating is completed, check each data version in Setting Mode (08) to confirm that the data were overwritten properly.
📖 P. 11-81 "11.7 Confirmation of the updated data"

11.5.9 Converter Firmware (MJ-1032)

Important:
- The harness jig for board connection (HRNS-CNV-DL-JIG) is required for updating the firmware of the CNV board of the finisher as well as the download jig (K-PWA-DLM-320).
- Be sure to shut down the equipment before installing and removing the download jig.
- Do not shut down the equipment during the update. The data could be damaged and not be operated properly.

(1) Install the ROM [2] to the download jig (K-PWA-DLM-320) [1].
Make sure that the type of the ROM and the installation direction are correct.

(2) Turn OFF the power of the connected equipment.

(3) Remove the finisher from the equipment.

(4) Remove 4 screws and take off the board cover.
(Refer to "MJ-1032/6007 Service Manual 4.1.3 PC Boards")

(5) Install the finisher to the equipment.

(6) Remove the CNV board from the equipment.

(7) Connect the 10-pin side of the harness jig for board connection (HRNS-CNV-DL-JIG) [6] to the connector (CN2) [7] of the CNV board.

(8) Connect the 15-pin side of the harness jig for board connection (HRNS-CNV-DL-JIG) [8] to the connector (CN8) [9] on the finisher control PC board (FIN).

(9) Connect the download jig [1] to the jig connector (CN9) [10] on the finisher control PC board (FIN).

Notes:
Be careful not to short-circuit any part of the finisher control PC board (FIN) and the CNV board.

(10) Turn the power ON with the main power switch while pressing the digital keys [0] and [8] simultaneously.
Updating starts and the LED on the download jig lights.

(11) When the update completes normally, the LED on the download jig starts blinking.

The LED on the download jig starts blinking approx. 20 seconds after the update started. It is assumed that the update has failed if the LED does not start blinking even after 30 seconds have elapsed. In this case, shut down the equipment and check the following items. Then clear the problems and restart updating from the beginning.
- Is the downloading jig connected properly?
- Is the ROM attached to the downloading jig properly?
- Have the update data been written correctly to the ROM on the jig?
- Is the download jig or the equipment damaged?
- Is the harness jig for board connection connected to connector (CN2) of the CNV board and the connector (CN8) of the finisher control PC board (FIN) correctly?

(12) Turn OFF the power of the connected equipment.

(13) Remove the download jig and the harness jig for board connection from the finisher control PC board (FIN).

(14) Remove the finisher from the equipment.

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(15) Install the board cover.

(16) Install the finisher to the equipment.

(17) Remove the harness jig for board connection from the CNV board.

(18) Install the CNV board in the equipment.

11.5.10 Converter Firmware (MJ-1033)

Important:
- The harness jig for board connection (HRNS-CNV-DL-JIG) is required for updating the firmware of the CNV board of the finisher as well as the download jig (K-PWA-DLM-320).
- Be sure to connect the equipment and finisher before updating the CNV board firmware.
- Be sure to shut down the equipment before installing and removing the download jig.
- Do not shut down the equipment during the update. The data could be damaged and not be operated properly.

(1)   Install the ROM [2] to the download jig (K-PWA-DLM-320) [1].
       Make sure that the type of the ROM and the installation direction are correct.

(2)   Turn OFF the power of the connected equipment.

(3)   Take off the rear cover of the Finisher.
       (Refer to MJ-1033/6008 Service Manual P4-4 "[E] Rear cover")

(4)   Remove the CNV board from the equipment.

(5)   Connect the 10-pin side of the harness jig for board connection (HRNS-CNV-DL-JIG) [6] to the connector (CN2) [7] of the CNV board.

(6)   Connect the 15-pin side of the harness jig for board connection [8] to the connector (CN22) [9] on the finisher control PC board (FIN).
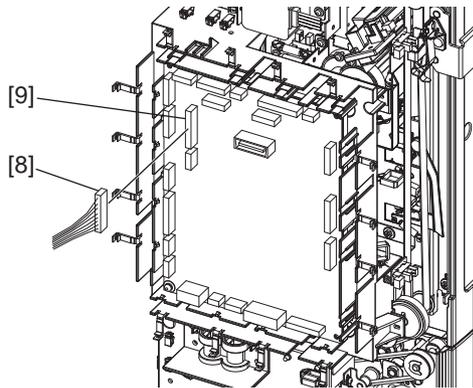
Fig.11-57

Notes:
   Be careful not to short-circuit any part of the CNV board.

(7) Connect the download jig [1] to the jig connector (CN5) [10] on the finisher control PC board (FIN).
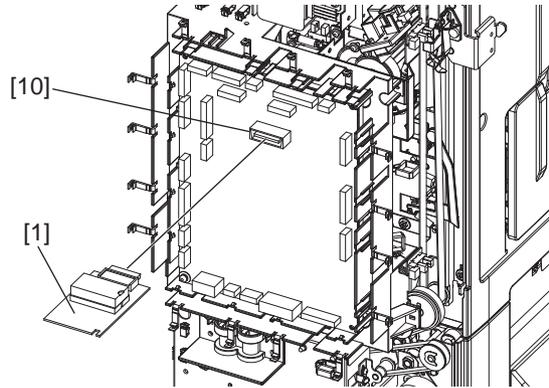
Fig.11-58

(8) Turn the power ON with the main power switch while pressing the digital keys [0] and [8] simultaneously.
Updating starts and the LED on the download jig lights.

(9) When the update completes normally, the LED on the download jig starts blinking.

The LED on the download jig starts blinking approx. 20 seconds after the update started. It is assumed that the update has failed if the LED does not start blinking even after 30 seconds have elapsed. In this case, shut down the equipment and check the following items. Then clear the problems and restart updating from the beginning.
*   Is the downloading jig connected properly?
*   Is the ROM attached to the downloading jig properly?
*   Have the update data been written correctly to the ROM on the jig?
*   Is the download jig or the equipment damaged?
*   Is the harness jig for board connection connected to connector (CN2) of the CNV board and the connector (CN22) of the finisher control PC board (FIN) correctly?

(10) Turn OFF the power of the connected equipment.

(11) Remove the download jig and the harness jig for board connection from the finisher control PC board (FIN).

(12) Install the rear cover of the Finisher.

(13) Remove the harness jig for board connection from the CNV board.

(14) Install the CNV board in the equipment.

11.5.11 Converter Firmware (MJ-1101)

The harness jig for board connection is required for updating the firmware of the converter PC board of the finisher (MJ-1101) as well as the download jig (K-PWA-DLM-320).

Name of the jig	Model name
Harness jig for board connection	HRNS-CNV-DL-JIG

Important:
- Be sure to connect the equipment and finisher (MJ-1101) before updating the converter firmware.
- Be sure to shut down the equipment before installing and removing the download jig.
- Do not shut down the equipment during the update. The data could be damaged and not be operated properly.

[A] Update Procedure

(1)   Install the ROM to the download jig (K-PWA-DLM-320).
      Make sure the direction is correct.

(2)   Press the [ON/OFF] button on the control panel to shut down the equipment and turn the power OFF using the main power switch.

(3)   Take off the finisher board access cover.

Board access cover
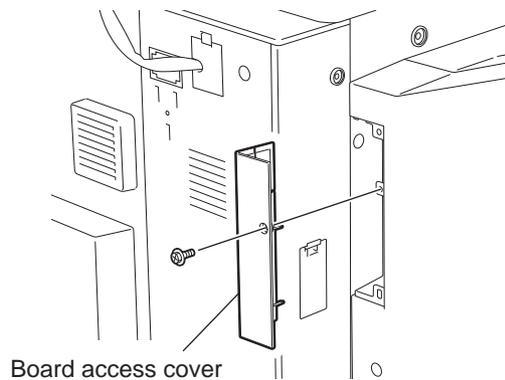
Fig.11-59

(4)   Take off the rear cover of the equipment.
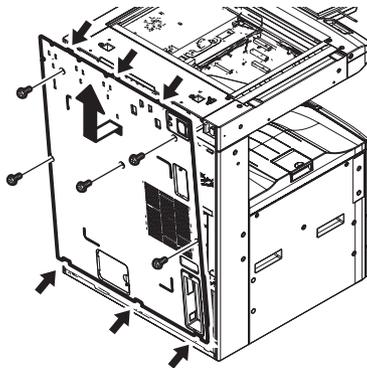
Fig.11-60

(5) Take off the converter PC board from the logic PC board (LGC board).
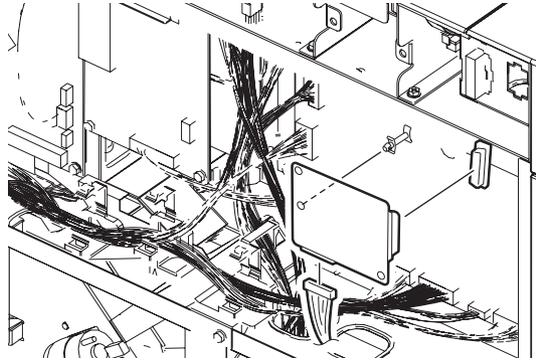
Fig.11-61

(6) Connect the 10-pin side of the harness jig for board connection to the connector (CN2) of the converter PC board.

CN2
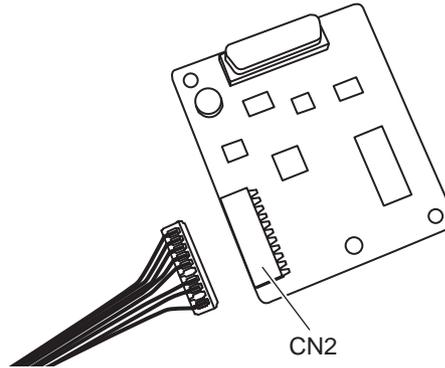
Fig.11-62

(7) Connect the 15-pin side of the harness jig for board connection to the connector (CN15) of the finisher control PC board.
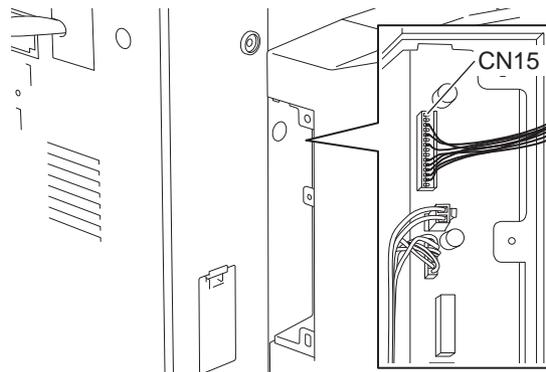
CN15

Fig.11-63

Notes:
- Be sure to release the connection cable from the connector (CN15) of the finisher control PC board when the hole punch unit (MJ-6103) has been installed.
- Be careful not to short-circuit any part of the converter PC board.

(8) Connect the download jig with the jig connector (CN9) on the Finisher control board.
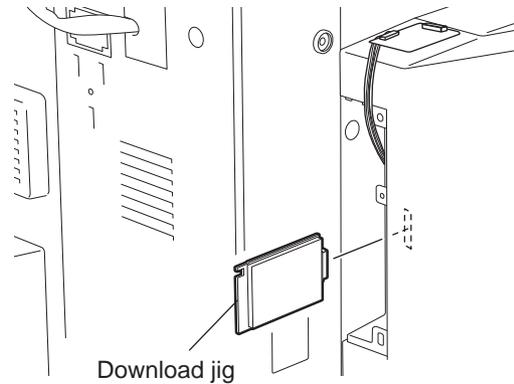
Download jig

Fig.11-64

(9) Turn the power ON using the main power switch while simultaneously holding down the [0] and [8] buttons.
Updating starts and the LED on the download jig lights.

(10) When the update completes normally, the LED on the download jig starts blinking.
The LED on the download jig starts blinking approx. 20 seconds after the update started.
It is assumed that the update has failed if the LED does not start blinking even after 30 seconds have elapsed. In this case, shut down the equipment and check the following items. Then clear the problems and restart updating from the beginning.
 • Is the downloading jig connected properly?
 • Is the ROM attached to the downloading jig properly?
 • Have the update data been written correctly to the ROM on the jig?
 • Is the download jig or the equipment damaged?
 • Is the harness jig for board connection connected to connector (CN2) of the converter PC board and the connector (CN15) of the finisher control PC board correctly?

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(11) Press the [ON/OFF] button on the control panel to shut down the equipment and turn the power OFF using the main power switch.

(12) Remove the download jig and the harness jig for board connection from the finisher control PC board.

Notes:
Be sure to secure the connection cable in the connector (CN15) of the finisher control PC board when the hole punch unit (MJ-6103) has been installed.

(13) Install the board access cover.

(14) Remove the harness jig for board connection from the converter PC board.

(15) Install the converter PC board in the equipment.

(16) Install the rear cover of the equipment.

[B] Confirmation of Firmware Version
Be sure to install the converter PC board in the equipment and connect the finisher (MJ-1101) before confirming the firmware version of the converter firmware.
P. 11-81 "11.7 Confirmation of the updated data"

11.5.12 Converter Firmware (MJ-1106)

Important:
- The harness jig for board connection (HRNS-CNV-DL-JIG) is required for updating the firmware of the converter PC board of the finisher (MJ-1106) as well as the download jig (K-PWA-DLM-320).
- Be sure to connect the equipment and finisher (MJ-1106) before updating the converter firmware.
- Be sure to shut down the equipment before installing and removing the download jig.
- Do not shut down the equipment during the update. The data could be damaged and not be operated properly.

[A] Update Procedure

(1) Install the ROM to the download jig.
Make sure the direction is correct.

(2) Press the [ON/OFF] button on the control panel to shut down the equipment and turn the power OFF using the main power switch.

(3) Take off the finisher board access cover [1].
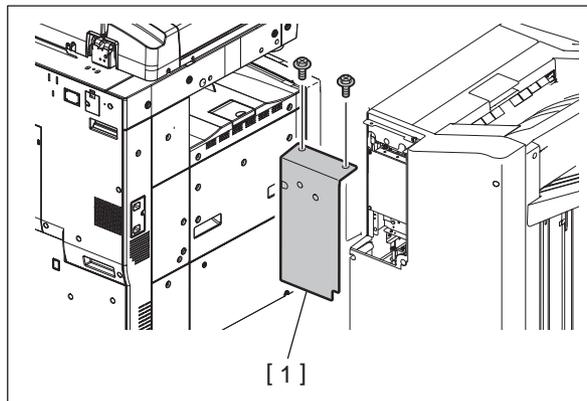
Fig.11-65

(4)   Connect the download jig [1] with the jig connector (CN28) on the Finisher control board.
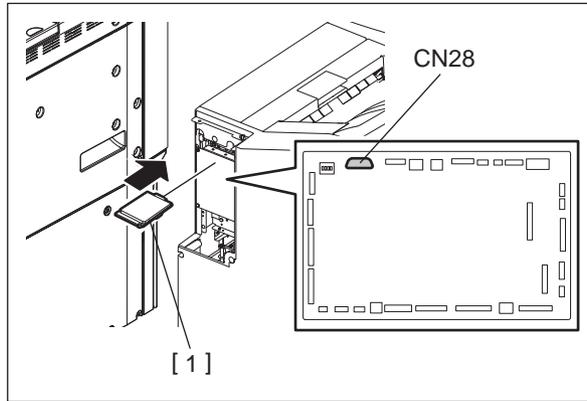
Fig.11-66

(5)   Take off the rear cover of the equipment.
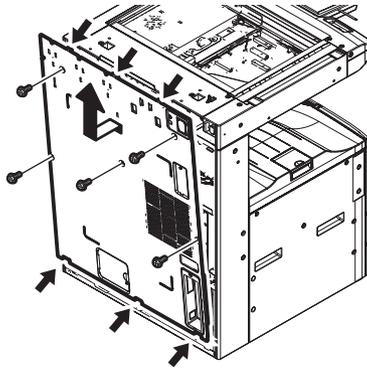
Fig.11-67

(6)   Take off the converter PC board from the logic PC board (LGC board)

Fig.11-68

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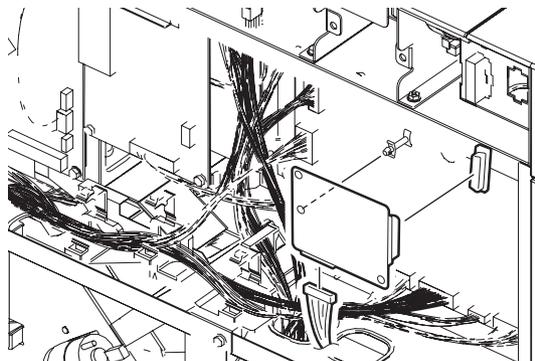
(7) Connect the 10-pin side of the harness jig for board connection (HRNS-CNV-DL-JIG) to the connector (CN2) of the converter PC board [1].
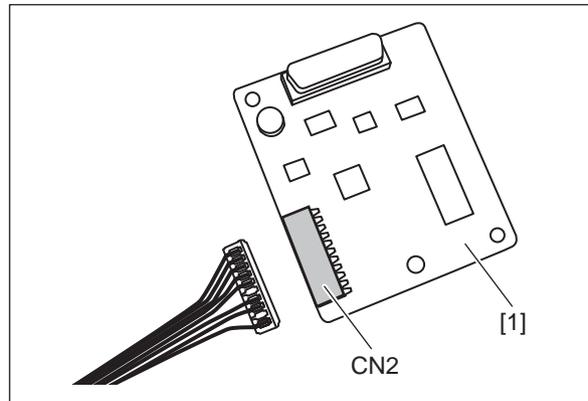
Fig.11-69

(8) Connect the 15-pin side of the harness jig for board connection to the connector (CN4) of the IF board.
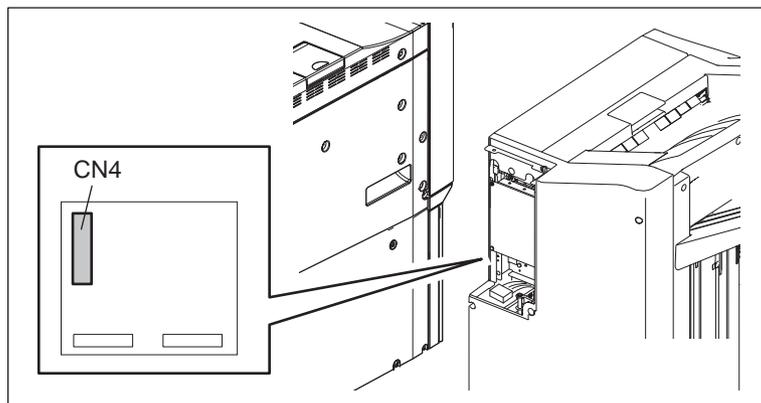
Fig.11-70

Notes:
- Be sure to release the connection cable from the connector (CN4) of the IF board when the hole punch unit (MJ-6103) has been installed.
- Be careful not to short-circuit any part of the converter PC board.

(9)   Turn ON the power while [0] button and [8] button are pressed simultaneously.
Updating starts and the LED on the download jig lights.

(10) When the update completes normally, the LED on the download jig starts blinking.
The LED on the download jig starts blinking approx. 20 seconds after the update started. It is assumed that the update has failed if the LED does not start blinking even after 30 seconds have elapsed. In this case, shut down the equipment and check the following items. Then clear the problems and restart updating from the beginning.
- Is the downloading jig connected properly?
- Is the ROM attached to the downloading jig properly?
- Have the update data been written correctly to the ROM on the jig?
- Is the download jig or the equipment damaged?
- Is the harness jig for board connection connected to connector (CN2) of the IF board and the connector (CN4) of the finisher control PC board correctly?

(11) Press the [ON/OFF] button on the control panel to shut down the equipment and turn the power OFF using the main power switch.

(12) Remove the download jig and the harness jig for board connection from the finisher control PC board.
Notes:
Be sure to secure the connection cable in the connector (CN4) of the IF board when the hole punch unit (MJ-6103) has been installed.

(13) Install the board access cover.

(14) Remove the harness jig for board connection from the converter PC board.

(15) Install the converter PC board in the equipment.

(16) Install the rear cover of the equipment.

(17) Install the board access cover.

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[B]   Confirmation of the updated data
After the updating is completed, check each data version in Setting Mode (08) to confirm that the data were overwritten properly.

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11.5.13 Saddle stitcher firmware (MJ-1106)

[A] Update Procedure
(1) Install the ROM to the download jig.
Make sure the direction is correct.

(2) Turn OFF the power of the equipment.

(3) Open the front upper cover and then pull out the saddle stitch unit.

(4) Loosen 2 screws and open the saddle control PC board access cover [1].
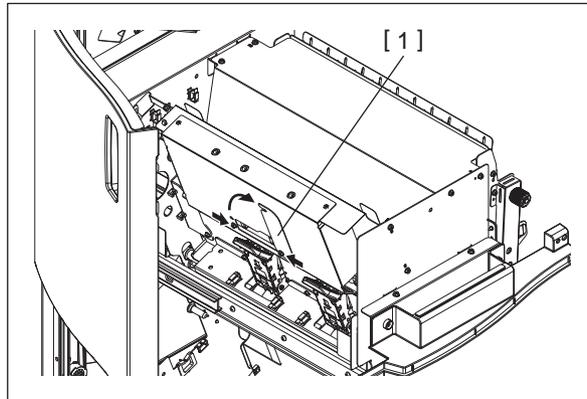
Fig.11-71

(5) Connect the download jig [1] with the jig connector (CN16) on the Saddle control board.
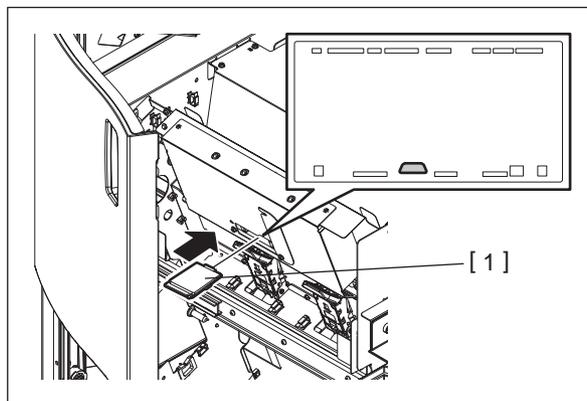
Fig.11-72

(6) Turn ON the power while pressing [0] and [8] simultaneously.
Updating starts and the LED on the download jig [1] lights.

(7) When the update completes normally, the LED on the download jig [1] starts blinking.
The LED on the download jig starts blinking in approx. 8 seconds after the update started.
It is assumed that the update is failed if the LED does not start blinking even after 15 seconds have elapsed.
In this case, turn the power OFF and check the following items.
Then, clear the problem and restart updating from the beginning.

• Is the downloading jig connected properly?
• Is the ROM attached to the downloading jig properly?
• Have the update data been written correctly to the ROM on the jig?

- Is the download jig or the equipment damaged?

(8)   Turn the power OFF and remove the download jig [1].

(9)   Install the saddle control PC board access cover.

(10) Set the saddle stitch unit back to the main unit and then close the upper front cover.

[B]   Confirmation of the updated data

After the updating is completed, check each data version in Setting Mode (08) to confirm that the data were overwritten properly.

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11.5.14 Fax unit firmware (GD-1250)

Important:
- Before updating the FAX ROM, make sure to print out the current Function list for maintenance, Function list (ADMIN), Address book list and Group number information. In case the updating is failed and the registered information of the users is lost for some reason, re-register the user information referring to the lists and recover it.
- Confirm the following items before turning OFF the power of the equipment. Turning OFF the power may clear the data below.
  - Confirm that the "MEMORY RX" LED is OFF and there are no memory reception data.
  - Print the "Mailbox/Relay box report" and then confirm that there are no F code data.
  - Press the [JOB STATUS] button to display the screen and then confirm that there are no memory transmission data.

[A] Firmware update

(1) Install the ROM to the download jig (K-PWA-DLM-320).
Make sure the direction is correct.

(2) Press the [ON/OFF] button on the control panel to shut down the equipment and turn the power OFF using the main power switch.

(3) Pull out the lower drawer of the equipment.

(4) Take off the cover.

Fig.11-73

(5) Take off the cover plate.

Cover plate
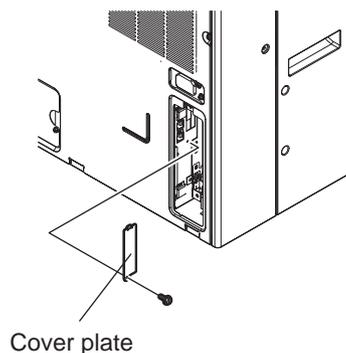
Fig.11-74

(6) Connect the download jig with the jig connector (CN602) on the FAX board.
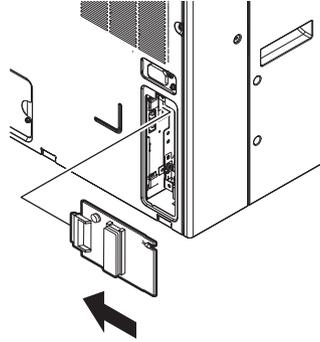
Fig.11-75

(7) Turn the power ON using the main power switch while simultaneously holding down the [0] and [8] buttons.
Updating starts automatically and the LED on the download jig lights.

(8) After the update is completed properly, the LED on the download jig blinks.
The LED starts blinking approx. 30 sec. after the update starts. It is assumed that the update has failed if it does not start blinking even though 1 min. has passed. In this case, shut down the equipment and check the following items. Then clear the problems and restart updating from the beginning.
- Is the download jig connected properly?
- Is the ROM installed to the download jig properly?
- Is the updating data written on the ROM of the download jig properly?
- Do the download jig and the equipment operate properly?

(9) Press the [ON/OFF] button on the control panel and turn the power OFF using the main power switch and remove the download jig. Install the cover plate.

(10) In the FAX Clearing Mode, perform the "FAX Set Up".
- Confirm the destination setting is correct in the Setting Mode (08).
  08-9000: Destination setting of the equipment
  08-9001: Destination setting of the FAX machine
- Turn the power ON using the main power switch while [1] button and [*] button are pressed simultaneously.
- Key in "100".
- Press the [START] button.

Notes:
If the equipment does not work properly after the operation (8), follow the procedure below and then perform the "Clearing the image data" in the FAX Clearing Mode to erase the image data in the memory.
- Confirm the destination setting is correct in the Setting Mode (08).
  08-9000: Destination setting of the equipment
  08-9001: Destination setting of the FAX machine
- Turn the power ON using the main power switch while [1] button and [*] button are pressed simultaneously.
- Key in "102".
- Press the [START] button.

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[B]   Confirmation of the updated data

After the updating is completed, check each data version in Setting Mode (08) to confirm that the data were overwritten properly.

📖 P. 11-81 "11.7 Confirmation of the updated data"

11.6 Firmware Updating with K-PWA-DLM-320F

The firmware of the option (FAX ROM) can be updated individually by using K-PWA-DLM-320F. Update the ROM data written on each board according to the need such as the case of replacing the board.

Options

Model name	Firmware	Stored	e-STUDIO 206L/256/ 306/356/ 456/506	e-STUDIO 207L/257/ 307/357/ 457/507
Fax Unit (GD-1250)	Fax unit firmware	FAX board	No	-
Fax Unit (GD-1350)			-	Yes

K-PWA-DLM-320F
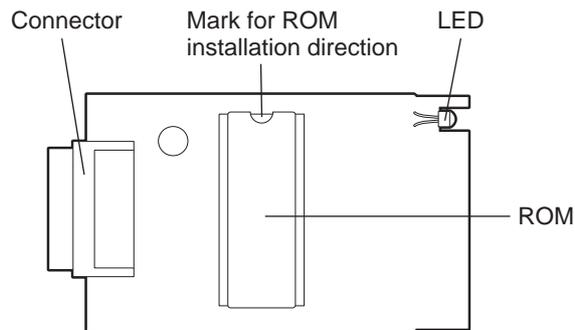
Fig.11-76 Jig board: K-PWA-DLM-320

Important:
   Pay attention to the direction of the ROM.

Remarks: Useable jigs
   Download jigs for this equipment are as follows:

No.	Type of jig	Remarks
1	K-PWA-DLM-320F	
2	K-PWA-DLM-320	Requires a relay board

*Jig No. 2 above can be used if a relay board is installed together even though the shape of its connector differs.
* Relay board: PWA-DWNLD-RELAY-34F

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11.6.1　Fax unit firmware (GD-1350)

Important:

- Before updating the FAX ROM, make sure to print out the current Function list for maintenance, Function list (ADMIN), Address book list and Group number information. In case the updating is failed and the registered information of the users is lost for some reason, re-register the user information referring to the lists and recover it.
- Confirm the following items before turning OFF the power of the equipment. Turning OFF the power may clear the data below.
  - Confirm that the "MEMORY RX" LED is OFF and there are no memory reception data.
  - Print the "Mailbox/Relay box report" and then confirm that there are no F code data.
  - Press the [JOB STATUS] button to display the screen and then confirm that there are no memory transmission data.

[A]　Firmware update

(1)　Install the ROM to the download jig (K-PWA-DLM-320F).
　　　Make sure the direction is correct.

(2)　Press the [ON/OFF] button on the control panel to shut down the equipment and turn the power OFF using the main power switch.

(3)　Pull out the lower drawer of the equipment.
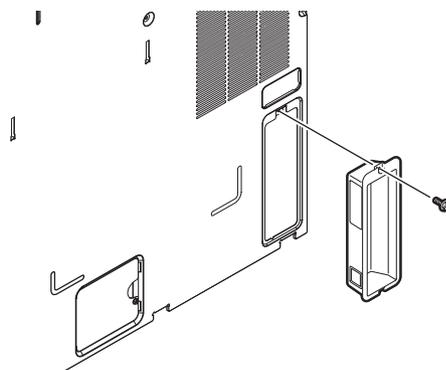
(4)　Take off the cover.

Fig.11-77

(5)　Take off the cover plate.

Cover plate
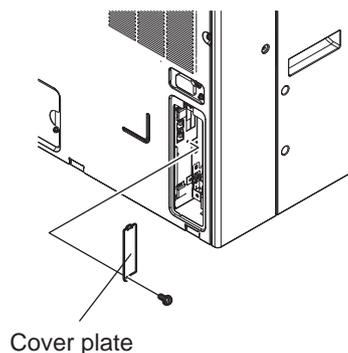
Fig.11-78

(6) Connect the download jig with the jig connector (CN602) on the FAX board.
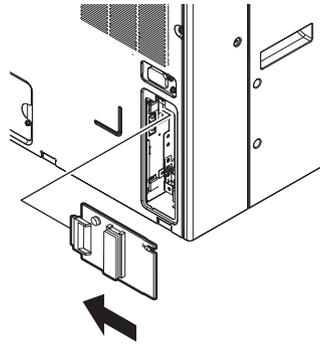
Fig.11-79

(7) Turn the power ON using the main power switch while simultaneously holding down the [0] and [8] buttons.
Updating starts automatically and the LED on the download jig lights.

(8) After the update is completed properly, the LED on the download jig blinks.
The LED starts blinking approx. 30 sec. after the update starts. It is assumed that the update has failed if it does not start blinking even though 1 min. has passed. In this case, shut down the equipment and check the following items. Then clear the problems and restart updating from the beginning.
*   Is the download jig connected properly?
*   Is the ROM installed to the download jig properly?
*   Is the updating data written on the ROM of the download jig properly?
*   Do the download jig and the equipment operate properly?

(9) Press the [ON/OFF] button on the control panel and turn the power OFF using the main power switch and remove the download jig. Install the cover plate.

(10) In the FAX Clearing Mode, perform the "FAX Set Up".
*   Confirm the destination setting is correct in the Setting Mode (08).
08-9000: Destination setting of the equipment
08-9001: Destination setting of the FAX machine
*   Turn the power ON using the main power switch while [1] button and [*] button are pressed simultaneously.
*   Key in "100".
*   Press the [START] button.

Notes:
If the equipment does not work properly after the operation (8), follow the procedure below and then perform the "Clearing the image data" in the FAX Clearing Mode to erase the image data in the memory.
*   Confirm the destination setting is correct in the Setting Mode (08).
08-9000: Destination setting of the equipment
08-9001: Destination setting of the FAX machine
*   Turn the power ON using the main power switch while [1] button and [*] button are pressed simultaneously.
*   Key in "102".
*   Press the [START] button.

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[B]   Confirmation of the updated data

After the updating is completed, check each data version in Setting Mode (08) to confirm that the data were overwritten properly.

📖 P. 11-81 "11.7 Confirmation of the updated data"

11.7 Confirmation of the updated data

After the updating is completed, check each data version in Setting Mode (08) to confirm that the data were overwritten properly.

Firmware	Code	Remarks
Updating Master data (HDD program data)	08-8952	HD data external version
	08-9900	System software version
Updating System ROM (OS data)	08-9930	System ROM version
Updating Engine ROM (Engine firmware)	08-9901	Engine ROM version
Updating Scanner ROM (Scanner firmware)	08-9902	Scanner ROM version
Updating RADF ROM (RADF firmware)	08-9903	RADF ROM version
Updating Finisher ROM	08-9904	Finisher ROM version
	08-9944	Hole punch unit ROM version
	08-9945	Converter board ROM version
Updating FAX ROM	08-9905	FAX ROM version

The installed ROM versions and the registered optional Electronic License Keys can be confirmed in the list print mode following the procedure below.

(1) Turn the power ON using the main power switch while pressing the digital key [9] and the [START] button simultaneously.
* When the equipment is already in the other setting mode, press the [ON/OFF] button on the control panel instead of using the main power switch.

(2) Key in "1" three times, and then press the [START] button.

(3) "VERSION LIST" is printed out.
* It is recommended to keep this list for future reinstallation such as the replacement of the SYS board.

(4) Keep pressing the [ON/OFF] button until you hear a sound to shut down the equipment.

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11.8 When Firmware Updating Fails

When the equipment was shut down during firmware updating or it could not be started after updating for some reason, perform firmware updating again following the procedure below.

11.8.1 Procedure

(1) Update "System ROM" of the system control PC board (SYS board) using the download jig. Updating with the USB media becomes possible only after the "System ROM" (OS data) has been updated.
See the updating procedure below for details.
📖 P. 11-34 "11.4 Firmware Updating with PWA-DWNLD-350-JIG1"

(2) Update "Master Data", "Engine ROM", "Scanner ROM" and "RADF ROM" using the USB media.
See the updating procedure below for details.
📖 P. 11-11 "11.2 Firmware Updating with USB Media"

(3) When the update with the USB media for "Engine ROM", "Scanner ROM" and "RADF ROM" failed, update these ROMs using the respective download jigs in the table below.

Firmware	Storage location	Download jig	e-STUDIO 206L/256/ 306/356/ 456/506	e-STUDIO 207L/257/ 307/357/ 457/507
Engine ROM	Logic PC board (LGC board)	PWA-DWNLD-350-JIG1 📖 P. 11-42 "11.4.3 Engine ROM"	Yes	Yes
Scanner ROM	Scanning section control PC board (SLG board)	K-PWA-DLM-320 📖 P. 11-46 "11.5.1 Scanner ROM (e-STUDIO206L/256/ 306/356/456/506 only)"	Yes	No
RADF ROM	DLG board	K-PWA-DLM-320 📖 P. 11-48 "11.5.2 RADF firmware (MR-3021/3022)"	Yes	No

Important:
If the equipment cannot be started even when the above update has been performed, check that there is no damage to the "SYS board", "LGC board", "SLG board" or "DLG board". Replace them if necessary.

11.8.2 Flow chart for correcting USB update failure

[A] When the update of the System ROM (OS data) failed
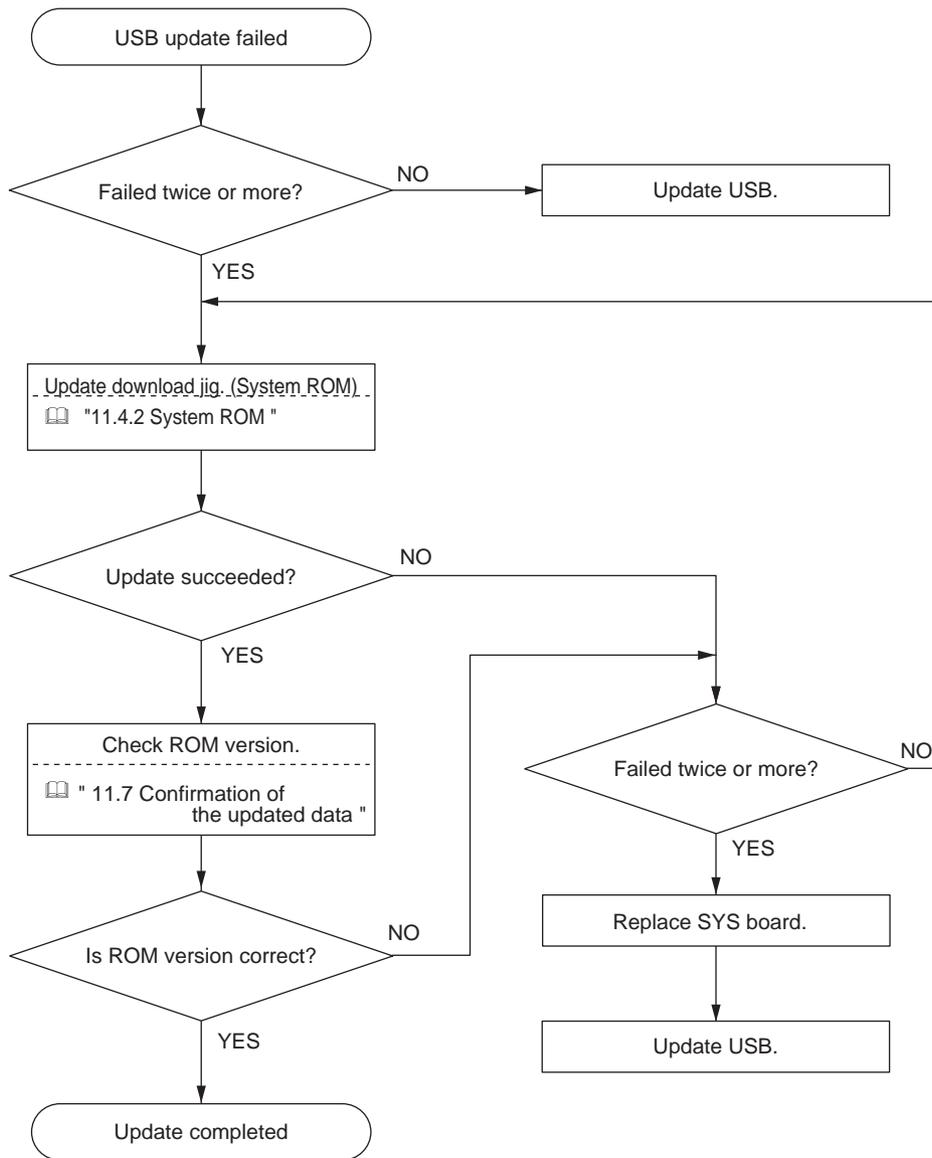
[B]   When the update of master data (HDD program data) failed

```
                        ┌──────────────────────────┐
                        │    USB update failed      │
                        └──────────────────────────┘
                                     │
                                     ▼
                              ◇ Failed twice ◇ ───── NO ───────▶ ┌──────────────────┐
                              ◇ or more?    ◇                     │   Update USB.    │
                                     │                            └──────────────────┘
                                    YES
                                     │
                                     ▼
                        ┌──────────────────────────┐
                        │ Check HDD harness         │
                        │ connection.               │
                        └──────────────────────────┘
                                     │
                                     ▼
                        ┌──────────────────────────┐
                        │      Update USB.          │
                        └──────────────────────────┘
                                     │
                                     ▼
                              ◇ Update    ◇ ──── NO ──────────────┐
                              ◇ succeeded?◇                        │
                                     │                             ▼
                                    YES                   ┌──────────────────┐
                                     │                    │   Replace HDD.   │
                                     │                    └──────────────────┘
                                     │                             │
                                     ▼                             ▼
                        ┌──────────────────────────┐     ┌──────────────────┐
                        │ Check HDD/ROM version.    │     │   Update USB.    │
                        │ - - - - - - - - - - - - - │     └──────────────────┘
                        │ 📖 " 11.7 Confirmation of │              │
                        │      the updated data "   │              ▼
                        └──────────────────────────┘     ◇ Update succeeded? ◇ ── YES
                                     │              YES ──◇                    ◇
                                     ▼                             │
                              ◇ Is HDD/ROM ◇ ─ NO                 NO
                              ◇ version    ◇                       │
                              ◇ correct?   ◇                       ▼
                                     │              ┌──────────────────────────┐
                                    YES             │   Replace SYS board.      │
                                     │              └──────────────────────────┘
                                     ▼                             │
                        ┌──────────────────────────┐              ▼
                        │   Update completed        │   ┌──────────────────┐
                        └──────────────────────────┘   │   Update USB.    │
                                                        └──────────────────┘
```
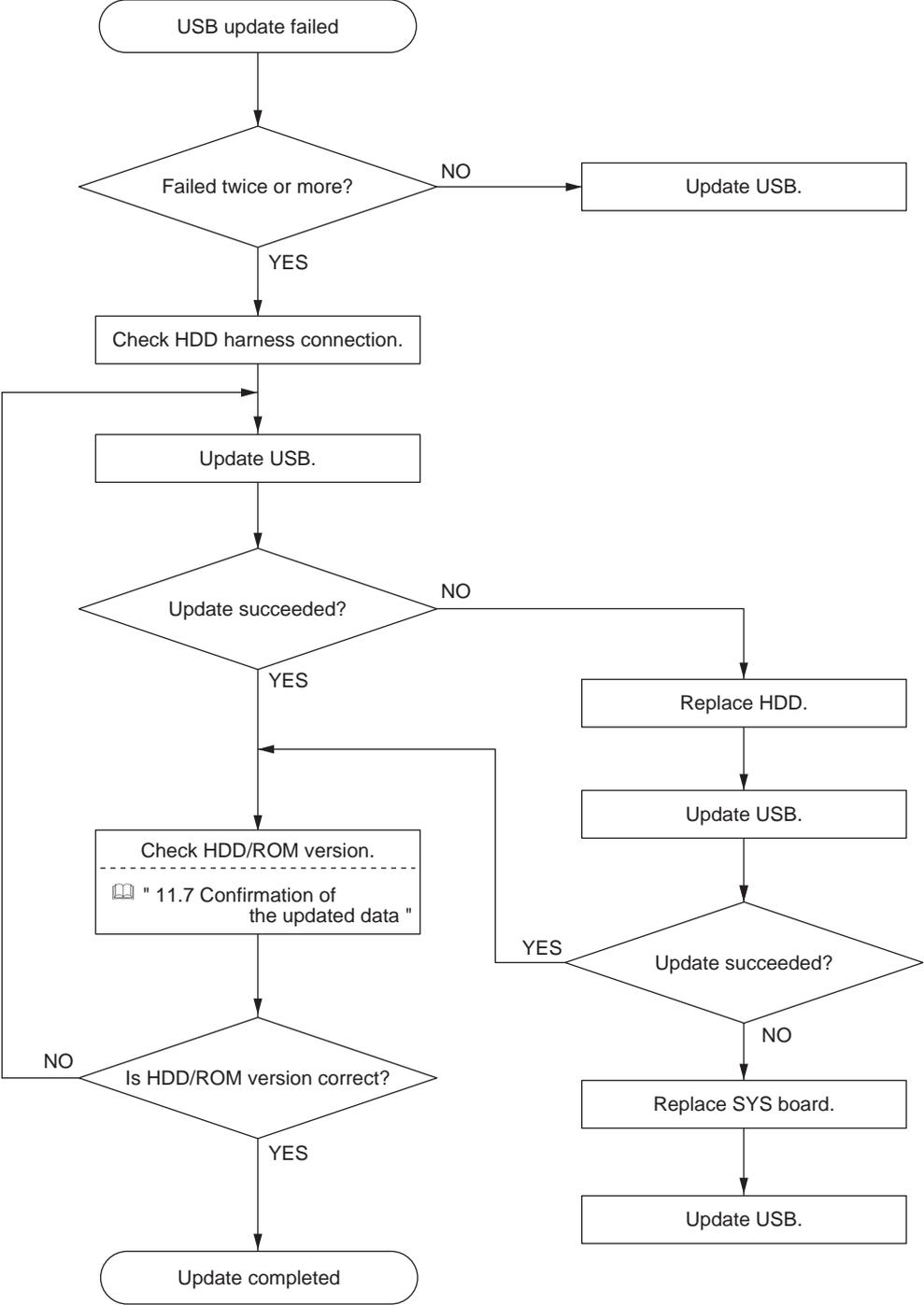
[C] When the update of engine ROM / Scanner ROM / RADF ROM failed

Flowchart:

USB update failed
↓
Failed twice or more? — NO → Update USB.
↓ YES

Clear [Update Error Flags].
- - - - - - - - - - - - - - - - - -
Assist Mode :
  Turn the power ON with [3] +
  [CLEAR] + [ON/OFF]
Clear flags.
  [1] -> [START]
↓

Update download jig.
- - - - - - - - - - - - - - - - - -
📖 " 11.4.3 Engine ROM "
📖 " 11.5.1 Scanner ROM "
📖 " 11.5.2 RADF ROM " *   *RADF: MR-3021/3022
↓

Update succeeded? — NO → **Failed twice or more?** — NO → **Check harness connection.** - - - - - - - SYS board <--> SYS board → (back to Update download jig.)
↓ YES   ↓ YES

Check ROM version.   **Replace target board.**
- - - - - - - - - - - - - - -   ↓
📖 " 11.7 Confirmation of   **Update download jig.**
       the updated data "
↓

Is ROM version correct? — NO → (to Failed twice or more?)
↓ YES

Update completed

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12. BACKUP FUNCTION

12.1 Data Cloning

12.1.1 General description

Data cloning is a function that backs up user data, setting data and SRAM data into a USB media and also restores these data into the equipment.
This function backs up or restores the data of the same equipment (same serial number), and is performed in the following cases.
  - When the SYS board and the SRAM board are replaced at the same time.
  - When the SRAM board is replaced.

12.1.2 Precautions

- When the ADI-HDD is initialized or replaced, back up the SRAM data afterwards.
- It is assumed that data cloning is to be performed when equipment is installed or options are installed. If the address book has been registered, do not perform restore. Registered / set data are lost.
- The USB media for the data cloning must meet the following conditions. A data cloning operation with any devices other than the following will not be guaranteed.
    - A combination USB media with a flash memory (to be connected directly to the USB port) and its capacity is 1GB or more.
    - A device compliant with the following specifications established by USB-IF (USB Implementers Forum)
      Class number: 8 (=08h)   (Mass storage class)
      Sub-Class number: 6 (=06h)   (SCSI transfer command set)
      Protocol number: 80 (=50h)   (Bulk-only)
    - Most of the common USB medias are compliant with the above specifications and are therefore applicable to this data cloning. However, most of these devices were originally developed to be used in an environment for PCs (e.g. Windows or Macintosh) and thus operations exclusively with this equipment have not been fully guaranteed. Therefore, the user must thoroughly check in advance whether there will be any problem in operating with this equipment when adopting one of these devices.
- The USB medias compliant with both USB 1.1 and USB 2.0 can be used for this data cloning.
- Data cloning with any storage devices other than a flash memory (e.g. USB-connectable memory card reader, CD/DVD drive, hard disk) will never be guaranteed. Therefore never use them for this operation.
- Be sure to unplug the LAN cable and Fax line before data are backed up / restored. Also, do not use the RADF and open the cover, drawer, etc. during the data cloning.
- Data can be backed up / restored only for the same model and version. If the version is different, update the firmware and back up / restore data in the same version.
- Restore data to equipment which has the same options as when the data are backed up.
- Delete the backed up data in the USB media after the data cloning.

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12.1.3 Backup files

The following files are saved in the root directory of the USB media by backing up.

Filename	Remark
Modelname_MFPSerialNo_yyyy-MM-dd_hh-mm	E.g.: When backup was performed at 13:59 on October 1st, 2010. T***_CUK911379_2010-10-01_13-59 (*** is model number.)

12.1.4 Cloning procedure

[A] Backup procedure

(1) Shut down the equipment.

(2) Connect the USB media [1] to the USB port [2] on the right upper cover.
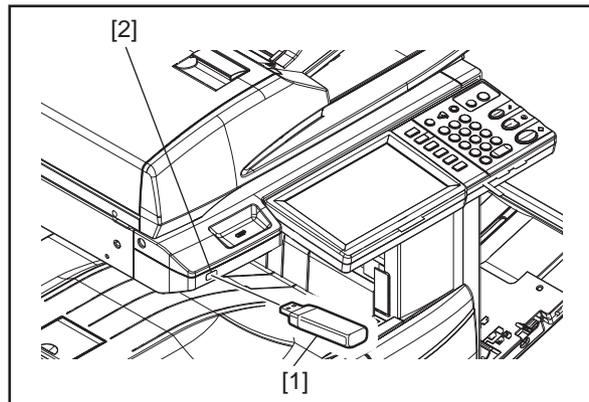
Fig.12-1

Notes:
Backing up cannot be performed with multiple USB media connected at the same time.

(3) Turn the power ON while pressing the [5] and [9] buttons simultaneously.

(4) Enter the password, and then press the [OK] button.
(If the password is not set for Service, press the [OK] button without entering anything.)

(5) Select "1. Backup SRAM Data to USB", and then press the [START] button.

(6) Enter a password (max. 15 characters) set for the backup data.

(7) "Backup Successfully done" is displayed on the LCD screen when the backup has been properly completed.

(8) Turn the power OFF after the backup is completed.

[B]   Restore procedure

(1)   Shut down the equipment.

(2)   Connect the USB media [1] to the USB port [2] on the right upper cover.
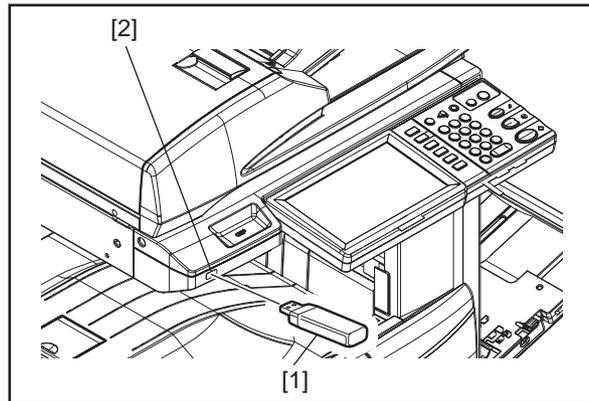
Fig.12-2

Notes:
 Restoring cannot be performed with multiple USB media connected at the same time.

(3)   Turn the power ON while pressing the [5] and [9] buttons simultaneously.

(4)   Enter the password, and then press the [OK] button.
 (If the password is not set for Service, press the [OK] button without entering anything.)

(5)   Select "2. Restore SRAM Data from USB", and then press the [START] button.

(6)   Enter a password (max. 15 characters) set for the backup data.

(7)   Enter the serial number of the backup file.

(8)   "Restore successfully done" is displayed on the LCD screen when the restoring has been properly completed.

(9)   Turn the power OFF after the restoring is completed.

Notes:
 To perform cloning with the SRAM data backed up before the ADI-HDD is initialized or replaced, follow the procedure below after the restoration is finished.
 1. Turn the power ON while pressing [3] and the [CLEAR] button simultaneously.
 2. Enter the password, and then press the [OK] button.
 (If no password is set for Service, press the [OK] button without entering anything.)
 3. Key in [5] to select "5. Key Backup Restore", and then press the [START] button.
 4. Key in [6] to select "6. ADIKey FROM to SRAM", and then press the [START] button.
 5. Wait until the restoring of the encryption key is completed. "Operation Complete" is displayed.
 6. Then turn the power OFF.

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BACKUP FUNCTION

[C] Confirmation of the error

"Backup Failed" is displayed on the lower left part of the LCD screen when the data have not been properly backed up or restored.

Moreover, details of an error are displayed under the above message.

(The following is an example screen when "USB device not detected" is displayed.)

Download Storage Firmware Update Mode	Firmware Version : x. x. x. x Update Mode : 59 Mode
Select number (1-2) and press START key → 1: Backup SRAM Data from USB	
Backup Failed USB device not detected	

Fig.12-3

In this case, turn the power OFF and then check the following items. After confirming and solving the problem, back up / restore the data again from the beginning.

- Does the USB media meet the conditions being used for this cloning?
- Is the updated program file written on the USB media properly?
- Is the USB media installed properly?
- Is the USB media or the equipment damaged?

Backup	
Display content	**Error content**
USB device not detected	The USB media has not been installed.
SRAM Device Not Connected	The SRAM board has not been installed.
Backup not created	Creation of the Backup file of data of the SRAM board has been failed.
Encryption Failed	An encryption of the backup file has been failed.
password Not Appended to Backup	Addition of the encryption password has been failed.
MFP Serial Number Not Set	Acquisition of the MFP Serial No. has been failed.

Restore	
Display content	**Error content**
USB device not detected	The USB media has not been installed.
SRAM Device Not Connected	The SRAM board has not been installed.
Invalid Backup File	The SYS board has not been recognized.
No Backup File Exists	Backup file has not existed in the USB media.
Invalid password	An incorrect password has been entered.
Decryption Failed	Decoding of the backup file has been failed.
Invalid MFP Serial Number: xxxxxxxxx	An incorrect MFP Serial No. has been entered.
MFP Serial Number Not Set	Acquisition of the MFP Serial No. has been failed.
Backup File Corrupted	A backup file has been damaged.

12.2 AES Data Encryption Function Setting

12.2.1 General description

Data encryption is a function that encrypts data in the HDD to enhance the security.
Note that this function may affect the equipment performance.

12.2.2 Precautions

When the data encryption function is set enabled, data currently stored in the HDD will not be retrieved. Therefore when data encryption function needs to be enabled after the installation of the equipment, it is necessary to back up the data in the HDD before setting this function and then recover them after the setting.

- To ensure security, ask the user (machine administrator) to back up or restore the user's data and information in the HDD. A service technician can back up or restore them only when the user (machine administrator) permits it.
- Some data in the HDD cannot be backed up and can be left only on printouts.

12.2.3 Setting procedure

A procedure for setting the data encryption function is shown below.

Start
↓
[A] Back up data in HDD
↓
[B] Print out "FUNCTION LIST FOR MAINTENANCE"
↓
[C] Print out "FUNCTION" list
↓
[D] Enable data encryption function
↓
[E] Reset user's setting item and restore data/information
↓
[F] Reset "FUNCTION LIST FOR MAINTENANCE"
↓
[G] Reset "FUNCTION" list
↓
[H] Check actuation of data encryption function setting
↓
Setting completed

Fig.12-4

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BACKUP FUNCTION

[A] Back up in HDD

Ask the user (machine administrator) to back up the data in the HDD. Refer to the table below for the type of data, availability and method of backup.

Type of data in HDD	Availability	Backup method
Image data in the e-Filing	Available	Archive them in the "e-Filing" of TopAccess. As for the backup in Box data, all data (selectable by the box) can be backed up / restored in one go by using "e-Filing Backup/Restore Utility".
F-code information, Template registration information, Address book data	Available	Back them up in the "Administrator" menu of TopAccess.
Department management data	Available	Export them in "Administrator" menu of TopAccess.
Log data (Print, Scan, FAX (Transmission/Reception)	Available	Export them in the "Administrator" menu of TopAccess. (Import cannot be performed.)
Data in the shared folder (Scanned data, Saved data of copy / FAX transmission)	Available	Copy them to the client computer via the network. (The data which have been copied to the client computer cannot be copied to the shared folder.)
Role information	Available	Export role information on the TopAccess menus. [User Management] tab > [User Confirm/Create/Modify] > [Role Information]
Print waiting data (Copying data and FAX reception data that are waiting to be printed due to the paper run-out and jam, etc.)	Not available	Finish printing them after the paper supply and the jam release, etc. (The data cannot be kept.)
Print job (Private print data, Schedule print data)	Not available	If any jobs are left, print them. (The data cannot be backed up.)
FAX saved data (Confidential / Bulletin board data)	Not available	Print them. (The data cannot be backed up.)
Registration data for FAX transmission (Delayed transmission / Recovery transmission)	Not available	Print them. (The data cannot be backed up.)

[B] Print out "FUNCTION LIST FOR MAINTENANCE"

(1) Enter the Service Mode.
    📖 P. 5-5 "5.2 Service UI"

(2) Select "FAX LIST PRINT MODE" and then press [NEXT].

(3) Select "Function list for Maintenance" and then press [PRINT].

[C] Print out "FUNCTION" list

(1) Press the [USER FUNCTIONS] button.

(2) Press the [ADMIN] button, enter the password, and then press the [OK] button.

(3) Press the [LIST/REPORT] button and then the [LIST] button.

(4) Press the [FUNCTION] button. The "FUNCTION" list is printed out.

Notes:

Explain the procedure to the user (machine administrator) and ask him/her to enter his/her password.

[D] Enable data encryption function

Perform the setting of the data encryption function in the code 08-9379. The setting values are shown below.

0: Encryption disabled
1: Encryption enabled (Security priority)
2: Encryption enabled (Performance priority)

Security priority: All user data are encrypted.
Performance priority: Encryption data are generated only in a copying or a printing process temporarily. All user data except files which are deleted in a corresponding process are encrypted.

[E] Reset user's setting items and restore data/information

Ask the user (machine administrator) to reset the user's setting items and to restore data or information. Refer to the following for the reset and restore:

Items to reset/restore	Method
Printer driver	Upload them in the "Administrator" menu of TopAccess.
F-code information, Template registering information, Address book data	Restore them in the "Administrator" menu of TopAccess.
Department management data	Import them in the "Administrator" menu of TopAccess.
Image data in the e-Filing	Restore them in the "e-Filing" of the TopAccess.
Role information	Import role information on the TopAccess menus. [User Management] tab > [User Confirm/Create/Modify] > [Role Information]

* When the SSL is enabled, perform the setting of the following items again with "Create self-certificate" of TopAccess.

Country Name
State or Province Name
Locality Name
Organization Name
Organizational Unit Name
Common Name
Email Address

* When wireless LAN is used, perform the setting again on the LCD panel. (only when security with a certificate is used)
Also, upload the following certificate file with "Install Certificate for Wireless LAN" of TopAccess.

CA certificate
User certificate

[F] Reset "FUNCTION LIST FOR MAINTENANCE"

(1) Print out the "FUNCTION LIST FOR MAINTENANCE" after the HDD formatting.
📖 P. 12-6 "[B] Print out "FUNCTION LIST FOR MAINTENANCE""

(2) While pressing [1] and [3] simultaneously, turn the power ON. (Function Mode)

(3) Compare the lists which were printed before and after the formatting to check the setting items having the different setting values. Set the value which was set before the formatting.

(4) Turn the power OFF.

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[G] Reset "FUNCTION" list

Reset the initial setting of the fax function by referring to the "function list" which has been printed out following the procedure below.

📖 P. 12-6 "[C] Print out "FUNCTION" list"

(1) Press the [USER FUNCTIONS] button.

(2) Press the [ADMIN] button, enter the password, and then press the [OK] button.

(3) Press the [FAX] button and then the [TERMINAL ID] button to set each item.

(4) Press the [INITIAL SETUP] button to set each item.

> **Notes:**
> Explain to the user (machine administrator) about the next operation and ask him/her to enter his/her password.

[H] Check actuation of data encryption function setting

Check if the data encryption function is in operation.

● Press the [COUNTER] button on the control panel. If a key-shaped icon is displayed at the top right of the screen, the data encryption function is in operation.
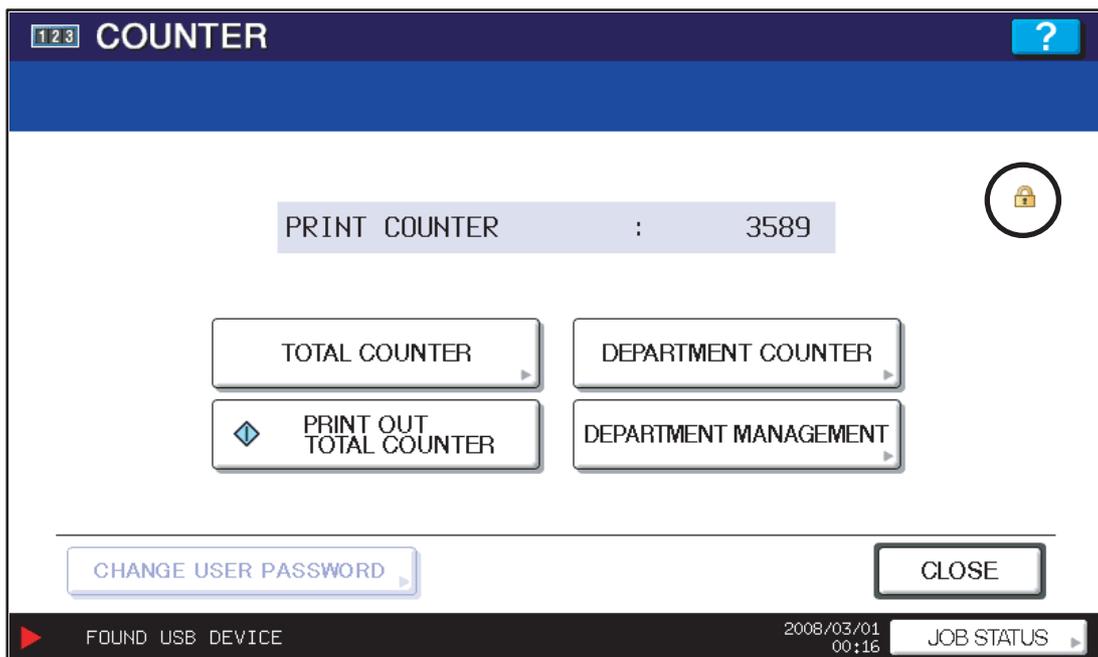
Fig.12-5

12.2.4 Procedure for disabling data encryption function

The basic setting procedure is the same as the one for enabling this function.
Set the value of 08-9379 to "0" (Invalid) in the following procedure.
📖 P. 12-7 "[D] Enable data encryption function"

12.2.5 Procedure for discarding HDD when data encryption function is enabled

Set the data encryption function disabled following the procedure shown in 📖 P. 12-8 "12.2.4 Procedure for disabling data encryption function" when perform the code 3C->6 : Erase HDD Securely (HDD securely erasing) to completely erase the data in the HDD.

12.3 High Security Mode

12.3.1 General description

The High Security Mode is a security mode complying with the IEEE2600.1 Security Standards Requirement. To have the equipment enter this mode, follow the procedure and the precautions below.

12.3.2 Prior confirmation

- Confirm that the administrator for the equipment is authorized and ask him/her to observe the installation.

- To have the equipment enter the High Security Mode, the Data Overwrite Enabler GP-1070 (optional) is required. Confirm that this option is installed in advance. Follow the Unpacking Instructions to install it.

- To avoid physical security problems, such as hardware removal or inappropriate disassembly at the installation site, take all necessary measures, such as checking who enters and leaves the site.

- Confirm that no received fax data or print jobs in progress exist. If there are any, be sure to print them all out before entering the High Security Mode.

- The HDD is initialized in the High Security Mode. Be sure first to back up user data such as documents, Address Book, templates or fax settings using the export function or the backup/restore utility of the TopAccess. Refer to items noted in 📖 P. 12-5 "12.2 AES Data Encryption Function Setting".

- Make a note of the settings on the Administration tab page of the TopAccess in advance.

- Compatibility of cloning data is lost between the High Security Mode and the normal mode; therefore, cloning data cannot be imported.

Downloaded from	Downloaded to	Compatibility of cloning data
Normal mode	Normal mode	Yes
Normal mode	High Security Mode	No
High Security Mode	Normal mode	No
High Security Mode	High Security Mode	Yes

12.3.3 Procedure for entering the High Security Mode

(1) Set the value of the code 08-8911 (Security mode level setting) to "3" (High). Then restart the equipment.

(2) A key-shaped icon appears at the bottom of the touch panel, indicating that it is now in the High Security Mode.

(3) Press [COUNTER] button on the control panel. If a key-shaped icon, indicating that the HDD data are being encrypted, a paper-shaped icon indicating that the Data Overwrite Enabler is operating normally and the version name of the installed system ROM (SYS V1.0) are displayed on the top right of the counter menu, this means the mode is operating normally.

(4) Reset the user data backed up in advance.

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12.3.4 Precautions

- In the High Security Mode, an integrity check system is operated at every restart. If F521 (integrity check error) is displayed, take the necessary measures following the troubleshooting procedure.

- When a self-diagnostic mode is started in the High Security Mode, an authentication screen appears. Enter the default user name and password as follows:
  Default user name: service
  Default password: #1048#

- If a password change screen appears, reset the password according to the rules below.
  - It must not include the user name.
  - It must be a combination of letters of the alphabet and numbers.
  - It must be 6 characters or more. (Maximum 64 characters)
  - The same character must not be repeated 4 times within the new password.
  - The old and the new passwords must not be the same.

- In the High Security Mode, restrictions are set to the following self-diagnostic codes:

Code	Contents
08-8910	The setting value is changed to "2". "0" is not settable.
08-8911	The setting value is changed to "3".
08-8924	The setting value is changed to "1". Values other than "1" are not settable.
08-9110	"0" is not settable.
08-9193	If "0" is set for the value, the setting will not comply with IEEE2600.1 Security Standards Requirement.
08-9379	The setting value is changed to "1".
08-9819	The setting value is changed to "1". If "0" is set for the value, the setting will not comply with IEEE2600.1 Security Standards Requirement.

- In the above case, the password is not reset. The password setting can be changed with the code 08-8919.

- The HDD is initialized (and the saved user data are deleted) when the equipment returns to the normal mode from the High Security Mode. Be sure to back up user data before having it do so.

- After the equipment enters the High Security Mode, ask the administrator for the equipment to select [FULL] and perform the Integrity check manually.

13. EXTERNAL COUNTERS

13.1   Outline

This specification describes the interface between external counters, such as Coin Controller and Card Counter.

13.2   Signal

13.2.1   Pin Layout

1. Connector on the LGC board: CN305 (Coin Controller / Card Controller)

Pin No.	I/O	Signal name	Function	Voltage level	Remarks	GQ-1180
A1	Power	+24VD1	24V line	DC24V±10%	When cover opened: OFF	In use
A2	Out	CTRON	Total Counter On Signal	Open Collector (M63830)	L: ON	In use
A3	In	KCTRC	Counter Connection Signal	L=0V, H=DC5V	L: Connected H: Not connected	-
A4	Out	MCRUN	Ready to Copy Signal	Open Collector (SN7407)	L: Operating H: Stop	In use
A5	Out	EXTCTR	Exit Sensor On Signal (Exit Counter On Signal)	Open Collector (SN7407)	L: ON	In use
A6	GND	PG	Power ground	0V		In use
A7	Out	CSTCTR	Drawer paper feed counter On signal (Front side of paper print counter)	Open Collector (SN7407)	L: ON	-
A8	Out	ADUCTR	ADU paper feed counter On signal (Back side of paper print counter)	Open Collector (SN7407)	L: ON	-
B1	Out	FLCTR	Color counter On signal (Unused)	Open Collector (SN7407)	L: ON	-
B2	GND	SG	Signal Ground	0V		-
B3	Out	TSIZE3	Paper size Signal	Open Collector (SN7407)	L: ON	-
B4	Out	TSIZE2	Paper size Signal	Open Collector (SN7407)	L: ON	-
B5	Out	TSIZE1	Paper size Signal	Open Collector (SN7407)	L: ON	-
B6	Out	TSIZE0	Paper size Signal	Open Collector (SN7407)	L: ON	-
B7	Power	+5VB	5V line	DC5.1V±5%	At the sleep mode: OFF	In use
B8	In-	CTRCNT2	Counter enabled signal	L=0V, H=DC5V	L: Enabled H: Disabled	In use

*   FLCTR signal is exclusively for color copy and not provided for this equipment.

2. Connector on the SYS board: CN133 (Coin Controller)

Pin No.	I/O	Signal name	Function	Voltage level	Remarks
1	Out	L/S	Paper size (Large/Small) signal	Open Drain (LCX07)	L: Large size H: Small size
2	Out	FULL-C	Full color Counter On Signal (Unused)	Open Drain (LCX07)	L: Full color
3	Out	MONO-C	Mono color counter On signal (Unused)	Open Drain (LCX07)	L: Mono colors
4	Out	B/W	Black counter On signal (Unused)	Open Drain (LCX07)	L: Black
5	-	N.C.	-	-	-
6	GND	GND	Signal Ground	0V	
7	-	N.C.	-	-	-

* FULL-C, MONO-C and B/W signals are exclusively for color copy and not provided for this equipment.

3. Counter on the LGC board: CN306 (Key Counter)

Pin No.	I/O	Signal name	Function	Voltage level	Remarks
1	GND	SG	Signal Ground	0V	
2	In	KCTRC	Key Counter Connection Signal	L=0V, H=DC5V	L: Connected H: Not connected
3	Power	+24VD1	24V line	DC24V±10%	When cover opened: OFF
4	Out	KCTRO	Key Counter On Signal	Open Collector (M63830)	L: ON

13.2.2　Details of the signals

1. CTRON signal and KCTRO signal (output signals)
   The TOLON signal is a count signal synchronized with an electronic counter for the equipment. This signal is turned to a low level (ON) every time the counter counts up.
   This output signal also drives each mechanical counter directly.
   If "1" or "2" is set for the setting code 08-6010 (counter setting for large-sized paper), a sheet of large-sized paper is counted as two sheets only when the KCTRO signal is turned to a low level. The CTRON signal, which is output from the LGC board, is used for both copy key cards and coin controllers. The KCTRO signal also output from the LGC board is for key copy counters.

2. KCTRC signal (input signals)
   This signal is a connection signal that detects whether each counter is installed or not. The counter is installed when this signal is at a low level. When this signal is at a high level, copying with the counter is disabled.
   This signal is used only for key copy counters.

3. MCRUN signal (output signal)
   This signal is turned to a low level while the equipment performs copying.
   When copying is interrupted due to forcible toner supply or another reason, however, this signal remains at a high level until the equipment becomes ready for copying again.
   This signal, which is output from the LGC board, is used for both copy key cards and coin controllers.

4. EXTCTR signal (output signal)
   This signal is turned ON, since it is synchronized with the turning OFF of the exit sensor.
   A coin controller counts up the degree of usage of copy cards by means of this signal.
   This signal, which is output from the LGC board is used only for coin controllers.

5. CSTCTR signal, ADUCTR signal (output signal)
   The CSTCTR signal is turned to a low level (ON), since it is synchronized with the CTRON signal when paper is fed from a drawer or the bypass tray. This signal is for counting print jobs for the front side of the paper.
   The ADUCTR signal is turned to a low level (ON), since it is synchronized with the CTRON signal when paper is fed from the ADU. This signal is for counting print jobs for the back side of the paper.
   This signal, which is output from the LGC board, is used only for copy key cards.

6. TSIZE3, 2, 1, 0 signal
   These four signals are output in combination corresponding to the size of the copy paper.
   This signal, which is output from the LGC board, is used only for copy key cards.

7. CTRCNT2 signal (input signal)
   This signal enables copying with each counter. Copying is enabled when this signal is at a low level. Copying is disabled when it is at a high level.
   This signal is used for both copy key cards and coin controllers.

8. L/S signal (output signal)
   This signal is turned to a low level immediately when large-sized paper is selected or when the paper size is not specified for bypass feeding. The signal is at a high level in other cases.
   The definition of large-sized paper can be set in the setting code 08-6011.
   This signal is used only for coin controllers.

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13.3 Notices

13.3.1 Setting code

Each signal will be enabled by configuring the setting code "08-9016" (Counter installed externally).

08-9016
0: No external counter (Default)
1: Coin controller
2: Card controller (For Japan only)
3: Key copy counter
5: Coin controller supporting ACS/mixed-size

13.3.2 Setting value change and restrictions when using the Card controller

1. Setting value
   - 08-9016 (Counter installed externally): Set to "2" (Card controller).
   - 08-9017 (Setting for counter installed externally): It should be charged precisely according to the usage.
     Example: To charge only when copies are made, set to "1".

2. Restrictions
   - 08-6010 (Large size double count setting): Set to "0" (Single count).

13.3.3 Setting value change and restrictions when using the coin controller

1. Setting value
   - 08-9016 (Counter installed externally): Set to "1" (Coin controller).
   - 08-9017 (Setting for counter installed externally): It should be charged precisely according to the usage.
     Example: To charge only when copies are made, set to "1".

2. Restrictions
   For 08-6011 (Large size double count setting), set to "0" when A3 and LD are specified as the large size, and set to "1" when B4, LG, FOLIO, COMP and 8K are specified as the large size in addition to A3 and LD.

13.3.4 Setting value change and restrictions when using the key counter

1. Setting value
   - 08-9016 (Counter installed externally): Set to "3" (key counter)
   - 08-9017(Setting for counter installed externally): It should be charged precisely according to the usage.
     Example: To charge only when copies are made, set to "1".

2. Restrictions
   - 08-6010 (Large size double count setting): Set to "0" (Single count).
   - For 08-6011 (Large size double count setting), set to "0" when A3 and LD are specified as the large size, and set to "1" when B4, LG, FOLIO, COMP and 8K are specified as the large size in addition to A3 and LD.

13.3.5 Installation of External Counter

It is not allowed to install more than one external counter (Key Counter, Card controller and Coin controller) at the same time. Physically, the card controller and coin controller cannot be installed together since the output signals are in common.

14. WIRE HARNESS CONNECTION DIAGRAMS

14.1 AC Wire Harness <e-STUDIO206L/256/306/356/456/506>
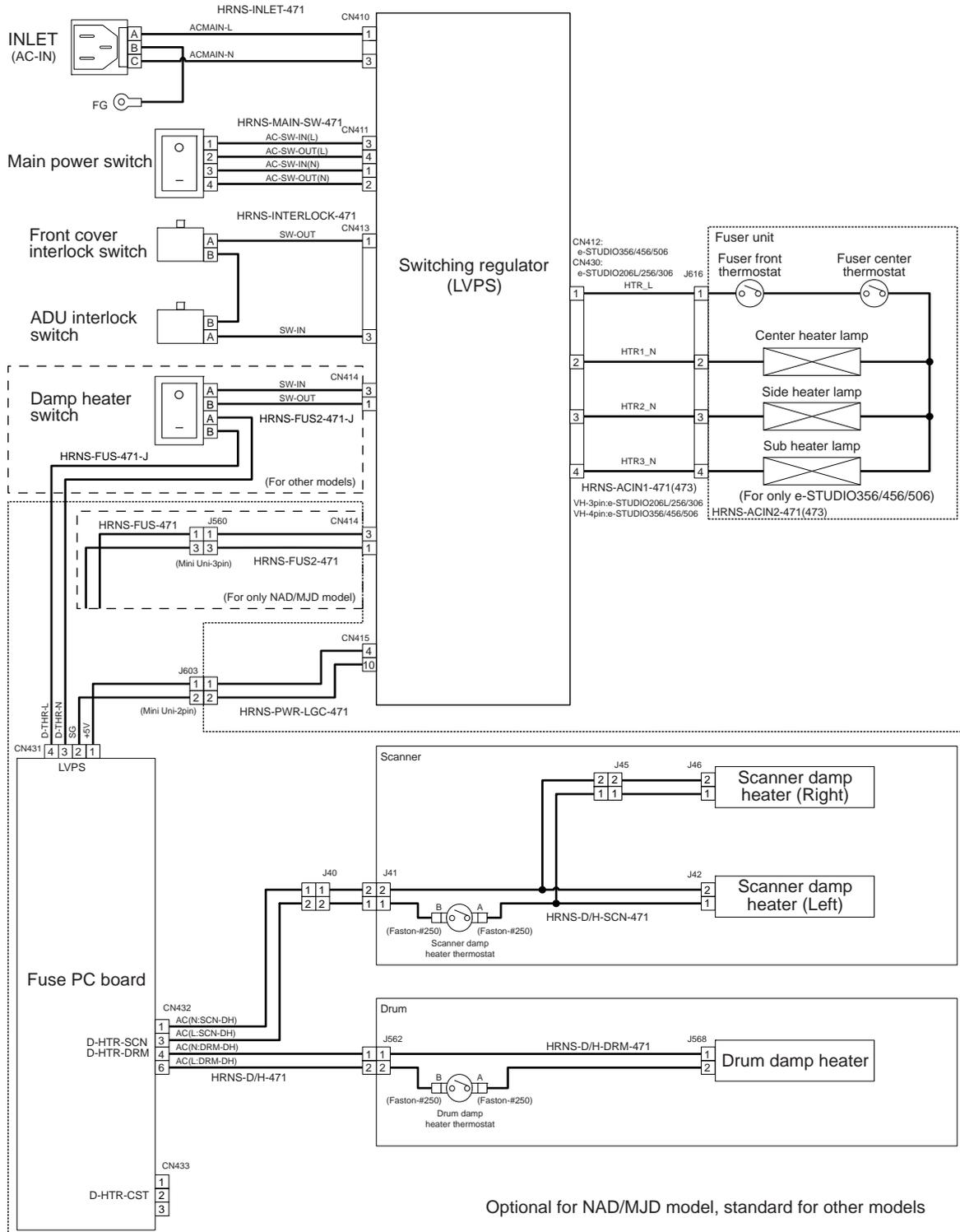
Fig.14-1

14.2 AC Wire Harness <e-STUDIO207L/257/307/357/457/507>
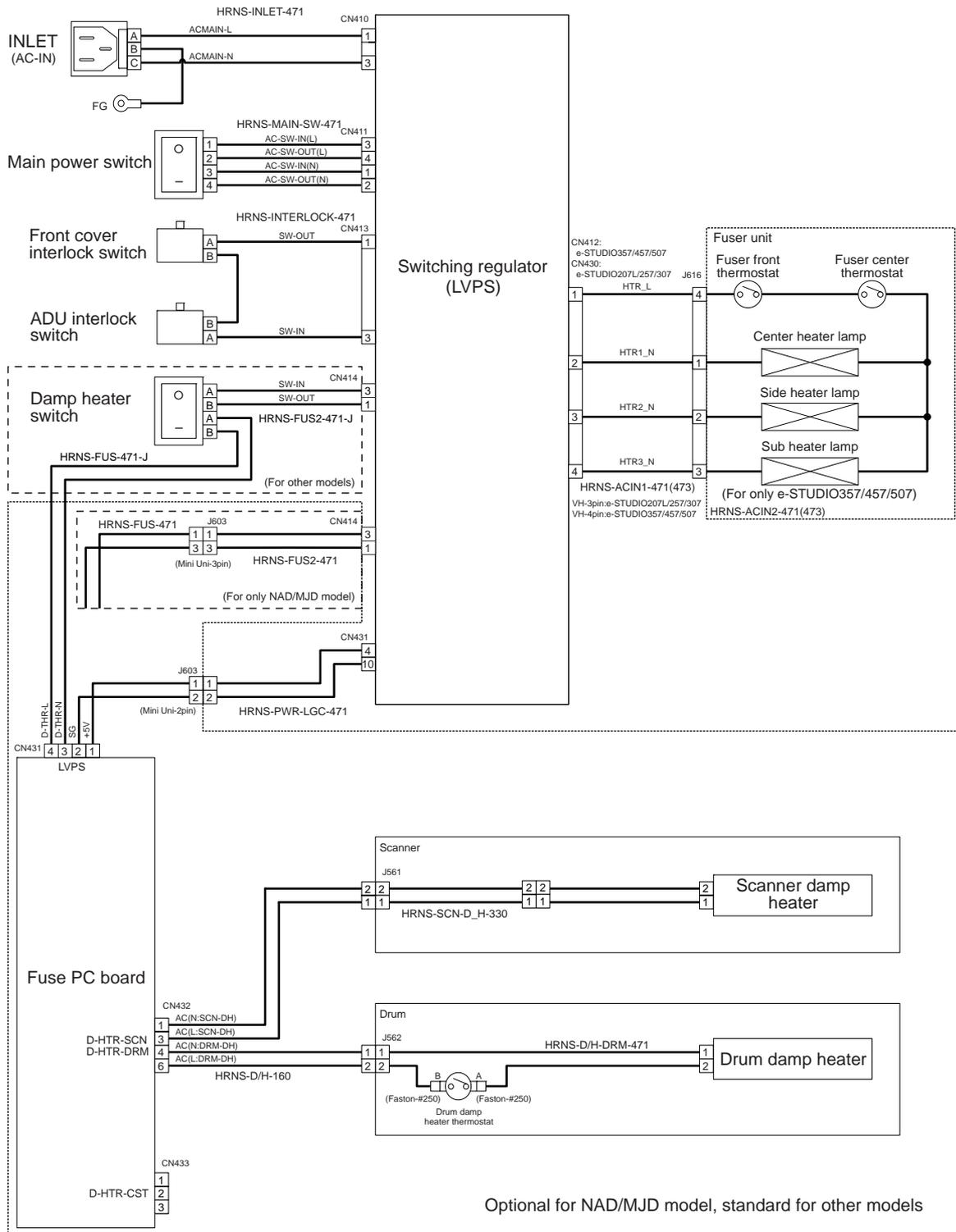
Fig.14-2

14.4 Electric Parts Layout (e-STUDIO206L/256/306)

[A] Scanner unit, control panel

Labels: M1, S5, S4, CCD, SLG, DH2, INV / LEDB, S3, S1, S2, S7, KEY, EXP, TCP, S8, DH1, THMO4, DSP

[B] Power supply, developer unit

Labels: ERS, S6, SW3, THMO3, M2, THMS4, HVPS, SW2, LVPS, EPU, DH3, SW1

[C] Laser unit, fuser unit, toner cartridge

Labels: THMS2, THMO1, S9, THMS3, THMS1, THMO2, M4, LAMP3, CTIF, LAMP1, CTRG, LAMP2, SNS, LDR, M3, SW4

[D] Drive unit

Labels: SYS, HDD, MOT, M6, LGC, M5, M8, S25, M7, FUS

[E] Automatic duplexing unit, transfer unit, exit unit

Labels: SW5, S11, M10, M9, CLT1, CLT2, S21, S22, S10

[F] Bypass feed unit

Labels: CLT3, SFB, S12

[G] Drawer unit

Labels: CLT4, CLT6, CLT7, S13, S14, M11, CLT5, S15, S16, M12, S17, S18, SW6, S19, SW7, S20

Motors

Symbol	Name	Figure	Wire harness location
M1	SCAN-MOT Scan motor	[A]	4-F
M2	PU-FAN Process unit fan	[B]	8-C
M3	POL-MOT Polygonal motor	[C]	7-E
M4	TNR-MOT Toner motor	[C]	7-E
M5	ADU-MOT ADU motor	[D]	6-B
M6	SYS-FAN-MOT SYS/HDD cooling fan	[D]	-
M7	POW-FAN Switching regulator cooling fan	[D]	8-C
M8	MAIN-MOT Main motor	[D]	7-E
M9	TRU-FAN TRU fan	[E]	7-B
M10	EXIT-MOT Exit motor	[E]	6-B
M11	TRAY-U-MOT Upper tray-up motor	[G]	8-A
M12	TRAY-L-MOT Lower tray-up motor	[G]	8-A

Sensors and switches

Symbol	Name	Figure	Wire harness location
S1-5	APS1-3, APS-C, APS-R Automatic original detection sensor	[A]	4-E
S6	HOME-SNR Carriage home position sensor	[A]	4-F
S7	PLTN-SNR Platen sensor	[A]	4-F
S8	ATTNR-SNR Auto-toner sensor	[B]	7-C
S9	EXIT-SW Exit sensor	[C]	8-E
S10	ADU-TR1-SNR ADU exit sensor	[E]	7-A
S11	ADU-TR2-SNR ADU entrance sensor	[E]	7-A
S12	SFB-EMP-SNR Bypass paper sensor	[F]	7-B
S13	FEED-COV-SNR Feed cover opening/closing sensor	[G]	6-E
S14	2ND-FEED-SNR 2nd transport sensor	[G]	8-B
S15	NEAR-EMP-U-SNR Upper drawer paper stock sensor	[G]	8-D
S16	TOP-U-SNR Upper drawer tray-up sensor	[G]	8-C
S17	EMP-U-SNR Upper drawer empty sensor	[G]	8-C
S18	NEAR-EMP-L-SNR Lower drawer paper stock sensor	[G]	8-D
S19	TOP-L-SNR Lower drawer tray-up sensor	[G]	8-D
S20	EMP-L-SNR Lower drawer empty sensor	[G]	8-D
S21	1ST-FEED-SNR 1st transport sensor	[E]	8-B
S22	RGST-SNR Registration sensor	[E]	8-B
S25	TEMP/HUMI-SNR Temperature/humidity sensor	[D]	8-C
SW1	MAIN-SW Main power switch	[B]	-
SW2	FRNT-COV-INTLCK-SW Front cover interlock switch	[B]	-
SW3	ADU-INTLCK-SW ADU interlock switch	[B]	-
SW4	FRONT-COV-SW Front cover switch	[C]	6-C
SW5	ADU-COV-SW ADU opening/closing switch	[E]	7-B
SW6	CST-U-SW Upper drawer detection switch	[G]	8-D
SW7	CST-L-SW Lower drawer detection switch	[G]	8-E

Electromagnetic clutches

Symbol	Name	Figure	Wire harness location
CLT1	ADU-CLT ADU clutch	[E]	7-A
CLT2	RGST-CLT Registration roller clutch	[E]	8-A
CLT3	SFB-CLT Bypass feed clutch	[F]	7-B
CLT4	CST-U-FEED-CLT Upper drawer feed clutch	[G]	8-C
CLT5	CST-L-FEED-CLT Lower drawer feed clutch	[G]	8-D
CLT6	TR-U-CLT High speed transport clutch	[G]	-
CLT7	TR-M-CLT Low speed transport clutch	[G]	-

PC boards

Symbol	Name	Figure	Wire harness location
CCD	PWA-F-CCD CCD driving PC board (CCD board)	[A]	3-G
CTIF	PWA-F-CTIF Toner cartridge interface PC board (CTIF board)	[C]	7-E
CTRG	PWA-F-CTRG Toner cartridge PC board (CTRG board)	[C]	-
DSP	PWA-F-DSP Display PC board (DSP board)	[A]	1-G
EPU	PWB-F-EPU EPU board	[B]	7-C
FUS	PWA-F-FUS Fuse PC board (FUS board)	[D]	5-H
KEY	PWA-F-KEY Key control PC board (KEY board)	[A]	1-H
LDR	PWA-F-LDR Laser driving PC board (LDR board)	[C]	7-D
LGC	PWA-F-LGC Logic PC board (LGC board)	[D]	7-A
MOT	PWB-F-MOT MOT board	[D]	5-C
SFB	PWA-F-SFB Paper size detection board	[F]	7-B
SLG	PWA-F-SLG Scanning section control PC board (SLG board)	[A]	4-F
SNS	PWA-F-SNS H-sync signal detection PC board (SNS board)	[C]	7-D
SYS	PWA-F-SYS System control PC board (SYS board)	[D]	2-D

Lamps and heaters

Symbol	Name	Figure	Wire harness location
DH1	SCN-L-DH Scanner damp heater (Left)	[A]	-
DH2	SCN-R-DH Scanner damp heater (Right)	[A]	-
DH3	DRM-DH Drum damp heater	[B]	-
ERS	LP-ERS Discharge LED	[B]	-
EXP	LP-EXPO Exposure lamp	[A]	4-G
LAMP1	CNTR-LAMP Center heater lamp	[C]	-
LAMP2	SIDE-LAMP Side heater lamp	[C]	-

Thermistors and thermostats

Symbol	Name	Figure	Wire harness location
THMO1	THERMO-FSR-C Fuser center thermostat	[C]	-
THMO2	THERMO-FSR-F Fuser front thermostat	[C]	-
THMO3	THERMO-DRM-DH Drum damp heater thermostat	[B]	-
THMO4	THERMO-SCN-DH Scanner damp heater thermostat	[A]	-
THMS1	THMS-C-HTR Center thermistor	[C]	8-E
THMS2	THMS-S-HTR Side thermistor	[C]	-
THMS3	THMS-EDG-HTR Edge thermistor	[C]	8-F
THMS4	THMS-DRM Drum thermistor	[B]	7-C

Transformer

Symbol	Name	Figure	Wire harness location
HVT	PS-HVT High-voltage transformer	[B]	-

Others

Symbol	Name	Figure	Wire harness location
TCP	TCP Touch panel	[A]	1-G
HDD	HDD Hard disk	[D]	3-F
INV	INV-EXP Inverter board	[A]	4-G
LVPS	PS-ACC Switching regulator (LVPS board)	[B]	5-H
LEDB	PWA-LED LED board	[A]	4-G

14.6 Electric Parts Layout (e-STUDIO356/456/506)

[A] Scanner unit, control panel

[B] Power supply, developer unit

[C] Laser unit, fuser unit, toner cartridge

[D] Drive unit

[E] Automatic duplexing unit, transfer unit, exit unit

[F] Bypass feed unit

[G] Drawer unit

Motors

Symbol	Name	Figure	Wire harness location
M1	SCAN-MOT Scan motor	[A]	4-F
M2	PU-FAN Process unit fan	[B]	8-C
M3	POL-MOT Polygonal motor	[C]	7-E
M4	TNR-MOT Toner motor	[C]	7-E
M5	ADU-MOT ADU motor	[D]	5-C
M6	SYS-FAN-MOT SYS/HDD cooling fan	[D]	-
M7	POW-FAN Switching regulator cooling fan	[D]	8-C
M8	MAIN-MOT Main motor	[D]	7-E
M9	TRU-FAN TRU fan	[E]	7-B
M10	EXIT-MOT Exit motor	[E]	6-C
M11	TRAY-U-MOT Upper tray-up motor	[G]	8-A
M12	TRAY-L-MOT Lower tray-up motor	[G]	8-A
M13	OCT-GT-MOT offset gate motor	[E]	6-D
M14	REV-MOT Reverse motor	[E]	6-D

Sensors and switches

Symbol	Name	Figure	Wire harness location
S1-5	APS1-3, APS-C, APS-R Automatic original detection sensor	[A]	4-E
S6	HOME-SNR Carriage home position sensor	[A]	4-F
S7	PLTN-SNR Platen sensor	[A]	4-F
S8	ATTNR-SNR Auto-toner sensor	[B]	7-C
S9	EXIT-SW Exit sensor	[C]	8-E
S10	ADU-TR1-SNR ADU exit sensor	[E]	7-A
S11	ADU-TR2-SNR ADU entrance sensor	[E]	7-A
S12	SFB-EMP-SNR Bypass paper sensor	[F]	7-B
S13	FEED-COV-SNR Feed cover opening/closing sensor	[G]	6-E
S14	2ND-FEED-SNR 2nd transport sensor	[G]	8-B
S15	NEAR-EMP-U-SNR Upper drawer paper stock sensor	[G]	8-D
S16	TOP-U-SNR Upper drawer tray-up sensor	[G]	8-C
S17	EMP-U-SNR Upper drawer empty sensor	[G]	8-C
S18	NEAR-EMP-L-SNR Lower drawer paper stock sensor	[G]	8-D
S19	TOP-L-SNR Lower drawer tray-up sensor	[G]	8-D
S20	EMP-L-SNR Lower drawer empty sensor	[G]	8-D
S21	1ST-FEED-SNR 1st transport sensor	[E]	8-B
S22	RGST-SNR Registration sensor	[E]	8-B
S23	REV-SNR REV sensor	[E]	6-D
S24	OCT-HOME-SNR OCT home position sensor	[E]	6-D
S25	TEMP/HUMI-SNR Temperature/humidity sensor	[D]	8-C
SW1	MAIN-SW Main power switch	[B]	-
SW2	FRNT-COV-INTLCK-SW Front cover interlock switch	[B]	-
SW3	ADU-INTLCK-SW ADU interlock switch	[B]	-
SW4	FRONT-COV-SW Front cover switch	[C]	6-C
SW5	ADU-COV-SW ADU opening/closing switch	[E]	7-B
SW6	CST-U-SW Upper drawer detection switch	[G]	8-D
SW7	CST-L-SW Lower drawer detection switch	[G]	8-E

Electromagnetic clutches

Symbol	Name	Figure	Wire harness location
CLT1	ADU-CLT ADU clutch	[E]	7-A
CLT2	RGST-CLT Registration roller clutch	[E]	6-A
CLT3	SFB-CLT Bypass feed clutch	[F]	7-B
CLT4	CST-U-FEED-CLT Upper drawer feed clutch	[G]	8-C
CLT5	CST-L-FEED-CLT Lower drawer feed clutch	[G]	8-D
CLT6	TR-U-CLT High speed transport clutch	[G]	-
CLT7	TR-M-CLT Low speed transport clutch	[G]	-

Solenoids

Symbol	Name	Figure	Wire harness location
SOL1	REV-SOL REV gate solenoid	[E]	8-D

PC boards

Symbol	Name	Figure	Wire harness location
CCD	PWA-F-CCD CCD driving PC board (CCD board)	[A]	3-G
CTIF	PWA-F-CTIF Toner cartridge interface PC board (CTIF board)	[C]	7-E
CTRG	PWA-F-CTRG Toner cartridge PC board (CTRG board)	[C]	-
DSP	PWA-F-DSP Display PC board (DSP board)	[A]	1-G
EPU	PWB-F-EPU EPU board	[B]	7-C
FUS	PWA-F-FUS Fuse PC board (FUS board)	[D]	5-H
KEY	PWA-F-KEY Key control PC board (KEY board)	[A]	1-H
LDR	PWA-F-LDR Laser driving PC board (LDR board)	[C]	7-D
LGC	PWA-F-LGC Logic PC board (LGC board)	[D]	7-A
MOT2	PWB-F-MOT2 MOT2 board	[D]	5-C
SFB	PWA-F-SFB Paper size detection board	[F]	7-B
SLG	PWA-F-SLG Scanning section control PC board (SLG board)	[A]	4-F
SNS	PWA-F-SNS H-sync signal detection PC board (SNS board)	[C]	7-D
SYS	PWA-F-SYS System control PC board (SYS board)	[D]	2-D

Lamps and heaters

Symbol	Name	Figure	Wire harness location
DH1	SCN-L-DH Scanner damp heater (Left)	[A]	-
DH2	SCN-R-DH Scanner damp heater (Right)	[A]	-
DH3	DRM-DH Drum damp heater	[B]	-
ERS	LP-ERS Discharge LED	[B]	-
EXP	LP-EXPO Exposure lamp	[A]	4-G
LAMP1	CNTR-LAMP Center heater lamp	[C]	-
LAMP2	SIDE-LAMP Side heater lamp	[C]	-
LAMP3	LAMP-TRIPLE Sub heater lamp	[C]	-

Thermistors and thermostats

Symbol	Name	Figure	Wire harness location
THMO1	THERMO-FSR-C Fuser center thermostat	[C]	-
THMO2	THERMO-FSR-F Fuser front thermostat	[C]	-
THMO3	THERMO-DRM-DH Drum damp heater thermostat	[B]	-
THMO4	THERMO-SCN-DH Scanner damp heater thermostat	[A]	-
THMS1	THMS-C-HTR Center thermistor	[C]	8-E
THMS2	THMS-S-HTR Side thermistor	[C]	-
THMS3	THMS-EDG-HTR Edge thermistor	[C]	8-F
THMS4	THMS-DRM Drum thermistor	[B]	7-C

Transformer

Symbol	Name	Figure	Wire harness location
HVT	PS-HVT High-voltage transformer	[B]	-

Others

Symbol	Name	Figure	Wire harness location
TCP	TCP Touch panel	[A]	1-G
HDD	HDD Hard disk	[D]	3-F
INV	INV-EXP Inverter board	[A]	4-G
LVPS	PS-ACC Switching regulator (LVPS board)	[B]	5-H
LEDB	PWA-LED LED board	[A]	4-G

[A] Scanner unit, control panel

[B] Power supply, developer unit

[C] Laser unit, fuser unit, toner cartridge

[D] Drive unit

[E] Automatic duplexing unit, transfer unit, exit unit

[F] Bypass feed unit

[G] Drawer unit

Motors

Symbol	Name	Figure	Wire harness location
M1	SCAN-MOT Scan motor	[A]	4-F
M2	PU-FAN Process unit fan	[B]	8-C
M3	POL-MOT Polygonal motor	[C]	7-E
M4	TNR-MOT Toner motor	[C]	7-E
M5	ADU-MOT ADU motor	[D]	6-B
M6	SYS-FAN-MOT SYS/HDD cooling fan	[D]	-
M7	POW-FAN Switching regulator cooling fan	[D]	8-C
M8	MAIN-MOT Main motor	[D]	7-E
M9	TRU-FAN TRU fan	[E]	7-B
M10	EXIT-MOT Exit motor	[E]	6-B
M11	TRAY-U-MOT Upper tray-up motor	[G]	8-A
M12	TRAY-L-MOT Lower tray-up motor	[G]	8-A

Sensors and switches

Symbol	Name	Figure	Wire harness location
S1-5	APS1-3, APS-C, APS-R Automatic original detection sensor	[A]	4-E
S6	HOME-SNR Carriage home position sensor	[A]	4-F
S7	PLTN-SNR Platen sensor	[A]	4-F
S8	ATTNR-SNR Auto-toner sensor	[B]	7-C
S9	EXIT-SW Exit sensor	[C]	8-E
S10	ADU-TR1-SNR ADU exit sensor	[E]	7-A
S11	ADU-TR2-SNR ADU entrance sensor	[E]	7-A
S12	SFB-EMP-SNR Bypass paper sensor	[F]	7-B
S13	FEED-COV-SNR Feed cover opening/closing sensor	[G]	6-E
S14	2ND-FEED-SNR 2nd transport sensor	[G]	8-B
S15	NEAR-EMP-U-SNR Upper drawer paper stock sensor	[G]	8-D
S16	TOP-U-SNR Upper drawer tray-up sensor	[G]	8-C
S17	EMP-U-SNR Upper drawer empty sensor	[G]	8-C
S18	NEAR-EMP-L-SNR Lower drawer paper stock sensor	[G]	8-D
S19	TOP-L-SNR Lower drawer tray-up sensor	[G]	8-D
S20	EMP-L-SNR Lower drawer empty sensor	[G]	8-D
S21	1ST-FEED-SNR 1st transport sensor	[E]	8-B
S22	RGST-SNR Registration sensor	[E]	8-B
S25	TEMP/HUMI-SNR Temperature/humidity sensor	[D]	8-C
SW1	MAIN-SW Main power switch	[B]	-
SW2	FRNT-COV-INTLCK-SW Front cover interlock switch	[B]	-
SW3	ADU-INTLCK-SW ADU interlock switch	[B]	-
SW4	FRONT-COV-SW Front cover switch	[C]	6-C
SW5	ADU-COV-SW ADU opening/closing switch	[E]	7-B
SW6	CST-U-SW Upper drawer detection switch	[G]	8-D
SW7	CST-L-SW Lower drawer detection switch	[G]	8-E

Electromagnetic clutches

Symbol	Name	Figure	Wire harness location
CLT1	ADU-CLT ADU clutch	[E]	7-A
CLT2	RGST-CLT Registration roller clutch	[E]	8-A
CLT3	SFB-CLT Bypass feed clutch	[F]	7-B
CLT4	CST-U-FEED-CLT Upper drawer feed clutch	[G]	8-C
CLT5	CST-L-FEED-CLT Lower drawer feed clutch	[G]	8-D
CLT6	TR-U-CLT High speed transport clutch	[G]	-
CLT7	TR-M-CLT Low speed transport clutch	[G]	-

PC boards

Symbol	Name	Figure	Wire harness location
CCD	PWA-F-CCD CCD driving PC board (CCD board)	[A]	3-G
CTIF	PWA-F-CTIF Toner cartridge interface PC board (CTIF board)	[C]	7-E
CTRG	PWA-F-CTRG Toner cartridge PC board (CTRG board)	[C]	-
DSP	PWA-F-DSP Display PC board (DSP board)	[A]	1-G
EPU	PWB-F-EPU EPU board	[B]	7-C
FUS	PWA-F-FUS Fuse PC board (FUS board)	[D]	5-H
KEY	PWA-F-KEY Key control PC board (KEY board)	[A]	1-H
LDR	PWA-F-LDR Laser driving PC board (LDR board)	[C]	7-D
LGC	PWA-F-LGC Logic PC board (LGC board)	[D]	7-A
MOT	PWB-F-MOT MOT board	[D]	5-C
SFB	PWA-F-SFB Paper size detection board	[F]	7-B
SLG	PWA-F-SLG Scanning section control PC board (SLG board)	[A]	4-F
SNS	PWA-F-SNS H-sync signal detection PC board (SNS board)	[C]	7-D
SYS	PWA-F-SYS System control PC board (SYS board)	[D]	2-D

Lamps and heaters

Symbol	Name	Figure	Wire harness location
DH1	SCN-L-DH Scanner damp heater (Left)	[A]	-
DH2	SCN-R-DH Scanner damp heater (Right)	[A]	-
DH3	DRM-DH Drum damp heater	[B]	-
ERS	LP-ERS Discharge LED	[B]	-
EXP	LP-EXPO Exposure lamp	[A]	4-G
LAMP1	CNTR-LAMP Center heater lamp	[C]	-
LAMP2	SIDE-LAMP Side heater lamp	[C]	-

Thermistors and thermostats

Symbol	Name	Figure	Wire harness location
THMO1	THERMO-FSR-C Fuser center thermostat	[C]	-
THMO2	THERMO-FSR-F Fuser front thermostat	[C]	-
THMO3	THERMO-DRM-DH Drum damp heater thermostat	[B]	-
THMO4	THERMO-SCN-DH Scanner damp heater thermostat	[A]	-
THMS1	THMS-C-HTR Center thermistor	[C]	8-E
THMS2	THMS-S-HTR Side thermistor	[C]	-
THMS3	THMS-EDG-HTR Edge thermistor	[C]	8-F
THMS4	THMS-DRM Drum thermistor	[B]	7-C

Transformer

Symbol	Name	Figure	Wire harness location
HVT	PS-HVT High-voltage transformer	[B]	-

Others

Symbol	Name	Figure	Wire harness location
TCP	TCP Touch panel	[A]	1-G
HDD	HDD Hard disk	[D]	3-F
INV	INV-EXP Inverter board	[A]	4-G
LVPS	PS-ACC Switching regulator (LVPS board)	[B]	5-H
LEDB	PWA-LED LED board	[A]	4-G

14.10 Electric Parts Layout (e-STUDIO357/457/507)

[A] Scanner unit, control panel

[B] Power supply, developer unit

[C] Laser unit, fuser unit, toner cartridge

[D] Drive unit

[E] Automatic duplexing unit, transfer unit, exit unit

[F] Bypass feed unit

[G] Drawer unit

Motors

Symbol	Name	Figure	Wire harness location
M1	SCAN-MOT / Scan motor	[A]	4-F
M2	PU-FAN / Process unit fan	[B]	8-C
M3	POL-MOT / Polygonal motor	[C]	7-E
M4	TNR-MOT / Toner motor	[C]	7-E
M5	ADU-MOT / ADU motor	[D]	5-C
M6	SYS-FAN-MOT / SYS/HDD cooling fan	[D]	-
M7	POW-FAN / Switching regulator cooling fan	[D]	8-C
M8	MAIN-MOT / Main motor	[D]	8-C
M9	TRU-FAN / TRU fan	[E]	7-B
M10	EXIT-MOT / Exit motor	[E]	6-C
M11	TRAY-U-MOT / Upper tray-up motor	[G]	8-A
M12	TRAY-L-MOT / Lower tray-up motor	[G]	8-A
M13	OCT-GT-MOT / offset gate motor	[E]	6-D
M14	REV-MOT / Reverse motor	[E]	6-D

Sensors and switches

Symbol	Name	Figure	Wire harness location
S1-5	APS1-3, APS-C, APS-R / Automatic original detection sensor	[A]	4-E
S6	HOME-SNR / Carriage home position sensor	[A]	4-F
S7	PLTN-SNR / Platen sensor	[A]	4-F
S8	ATTNR-SNR / Auto-toner sensor	[B]	7-C
S9	EXIT-SW / Exit sensor	[C]	8-E
S10	ADU-TR1-SNR / ADU exit sensor	[E]	7-A
S11	ADU-TR2-SNR / ADU entrance sensor	[E]	7-A
S12	SFB-EMP-SNR / Bypass paper sensor	[F]	7-B
S13	FEED-COV-SNR / Feed cover opening/closing sensor	[G]	6-E
S14	2ND-FEED-SNR / 2nd transport sensor	[G]	8-B
S15	NEAR-EMP-U-SNR / Upper drawer paper stock sensor	[G]	8-D
S16	TOP-U-SNR / Upper drawer tray-up sensor	[G]	8-C
S17	EMP-U-SNR / Upper drawer empty sensor	[G]	8-C
S18	NEAR-EMP-L-SNR / Lower drawer paper stock sensor	[G]	8-D
S19	TOP-L-SNR / Lower drawer tray-up sensor	[G]	8-D
S20	EMP-L-SNR / Lower drawer empty sensor	[G]	8-D
S21	1ST-FEED-SNR / 1st transport sensor	[E]	8-B
S22	RGST-SNR / Registration sensor	[E]	8-B
S23	REV-SNR / REV sensor	[E]	6-D
S24	OCT-HOME-SNR / OCT home position sensor	[E]	6-D
S25	TEMP/HUMI-SNR / Temperature/humidity sensor	[D]	8-C
SW1	MAIN-SW / Main power switch	[B]	-
SW2	FRNT-COV-INTLCK-SW / Front cover interlock switch	[B]	-
SW3	ADU-INTLCK-SW / ADU interlock switch	[B]	-
SW4	FRONT-COV-SW / Front cover switch	[C]	6-C
SW5	ADU-COV-SW / ADU opening/closing switch	[E]	7-B
SW6	CST-U-SW / Upper drawer detection switch	[G]	8-D
SW7	CST-L-SW / Lower drawer detection switch	[G]	8-E

Electromagnetic clutches

Symbol	Name	Figure	Wire harness location
CLT1	ADU-CLT / ADU clutch	[E]	7-A
CLT2	RGST-CLT / Registration roller clutch	[E]	6-A
CLT3	SFB-CLT / Bypass feed clutch	[F]	7-B
CLT4	CST-U-FEED-CLT / Upper drawer feed clutch	[G]	8-C
CLT5	CST-L-FEED-CLT / Lower drawer feed clutch	[G]	8-D
CLT6	TR-U-CLT / High speed transport clutch	[G]	-
CLT7	TR-M-CLT / Low speed transport clutch	[G]	-

Solenoids

Symbol	Name	Figure	Wire harness location
SOL1	REV-SOL / REV gate solenoid	[E]	8-D

PC boards

Symbol	Name	Figure	Wire harness location
CCD	PWA-F-CCD / CCD driving PC board (CCD board)	[A]	3-G
CTIF	PWA-F-CTIF / Toner cartridge interface PC board (CTIF board)	[C]	7-E
CTRG	PWA-F-CTRG / Toner cartridge PC board (CTRG board)	[C]	-
DSP	PWA-F-DSP / Display PC board (DSP board)	[A]	1-G
EPU	PWB-F-EPU / EPU board	[B]	7-C
FUS	PWA-F-FUS / Fuse PC board (FUS board)	[D]	5-H
KEY	PWA-F-KEY / Key control PC board (KEY board)	[A]	1-H
LDR	PWA-F-LDR / Laser driving PC board (LDR board)	[C]	7-D
LGC	PWA-F-LGC / Logic PC board (LGC board)	[D]	7-A
MOT2	PWB-F-MOT2 / MOT2 board	[D]	5-C
SFB	PWA-F-SFB / Paper size detection board	[F]	7-B
SLG	PWA-F-SLG / Scanning section control PC board (SLG board)	[A]	4-F
SNS	PWA-F-SNS / H-sync signal detection PC board (SNS board)	[C]	7-D
SYS	PWA-F-SYS / System control PC board (SYS board)	[D]	2-D

Lamps and heaters

Symbol	Name	Figure	Wire harness location
DH1	SCN-L-DH / Scanner damp heater (Left)	[A]	-
DH2	SCN-R-DH / Scanner damp heater (Right)	[A]	-
DH3	DRM-DH / Drum damp heater	[B]	-
ERS	LP-ERS / Discharge LED	[B]	-
EXP	LP-EXPO / Exposure lamp	[A]	4-G
LAMP1	CNTR-LAMP / Center heater lamp	[C]	-
LAMP2	SIDE-LAMP / Side heater lamp	[C]	-
LAMP3	LAMP-TRIPLE / Sub heater lamp	[C]	-

Thermistors and thermostats

Symbol	Name	Figure	Wire harness location
THMO1	THERMO-FSR-C / Fuser center thermostat	[C]	-
THMO2	THERMO-FSR-F / Fuser front thermostat	[C]	-
THMO3	THERMO-DRM-DH / Drum damp heater thermostat	[B]	-
THMO4	THERMO-SCN-DH / Scanner damp heater thermostat	[A]	-
THMS1	THMS-C-HTR / Center thermistor	[C]	8-E
THMS2	THMS-S-HTR / Side thermistor	[C]	-
THMS3	THMS-EDG-HTR / Edge thermistor	[C]	8-F
THMS4	THMS-DRM / Drum thermistor	[B]	7-C

Transformer

Symbol	Name	Figure	Wire harness location
HVT	PS-HVT / High-voltage transformer	[B]	-

Others

Symbol	Name	Figure	Wire harness location
TCP	TCP / Touch panel	[A]	1-G
HDD	HDD / Hard disk	[D]	3-F
INV	INV-EXP / Inverter board	[A]	4-G
LVPS	PS-ACC / Switching regulator (LVPS board)	[B]	5-H
LEDB	PWA-LED / LED board	[A]	4-G

Input check (Test mode 03)

Items to be checked and the condition of the equipment when the buttons [A] to [H] are highlighted are listed.

[FAX] button: OFF/[COPY] button: OFF ([FAX] LED: OFF/[COPY] LED: OFF)

Digital key	Button	Items to check	Contents	
			Highlighted display e.g. A	Normal display e.g. A
[1]	A	PFP connection	Not connected	Connected
	B	LCF connection	Not connected	Connected
	C	REV connection	Not connected	Connected
	D	ADU entrance sensor	Paper present	No paper
	E	ADU exit sensor	Paper present	No paper
	F	-	-	-
	G	-	-	-
	H	-	-	-
[2]	A	PFP side cover opening/closing switch	Cover opened	Cover closed
	B	PFP upper drawer feed sensor	Paper present	No paper
	C	PFP upper drawer detection switch	Drawer not installed	Drawer present
	D	PFP upper drawer tray-up sensor	Tray at upper limit position	Other than upper limit position
	E	PFP upper drawer nearly empty sensor	Drawer is nearly	Paper present
	F	PFP upper drawer empty sensor	No paper	Paper present
	G	-	-	-
	H	-	-	-
[3]	A	PFP motor rotation status (Motor is rotating at output mode (03))	Abnormal rotation	Normal rotation
	B	PFP lower drawer feed sensor	Paper present	No paper
	C	PFP lower drawer detection switch	Drawer not installed	Drawer present
	D	PFP lower drawer tray-up sensor	Tray at upper limit	Other than upper
	E	PFP lower drawer nearly empty sensor	Drawer is nearly	Paper present
	F	PFP lower drawer empty sensor	No paper	Paper present
	G	-	-	-
	H	-	-	-
[4]	A	LCF motor rotation status (Motor is rotating at output mode (03))	Abnormal rotation	Normal rotation
	B	LCF side cover opening/closing switch	Cover closed	Cover opened
	C	LCF feed sensor	No paper	Paper present
	D	LCF standby side empty sensor	No paper	Paper present
	E	LCF feed side empty sensor	Paper present	No paper
	F	LCF right drawer detection switch	Drawer not installed	Drawer present
	G	LCF left drawer detection switch	Drawer not installed	Drawer present
	H	-	-	-
[5]	A	LCF tray-up sensor	Tray at upper limit position	Other than upper limit position
	B	LCF tray-bottom sensor	Tray at lower limit position	Other than lower limit position
	C	LCF end fence stop position sensor	Fence stop position	Other than stop position
	D	LCF end fence home position sensor	Fence home position	Other than home position
	E	LCF feed side nearly empty sensor	Drawer is nearly	Paper present
	F	LCF paper misfeed detection sensor	Normal	Paper misfeed
	G	-	-	-
	H	-	-	-

[6]	A	1st transport sensor (S21)	Paper present	No paper
	B	Upper drawer tray-up sensor	Tray at upper limit position	Other than upper limit position
	C	Upper drawer empty sensor	No paper	Paper present
	D	Upper drawer nearly empty sensor	Drawer is nearly	Paper present
	E	Upper drawer detection sensor	Drawer not installed	Drawer present
	F	-	-	-
	G	-	-	-
	H	-	-	-
[7]	A	2nd transport sensor (S14)	Paper present	No paper
	B	Lower drawer tray-up sensor	Tray at upper limit position	Other than upper limit position
	C	Lower drawer empty sensor	No paper	Paper present
	D	Lower drawer nearly empty sensor	Drawer is nearly	Paper present
	E	Lower drawer detection sensor	Drawer not installed	Drawer present
	F	-	-	-
	G	-	-	-
	H	-	-	-
[8]	A	Bypass feed sensor	No paper	Paper present
	B	Bypass feed paper width sensor 0	Refer to table 1	
	C	Bypass feed paper width sensor 1	Refer to table 1	
	D	Bypass feed paper width sensor 2	Refer to table 1	
	E	Bypass feed paper width sensor 3	Refer to table 1	
	F	-	-	-
	G	-	-	-
	H	-	-	-
[9]	A	-	-	-
	B	-	-	-
	C	-	-	-
	D	-	-	-
	E	-	-	-
	F	-	-	-
	G	-	-	-
	H	-	-	-
[0]	A	-	-	-
	B	-	-	-
	C	-	-	-
	D	-	-	-
	E	-	-	-
	F	-	-	-
	G	-	-	-
	H	-	-	-

[FAX] button: ON/[COPY] button: OFF ([FAX] LED: ON/[COPY] LED: OFF)

Digital key	Button	Items to check		Contents Highlighted display e.g. A	Normal display e.g. A
[1]	A	IPC board connection		Not connected	Connected
	B	MOT board connection		Not connected	Connected
	C	-		-	-
	D	Key copy counter connection		Not connected	Connected
	E	Auto-toner sensor connection		Not connected	Connected
	F	Fuser unit connection		Fuser unit installed	Fuser unit not
	G	Fuser unit initial detection		fuse disconnected	Other than fuse disconnection
	H	-		-	-
[2]	A	24 V power supply		Power ON	Power OFF
	B	High-voltage power supply abnormality		Normal	Abnormal
	C	Main motor rotation status (Motor is rotating in Output Mode (03))		Abnormal rotation	Normal rotation
	D	Polygonal motor rotation status (Motor is rotating in Output Mode (03))		Abnormal rotation	Normal rotation
	E	-		-	-
	F	-		-	-
	G	-		-	-
	H	-		-	-
[3]	A	Bridge unit/Job Separator/Offset Tray connection detection 1		Refer to table 2	
	B	Bridge unit/Job Separator/Offset Tray connection detection 2		Refer to table 2	
	C	Bridge unit/Job Separator/Offset Tray connection detection 3		Refer to table 2	
	D	When bridge unit is connected	Paper full detection	Full	Not full
		When job separator is connected	Lower tray paper full detection	Full	Not full
		When offset tray is connected	Paper full detection	Full	Not full
	E	When bridge unit is connected	Cover opening/closing	Cover opened	Cover closed
		When job separator is connected	Cover opening/closing	Cover opened	Cover closed
		When offset tray is connected	Cover opening/closing	Cover opened	Cover closed
	F	When bridge unit is connected	Paper exit sensor	Paper present	No paper
		When job separator is connected	-	-	-
		When offset tray is connected	-	-	-
	G	When bridge unit is connected	Intermediate transport sensor	Paper present	No paper
		When job separator is connected	Jam detection sensor	Paper present	No paper
		When offset tray is	Offset tray timing	Paper present	No paper
	H	When bridge unit is connected	-	-	-
		When job separator is connected	Upper tray paper full detection	Full	Not full
		When offset tray is	Offset tray initial	Initial position	Other than initial

[4]	A	Job Separator connection	Not connected	Connected
	B	Bridge unit connection	Not connected	Connected
	C	Offset Tray initial position detection	Initial position	Other than initial
	D	Bridge unit paper full detection	Full	Not full
	E	Bridge unit cover opening/closing switch	Cover opened	Cover closed
	F	Bridge unit paper exit sensor	Paper present	No paper
	G	Bridge unit transport sensor	Paper present	No paper
	H	Job Separator upper tray paper full	Full	Not full
[5]	A	-	-	-
	B	-	-	-
	C	-	-	-
	D	-	-	-
	E	-	-	-
	F	RADF connection	Connected	Not connected
	G	Platen SW detection	Opened	Closed
	H	Scanner home position detection	Home position	Other than home
[6]	A	-	-	-
	B	-	-	-
	C	-	-	-
	D	APS sensor (APS-R)	Original present	No original
	E	APS sensor (APS-C)	Original present	No original
	F	APS sensor (APS-3) * e-STUDIO206L/256/306/356/456/506 only	Original present	No original
	G	APS sensor (APS-2) * e-STUDIO206L/256/306/356/456/506 only	Original present	No original
	H	APS sensor (APS-1) * e-STUDIO206L/256/306/356/456/506 only	Original present	No original
[7]	A	[RADF] Original tray length sensor	Original present	No original
	B	[RADF] Original empty sensor	Original present	No original
	C	[RADF] Jam access cover sensor	Cover opened	Cover closed
	D	[RADF] RADF opening/closing sensor	RADF opened	RADF closed
	E	[RADF] Original exit/reverse sensor	Original present	No original
	F	[RADF] Original intermediate transport	Original present	No original
	G	[RADF] Read sensor	Original present	No original
	H	[RADF] Original registration sensor	Original present	No original
[8]	A	[RADF] Original tray width sensor 1 (TWID0S) (Refer to table3)	OFF (H)	ON (L)
	B	[RADF] Original tray width sensor 2 (TWID1S) (Refer to table3)	OFF (H)	ON (L)
	C	[RADF] Original tray width sensor 3 (TWID2S) (Refer to table3)	OFF (H)	ON (L)
	D	-	-	-
	E	[RADF] Original length detection sensor	Original present	No original
	F	[RADF] Original width detection sensor 1	Original present	No original
	G	[RADF] Original width detection sensor 2	Original present	No original
	H	-	-	-
[9]	A	Registration sensor	Paper present	No paper
	B	Paper exit sensor	Paper present	No paper
	C	Reverse sensor	Paper present	No paper
	D	Front cover switch	Cover opened	Cover closed
	E	Cassette side cover opening/closing switch	Cover opened	Cover closed
	F	Transfer side cover opening/closing switch	Cover opened	Cover closed
	G	-	-	-
	H	-	-	-

[0]	A	-	-	-
	B	-	-	-
	C	-	-	-
	D	-	-	-
	E	-	-	-
	F	-	-	-
	G	-	-	-
	H	-	-	-

Table 1. Relation between the status of the bypass paper width sensor and paper size (width).

Paper width size	Bypass paper-width sensor			
	0	1	2	3
A3/A4	1	1	1	0
B4/B5	1	1	0	0
A4-R/A5	1	1	0	1
B5-R/B6	1	0	0	1
A5-R/A6	1	0	1	1
A6-R (Card	0	1	1	1
LD/LT	1	1	1	0
LG/LT-R/ST	1	1	0	1
ST-R/COMP	1	0	1	1

Table 2. Connecting status of additional options at inner area of the equipment

	None	Bridge unit	Offset Tray	Job Separator
Option connection detection 3	Normal display	Normal display	Highlighting display	Highlighting display
Option connection detection 1	Normal display	ghlighting displa	Normal display	Highlighting display

Table 3. Relation between the status of the original tray width sensor and paper size (width).

Original tray width sensor			Paper width size (LT series)	Paper width size (A4 series)
TWID2S	TWID1S	TWID0S		
H	H	H	LD/LT	A3/A4
H	H	L	-	B5-R
H	L	H	ST-R	A5-R
L	H	H	LD/LT	A3/A4
L	H	L	-	-
L	L	H	8.5" x 8.5" / LT-R / LG / 13" LG	A4-R/FOLIO
L	L	L	COMPUTER	B4/B5

H (= high level): Open L (= low level): Short

[FAX] button: OFF/ [COPY] button: ON ([FAX] LED: OFF/ [COPY] LED: ON)

Digital key	Button	Items to check	Contents	
			Highlighted display e.g. [A]	Normal display e.g. [A]
[0]	A	Dongle (for Printer/Scanner kit (GM-2250/2250C/2260/2260C)) Connected *1	Connectable	Not connectable
	B	Dongle (for Printer kit (GM-1230/1230C/1240/1240C)) Connected	Connectable	Not connectable
	C	Dongle (for Scanner kit (GM-4230/4230C/4240/4240C)) Connected	Connectable	Not connectable
	D	Dongles for other equipments/Other USB	Connectable	Not connectable
	E	Judgement for acceptable USB media *2	Acceptable	Not acceptable
	F	-	-	-
	G	-	-	-
	H	-	-	-

*1
- Since printer and scanner are standard for NAD/MJD/ARD, the key is highlighted without dongle.
*2
- Be sure to install the USB media to the equipment and check if the device can be used with this code.
- Be sure to turn OFF the write protection (the function to prevent data from erasure by the accidental recordi
deleting) of the USB media before performing the check, otherwise this code cannot be used.
- It may take some time (2 sec. to 10 sec.) before this check is completed depending on the USB media.

Output check (test mode 03)

Code	Function	Procedure
101	Main motor ON (operational without developer unit)	1
102	Toner motor ON (normal rotation)	1
103	Polygonal motor ON (600 dpi)	1
108	Registration clutch ON	1
109	PFP motor ON	1
110	ADU motor ON (low speed)	1
118	Laser ON	1
120	Exit motor ON (normal rotation)	1
121	Exit motor ON (reverse rotation)	1
122	LCF motor ON	1
123	Reverse motor ON (normal rotation) * e-STUDIO356/456 only	1
124	Reverse motor ON (reverse rotation) * e-STUDIO356/456 only	1
151	Code No. 101 function OFF	1
152	Code No. 102 function OFF	1
153	Code No. 103 function OFF	1
158	Code No. 108 function OFF	1
159	Code No. 109 function OFF	1
160	Code No. 110 function OFF	1
168	Code No. 118 function OFF	1
170	Code No. 120 function OFF	1
171	Code No. 121 function OFF	1
172	Code No. 122 function OFF	1
173	Code No. 123 function OFF	1
174	Code No. 124 function OFF	1
177	Offset Tray motor ON (reciprocating movement)	2
201	Upper drawer feed clutch ON/OFF	3
202	Lower drawer feed clutch ON/OFF	3
203	Transport clutch (high speed) ON/OFF	3
204	Bypass feed clutch ON/OFF	3
205	Transport clutch (low speed) ON/OFF	3
206	LCF pickup solenoid ON/OFF	3
207	LCF end fence reciprocating movement This function is disabled in the following conditions. * When the LCF tray is up. * When the left drawer is not inserted. * When the LCF misfeed insertion detection sensor is incorrectly inserted.	2
209	LCF feed clutch ON/OFF	3
218	Key copy counter count up	2
222	ADU clutch ON/OFF	3
225	PFP transport clutch ON/OFF	3
226	PFP upper drawer feed clutch ON/OFF	3
228	PFP lower drawer feed clutch ON/OFF	3
232	Bridge unit gate solenoid ON/OFF	3
233	Reverse solenoid ON/OFF * e-STUDIO356/456 only	3
235	Discharge lamp ON/OFF	3
236	Suction fan ON/OFF (low speed)	3
237	Suction fan ON/OFF (high speed)	3
242	Upper drawer tray-up motor ON (tray up)	2
243	Lower drawer tray-up motor ON (tray up)	2
249	Developer bias [-DC] ON/OFF	3
250	Developer bias [AC] ON/OFF	3
252	Main charger ON/OFF	3
253	Separation charger ON/OFF	3
255	Transfer guide bias ON/OFF	3
256	Transfer charger (positive/center) ON/OFF	3
257	Transfer charger (positive/high) ON/OFF	3
258	Transfer charger (negative) ON/OFF	3

261	Scan motor ON (Automatically stops at limit position; speed can be changed with the [ZOOM] button	2
267	Scanner exposure lamp ON/OFF	3
271	LCF tray-up motor (up/down)	2
278	PFP upper drawer tray-up motor ON (tray up)	2
280	PFP lower drawer tray-up motor ON (tray up)	2
281	RADF feed motor ON/OFF (normal rotation)	3
282	RADF feed motor ON/OFF (reverse rotation)	3
283	RADF read motor ON/OFF (normal rotation)	3
284	RADF exit motor ON/OFF (normal rotation)	3
285	RADF exit motor ON/OFF (reverse rotation)	3
289	Developer cooling fan ON/OFF (high speed)	3
290	Developer cooling fan ON/OFF (low speed)	3
294	Reverse gate solenoid ON/OFF	3
295	Power OFF mode (for 200 V series)	4
297	RADF fan motor ON/OFF	3
301	Modem test 2100Hz	2
302	Modem test 14.4KBPS (V17)	2
303	Modem test 9.6KBPS (V29)	2
304	Modem test 4.8KBPS (V27)	2
305	Modem test 300BPS	2
306	Modem test 1850Hz	2
307	Modem test 1650Hz	2
308	Modem test 1100Hz	2
309	Modem test 462Hz	2
310	Modem test 1300Hz	2
311	Modem test 33.6KBPS (V.34)	2
312	Modem test 28.8KBPS (V.34)	2
313	Modem test 24.0KBPS (V.34)	2
314	Modem test 16.8KBPS (V.34)	2
315	Dial test 10PPS	5
316	Dial test 20PPS	5
317	Dial test PB	5
318	Modem test 12.0KBPS (V.17)	2
319	Modem test 7.2KBPS (V.29)	2
320	Modem test 2.4KBPS (V.27ter)	2
322	CML relay ON	2
410	Power supply cooling fan ON/OFF (low speed)	3
411	Power supply cooling fan ON/OFF (high speed)	3
461	Return the Finisher condition to packaging position	2

Test print mode (test mode 04)

Code	Types of test pattern	Remarks	Remarks	Output from
114	Secondary scanning direction 17 gradation	Error diffusion	1	SLG
142	Grid pattern	Pattern width: 2 dots,	1	LGC

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Process	Developer	Automatic adjustment of auto-toner sensor		2000		Fuser heater ON	-		-	As the value increases, the sensor output increases correspondingly. The value starts changing approx. 2 minutes after this adjustment was started and is automatically set in the range of 2.35 to 2.45 V. * Selection is disable when developer unit is not installed.	17	Yes
05	Adjustment mode	Process	Developer	Correction of auto-toner sensor		2001		Fuser heater ON	141	0~255	M	Corrects the control value of the auto-toner sensor setup in 05-2000. * Selection is disable when developer unit is not installed.	3	Yes
05	Adjustment mode	Process	Developer			2020		Developer bias DC output adjustment	141	0~255	M	As the value increases, the transformer output increases correspondingly. Remove the developer unit and install the adjustment jig to make adjustment.	3	Yes
05	Adjustment mode	Process	Charger			2040		Main charger grid bias output adjustment	Refer to contents	0~255	M	As the value increases, the transformer output increases correspondingly. Remove the developer unit and install the adjustment jig to make adjustment. <Default value> e-STUDIO206L/256/306: 90 e-STUDIO356/456/506: 95	3	
05	Adjustment mode	Process	Transfer			2052		Transfer transformer DC output adjustment (C)	Refer to contents	0~255	M	As the value increases, the transformer output increases correspondingly. Remove the developer unit and install the adjustment jig to make adjustment. <Default value> e-STUDIO206L/256/306: 88 e-STUDIO356/456/506: 117	3	
05	Adjustment mode	Process	Separation			2078		Separation transformer DC output adjustment (C)	52	0~255	M	As the value increases, the transformer output increases correspondingly. Remove the developer unit and install the adjustment jig to make adjustment.	3	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Process	Transfer	Transfer cleaning bias adjustment		2083		Positive	Refer to contents	0~255	M	When the high-voltage transformer is replaced, the transfer cleaning bias needs to be adjusted with this code. The larger the setting value is, the higher the value of the current (more positive) is. This causes a reduction in the toner adhering to the transfer roller and an improvement in the cleaning performance. Perform this adjustment after the process units (cleaner and developer unit) have been removed. When the high-voltage transformer is replaced, adjusting with the following codes needs to be performed in addition to this adjustment. 05-2020, 05-2040, 05-2052, 05-2078 <Default value> e-STUDIO206L/256/306: 63 e-STUDIO356/456/506: 96	3	Yes
05	Adjustment mode	Process	Transfer	Transfer cleaning bias adjustment		2084		Negative	41	0~255	M	When the high-voltage transformer is replaced, the transfer cleaning bias needs to be adjusted with this code. The larger the setting value is, the higher the value of the current (more negative) is. This causes a reduction in the toner adhering to the transfer roller and an improvement in the cleaning performance. Perform this adjustment after the process units (cleaner and developer unit) have been removed. When the high-voltage transformer is replaced, adjusting with the following codes need to be performed in addition to this adjustment. 05-2020, 05-2040, 05-2052, 05-2078	3	Yes
05	Adjustment mode	Process	Transfer	Temperature/humidity sensor		2192		Humidity display	50	0~100	M	Displays the humidity value detected by temperature/humidity sensor.	2	Yes
05	Adjustment mode	Process	Process	Temperature/humidity sensor		2194		Temperature display	25	0~50	M	Displays the humidity value detected by temperature/humidity sensor.	2	Yes
05	Adjustment mode	Process	Charger			2196		Drum thermistor temperature display (K)	25	0~100	M	(Unit: °C)	2	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Process	Image quality control			2250		Laser power adjustment	Refer to contents	0~255	M	When the value increases, the laser output increases correspondingly. <Default value> e-STUDIO206L/256/306: 65 e-STUDIO356/456/506: 121	3	Yes
05	Adjustment mode	Process	Process			2382		Reverse time of the drum	Refer to contents	0~255	M	<Default value> e-STUDIO206L/256/306: 12 e-STUDIO356/456/506: 8	1	
05	Adjustment mode	Process	Toner recycle			2390		Forced performing of idling	-		M	Perform this adjustment before the replacement of the developer material. (The toner is forcibly removed from the cleaner.)	6	Yes
05	Adjustment mode	Scanner	Scanner			3009		Log table switching for RADF copying (color)	0	0~4	SYS	0: Same log table as the one used at copying with original glass 1: Background reproduction - Light 2 2: Background reproduction - Light 1 3: Background reproduction - Dark 1 4: Background reproduction - Dark 2	1	
05	Adjustment mode	Scanner	Scanner	Image location adjustment		3030		Primary scanning direction (scan. section)	75	0~255	SYS	When the value increases by "1", the image shifts by approx. 0.04233 mm toward the front side of the paper.	1	Yes
05	Adjustment mode	Scanner	Scanner	Image location adjustment		3031		Secondary scanning direction(scan.section)	130	90~166	SYS	When the value increases by "1", the image shifts by approx. 0.13013 mm toward the trailing edge of the paper.	1	Yes
05	Adjustment mode	Scanner	Scanner	Reproduction ratio adjustment		3032		Adj. secondary scan.direction	128	63~193	SYS	When the value increases by "1", the reproduction ratio in the secondary scanning direction (vertical to paper feeding direction) increases by approx. 0.025 %.	1	Yes
05	Adjustment mode	Scanner	Scanner	Distortion mode		3033		Distortion mode	-		-	Moves carriages to the adjusting position.	6	Yes
05	Adjustment mode	Scanner	Scanner	Shading position adjustment		3034		Original glass	117	92~165	SYS	0.13013 mm/step	1	
05	Adjustment mode	Scanner	Scanner	Shading position adjustment		3035		RADF	133	92~165	SYS	0.13013 mm/step	1	
05	Adjustment mode	Scanner	RADF	Adjustment of RADF paper alignment		3040		Front side	10	0~20	SYS	When the value increases by "1", the aligning amount increases by approx. 0.5 mm.	1	
05	Adjustment mode	Scanner	RADF	Adjustment of RADF paper alignment		3041		Back side	10	0~20	SYS	When the value increases by "1", the aligning amount increases by approx. 0.5 mm.	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Scanner	RADF			3042		Fine adjustment of RADF transport speed	50	0~100	SYS	When the value increases by "1", the reproduction ratio of the secondary scanning direction when using the RADF increases by approx. 0.1%.	1	Yes
05	Adjustment mode	Scanner	RADF			3043		RADF sideways deviation adjustment	128	0~255	SYS	When the value increases by "1", the image of original fed from the RADF shifts toward the rear side of paper by approx. 0.08423 mm.	1	Yes
05	Adjustment mode	Scanner	RADF	RADF leading edge position adjustment		3044		Front side	50	0~100	SYS	When the value increases by "1", the copied image of original fed from the RADF shifts toward the trailing edge of paper by approx.0.2 mm.	1	Yes
05	Adjustment mode	Scanner	RADF	Leading edge position adjustment		3045		Back side	50	0~100	SYS	When the value increases by "1", the copied image of original fed from the RADF shifts toward the trailing edge of paper by approx.0.2 mm.	1	Yes
05	Adjustment mode	Scanner	Scanner			3046		Carriage position adjustment during scanning from RADF (black)	128	0~255	SYS	When the value increases by "1", the carriage position shifts by approx. 0.1 mm toward the exit side when using the RADF.	1	
05	Adjustment mode	Scanner	Scanner			3047		Carriage position adjustment during scanning from RADF (color)	128	0~255	SYS	When the value increases by "1", the carriage position shifts by approx. 0.1 mm toward the exit side when using the RADF.	1	
05	Adjustment mode	Scanner	Scanner	Data transfer of characteristic value		3203		SLG board -> SYS board	-		SYS	Transfers the characteristic values of the scanner (shading correction factor / RGB color correction / reproduction ratio color deviation correction / shading position correction factor / reproduction ratio correction value in primary scanning direction)	6	Yes
05	Adjustment mode	Scanner	Scanner			3209		Data transfer of characteristic value of scanner / SYS board -> SLG board	-		SYS	Transfers the characteristic values of the scanner (shading correction factor / RGB color correction / reproduction ratio color aberration correction / shading position correction factor / reproduction ratio correction value in primary scanning direction)	6	
05	Adjustment mode	Printer	Printer	Fine adjustment of polygonal motor rotation speed	Adjustment of primary scanning direction reproduction ratio	4000		PPC	130	0~255	M	When the value increases by "1", the reproduction ratio of primary scanning direction increases by approx. 0.07%. (approx. 0.1 mm/step)	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Printer	Fine adjustment of polygonal motor rotation speed	Adjustment of primary scanning direction reproduction ratio	4001		PRT	133	0~255	M	When the value increases by "1", the reproduction ratio of primary scanning direction increases by approx. 0.07%. (approx. 0.1 mm/step)	1	Yes
05	Adjustment mode	Printer	Image	Adjustment of primary scanning laser writing start position.		4005		PPC	Refer to contents	0~255	M	When the value increases by "1", the writing start position shifts to the front side by approx. 0.0423 mm. <Default value> e-STUDIO206L/256/306: 88 e-STUDIO356/456/506: 99	1	Yes
05	Adjustment mode	Printer	Image	Adjustment of primary scanning laser writing start position.		4006		PRT	Refer to contents	0~255	M	When the value increases by "1", the writing start position shifts to the front side by approx. 0.0423 mm. <Default value> e-STUDIO206L/256/306: 88 e-STUDIO356/456/506: 99	1	Yes
05	Adjustment mode	Printer	Drive	Fine adjustment of main motor speed	Adjustment of secondary scanning direction reproduction ratio	4009		PPC/PRT	132	0~255	M	When the value increases by "1", the reproduction ratio of secondary scanning direction increases by approx. 0.04%.	1	Yes
05	Adjustment mode	Printer	Drive	Fine adjustment of main motor speed	Adjustment of secondary scanning direction reproduction ratio	4010		FAX	128	0~255	M	When the value increases by "1", the reproduction ratio of secondary scanning direction increases by approx. 0.04%.	1	Yes
05	Adjustment mode	Printer	Drive	Fine adjustment of exit motor speed		4013		PPC/PRT	128	0~255	M	e-STUDIO206L/256/306: When the value increases by "1", the rotation accelerates by approx. 0.03%. e-STUDIO356/456/506: When the value increases by "1", the rotation accelerates by approx. 0.05%.	1	Yes
05	Adjustment mode	Printer	Drive	Fine adjustment of exit motor speed		4014		FAX	128	0~255	M	e-STUDIO206L/256/306:When the value increases by "1", the rotation accelerates by approx. 0.03%. e-STUDIO356/456/506:When the value increases by "1", the rotation accelerates by approx. 0.05%.	1	Yes
05	Adjustment mode	Printer	Image	Adj. of drawer sideways deviation		4018	0	1st drawer	128	0~255	M	When the value increases by "1", the image shifts toward the front side by 0.0423 mm.	4	Yes
05	Adjustment mode	Printer	Image	Adj. of drawer sideways deviation		4018	1	2nd drawer	128	0~255	M	When the value increases by "1", the image shifts toward the front side by 0.0423 mm.	4	Yes
05	Adjustment mode	Printer	Image	Adj. of drawer sideways deviation		4018	2	PFP upper drawer	128	0~255	M	When the value increases by "1", the image shifts toward the front side by 0.0423 mm.	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustmen t mode	Printer	Image	Adj. of drawer sideways deviation		4018	3	PFP lower drawer	128	0~255	M	When the value increases by "1", the image shifts toward the front side by 0.0423 mm.	4	Yes
05	Adjustmen t mode	Printer	Image	Adj. of drawer sideways deviation		4018	4	T-LCF	128	0~255	M	When the value increases by "1", the image shifts toward the front side by 0.0423 mm.	4	Yes
05	Adjustmen t mode	Printer	Image	Adj. of drawer sideways deviation		4018	5	Bypass feeding	128	0~255	M	When the value increases by "1", the image shifts toward the front side by 0.0423 mm.	4	Yes
05	Adjustmen t mode	Printer	Image	Adj. of primary scan. laser writing start	Duplex feeding	4019	0	Long size	148	0~255	M	When the value increases by "1", the image shifts toward the front side by 0.0423 mm.	4	Yes
05	Adjustmen t mode	Printer	Image	Adj. of primary scan. laser writing start	Duplex feeding	4019	1	Short size	148	0~255	M	When the value increases by "1", the image shifts toward the front side by 0.0423 mm.	4	Yes
05	Adjustmen t mode	Printer	Image	Margin adjustment	PPC	4050		Top margin adjustment	15	0~255	M	When the value increases by "1", the blank area becomes wider by approx. 0.0423 mm.	1	Yes
05	Adjustmen t mode	Printer	Image			4051		Left margin adjustment(blank area at the left of the paper along the paper feeding direction)	0	0~255	M	When the value increases by "1", the blank area becomes wider by approx. 0.0423 mm.	1	
05	Adjustmen t mode	Printer	Image	Margin adjustment	PPC	4052		Right margin adjustment	Refer to contents	0~255	M	When the value increases by "1", the blank area becomes wider by approx. 0.0423 mm. <Default value> e-STUDIO206L/256/306: 6 e-STUDIO356/456/506: 24	1	Yes
05	Adjustmen t mode	Printer	Image	Margin adjustment	PPC	4053		Bottom margin adjustment	55	0~255	M	When the value increases by "1", the blank area becomes wider by approx. 0.0423 mm.	1	Yes
05	Adjustmen t mode	Printer	Image			4054		Top margin adjustment(blank area at the leading edge of the paper)	24	0~255	M	When the value increases by "1", the blank area becomes wider by approx. 0.0423 mm.	1	
05	Adjustmen t mode	Printer	Image			4055		Left margin adjustment(blank area at the left of the paper along the paper feeding direction)	0	0~255	M	When the value increases by "1", the blank area becomes wider by approx. 0.0423 mm.	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Image			4056		Right margin adjustment(blank area at the right of the paper along the paper feeding direction)	0	0~255	M	When the value increases by "1", the blank area becomes wider by approx. 0.0423 mm.	1	
05	Adjustment mode	Printer	Image			4057		Bottom margin adjustment(blank area at the trailing edge of the paper)	0	0~255	M	When the value increases by "1", the blank area becomes wider by approx. 0.0423 mm.	1	
05	Adjustment mode	Printer	Image	Leading edge position adjustment	Normal speed	4058		1st drawer	6	0~15	M	When the value increases by "1", the image shifts toward the trailing edge of the paper by approx. 0.4 mm.	1	Yes
05	Adjustment mode	Printer	Image	Leading edge position adjustment	Normal speed	4059		2nd drawer	Refer to contents	0~40	M	When the value increases by "1", the image shifts toward the trailing edge of the paper by approx. 0.4 mm. <Default value> e-STUDIO206L/256/306: 20 e-STUDIO356/456/506: 27	1	Yes
05	Adjustment mode	Printer	Image	Leading edge position adjustment	Normal speed	4060		PFP	8	0~15	M	When the value increases by "1", the image shifts toward the trailing edge of the paper by approx. 0.4 mm.	1	Yes
05	Adjustment mode	Printer	Image	Leading edge position adjustment	Normal speed	4061		Bypass feeding	Refer to contents	0~15	M	When the value increases by "1", the image shifts toward the trailing edge of the paper by approx. 0.4 mm. <Default value> e-STUDIO206L/256/306: 7 e-STUDIO356/456/506: 8	1	Yes
05	Adjustment mode	Printer	Image	Leading edge position adjustment	Normal speed	4062		Duplex feeding	8	0~15	M	When the value increases by "1", the image shifts toward the trailing edge of the paper by approx. 0.4 mm.	1	Yes
05	Adjustment mode	Printer	Image	Leading edge position adjustment	Normal speed	4063		O-LCF	8	0~15	M	When the value increases by "1", the image shifts toward the trailing edge of the paper by approx. 0.4 mm.	1	Yes
05	Adjustment mode	Printer	Image			4064	0	Bottom margin adjustment (blank area at the trailing edge of the paper)/Reverse side at duplexing	29	0~255	M	When the value increases by "1", the blank area becomes wider by approx. 0.0423 mm.	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Image			4064	1	Right margin adjustment (blank area at the right of the paper along the paper feeding direction)/Reverse side at duplexing	0	0~255	M	When the value increases by "1", the blank area becomes wider by approx. 0.0423 mm.	4	
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	1st drawer	4100	0	Plain paper; Long size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. \<Paper length\> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter \<Default value\> e-STUDIO206L/256/306: 37 e-STUDIO356/456: 21 e-STUDIO506: 17	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	1st drawer	4100	1	Plain paper; Middle size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. \<Paper length\> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter \<Default value\> e-STUDIO206L/256/306: 37 e-STUDIO356/456: 21 e-STUDIO506: 17	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	1st drawer	4100	2	Plain paper; Short size1	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 37 e-STUDIO356/456: 21 e-STUDIO506: 17	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	2nd drawer	4101	0	Plain paper; Long size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 30 e-STUDIO356/456: 15 e-STUDIO506: 9	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	2nd drawer	4101	1	Plain paper; Middle size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 28 e-STUDIO356/456: 15 e-STUDIO506: 9	4	
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	2nd drawer	4101	2	Plain paper; Short size1	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 25 e-STUDIO356/456: 14 e-STUDIO506: 9	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	Bypass feeding	4103	0	Plain paper; Long size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 44 e-STUDIO356/456/506: 28	4	Yes
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	Bypass feeding	4103	1	Plain paper; Middle size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 44 e-STUDIO356/456/506: 28	4	Yes
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	Bypass feeding	4103	2	Plain paper; Short size1	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 44 e-STUDIO356/456/506: 28	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	Bypass feeding	4104	0	Thick paper1; Long size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 44 e-STUDIO356/456/506: 28	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	Bypass feeding	4104	1	Thick paper1; Middle size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 44 e-STUDIO356/456/506: 28	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	Bypass feeding	4104	2	Thick paper1; Short size1	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 44 e-STUDIO356/456/506: 28	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	Bypass feeding	4105	0	Thick paper2; Long size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 44 e-STUDIO356/456/506: 28	4	Yes
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	Bypass feeding	4105	1	Thick paper2; Middle size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 44 e-STUDIO356/456/506: 28	4	Yes
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	Bypass feeding	4105	2	Thick paper2; Short size1	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 44 e-STUDIO356/456/506: 28	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	Bypass feeding	4106	0	Thick paper3; Long size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 44 e-STUDIO356/456/506: 28	4	Yes
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	Bypass feeding	4106	1	Thick paper3; Middle size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 44 e-STUDIO356/456/506: 28	4	Yes
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	Bypass feeding	4106	2	Thick paper3; Short size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 44 e-STUDIO356/456/506: 28	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	Bypass feeding	4106	3	Postcard	35	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. \<Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	Bypass feeding	4107	0	OHP film; Long size	24	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. \<Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	Bypass feeding	4107	1	OHP film; Middle size	24	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. \<Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	Bypass feeding	4107	2	OHP film; Short size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 44 e-STUDIO356/456/506: 28	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	PFP upper drawer	4108	0	Plain paper; Long size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 30 e-STUDIO356/456: 15 e-STUDIO506: 12	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	PFP upper drawer	4108	1	Plain paper; Middle size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 28 e-STUDIO356/456: 15 e-STUDIO506: 12	4	
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	PFP upper drawer	4108	2	Plain paper; Short size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx.0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx.0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 25 e-STUDIO356/456: 14 e-STUDIO506: 9	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	PFP lower drawer	4109	0	Plain paper; Long size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx.0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx.0.4 mm. \<Paper length\> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter \<Default value\> e-STUDIO206L/256/306: 30 e-STUDIO356/456: 15 e-STUDIO506: 12	4	
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	PFP lower drawer	4109	1	Plain paper; Middle size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx.0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx.0.4 mm. \<Paper length\> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter \<Default value\> e-STUDIO206L/256/306: 28 e-STUDIO356/456: 15 e-STUDIO506: 12	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	PFP lower drawer	4109	2	Plain paper; Short size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx.0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx.0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 25 e-STUDIO356/456: 14 e-STUDIO506: 9	4	
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	ADU	4110	0	Plain paper; Long size	19	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	ADU	4110	1	Plain paper; Middle size	19	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Procedure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	ADU	4110	2	Plain paper; Short size	19	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	T-LCF	4111		Plain paper	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 25 e-STUDIO356/456: 14 e-STUDIO506: 9	1	
05	Adjustment mode	Printer	Paper feeding	Adjustment of paper pushing amount/Bypass feeding		4112	0	Plain paper	0	0~20	M	When the value increases by "1", the driving speed of bypass feed roller increases by approx. 10 msec. when the paper transport is started from the registration section. *Postcard is supported only for JPN model.	4	
05	Adjustment mode	Printer	Paper feeding	Adjustment of paper pushing amount/Bypass feeding		4112	1	Postcard	0	0~20	M	When the value increases by "1", the driving speed of bypass feed roller increases by approx. 10 msec. when the paper transport is started from the registration section. *Postcard is supported only for JPN model.	4	
05	Adjustment mode	Printer	Paper feeding	Adjustment of paper pushing amount/Bypass feeding		4112	3	Envelope	0	0~20	M	When the value increases by "1", the driving speed of bypass feed roller increases by approx. 10 msec. when the paper transport is started from the registration section. *Postcard is supported only for JPN model.	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Paper feeding	Adjustment of paper pushing amount/Bypass feeding		4112	4	Thick paper 1	0	0~20	M	When the value increases by "1", the driving speed of bypass feed roller increases by approx. 10 msec. when the paper transport is started from the registration section. *Postcard is supported only for JPN model.	4	
05	Adjustment mode	Printer	Paper feeding	Adjustment of paper pushing amount/Bypass feeding		4112	5	Thick paper 2	0	0~20	M	When the value increases by "1", the driving speed of bypass feed roller increases by approx. 10 msec. when the paper transport is started from the registration section. *Postcard is supported only for JPN model.	4	
05	Adjustment mode	Printer	Paper feeding	Adjustment of paper pushing amount/Bypass feeding		4112	6	Thick paper 3	0	0~20	M	When the value increases by "1", the driving speed of bypass feed roller increases by approx. 10 msec. when the paper transport is started from the registration section. *Postcard is supported only for JPN model.	4	
05	Adjustment mode	Printer	Paper feeding	Adjustment of paper pushing amount/Bypass feeding		4112	7	OHP film	0	0~20	M	When the value increases by "1", the driving speed of bypass feed roller increases by approx. 10 msec. when the paper transport is started from the registration section. *Postcard is supported only for JPN model.	4	
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	1st drawer	4115	0	Thick paper1; Long size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 37 e-STUDIO356/456: 21 e-STUDIO506: 17	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	1st drawer	4115	1	Thick paper1; Middle size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 37 e-STUDIO356/456: 21 e-STUDIO506: 17	4	Yes
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	1st drawer	4115	2	Thick paper1; Short size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 37 e-STUDIO356/456: 21 e-STUDIO506: 17	4	Yes
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	1st drawer	4115	3	Thick paper2; Long size	20	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	1st drawer	4115	4	Thick paper2; Middle size	20	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	1st drawer	4115	5	Thick paper2; Short size	20	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	2nd drawer	4116	0	Thick paper1; Long size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 37 e-STUDIO356/456: 20 e-STUDIO506: 9	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	2nd drawer	4116	1	Thick paper1; Middle size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 37 e-STUDIO356/456: 20 e-STUDIO506: 9	4	Yes
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	2nd drawer	4116	2	Thick paper1; Short size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 31 e-STUDIO356/456: 16 e-STUDIO506: 9	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	PFP upper drawer	4117	0	Thick paper1; Long size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 37 e-STUDIO356/456: 20 e-STUDIO506: 12	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	PFP upper drawer	4117	1	Thick paper1; Middle size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 37 e-STUDIO356/456: 20 e-STUDIO506: 12	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	PFP upper drawer	4117	2	Thick paper1; Short size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 31 e-STUDIO356/456: 16 e-STUDIO506: 9	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	PFP lower drawer	4118	0	Thick paper1; Long size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 37 e-STUDIO356/456: 20 e-STUDIO506: 12	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	PFP lower drawer	4118	1	Thick paper1; Middle size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 37 e-STUDIO356/456: 20 e-STUDIO506: 12	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	PFP lower drawer	4118	2	Thick paper1; Short size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 31 e-STUDIO356/456: 16 e-STUDIO506: 9	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	T-LCF	4119		Thick paper1	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. \<Paper length\> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter \<Default value\> e-STUDIO206L/256/306:37 e-STUDIO356/456:15 e-STUDIO506: 9	1	Yes
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	ADU	4120	0	Thick paper1; Long size	19	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. \<Paper length\> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4	Yes
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	ADU	4120	1	Thick paper1; Middle size	19	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. \<Paper length\> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	ADU	4120	2	Thick paper1; Short size	19	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. \<Paper length\> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4	Yes
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	Registration section	4405	0	Bypass feed/Envelope; long size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. \<Paper length\> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter \<Default value\> e-STUDIO206L/256/306: 44 e-STUDIO356/456/506: 28	4	Yes
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	Registration section	4405	1	Bypass feed/Envelope; middle size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. \<Paper length\> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter \<Default value\> e-STUDIO206L/256/306: 44 e-STUDIO356/456/506: 28	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	Registration section	4405	2	Bypass feed/Envelope; short size	Refer to contents	0~63	M	e-STUDIO206L/256/306:When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO356/456/506:When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO206L/256/306: 44 e-STUDIO356/456/506: 28	4	Yes
05	Adjustment mode	Printer	Drive	Fine adjustment of reverse motor speed		4817	-	For resolution in inches	128	0~255	M	When the value increases by "1", the rotation accelerates by approx. 0.05%.	1	
05	Adjustment mode	Printer	Drive	Fine adjustment of reverse motor speed		4818	-	For FAX resolution in millimeters	128	0~255	M	When the value increases by "1", the rotation accelerates by approx. 0.05%.	1	
05	Adjustment mode	Printer	Printer	Tray position judgment time adjustment		4819	0	Drawer (upper/lower)	44	0~255	M		4	
05	Adjustment mode	Printer	Printer	Tray position judgment time adjustment		4819	1	PFP drawer (upper/lower)	44	0~255	M		4	
05	Adjustment mode	Printer	Finisher	Stapling position adjustment value		4820	0	LD/A3	0	-17~17	M		4	
05	Adjustment mode	Printer	Finisher	Stapling position adjustment value		4820	1	LG/B4/8K/A4-R/LT-R/16K-R	0	-17~17	M		4	
05	Adjustment mode	Printer	Finisher	Paper stack folding position adjustment value		4821	0	LD/A3	0	-17~17	M		4	
05	Adjustment mode	Printer	Finisher	Paper stack folding position adjustment value		4821	1	LG/B4/8K/A4-R/LT-R/16K-R	0	-17~17	M		4	
05	Adjustment mode	Printer	Finisher	Alignment position adjustment		4822	0	Front	0	-17~17	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Finisher	Alignment position adjustment		4822	1	Rear	0	-17~17	M		4	
05	Adjustment mode	Printer	Finisher	Stapling position adjustment		4823	0	One place (Rear)	0	-25~25	M		4	Yes
05	Adjustment mode	Printer	Finisher	Stapling position adjustment		4823	1	One place (Rear/R-series sizes)	0	-17~25	M		4	Yes
05	Adjustment mode	Printer	Finisher	Stapling position adjustment		4823	2	One place (Front)	0	-25~25	M		4	Yes
05	Adjustment mode	Printer	Finisher	Stapling position adjustment		4823	3	One place (Front/R-series sizes)	0	-25~17	M		4	Yes
05	Adjustment mode	Printer	Finisher	Stapling position adjustment		4823	4	Two places (Center)	0	-17~17	M		4	Yes
05	Adjustment mode	Printer	Finisher	Stapling position adjustment		4823	5	Two places (Pitch)	0	-15~12	M		4	Yes
05	Adjustment mode	Printer	Finisher			4824		Punching position center adjustment	0	-15~15	M		1	Yes
05	Adjustment mode	Printer	Finisher			4825		Punch hole position adjustment	0	-20~12	M		1	Yes
05	Adjustment mode	Printer	Finisher			4826		Saddle stitch alignment adjustment	0	-15~15	M		1	Yes
05	Adjustment mode	Printer	Finisher			4827		Gripper arm exiting position adjustment	0	-15~15	M		1	Yes
05	Adjustment mode	Image Processing	Background offset adjustment	PPC(black)		7025		ADF	128	0~255	SYS	The smaller the adjustment value is, the lighter the background becomes. The larger the adjustment value is, the darker the background becomes.	1	Yes
05	Adjustment mode	Image Processing	Background adjustment	PPC(black)	Black/Automatic density adjustment	7033		Text/Photo	128	0~255	SYS	The larger the value is, the lighter the background becomes.	1	Yes
05	Adjustment mode	Image Processing	Background adjustment	PPC(black)	Black/Automatic density adjustment	7034		Text	128	0~255	SYS	The larger the value is, the lighter the background becomes.	1	Yes
05	Adjustment mode	Image Processing	Background adjustment	PPC(black)	Black/Manual density adjustment	7041		Text/Photo	128	0~255	SYS	The larger the value is, the lighter the background becomes.	1	Yes
05	Adjustment mode	Image Processing	Background adjustment	PPC(black)	Black/Manual density adjustment	7042		Text	128	0~255	SYS	The larger the value is, the lighter the background becomes.	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Background adjustment	PPC(black)	Black/Automatic density adjustment	7043		Photo	128	0~255	SYS	The larger the value is, the lighter the background becomes.	1	Yes
05	Adjustment mode	Image Processing	Background adjustment	PPC(black)	Black/Manual density adjustment	7048		Photo	128	0~255	SYS	The larger the value is, the lighter the background becomes.	1	Yes
05	Adjustment mode	Image Processing	Background adjustment	PPC(black)	Black/Automatic density adjustment	7050		Presentation	128	0~255	SYS	The larger the value is, the lighter the background becomes.	1	Yes
05	Adjustment mode	Image Processing	Background adjustment	PPC(black)	Black/Manual density adjustment	7051		Presentation	128	0~255	SYS	The larger the value is, the lighter the background becomes.	1	Yes
05	Adjustment mode	Image Processing	Sharpness adjustment	PPC(black)		7056		Text/Photo	128	0~255	SYS	The larger the value is, the sharper the image becomes. The smaller the value is, the softer the image becomes and the less moire appears.	1	Yes
05	Adjustment mode	Image Processing	Sharpness adjustment	PPC(black)		7057		Text	128	0~255	SYS	The larger the value is, the sharper the image becomes. The smaller the value is, the softer the image becomes and the less moire appears.	1	Yes
05	Adjustment mode	Image Processing	Sharpness adjustment	PPC(black)		7058		Photo	128	0~255	SYS	The larger the value is, the sharper the image becomes. The smaller the value is, the softer the image becomes and the less moire appears.	1	Yes
05	Adjustment mode	Image Processing	Sharpness adjustment	PPC(black)		7059		Presentation	128	0~255	SYS	The larger the value is, the sharper the image becomes. The smaller the value is, the softer the image becomes and the less moire appears.	1	Yes
05	Adjustment mode	Image Processing	Smudged/faint text adjustment	PPC(black)		7097		Text/Photo	2	0~4	SYS	0: Faint text is suppressed most. 4: Smudged text is suppressed most.	1	Yes
05	Adjustment mode	Image Processing	Smudged/faint text adjustment	PPC(black)		7098		Text	2	0~4	SYS	0: Faint text is suppressed most. 4: Smudged text is suppressed most.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	PPC(black)	Manual adjustment/Center value	7114		Text/Photo	128	0~255	SYS	The larger the value is, the darker the image at the center value becomes.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	PPC(black)	Manual adjustment/Center value	7115		Text	128	0~255	SYS	The larger the value is, the darker the image at the center value becomes.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	PPC(black)	Manual adjustment/Center value	7116		Photo	128	0~255	SYS	The larger the value is, the darker the image at the center value becomes.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	PPC(black)	Manual adjustment/Light step value	7117		Text/Photo	20	0~255	SYS	When the value increases, the image of the "light" steps becomes lighter.	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Density adjustment	PPC(black)	Manual adjustment/Light step value	7118		Text	20	0~255	SYS	When the value increases, the image of the "light" steps becomes lighter.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	PPC(black)	Manual adjustment/Light step value	7119		Photo	20	0~255	SYS	When the value increases, the image of the "light" steps becomes lighter.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	PPC(black)	Manual adjustment/Dark step value	7120		Text/Photo	20	0~255	SYS	When the value increases, the image of the "dark" steps becomes darker.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	PPC(black)	Manual adjustment/Dark step value	7121		Text	20	0~255	SYS	When the value increases, the image of the "dark" steps becomes darker.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	PPC(black)	Manual adjustment/Dark step value	7122		Photo	20	0~255	SYS	When the value increases, the image of the "dark" steps becomes darker.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	PPC(black)	Automatic density adjustment	7123		Text/Photo	128	0~255	SYS	When the value increases, the image becomes darker.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	PPC(black)	Automatic density adjustment	7124		Text	128	0~255	SYS	When the value increases, the image becomes darker.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	PPC(black)	Automatic density adjustment	7125		Photo	128	0~255	SYS	When the value increases, the image becomes darker.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	PPC(black)	Manual adjustment/Center value	7126		Presentation	128	0~255	SYS	When the value increases, the image becomes darker; when the former decreases, the latter becomes lighter.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	PPC(black)	Automatic density adjustment	7129		Presentation	128	0~255	SYS	When the value increases, the image becomes darker; when the former decreases, the latter becomes lighter.	1	Yes
05	Adjustment mode	Image Processing	Automatic gamma adjustment	PPC(black)		7165		All media types	-	-	-	When color deviation is found in gradation reproduction, the gradation reproduction of color K can be corrected with the automatic gamma adjustment. The result of the correction above will be applied to all media types.	7	
05	Adjustment mode	Image Processing	Gamma balance adjustment	PPC(black)	Text/Photo	7190	0	Low density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PPC(black)	Text/Photo	7190	1	Medium density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PPC(black)	Text/Photo	7190	2	High density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Gamma balance adjustment	PPC(black)	Text	7191	0	Low density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PPC(black)	Text	7191	1	Medium density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PPC(black)	Text	7191	2	High density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PPC(black)	Photo	7192	0	Low density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PPC(black)	Photo	7192	1	Medium density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PPC(black)	Photo	7192	2	High density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PPC(black)	Presentation	7193	0	Low density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PPC(black)	Presentation	7193	1	Medium density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PPC(black)	Presentation	7193	2	High density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Text/Photo	7218	0	Beam level 0/4	0	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Text/Photo	7218	1	Beam level 1/4	4	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Text/Photo	7218	2	Beam level 2/4	5	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Text/Photo	7218	3	Beam level 3/4	6	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Text/Photo	7218	4	Beam level 4/4	8	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Text	7219	0	Beam level 0/4	0	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Text	7219	1	Beam level 1/4	4	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Text	7219	2	Beam level 2/4	5	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Text	7219	3	Beam level 3/4	6	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Text	7219	4	Beam level 4/4	9	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Photo	7220	0	Beam level 0/4	0	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Photo	7220	1	Beam level 1/4	4	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Photo	7220	2	Beam level 2/4	5	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Photo	7220	3	Beam level 3/4	6	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Photo	7220	4	Beam level 4/4	9	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Presentation	7221	0	Beam level 0/4	0	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Presentation	7221	1	Beam level 1/4	4	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Presentation	7221	2	Beam level 2/4	5	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Presentation	7221	3	Beam level 3/4	6	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Presentation	7221	4	Beam level 4/4	9	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Range correction adjustment	PPC(black)	Black/Automatic density adjustment	7236		User custom	1	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes
05	Adjustment mode	Image Processing	Range correction adjustment	PPC(black)	Black/Manual density adjustment	7237		User custom	1	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes
05	Adjustment mode	Image Processing	Sharpness adjustment	PPC(black)		7249		User custom	128	0~255	SYS	The larger the value is, the sharper the image becomes. The smaller the value is, the softer the image becomes and the less moire appears.	1	Yes
05	Adjustment mode	Image Processing	Smudged/faint text adjustment	PPC(black)		7252		User custom	2	0~4	SYS	0: Smudged text is suppressed most. 4: Faint text is suppressed most.	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Density adjustment	PPC(black)	Manual adjustment/Center value	7258		User custom	128	0~255	SYS	When the value increases, the image of the center step becomes darker.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	PPC(black)	Manual adjustment/Light step value	7261		User custom	20	0~255	SYS	When the value increases, the image of the "light" step density becomes lighter.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	PPC(black)	Manual adjustment/Dark step value	7264		User custom	20	0~255	SYS	When the value increases, the image of the "dark" step density becomes darker.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	PPC(black)	Automatic density adjustment	7267		User custom	128	0~255	SYS	When the value increases, the image becomes darker.	1	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PPC(black)	User custom	7276	0	Low density	128	0~255	SYS	The larger the value is, the darker the image of the target area becomes.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PPC(black)	User custom	7276	1	Medium density	128	0~255	SYS	The larger the value is, the darker the image of the target area becomes.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PPC(black)	User custom	7276	2	High density	128	0~255	SYS	The larger the value is, the darker the image of the target area becomes.	4	Yes
05	Adjustment mode	Image Processing	Background adjustment	PPC(black)	Black/Automatic density adjustment	7279		User custom	128	0~255	SYS	The larger the value is, the lighter the background becomes.	1	Yes
05	Adjustment mode	Image Processing	Background adjustment	PPC(black)	Black/Manual density adjustment	7280		User custom	128	0~255	SYS	The larger the value is, the lighter the background becomes.	1	Yes
05	Adjustment mode	Image Processing	Range correction adjustment	PPC(black)	Black/Automatic density adjustment	7283		Text/Photo	1	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes
05	Adjustment mode	Image Processing	Range correction adjustment	PPC(black)	Black/Automatic density adjustment	7284		Text	1	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes
05	Adjustment mode	Image Processing	Range correction adjustment	PPC(black)	Black/Automatic density adjustment	7285		Photo	1	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes
05	Adjustment mode	Image Processing	Range correction adjustment	PPC(black)	Black/Manual density adjustment	7286		Text/Photo	1	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustmen t mode	Image Processin g	Range correction adjustmen t	PPC(black)	Black/Manual density adjustment	7287		Text	1	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes
05	Adjustmen t mode	Image Processin g	Range correction adjustmen t	PPC(black)	Black/Manual density adjustment	7288		Photo	0	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes
05	Adjustmen t mode	Image Processin g	Range correction adjustmen t	PPC(black)	Black/Automatic density adjustment	7289		Presentation	1	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes
05	Adjustmen t mode	Image Processin g	Range correction adjustmen t	PPC(black)	Black/Manual density adjustment	7290		Presentation	0	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes
05	Adjustmen t mode	Image Processin g	Gamma balance adjustmen t	PRT(black)	PS/Smooth/600dpi	7315	0	Low density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustmen t mode	Image Processin g	Gamma balance adjustmen t	PRT(black)	PS/Smooth/600dpi	7315	1	Medium density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustmen t mode	Image Processin g	Gamma balance adjustmen t	PRT(black)	PS/Smooth/600dpi	7315	2	High density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustmen t mode	Image Processin g	Gamma balance adjustmen t	PRT(black)	PS/Detail/600dpi	7316	0	Low density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Procedure	Service UI
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	PS/Detail/600dpi	7316	1	Medium density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	PS/Detail/600dpi	7316	2	High density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	PCL/Smooth/600dpi	7317	0	Low density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	PCL/Smooth/600dpi	7317	1	Medium density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	PCL/Smooth/600dpi	7317	2	High density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	PCL/Detail/600dpi	7318	0	Low density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	PCL/Detail/600dpi	7318	1	Medium density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	PCL/Detail/600dpi	7318	2	High density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	XPS/Smooth/600dpi	7319	0	Low density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	XPS/Smooth/600dpi	7319	1	Medium density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	XPS/Smooth/600dpi	7319	2	High density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	XPS/Detail/600dpi	7320	0	Low density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	XPS/Detail/600dpi	7320	1	Medium density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	XPS/Detail/600dpi	7320	2	High density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustment mode	Image Processing	Image	Adjustment of smudged/faint text	PRT	7325		PS	5	0~9	M	Adjustment of the smudged/faint text. With decreasing the value, the faint text is suppressed, and with increasing it, the smudged text is suppressed.	1	Yes
05	Adjustment mode	Image Processing	Image	Adjustment of smudged/faint text	PRT	7326		PCL	5	0~9	M	Adjustment of the smudged/faint text. With decreasing the value, the faint text is suppressed, and with increasing it, the smudged text is suppressed.	1	Yes
05	Adjustment mode	Image Processing	Image	Adjustment of smudged/faint text	PRT	7327		XPS	5	0~9	M	Adjustment of the smudged/faint text. With decreasing the value, the faint text is suppressed, and with increasing it, the smudged text is suppressed.	4	Yes
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving OFF	7350	0	Beam level 0/4	0	0~10	M	Adjustment of the smudged/faint text. With decreasing the value, the faint text is suppressed, and with increasing it, the smudged text is suppressed.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving OFF	7350	1	Beam level 1/4	4	0~10	M	Adjustment of the smudged/faint text. With decreasing the value, the faint text is suppressed, and with increasing it, the smudged text is suppressed.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving OFF	7350	2	Beam level 2/4	5	0~10	M	Adjustment of the smudged/faint text. With decreasing the value, the faint text is suppressed, and with increasing it, the smudged text is suppressed.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving OFF	7350	3	Beam level 3/4	6	0~10	M	Adjustment of the smudged/faint text. With decreasing the value, the faint text is suppressed, and with increasing it, the smudged text is suppressed.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving OFF	7350	4	Beam level 4/4	9	0~10	M	Adjustment of the smudged/faint text. With decreasing the value, the faint text is suppressed, and with increasing it, the smudged text is suppressed.	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Procedure	Service UI
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving ON/PS	7351	0	Beam level 0/4	0	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	Yes
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving ON/PS	7351	1	Beam level 1/4	1	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	Yes
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving ON/PS	7351	2	Beam level 2/4	2	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	Yes
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving ON/PS	7351	3	Beam level 3/4	3	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	Yes
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving ON/PS	7351	4	Beam level 4/4	4	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	Yes
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving ON/PCL	7352	0	Beam level 0/4	0	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	Yes
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving ON/PCL	7352	1	Beam level 1/4	1	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	Yes
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving ON/PCL	7352	2	Beam level 2/4	2	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	Yes
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving ON/PCL	7352	3	Beam level 3/4	3	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	Yes
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving ON/PCL	7352	4	Beam level 4/4	4	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	Yes
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving ON/XPS	7353	0	Beam level 0/4	0	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving ON/XPS	7353	1	Beam level 1/4	1	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving ON/XPS	7353	2	Beam level 2/4	2	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving ON/XPS	7353	3	Beam level 3/4	3	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving ON/XPS	7353	4	Beam level 4/4	4	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Hardcopy security printing	7354	0	Beam level 0/4	0	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Hardcopy security printing	7354	1	Beam level 1/4	4	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Hardcopy security printing	7354	2	Beam level 2/4	5	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Hardcopy security printing	7354	3	Beam level 3/4	6	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Hardcopy security printing	7354	4	Beam level 4/4	9	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Test print	7355	0	Beam level 0/4	0	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Test print	7355	1	Beam level 1/4	4	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Test print	7355	2	Beam level 2/4	5	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Test print	7355	3	Beam level 3/4	6	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Test print	7355	4	Beam level 4/4	9	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Box printing	7356	0	Beam level 0/4	0	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Box printing	7356	1	Beam level 1/4	4	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Box printing	7356	2	Beam level 2/4	5	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Box printing	7356	3	Beam level 3/4	6	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Box printing	7356	4	Beam level 4/4	9	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	PS/text	7360	0	Low density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	PS/text	7360	1	Medium density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	PS/text	7360	2	High density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	PS/graphics	7361	0	Low density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	PS/graphics	7361	1	Medium density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	PS/graphics	7361	2	High density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	PS/image	7362	0	Low density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	PS/image	7362	1	Medium density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	PS/image	7362	2	High density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	XPS/text	7366	0	Low density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	XPS/text	7366	1	Medium density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	XPS/text	7366	2	High density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	XPS/graphics	7367	0	Low density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	XPS/graphics	7367	1	Medium density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	XPS/graphics	7367	2	High density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	XPS/image	7368	0	Low density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	XPS/image	7368	1	Medium density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	XPS/image	7368	2	High density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	Yes
05	Adjustment mode	Image Processing	Range correction adjustment	Range correction adjustment(Black/Aut omatic)	Black/Automatic density adjustment	7416		Text/Photo	1	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes
05	Adjustment mode	Image Processing	Range correction adjustment	Range correction adjustment(Black/Aut omatic)	Black/Automatic density adjustment	7417		Text	1	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes
05	Adjustment mode	Image Processing	Range correction adjustment	Range correction adjustment(Black/Aut omatic)	Black/Automatic density adjustment	7418		Photo	1	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes
05	Adjustment mode	Image Processing	Range correction adjustment	Range correction adjustment(Black/Aut omatic)	Black/Automatic density adjustment	7419		Gray scale	1	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes
05	Adjustment mode	Image Processing	Range correction adjustment	Range correction adjustment(Black/Ma nual)	Black/Manual density adjustment	7421		Text/Photo	0	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes
05	Adjustment mode	Image Processing	Range correction adjustment	Range correction adjustment(Black/Ma nual)	Black/Manual density adjustment	7422		Text	0	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes
05	Adjustment mode	Image Processing	Range correction adjustment	Range correction adjustment(Black/Ma nual)	Black/Manual density adjustment	7423		Photo	0	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Procedure	Service UI
05	Adjustment mode	Image Processing	Range correction adjustment	Range correction adjustment(Black/Manual)	Black/Manual density adjustment	7424		Gray scale	0	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes
05	Adjustment mode	Image Processing	Range correction adjustment	Range correction adjustment(Black/Automatic)	Black/Automatic density adjustment	7425		User custom	1	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes
05	Adjustment mode	Image Processing	Range correction adjustment	Range correction adjustment(Black / Manual density adjustment)	Black/Manual density adjustment	7426		User custom	0	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	
05	Adjustment mode	Image Processing	Sharpness adjustment	SCN(black)		7430		Text/Photo	128	0~255	SYS	The larger the value is, the sharper the image becomes. The smaller the value is, the softer the image becomes and the less moire appears.	1	Yes
05	Adjustment mode	Image Processing	Sharpness adjustment	SCN(black)		7431		Text	128	0~255	SYS	The larger the value is, the sharper the image becomes. The smaller the value is, the softer the image becomes and the less moire appears.	1	Yes
05	Adjustment mode	Image Processing	Sharpness adjustment	SCN(black)		7432		Photo	128	0~255	SYS	The larger the value is, the sharper the image becomes. The smaller the value is, the softer the image becomes and the less moire appears.	1	Yes
05	Adjustment mode	Image Processing	Sharpness adjustment	SCN(black)		7433		Gray scale	128	0~255	SYS	The larger the value is, the sharper the image becomes. The smaller the value is, the softer the image becomes and the less moire appears.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	SCN(black)	Manual adjustment/Center value	7444		Text/Photo	128	0~255	SYS	The larger the value is, the darker the image of the center value becomes.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	SCN(black)	Manual adjustment/Center value	7445		Text	128	0~255	SYS	The larger the value is, the darker the image of the center value becomes.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	SCN(black)	Manual adjustment/Center value	7446		Photo	128	0~255	SYS	The larger the value is, the darker the image of the center value becomes.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	SCN(black)	Manual adjustment/Center value	7447		Gray scale	128	0~255	SYS	The larger the value is, the darker the image of the center value becomes.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	SCN(black)	Automatic density adjustment	7456		Text/Photo	128	0~255	SYS	When the value increases, the image becomes darker.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	SCN(black)	Automatic density adjustment	7457		Text	128	0~255	SYS	When the value increases, the image becomes darker.	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Procedure	Service UI
05	Adjustment mode	Image Processing	Density adjustment	SCN(black)	Automatic density adjustment	7458		Photo	128	0~255	SYS	When the value increases, the image becomes darker.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	SCN(black)	Automatic density adjustment	7459		Gray scale	128	0~255	SYS	When the value increases, the image becomes darker.	1	Yes
05	Adjustment mode	Image Processing	Sharpness adjustment	SCN(black)		7470		User custom	128	0~255	SYS	The larger the value is, the sharper the image becomes. The smaller the value is, the softer the image becomes and the less moire appears.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	SCN(black)	Manual adjustment/Center value	7475		User custom	128	0~255	SYS	The larger the value is, the darker the image at the center value becomes.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	SCN(black)	Automatic density adjustment	7478		User custom	128	0~255	SYS	The larger the value is, the darker the image at the center value becomes.	1	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	SCN(black)	User custom	7480	0	Low density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	SCN(black)	User custom	7480	1	Medium density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	SCN(black)	User custom	7480	2	High density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	SCN(black)	Text/Photo	7485	0	Low density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	SCN(black)	Text/Photo	7485	1	Medium density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	SCN(black)	Text/Photo	7485	2	High density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	SCN(black)	Photo	7487	0	Low density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Gamma balance adjustment	SCN(black)	Photo	7487	1	Medium density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	SCN(black)	Photo	7487	2	High density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	SCN(black)	Gray scale	7488	0	Low density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	SCN(black)	Gray scale	7488	1	Medium density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	SCN(black)	Gray scale	7488	2	High density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustment mode	Image Processing	Image			7489		Amount of surrounding void (network scanning)	0	0~255	SYS	When the value increases, the blank area around the scanned image becomes wider. (e.g.: In network scanning with 600 dpi, if the setting value is "1", the blank area increases by 1 dot.)	1	
05	Adjustment mode	Image Processing	Density adjustment	FAX(black)	Manual adjustment/Center value	7533		Text/Photo	128	0~255	SYS	The larger the value is, the darker the image at the center value becomes.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	FAX(black)	Simple binarization adjustmentt/Center value	7534		Text	128	0~255	SYS	The larger the value is, the darker the image at the center value becomes.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	FAX(black)	Manual adjustment/Center value	7535		Photo	128	0~255	SYS	The larger the value is, the darker the image at the center value becomes.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	FAX(black)	Automatic density adjustment	7542		Text/Photo	128	0~255	SYS	When the value increases, the image becomes darker.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	FAX(black)	Automatic density adjustment	7543		Photo	128	0~255	SYS	When the value increases, the image becomes darker.	1	Yes
05	Adjustment mode	Image Processing	Image	Setting beam level conversion(FAX)	FAX	7595	0	Beamlevel 0/4	0	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Image	Setting beam level conversion(FAX)	FAX	7595	1	Beamlevel 1/4	2	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Image	Setting beam level conversion(FAX)	FAX	7595	2	Beamlevel 2/4	3	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Image	Setting beam level conversion(FAX)	FAX	7595	3	Beamlevel 3/4	4	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Image	Setting beam level conversion(FAX)	FAX	7595	4	Beamlevel 4/4	8	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Blank page judgment threshold adjustment			7618		PPC/SCN	128	0~255	SYS	The larger the value is, the more the original tends to be judged as a blank page.	1	Yes
05	Adjustment mode	Image Processing	ACS judgment threshold			7630		PPC/SCN	70	0~255	SYS	The larger the value is, the more an original tends to be judged as black even at the auto color mode. The smaller value is, the more it tends to be judged as color.	1	Yes
05	Adjustment mode	Image Processing	Stroke adjustment	PS/PDF automatic stroke adjustment	600dpi	8239	0	Default setting	0	0-1	SYS	This code is used to change the width of fine line when PS and PDF printing. Automatic stroke adjustment is the function that prevents the width from changing by position. This code sets whether the automatic stroke adjustment is enabled or disabled if automatic stroke adjustment is not included in the print data. If this setting is disabled, the case in which the width of fine line becomes thicker by 1 dot when printed increases. 0: Disabled 1: Enabled	4	
05	Adjustment mode	Image Processing	Stroke adjustment	PS/PDF automatic stroke adjustment	600dpi	8239	1	Minimum stroke width when disabled	2	1-2	SYS	This code is used to change the width of fine line when PS and PDF printing. Automatic stroke adjustment is the function that prevents the width from changing by position. This code sets the minimum width of fine line when the automatic stroke adjustment is disabled. For example, if automatic stroke adjustment is disabled and the width of fine line is set to "0" in the PS command, the width of line becomes 1 dot if the value of this code is set to "1", and the width of line becomes 2 dots if the value of this code is set to "2." 1: 1 dot 2: 2 dots	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Background adjustmen	SCN (color)		8309		Text/Photo	128	0~255	SYS	The smaller the value is, the lighter the background becomes.	1	Yes
05	Adjustment mode	Image Processing	Background adjustmen	SCN (color)		8310		Text	128	0~255	SYS	The smaller the value is, the lighter the background becomes.	1	Yes
05	Adjustment mode	Image Processing	Background adjustmen	SCN (color)		8311		Printed image	128	0~255	SYS	The smaller the value is, the lighter the background becomes.	1	Yes
05	Adjustment mode	Image Processing	Fine adjustment of black density	SCN (color)		8314		Text/Photo	1	0~4	SYS	The larger the value is, the darker the black side of the image becomes.	1	Yes
05	Adjustment mode	Image Processing	Fine adjustment of black density	SCN (color)		8315		Text	0	0~4	SYS	The larger the value is, the darker the black side of the image becomes.	1	Yes
05	Adjustment mode	Image Processing	Fine adjustment of black density	SCN (color)		8316		Printed image	0	0~4	SYS	The larger the value is, the darker the black side of the image becomes.	1	Yes
05	Adjustment mode	Image Processing	RGB conversion method selection	SCN (color)		8319		Text/photo	0	0~3	SYS	Sets the color space format of the output image. 0: sRGB 1: AppleRGB 2: ROMMRGB 3: AdobeRGB	1	Yes
05	Adjustment mode	Image Processing	RGB conversion method selection	SCN (color)		8320		Text	0	0~3	SYS	Sets the color space format of the output image. 0: sRGB 1: AppleRGB 2: ROMMRGB 3: AdobeRGB	1	Yes
05	Adjustment mode	Image Processing	RGB conversion method selection	SCN (color)		8321		Printed image	0	0~3	SYS	Sets the color space format of the output image. 0: sRGB 1: AppleRGB 2: ROMMRGB 3: AdobeRGB	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustmen t mode	Image Processin g	Saturation adjustmen t	SCN (color)		8324		Text/photo	128	0~255	SYS	The larger the value is, the brighter the image becomes. The smaller the value is, the duller the image becomes.	1	Yes
05	Adjustmen t mode	Image Processin g	Saturation adjustmen t	SCN (color)		8325		Text	128	0~255	SYS	The larger the value is, the brighter the image becomes. The smaller the value is, the duller the image becomes.	1	Yes
05	Adjustmen t mode	Image Processin g	Saturation adjustmen t	SCN (color)		8326		Printed image	128	0~255	SYS	The larger the value is, the brighter the image becomes. The smaller the value is, the duller the image becomes.	1	Yes
05	Adjustmen t mode	Image Processin g	Range correction adjustmen t	SCN (color)	Full color/Automatic density adjustment	8330		Text	1	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes
05	Adjustmen t mode	Image Processin g	Range correction adjustmen t	SCN (color)	Full color/Automatic density adjustment	8331		Printed image	1	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes
05	Adjustmen t mode	Image Processin g	Range correction adjustmen t	SCN (color)	Full color/Automatic density adjustment	8334		User custom	1	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes
05	Adjustmen t mode	Image Processin g	Sharpness adjustmen t	SCN (color)	Full color	8335		Text	128	0~255	SYS	The larger the value is, the sharper the image becomes. The smaller the value is, the softer the image becomes and the less moire appears.	1	Yes
05	Adjustmen t mode	Image Processin g	Sharpness adjustmen t	SCN (color)	Full color	8336		Printed image	128	0~255	SYS	The larger the value is, the sharper the image becomes. The smaller the value is, the softer the image becomes and the less moire appears.	1	Yes
05	Adjustmen t mode	Image Processin g	Density adjustmen t	SCN (color)	Manual adjustment/Center value	8339		Text/photo	128	0~255	SYS	When the value increases, the image becomes darker.	1	Yes
05	Adjustmen t mode	Image Processin g	Density adjustmen t	SCN (color)	Manual adjustment/Center value	8340		Text	128	0~255	SYS	When the value increases, the image becomes darker.	1	Yes
05	Adjustmen t mode	Image Processin g	Density adjustmen t	SCN (color)	Manual adjustment/Center value	8341		Printed image	128	0~255	SYS	When the value increases, the image becomes darker.	1	Yes
05	Adjustmen t mode	Image Processin g	Density adjustmen t	SCN (color)	Manual adjustment/Light step value	8344		Text	20	0~255	SYS	Sets the changing amount per step of the density adjustment buttons on the control panel. The larger the value is, the lighter the image of the "light" step becomes.	1	Yes
05	Adjustmen t mode	Image Processin g	Density adjustmen t	SCN (color)	Manual adjustment/Light step value	8345		Printed image	20	0~255	SYS	Sets the changing amount per step of the density adjustment buttons on the control panel. The larger the value is, the lighter the image of the "light" step becomes.	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Density adjustment	SCN (color)	Manual adjustment/Dark step value	8348		Text	20	0~255	SYS	Sets the changing amount per step of the density adjustment buttons on the control panel. The larger the value is, the darker the image of the "dark" step becomes.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	SCN (color)	Manual adjustment/Dark step value	8349		Printed image	20	0~255	SYS	Sets the changing amount per step of the density adjustment buttons on the control panel. The larger the value is, the darker the image of the "dark" step becomes.	1	Yes
05	Adjustment mode	Image Processing	Sharpness adjustment	SCN (color)		8354		Text/photo	128	0~255	SYS	The larger the value is, the sharper the image becomes. The smaller the value is, the softer the image becomes and the less moire appears.	1	Yes
05	Adjustment mode	Image Processing	Background offset adjustment	SCN (color)	Automatic density adjustment	8355		Text/photo	128	0~255	SYS	The larger the value is, the lighter the background becomes. The smaller the value is, the darker it becomes.	1	Yes
05	Adjustment mode	Image Processing	Background offset adjustment	SCN (color)	Manual density adjustment	8356		Text/photo	128	0~255	SYS	The larger the value is, the lighter the background becomes. The smaller the value is, the darker it becomes.	1	Yes
05	Adjustment mode	Image Processing	Range correction adjustment	SCN(color)	Full color/Manual density adjustment	8360		Text/Photo	0	0-1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes
05	Adjustment mode	Image Processing	Range correction adjustment	SCN (color)	Full color/Manual density adjustment	8361		Text	0	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes
05	Adjustment mode	Image Processing	Range correction adjustment	SCN (color)	Full color/Manual density adjustment	8362		Printed image	0	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes
05	Adjustment mode	Image Processing	Range correction adjustment	SCN (color)	Full color/Manual density adjustment	8365		User custom	0	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes
05	Adjustment mode	Image Processing	Background adjustment	SCN (color)		8370		User custom	128	0~255	SYS	When the value increases, the background becomes lighter.	1	Yes
05	Adjustment mode	Image Processing	Fine adjustment of black density	SCN (color)		8371		User custom	0	0~4	SYS	Adjusts the black density of the scanned image. When the value increases, the black density becomes darker.	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	RGB conversion method selection	SCN (color)		8372		User custom	0	0~3	SYS	Sets the color space format of the output image. 0: sRGB 1: AppleRGB 2: ROMMRGB 3: AdobeRGB	1	Yes
05	Adjustment mode	Image Processing	Saturation adjustment	SCN (color)		8373		User custom	128	0~255	SYS	The larger the value is, the brighter the image becomes. The smaller the value is, the duller the image becomes.	1	Yes
05	Adjustment mode	Image Processing	Sharpness adjustment	SCN (color)	Full color	8375		User custom	128	0~255	SYS	The larger the value is, the sharper the image becomes. The smaller the value is, the softer the image becomes and the less moire appears.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	SCN (color)	Manual adjustment/Center value	8380		User custom	128	0~255	SYS	When the value increases, the image becomes darker.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	SCN (color)	Manual adjustment/Light step value	8381		User custom	20	0~255	SYS	Sets the changing amount per step of the density adjustment buttons on the control panel. The larger the value is, the lighter the image of the "light" step becomes.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	SCN (color)	Manual adjustment/Dark step value	8382		User custom	20	0~255	SYS	Sets the changing amount per step of the density adjustment buttons on the control panel. The larger the value is, the darker the image of the "dark" step becomes.	1	Yes
05	Adjustment mode	Image Processing	Background offset adjustment	SCN (color)	Automatic density adjustment	8385		Text	128	0~255	SYS	The larger the value is, the less easily the background (low density area) is printed. The smaller the value is, the more easily the background (low density area) is printed.	1	Yes
05	Adjustment mode	Image Processing	Background offset adjustment	SCN (color)	Automatic density adjustment	8386		Printed image	128	0~255	SYS	The larger the value is, the less easily the background (low density area) is printed. The smaller the value is, the more easily the background (low density area) is printed.	1	Yes
05	Adjustment mode	Image Processing	Background offset adjustment	SCN (color)	Automatic density adjustment	8389		User custom	128	0~255	SYS	The larger the value is, the less easily the background (low density area) is printed. The smaller the value is, the more easily the background (low density area) is printed.	1	Yes
05	Adjustment mode	Image Processing	Background offset adjustment	SCN (color)	Manual density adjustment	8390		Text	128	0~255	SYS	The larger the value is, the less easily the background (low density area) is printed. The smaller the value is, the more easily the background (low density area) is printed.	1	Yes
05	Adjustment mode	Image Processing	Background offset adjustment	SCN (color)	Manual density adjustment	8391		Printed image	128	0~255	SYS	The larger the value is, the less easily the background (low density area) is printed. The smaller the value is, the more easily the background (low density area) is printed.	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Background offset adjustment	SCN (color)	Manual density adjustment	8394		User custom	128	0~255	SYS	The larger the value is, the less easily the background (low density area) is printed. The smaller the value is, the more easily the background (low density area) is printed.	1	Yes
05	Adjustment mode	Image Processing	Background offset adjustment	SCN(black)	Automatic density adjustment	8400		Text/Photo	128	0~255	SYS	The larger the value is, the less easily the background (low density area) is printed. The smaller the value is, the more easily the background (low density area) is printed.	1	Yes
05	Adjustment mode	Image Processing	Background offset adjustment	SCN(black)	Automatic density adjustment	8402		Photo	128	0~255	SYS	The larger the value is, the less easily the background (low density area) is printed. The smaller the value is, the more easily the background (low density area) is printed.	1	Yes
05	Adjustment mode	Image Processing	Background offset adjustment	SCN(black)	Automatic density adjustment	8403		Gray scale	128	0~255	SYS	The larger the value is, the less easily the background (low density area) is printed. The smaller the value is, the more easily the background (low density area) is printed.	1	Yes
05	Adjustment mode	Image Processing	Background offset adjustment	SCN(black)	Automatic density adjustment	8404		User custom	128	0~255	SYS	The larger the value is, the less easily the background (low density area) is printed. The smaller the value is, the more easily the background (low density area) is printed.	1	Yes
05	Adjustment mode	Image Processing	Background offset adjustment	SCN(black)	Manual density adjustment	8405		Text/Photo	128	0~255	SYS	The larger the value is, the less easily the background (low density area) is printed. The smaller the value is, the more easily the background (low density area) is printed.	1	Yes
05	Adjustment mode	Image Processing	Background offset adjustment	SCN(black)	Manual density adjustment	8407		Photo	128	0~255	SYS	The larger the value is, the less easily the background (low density area) is printed. The smaller the value is, the more easily the background (low density area) is printed.	1	Yes
05	Adjustment mode	Image Processing	Background offset adjustment	SCN(black)	Manual density adjustment	8408		Gray scale	128	0~255	SYS	The larger the value is, the less easily the background (low density area) is printed. The smaller the value is, the more easily the background (low density area) is printed.	1	Yes
05	Adjustment mode	Image Processing	Background offset adjustment	SCN(black)	Manual density adjustment	8409		User custom	128	0~255	SYS	The larger the value is, the less easily the background (low density area) is printed. The smaller the value is, the more easily the background (low density area) is printed.	1	Yes
05	Adjustment mode	System	Maintenance			9043		Equipment number (serial number) entry	-	-	SYS	When this adjustment is performed with this code, the setting code (08-9601) is also performed automatically (9 digits).	1	
05	Adjustment mode	System	Image			9104		Compression quality of s SLIM PDF background processing	5	0~10	SYS	0-10 0: High compression, low image quality 10: Low compression, high image quality	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustmen t mode	System	Image			9149		Saving image position adjustment log	-	-	-	Saves the image position adjustment log to the USB device. Insert the USB device to the equipment before performing this code.	6	
05	Adjustmen t mode	System	General			9960		Equipment information(SRAM)	Refer to contents	0~2	SYS	Displays the equipment information in SRAM. 0: Not set 1: Destinations other than NAD 2: NAD <Default value> NAD: 2 Others: 1	2	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Procedure	Service UI
08	Setting mode	Process	Fuser			2002		Fuser unit error status counter	0	0~19	M	0: No error 1: C410 (Once) 2: C410 (consecutively occurred) 4: C430 5: C440 6: C450 7: C440 9: C440	1	
08	Setting mode	Process	Fuser			2009		Fuser roller temperature on standby(Center thermistor)	Refer to contents	0~12	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C <Default value> e-STUDIO206L/256/306: 8 e-STUDIO356/456/506: 10	1	
08	Setting mode	Process	Fuser			2010		Fuser roller temperature during printing(Center thermistor/Plain paper)	Refer to contents	0~14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 205°C 14: 210°C <Default value> e-STUDIO206L/256/306: 8 e-STUDIO356/456/506: 10	1	
08	Setting mode	Process	Fuser			2028		Fuser roller temperature during printing(Center thermistor/Thick paper 3)	Refer to contents	0~14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 205°C 14: 210°C <Default value> e-STUDIO206L/256/306: 8 e-STUDIO356/456/506: 10	1	
08	Setting mode	Process	Fuser			2031		Pre-running time for first printing(Thick paper 3)	10	0~15	M	0: Invalid 1: 1 sec. 2: 2 sec. 3: 3 sec. 4: 4 sec. 5: 5 sec. 6: 6 sec. 7: 7 sec. 8: 8 sec. 9: 9 sec. 10: 10 sec. 11: 12 sec. 12: 14 sec. 13: 16 sec. 14: 18 sec. 15: 20 sec.	1	
08	Setting mode	Process	Fuser			2040		Drop control when ready	1	0~2	M	0: Invalid, 1:Valid, 2: Invalid in low temperature	1	
08	Setting mode	Process	Fuser	Temperature drop setting in ready status (Center thermistor)		2041	0	The first drop	Refer to contents	0~10	M	This code is valid only when "20" is set to 08-2135. Setting value x -5°C: from 0°C to -50°C <Default value> e-STUDIO206L/256/306: 1 e-STUDIO356/456/506: 0	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser	Temperature drop setting in ready status (Center thermistor)		2041	1	The second drop	Refer to contents	0~10	M	This code is valid only when "20" is set to 08-2135. Setting value x -5°C: from 0°C to -50°C <Default value> e-STUDIO206L/256/306: 1 e-STUDIO356/456/506: 0	4	
08	Setting mode	Process	Fuser	Temperature drop setting in ready status (Center thermistor)		2041	2	The third drop	Refer to contents	0~10	M	This code is valid only when "20" is set to 08-2135. Setting value x -5°C: from 0°C to -50°C <Default value> e-STUDIO206L/256/306: 1 e-STUDIO356/456/506: 0	4	
08	Setting mode	Process	Fuser	Temperature drop setting in ready status (Center thermistor)		2041	3	The fourth drop	Refer to contents	0~10	M	This code is valid only when "20" is set to 08-2135. Setting value x -5°C: from 0°C to -50°C <Default value> e-STUDIO206L/256/306: 1 e-STUDIO356/456/506: 0	4	
08	Setting mode	Process	Fuser	Energy Saving Mode	Fuser roller temperature	2042		Center thermistor	0	0~13	M	0: OFF 1: 40°C 2: 50°C 3: 60°C 4: 70°C 5: 80°C 6: 90°C 7: 100°C 8: 110°C 9: 120°C 10: 130°C 11: 140°C 12: 150°C 13: 160°C	1	Yes
08	Setting mode	Process	Fuser			2049		Fuser roller temperature during printing(Center thermistor/Thick paper 1)	Refer to contents	0~14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 205°C 14: 210°C <Default value> e-STUDIO206L/256/306: 8 e-STUDIO356/456/506: 10	1	
08	Setting mode	Process	Fuser			2050		Fuser roller temperature during printing(Center thermistor /Thick paper 2)	Refer to contents	0~14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 205°C 14: 210°C <Default value> e-STUDIO206L/256/306: 8 e-STUDIO356/456/506: 10	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Procedure	Service UI
08	Setting mode	Process	Fuser			2051		Fuser roller temperature during printing(Center thermistor/OHP film)	Refer to contents	0~14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 205°C 14: 210°C <Default value> e-STUDIO206L/256/306: 8 e-STUDIO356/456/506: 10	1	
08	Setting mode	Process	Fuser			2052		Pre-running time for first printing (OHP film)	0	0~15	M	0: Invalid 1: 1 sec. 2: 2 sec. 3: 3 sec. 4: 4 sec. 5: 5 sec. 6: 6 sec. 7: 7 sec. 8: 8 sec. 9: 9 sec. 10: 10 sec. 11: 12 sec. 12: 14 sec. 13: 16 sec. 14: 18 sec. 15: 20 sec.	1	
08	Setting mode	Process	Fuser			2053		Pre-running time for first printing(Plain paper/Low temperature)	0	0~15	M	0: Invalid 1: 1 sec. 2: 2 sec. 3: 3 sec. 4: 4 sec. 5: 5 sec. 6: 6 sec. 7: 7 sec. 8: 8 sec. 9: 9 sec. 10: 10 sec. 11: 12 sec. 12: 14 sec. 13: 16 sec. 14: 18 sec. 15: 20 sec.	1	
08	Setting mode	Process	Fuser			2054		Pre-running time for first printing(Thick paper 1)	0	0~15	M	0: Invalid 1: 1 sec. 2: 2 sec. 3: 3 sec. 4: 4 sec. 5: 5 sec. 6: 6 sec. 7: 7 sec. 8: 8 sec. 9: 9 sec. 10: 10 sec. 11: 12 sec. 12: 14 sec. 13: 16 sec. 14: 18 sec. 15: 20 sec.	1	
08	Setting mode	Process	Fuser			2055		Pre-running time for first printing(Thick paper 2)	10	0~15	M	0: Invalid 1: 1 sec. 2: 2 sec. 3: 3 sec. 4: 4 sec. 5: 5 sec. 6: 6 sec. 7: 7 sec. 8: 8 sec. 9: 9 sec. 10: 10 sec. 11: 12 sec. 12: 14 sec. 13: 16 sec. 14: 18 sec. 15: 20 sec.	1	
08	Setting mode	Process	Fuser			2075		Pre-running operation cycle in ready status and energy saving mode (Times of heat source ON)	Refer to contents	0~6	M	0: Not controlled 1: 180 times 2: 360 times 3: 540 times 4: 720 times 5: 900 times 6: 1080 times <Default value> e-STUDIO206L/256/306: 2 e-STUDIO356/456/506: 3	1	
08	Setting mode	Process	Fuser			2100		Temperature setting of warming-up(Center thermistor)	Refer to contents	0~14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 205°C 14: 210°C <Default value> e-STUDIO206L/256/306: 4 e-STUDIO356/456/506: 8	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser			2101		Temperature setting of warming-up(Side thermistor)	Refer to contents	0~14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 205°C 14: 210°C <Default value> e-STUDIO206L/256/306: 4 e-STUDIO356/456/506: 8	1	
08	Setting mode	Process	Fuser			2111		Pre-running time (Normal temperature)	3	0~18	M	0: Disabled 1: 1 sec. 2: 2 sec. 3: 3 sec. 4: 4 sec. 5: 5 sec. 6: 6 sec. 7: 7 sec. 8: 8 sec. 9: 9 sec. 10: 10 sec. 11: 15 sec. 12: 20 sec. 13: 25 sec. 14: 30 sec. 15: 40 sec. 16: 50 sec. 17: 60 sec. 18: 150 sec.	1	
08	Setting mode	Process	Fuser			2120		Fuser roller temperature in ready status(Side thermistor)	Refer to contents	0~12	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C <Default value> e-STUDIO206L/256/306: 8 e-STUDIO356/456/506: 10	1	
08	Setting mode	Process	Fuser	Temperature drop setting in ready status (Side thermistor)		2121	0	The first drop	Refer to contents	0~10	M	This code is valid only when "20" is set to 08-2135. Setting value x -5°C: from 0°C to -50°C <Default value> e-STUDIO206L/256/306: 4 e-STUDIO356/456/506: 0	4	
08	Setting mode	Process	Fuser	Temperature drop setting in ready status (Side thermistor)		2121	1	The second drop	Refer to contents	0~10	M	This code is valid only when "20" is set to 08-2135. Setting value x -5°C: from 0°C to -50°C <Default value> e-STUDIO206L/256/306: 4 e-STUDIO356/456/506: 0	4	
08	Setting mode	Process	Fuser	Temperature drop setting in ready status (Side thermistor)		2121	2	The third drop	Refer to contents	0~10	M	This code is valid only when "20" is set to 08-2135. Setting value x -5°C: from 0°C to -50°C <Default value> e-STUDIO206L/256/306: 4 e-STUDIO356/456/506: 0	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser	Temperature drop setting in ready status (Side thermistor)		2121	3	The fourth drop	Refer to contents	0~10	M	This code is valid only when "20" is set to 08-2135. Setting value x -5°C: from 0°C to -50°C <Default value> e-STUDIO206L/256/306: 4 e-STUDIO356/456/506: 0	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting in ready status (Center thermistor)		2133	0	The first drop	15	10~60	M	This code is valid only when "20" is set to 08-2135. Setting value x 1 min.: from 10 to 60 min. later	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting in ready status (Center thermistor)		2133	1	The second drop	15	10~60	M	This code is valid only when "20" is set to 08-2135. Setting value x 1 min.: from 10 to 60 min. later	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting in ready status (Center thermistor)		2133	2	The third drop	15	10~60	M	This code is valid only when "20" is set to 08-2135. Setting value x 1 min.: from 10 to 60 min. later	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting in ready status (Center thermistor)		2133	3	The fourth drop	15	10~60	M	This code is valid only when "20" is set to 08-2135. Setting value x 1 min.: from 10 to 60 min. later	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting in ready status (Side thermistor)		2134	0	The first drop	15	10~60	M	This code is valid only when "20" is set to 08-2135. Setting value x 1 min.: from 10 to 60 min. later	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting in ready status (Side thermistor)		2134	1	The second drop	15	10~60	M	This code is valid only when "20" is set to 08-2135. Setting value x 1 min.: from 10 to 60 min. later	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting in ready status (Side thermistor)		2134	2	The third drop	15	10~60	M	This code is valid only when "20" is set to 08-2135. Setting value x 1 min.: from 10 to 60 min. later	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser	Temperature drop switching time setting in ready status (Side thermistor)		2134	3	The fourth drop	15	10~60	M	This code is valid only when "20" is set to 08-2135. Setting value x 1 min.: from 10 to 60 min. later	4	
08	Setting mode	Process	Fuser			2135		Temperature drop control setting in ready status (Temperature/Time)	2	0~20	M	0: None 1: Pattern 1 2: Pattern 2 3: Pattern 3 4: Pattern 4 5: Pattern 5 6: Pattern 6 7: Pattern 7 8: Pattern 8 9: Pattern 9 10: Pattern 10 11: Pattern 11 12: Pattern 12 13: Pattern 13 14: Pattern 14 15: Pattern 15 16: Pattern 16 17: Pattern 17 18: Pattern 18 19: Pattern 19 20: Manual adjustment	1	
08	Setting mode	Process	Fuser			2140		Fuser roller temperature during printing(Side thermistor/Plain paper)	Refer to contents	0~14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 205°C 14: 210°C <Default value> e-STUDIO206L/256/306: 8 e-STUDIO356/456/506: 10	1	
08	Setting mode	Process	Fuser			2141		Fuser roller temperature during printing(Side thermistor/Thick paper 1)	Refer to contents	0~14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 205°C 14: 210°C <Default value> e-STUDIO206L/256/306: 8 e-STUDIO356/456/506: 10	1	
08	Setting mode	Process	Fuser			2142		Fuser roller temperature during printing(Side thermistor/Thick paper 2)	Refer to contents	0~14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 205°C 14: 210°C <Default value> e-STUDIO206L/256/306: 8 e-STUDIO356/456/506: 10	1	
08	Setting mode	Process	Fuser			2143		Fuser roller temperature during printing(Side thermistor/OHP film)	Refer to contents	0~14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 205°C 14: 210°C <Default value> e-STUDIO206L/256/306: 8 e-STUDIO356/456/506: 10	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser	Temperature drop setting during printing (Center thermistor)		2190	0	The first drop	Refer to contents	0~10	M	Setting value x -5°C: from 0°C to -50°C This code is valid only when "20" is set to 08-2214-0. <Default value> e-STUDIO206L/256/306: 1 e-STUDIO356/456/506: 0	4	
08	Setting mode	Process	Fuser	Temperature drop setting during printing (Center thermistor)		2190	1	The second drop	2	0~10	M	Setting value x -5°C: from 0°C to -50°C This code is valid only when "20" is set to 08-2214-0.	4	
08	Setting mode	Process	Fuser	Temperature drop setting during printing (Center thermistor)		2190	2	The third drop	Refer to contents	0~10	M	Setting value x -5°C: from 0°C to -50°C This code is valid only when "20" is set to 08-2214-0. <Default value> e-STUDIO206L/256/306: 2 e-STUDIO356/456/506: 3	4	
08	Setting mode	Process	Fuser	Temperature drop setting during printing (Center thermistor)		2190	3	The fourth drop	3	0~10	M	Setting value x -5°C: from 0°C to -50°C This code is valid only when "20" is set to 08-2214-0.	4	
08	Setting mode	Process	Fuser	Temperature drop setting during printing (Side thermistor)		2191	0	The first drop	Refer to contents	0~10	M	Setting value x -5°C: from 0°C to -50°C This code is valid only when "20" is set to 08-2214-0. <Default value> e-STUDIO206L/256/306: 2 e-STUDIO356/456/506: 4	4	
08	Setting mode	Process	Fuser	Temperature drop setting during printing (Side thermistor)		2191	1	The second drop	Refer to contents	0~10	M	Setting value x -5°C: from 0°C to -50°C This code is valid only when "20" is set to 08-2214-0. <Default value> e-STUDIO206L/256/306: 3 e-STUDIO356/456/506: 6	4	
08	Setting mode	Process	Fuser	Temperature drop setting during printing (Side thermistor)		2191	2	The third drop	Refer to contents	0~10	M	Setting value x -5°C: from 0°C to -50°C This code is valid only when "20" is set to 08-2214-0. <Default value> e-STUDIO206L/256/306: 4 e-STUDIO356/456/506: 6	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser	Temperature drop setting during printing (Side thermistor)		2191	3	The fourth drop	Refer to contents	0~10	M	Setting value x -5°C: from 0°C to -50°C This code is valid only when "20" is set to 08-2214-0. <Default value> e-STUDIO206L/256/306: 5 e-STUDIO356/456/506: 6	4	
08	Setting mode	Process	Fuser			2192		Fuser roller temperature during printing(Side thermistor/Thick paper 3)	Refer to contents	0~14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 205°C 14: 210°C <Default value> e-STUDIO206L/256/306: 8 e-STUDIO356/456/506: 10	1	
08	Setting mode	Process	Fuser			2194		Fuser roller temperature during printing(Center thermistor/Envelope)	Refer to contents	0~14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 205°C 14: 210°C <Default value> e-STUDIO206L/256/306: 11 e-STUDIO356/456/506: 13	1	
08	Setting mode	Process	Fuser			2195		Fuser roller temperature during printing(Side thermistor/Envelope)	Refer to contents	0~14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 205°C 14: 210°C <Default value> e-STUDIO206L/256/306: 9 e-STUDIO356/456/506: 11	1	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing on thick paper (Center thermistor)		2198	0	The first drop	Refer to contents	0~200	M	Setting value x 5 seconds: from 0 to 1000 seconds This code is valid only when "20" is set to 08-2214-1. <Default value> e-STUDIO206L/256/306: 20 e-STUDIO356/456/506: 5	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing on thick paper (Center thermistor)		2198	1	The second drop	Refer to contents	0~200	M	Setting value x 5 seconds: from 0 to 1000 seconds This code is valid only when "20" is set to 08-2214-1. <Default value> e-STUDIO206L/256/306: 30 e-STUDIO356/456/506: 18	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing on thick paper (Center thermistor)		2198	2	The third drop	Refer to contents	0~200	M	Setting value x 5 seconds: from 0 to 1000 seconds This code is valid only when "20" is set to 08-2214-1. <Default value> e-STUDIO206L/256/306: 40 e-STUDIO356/456/506: 24	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing on thick paper (Center thermistor)		2198	3	The fourth drop	75	0~200	M	Setting value x 5 seconds: from 0 to 1000 seconds This code is valid only when "20" is set to 08-2214-1.	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing on thick paper (Side thermistor)		2199	0	The first drop	Refer to contents	0~200	M	Setting value x 5 seconds: from 0 to 1000 seconds This code is valid only when "20" is set to 08-2214-1. <Default value> e-STUDIO206L/256/306: 20 e-STUDIO356/456/506: 5	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing on thick paper (Side thermistor)		2199	1	The second drop	Refer to contents	0~200	M	Setting value x 5 seconds: from 0 to 1000 seconds This code is valid only when "20" is set to 08-2214-1. <Default value> e-STUDIO206L/256/306: 30 e-STUDIO356/456/506: 18	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing on thick paper (Side thermistor)		2199	2	The third drop	Refer to contents	0~200	M	Setting value x 5 seconds: from 0 to 1000 seconds This code is valid only when "20" is set to 08-2214-1. <Default value> e-STUDIO206L/256/306: 40 e-STUDIO356/456/506: 24	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing on thick paper (Side thermistor)		2199	3	The fourth drop	75	0~200	M	Setting value x 5 seconds: from 0 to 1000 seconds This code is valid only when "20" is set to 08-2214-1.	4	
08	Setting mode	Process	Fuser	Dropping temperature setting when printing on thick paper		2200	0	First drop	Refer to contents	0~10	M	Setting value x 5°C: 0 to 50°C This code is valid only when "20" is set to 08-2214-1. <Default value> e-STUDIO206L/256/306: 1 e-STUDIO356/456/506: 0	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser	Dropping temperature setting when printing on thick paper		2200	1	Second drop	2	0~10	M	Setting value x 5°C: 0 to 50°C This code is valid only when "20" is set to 08-2214-1.	4	
08	Setting mode	Process	Fuser	Dropping temperature setting when printing on thick paper		2200	2	Third drop	Refer to contents	0~10	M	Setting value x 5°C: 0 to 50°C This code is valid only when "20" is set to 08-2214-1. <Default value> e-STUDIO206L/256/306: 2 e-STUDIO356/456/506: 3	4	
08	Setting mode	Process	Fuser	Dropping temperature setting when printing on thick paper		2200	3	Fourth drop	3	0~10	M	Setting value x 5°C: 0 to 50°C This code is valid only when "20" is set to 08-2214-1.	4	
08	Setting mode	Process	Fuser	Temperature drop setting during printing on thick paper (Side thermistor)		2201	0	The first drop	Refer to contents	0~10	M	Setting value x -5°C: from 0°C to -50°C This code is valid only when "20" is set to 08-2214-1 <Default value> e-STUDIO206L/256/306: 2 e-STUDIO356/456/506: 4	4	
08	Setting mode	Process	Fuser	Temperature drop setting during printing on thick paper (Side thermistor)		2201	1	The second drop	Refer to contents	0~10	M	Setting value x -5°C: from 0°C to -50°C This code is valid only when "20" is set to 08-2214-1 <Default value> e-STUDIO206L/256/306: 3 e-STUDIO356/456/506: 6	4	
08	Setting mode	Process	Fuser	Temperature drop setting during printing on thick paper (Side thermistor)		2201	2	The third drop	Refer to contents	0~10	M	Setting value x -5°C: from 0°C to -50°C This code is valid only when "20" is set to 08-2214-1 <Default value> e-STUDIO206L/256/306: 4 e-STUDIO356/456/506: 6	4	
08	Setting mode	Process	Fuser	Temperature drop setting during printing on thick paper (Side thermistor)		2201	3	The fourth drop	Refer to contents	0~10	M	Setting value x -5°C: from 0°C to -50°C This code is valid only when "20" is set to 08-2214-1 <Default value> e-STUDIO206L/256/306: 5 e-STUDIO356/456/506: 6	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser	Temperature control lower limit (Plain paper/Normal temperature)		2205	0	Center thermistor	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 185°C 12: 120°C <Default value> e-STUDIO206L/256/306: 7 e-STUDIO356/456/506: 8	4	
08	Setting mode	Process	Fuser	Temperature control lower limit (Plain paper/at ordinary temperature)		2205	1	Side thermistor	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 185°C 12: 120°C <Default value> e-STUDIO206L/256/306: 5 e-STUDIO356/456/506: 6	4	
08	Setting mode	Process	Fuser	Temperature control lower limit (Plain paper/Low temperature)		2206	0	Center thermistor	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 185°C 12: 120°C <Default value> e-STUDIO206L/256/306: 7 e-STUDIO356/456/506: 11	4	
08	Setting mode	Process	Fuser	Temperature control lower limit (Plain paper/Low temperature)		2206	1	Side thermistor	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 185°C 12: 120°C <Default value> e-STUDIO206L/256/306: 5 e-STUDIO356/456/506: 7	4	
08	Setting mode	Process	Fuser	Temperature control lower limit (OHP film)		2207	0	Center thermistor	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 185°C 12: 120°C <Default value> e-STUDIO206L/256/306: 8 e-STUDIO356/456/506: 11	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser	Temperature control lower limit (OHP film)		2207	1	Side thermistor	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 185°C 12: 120°C <Default value> e-STUDIO206L/256/306: 6 e-STUDIO356/456/506: 7	4	
08	Setting mode	Process	Fuser	Temperature control lower limit (Thick paper 1)		2208	0	Center thermistor	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 185°C 12: 120°C <Default value> e-STUDIO206L/256/306: 8 e-STUDIO356/456/506: 10	4	
08	Setting mode	Process	Fuser	Temperature control lower limit (Thick paper 1)		2208	1	Side thermistor	6	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 185°C 12: 120°C	4	
08	Setting mode	Process	Fuser	Temperature control lower limit (Thick paper 2)		2209	0	Center thermistor	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 185°C 12: 120°C <Default value> e-STUDIO206L/256/306: 9 e-STUDIO356/456/506: 11	4	
08	Setting mode	Process	Fuser	Temperature control lower limit (Thick paper 2)		2209	1	Side thermistor	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 185°C 12: 120°C <Default value> e-STUDIO206L/256/306: 9 e-STUDIO356/456/506: 7	4	
08	Setting mode	Process	Fuser	Temperature control lower limit (Thick paper 3)		2210	0	Center thermistor	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 185°C 12: 120°C <Default value> e-STUDIO206L/256/306: 10 e-STUDIO356/456/506: 11	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser	Temperature control lower limit (Thick paper 3)		2210	1	Side thermistor	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 185°C 12: 120°C <Default value> e-STUDIO206L/256/306: 10 e-STUDIO356/456/506: 7	4	
08	Setting mode	Process	Fuser	Temperature control lower limit (Envelope)		2211	0	Center thermistor	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 185°C 12: 120°C <Default value> e-STUDIO206L/256/306: 10 e-STUDIO356/456/506: 11	4	
08	Setting mode	Process	Fuser	Temperature control lower limit (Envelope)		2211	1	Side thermistor	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 185°C 12: 120°C <Default value> e-STUDIO206L/256/306: 10 e-STUDIO356/456/506: 7	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing (Center thermistor)		2212	0	The first drop	Refer to contents	0~200	M	Setting value x 5 sec.: from 0 to 1,000 sec. later This code is valid only when "20" is set to 08-2214-0. <Default value> e-STUDIO206L/256/306: 20 e-STUDIO356/456/506: 5	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing (Center thermistor)		2212	1	The second drop	Refer to contents	0~200	M	Setting value x 5 sec.: from 0 to 1,000 sec. later This code is valid only when "20" is set to 08-2214-0. <Default value> e-STUDIO206L/256/306: 30 e-STUDIO356/456/506: 18	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing (Center thermistor)		2212	2	The third drop	Refer to contents	0~200	M	Setting value x 5 sec.: from 0 to 1,000 sec. later This code is valid only when "20" is set to 08-2214-0. <Default value> e-STUDIO206L/256/306: 40 e-STUDIO356/456/506: 24	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing (Center thermistor)		2212	3	The fourth drop	75	0~200	M	Setting value x 5 sec.: from 0 to 1,000 sec. later This code is valid only when "20" is set to 08-2214-0.	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing (Side thermistor)		2213	0	The first drop	Refer to contents	0~200	M	Setting value x 5 sec.: from 0 to 1,000 sec. later This code is valid only when "20" is set to 08-2214-0. <Default value> e-STUDIO206L/256/306: 20 e-STUDIO356/456/506: 5	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing (Side thermistor)		2213	1	The second drop	Refer to contents	0~200	M	Setting value x 5 sec.: from 0 to 1,000 sec. later This code is valid only when "20" is set to 08-2214-0. <Default value> e-STUDIO206L/256/306: 30 e-STUDIO356/456/506: 18	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing (Side thermistor)		2213	2	The third drop	Refer to contents	0~200	M	Setting value x 5 sec.: from 0 to 1,000 sec. later This code is valid only when "20" is set to 08-2214-0. <Default value> e-STUDIO206L/256/306: 40 e-STUDIO356/456/506: 24	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing (Side thermistor)		2213	3	The fourth drop	75	0~200	M	Setting value x 5 sec.: from 0 to 1,000 sec. later This code is valid only when "20" is set to 08-2214-0.	4	
08	Setting mode	Process	Fuser			2214	0	Temperature drop control setting during printing(Temperature/Time)	Refer to contents	0~20	M	0: None 1: Pattern 1 2: Pattern 2 3: Pattern 3 4: Pattern 4 5: Pattern 5 6: Pattern 6 7: Pattern 7 8: Pattern 8 9: Pattern 9 10: Pattern 10 11: Pattern 11 12: Pattern 12 13: Pattern 13 14: Pattern 14 15: Pattern 15 16: Pattern 16 17: Pattern 17 18: Pattern 18 19: Pattern 19 20: Manual adjustment <Default value> e-STUDIO206L/256/306: 2 e-STUDIO356/456/506: 20	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser			2214	1	Temperature drop control setting during printing(Temperature/Time)	Refer to contents	0~20	M	0: None 1: Pattern 1 2: Pattern 2 3: Pattern 3 4: Pattern 4 5: Pattern 5 6: Pattern 6 7: Pattern 7 8: Pattern 8 9: Pattern 9 10: Pattern 10 11: Pattern 11 12: Pattern 12 13: Pattern 13 14: Pattern 14 15: Pattern 15 16: Pattern 16 17: Pattern 17 18: Pattern 18 19: Pattern 19 20: Manual adjustment <Default value> e-STUDIO206L/256/306: 2 e-STUDIO356/456/506: 20	4	
08	Setting mode	Process	Fuser	Energy Saving Mode	Fuser roller temperature	2250		Side thermistor	0	0~13	M	0: OFF 1: 40°C 2: 50°C 3: 60°C 4: 70°C 5: 80°C 6: 90°C 7: 100°C 8: 110°C 9: 120°C 10: 130°C 11: 140°C 12: 150°C 13: 160°C	1	Yes
08	Setting mode	Process	Fuser			2282		Pre-running time for first printing(Envelope)	10	0~15	M	0: Invalid 1: 1 sec. 2: 2 sec. 3: 3 sec. 4: 4 sec. 5: 5 sec. 6: 6 sec. 7: 7 sec. 8: 8 sec. 9: 9 sec. 10: 10 sec. 11: 12 sec. 12: 14 sec. 13: 16 sec. 14: 18 sec. 15: 20 sec.	1	
08	Setting mode	Process	Developer			2827		Developer bias AC control ON/OFF	1	0~2	M	0: ON 1: ON-OFF 2: OFF	1	
08	Setting mode	Process	Process			2835		Switching of recycled toner saving control	0	0~1	M	0: Switched 1: Not switched	1	
08	Setting mode	Process	Process			2837		Correction by temperature/humidity	0	0~3	M	Sets the correction by temperature/humidity. 0: All valid 1: All invalid 2: Valid only in autotoner sensor 3: All valid except transfer and separation	1	
08	Setting mode	Process	Process			2847		Life correction switching of drum reverse rotation amount	Refer to contents	0~30	M	Set value x 4 msec. = Drum rotation time e-STUDIO206L/256/306: 0: No correction 1 to 30: Corrected (4 to 120 msec.: approx. 0.5 to 16mm) e-STUDIO356/456/506: 0: No correction 1 to 30: Corrected (4 to 120 msec.: approx. 0.8 to 25mm) <Default value> e-STUDIO206L/256/306: 6 e-STUDIO356/456/506: 2	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Process			2848		Life correction switching of normal rotation amount after drum reverse rotation	Refer to contents	0~30	M	Set value x 4 msec. = Drum rotation time e-STUDIO206L/256/306: 0: No correction 1 to 30: Corrected (4 to 120 msec.: approx. 0.5 to 16mm) e-STUDIO356/456/506: 0: No correction 1 to 30: Corrected (4 to 120 msec.: approx. 0.8 to 25mm) <Default value> e-STUDIO206L/256/306: 14 e-STUDIO356/456/506: 9	1	
08	Setting mode	Process	Developer	Developer bias Hi1 correction (Normal)		2920	0	PRT	128	0~255	M	Corrects the value of the developer bias adjustment (05-2020).	4	
08	Setting mode	Process	Developer	Developer bias Hi1 correction (Normal)		2920	2	PPC	128	0~255	M	Corrects the value of the developer bias adjustment (05-2020).	4	
08	Setting mode	Process	Developer	Developer bias Hi1 correction (Text)		2920	3	PPC	128	0~255	M	Corrects the value of the developer bias adjustment (05-2020).	4	
08	Setting mode	Process	Developer	Developer bias Hi1 correction (Photo)		2920	4	PPC	128	0~255	M	Corrects the value of the developer bias adjustment (05-2020).	4	
08	Setting mode	Process	Developer	Developer bias Hi1 correction(FAX)		2920	6	FAX	128	0~255	M	Corrects the value of the developer bias adjustment (05-2020).	4	
08	Setting mode	Process	Developer	Developer bias Hi1 correction (hardcopy security printing)		2920	7	PRT	128	0~255	M	Corrects the value of the developer bias adjustment (05-2020).	4	
08	Setting mode	Process	Developer	Developer bias Hi1 correction(Text/Photo/ OHP film)		2921	0	PRT	108	0~255	M	Corrects the value of the developer bias adjustment (05-2020).	4	
08	Setting mode	Process	Developer	Developer bias Hi1 correction(Text/Photo/ OHP film)		2921	2	PPC	108	0~255	M	Corrects the value of the developer bias adjustment (05-2020).	4	
08	Setting mode	Process	Developer	Developer bias Hi1 correction(Text/OHP film)		2921	3	PPC	108	0~255	M	Corrects the value of the developer bias adjustment (05-2020).	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Developer	Developer bias Hi1 correction(Photo/OHP film)		2921	4	PPC	108	0~255	M	Corrects the value of the developer bias adjustment (05-2020).	4	
08	Setting mode	Process	Developer			2922		Developer bias Hi2 correction	124	0~255	M	Corrects the value of the developer bias adjustment (05-2020).	1	
08	Setting mode	Process	Charger	Main charger bias correction (Normal)		2926	0	PRT	128	0~255	M	Corrects the value of the main charger bias adjustment(05-2040).	4	
08	Setting mode	Process	Charger	Main charger bias correction (Normal)		2926	2	PPC	128	0~255	M	Corrects the value of the main charger bias adjustment(05-2040).	4	
08	Setting mode	Process	Charger	Main charger bias correction (Text)		2926	3	PPC	128	0~255	M	Corrects the value of the main charger bias adjustment(05-2040).	4	
08	Setting mode	Process	Charger	Main charger bias correction (Photo)		2926	4	PPC	128	0~255	M	Corrects the value of the main charger bias adjustment(05-2040).	4	
08	Setting mode	Process	Charger	Main charger bias correction (FAX)		2926	6	PPC	128	0~255	M	Corrects the value of the main charger bias adjustment(05-2040).	4	
08	Setting mode	Process	Charger	Main charger bias correction (hardcopy security printing)		2926	7	PRT	128	0~ 255	M	Corrects the value of the main charger bias adjustment (05-2040).	4	
08	Setting mode	Process	Transfer			2928	0	Transfer transformer DC correction (H)	128	0~255	M	Corrects the value of the transfer transformer DC output adjustment (05-2052).	4	
08	Setting mode	Process	Transfer			2928	1	Transfer transformer DC correction (C)	128	0~255	M	Corrects the value of the transfer transformer DC output adjustment (05-2052).	4	
08	Setting mode	Process	Transfer			2928	2	Transfer transformer DC correction (L)	Refer to contents	0~255	M	Corrects the value of the transfer transformer DC output adjustment (05-2052). <Default value> e-STUDIO206L/256/306: 112 e-STUDIO356/456/506: 108	4	
08	Setting mode	Process	Transfer			2929	0	Thick 1 transfer correction (H)	128	0~255	M	The output value of the transfer bias at the leading edge of paper is corrected.	4	
08	Setting mode	Process	Transfer			2929	1	Thick 1 transfer correction (C)	128	0~255	M	The output value of the transfer bias at the center of the paper is corrected.	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Transfer			2929	2	Thick 1 transfer correction (L)	Refer to contents	0~255	M	The output value of the transfer bias at the trailing edge of paper is corrected. <Default value> e-STUDIO206L/256/306: 128 e-STUDIO356/456/506: 120	4	
08	Setting mode	Process	Transfer			2930	0	Thick 2 transfer correction (H)	Refer to contents	0~255	M	The output value of the transfer bias at the leading edge of paper is corrected. <Default value> e-STUDIO206L/256/306: 131 e-STUDIO356/456/506: 138	4	
08	Setting mode	Process	Transfer			2930	1	Thick 2 transfer correction (C)	Refer to contents	0~255	M	The output value of the transfer bias at the leading edge of paper is corrected. <Default value> e-STUDIO206L/256/306: 131 e-STUDIO356/456/506: 138	4	
08	Setting mode	Process	Transfer			2930	2	Thick 2 transfer correction (L)	Refer to contents	0~255	M	The output value of the transfer bias at the trailing edge of paper is corrected. <Default value> e-STUDIO206L/256/306: 122 e-STUDIO356/456/506: 108	4	
08	Setting mode	Process	Transfer			2932	0	OHP film transfer correction (H)	Refer to contents	0~255	M	The output value of the transfer bias at the leading edge of paper is corrected. <Default value> e-STUDIO206L/256/306: 106 e-STUDIO356/456/506: 118	4	
08	Setting mode	Process	Transfer			2932	1	OHP film transfer correction (C)	Refer to contents	0~255	M	The output value of the transfer bias at the center of the paper is corrected. <Default value> e-STUDIO206L/256/306: 106 e-STUDIO356/456/506: 118	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Transfer			2932	2	OHP film transfer correction (L)	Refer to contents	0~255	M	The output value of the transfer bias at the trailing edge of paper is corrected. <Default value> e-STUDIO206L/256/306: 114 e-STUDIO356/456/506: 110	4	
08	Setting mode	Process	Transfer			2933	0	Envelope transfer correction (H)	Refer to contents	0~255	M	The output value of the transfer bias at the leading edge of paper is corrected. <Default value> e-STUDIO206L/256/306: 133 e-STUDIO356/456/506: 140	4	
08	Setting mode	Process	Transfer			2933	1	Envelope transfer correction (C)	Refer to contents	0~255	M	The output value of the transfer bias at the center of the paper is corrected. <Default value> e-STUDIO206L/256/306: 133 e-STUDIO356/456/506: 140	4	
08	Setting mode	Process	Transfer			2933	2	Envelope transfer correction (L)	Refer to contents	0~255	M	The output value of the transfer bias at the trailing edge of paper is corrected. <Default value> e-STUDIO206L/256/306: 132 e-STUDIO356/456/506: 136	4	
08	Setting mode	Process	Separation			2934	0	Separation transformer DC correction (H)	128	0~255	M	Corrects the value of the separation transformer DC output adjustment (05-2078).	4	
08	Setting mode	Process	Separation			2934	1	Separation transformer DC correction (H)	Refer to contents	0~255	M	Corrects the value of the separation transformer DC output adjustment (05-2078). <Default value> e-STUDIO206L/256/306: 118 e-STUDIO356/456/506: 121	4	
08	Setting mode	Process	Separation			2934	2	Separation transformer DC correction (L)	Refer to contents	0~255	M	Corrects the value of the separation transformer DC output adjustment (05-2078). <Default value> e-STUDIO206L/256/306: 118 e-STUDIO356/456/506: 121	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Separation			2935	0	Separation correction value at Duplex printing (H)	128	0~255	M		4	
08	Setting mode	Process	Separation			2935	1	Separation correction value at Duplex printing (C)	128	0~255	M		4	
08	Setting mode	Process	Separation			2935	2	Separation correction value at Duplex printing (L)	128	0~255	M		4	
08	Setting mode	Process	Separation			2936	0	Separation correction value for transparencies (H)	128	0~255	M		4	
08	Setting mode	Process	Separation			2936	1	Separation correction value for transparencies (C)	128	0~255	M		4	
08	Setting mode	Process	Separation			2936	2	Separation correction value for transparencies (L)	128	0~255	M		4	
08	Setting mode	Process	Laser	Laser power correction (Normal)		2940	0	PRT	128	0~255	M	Corrects the value of the laser power adjustment (05-2250).	4	
08	Setting mode	Process	Laser	Laser power correction (Text/Photo)		2940	2	PPC	128	0~255	M	Corrects the value of the laser power adjustment (05-2250).	4	
08	Setting mode	Process	Laser	Laser power correction (Text)		2940	3	PPC	128	0~255	M	Corrects the value of the laser power adjustment (05-2250).	4	
08	Setting mode	Process	Laser	Laser power correction (Photo)		2940	4	PPC	128	0~255	M	Corrects the value of the laser power adjustment (05-2250).	4	
08	Setting mode	Process	Laser	Laser power correction (FAX)		2940	6	PPC	128	0~255	M	Corrects the value of the laser power adjustment (05-2250).	4	
08	Setting mode	Process	Process	Laser output correction (hardcopy security printing)		2940	7	PRT	128	0~255	M	Corrects the value of the laser power adjustment (05-2250).	4	
08	Setting mode	Process	Transfer			2961	0	Thick 3 transfer correction (H)	Refer to contents	0~255	M	<Default value> e-STUDIO206L/256/306: 133 e-STUDIO356/456/506: 140	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Transfer			2961	1	Thick 3 transfer correction (C)	Refer to contents	0~255	M	<Default value> e-STUDIO206L/256/306: 133 e-STUDIO356/456/506: 140	4	
08	Setting mode	Process	Transfer			2961	2	Thick 3 transfer correction (L)	Refer to contents	0~255	M	<Default value> e-STUDIO206L/256/306: 116 e-STUDIO356/456/506: 108	4	
08	Setting mode	Process	Transfer			2962	0	2-sided thick paper transfer correction (H)	Refer to contents	0~255	M	<Default value> e-STUDIO206L/256/306: 126 e-STUDIO356/456/506: 123	4	
08	Setting mode	Process	Transfer			2962	1	2-sided thick paper transfer correction (C)	Refer to contents	0~255	M	<Default value> e-STUDIO206L/256/306: 118 e-STUDIO356/456/506: 121	4	
08	Setting mode	Process	Transfer			2962	2	2-sided thick paper transfer correction (L)	Refer to contents	0~255	M	<Default value> e-STUDIO206L/256/306: 114 e-STUDIO356/456/506: 112	4	
08	Setting mode	Process	Transfer			2963	0	Thin paper transfer leading edge output correction (H)	Refer to contents	0~255	M	<Default value> e-STUDIO206L/256/306: 100 e-STUDIO356/456/506: 88	4	
08	Setting mode	Process	Transfer			2963	1	Thin paper transfer center output correction (C)	Refer to contents	0~255	M	<Default value> e-STUDIO206L/256/306: 104 e-STUDIO356/456/506: 92	4	
08	Setting mode	Process	Transfer			2963	2	Thin paper transfer trailing edge output correction (L)	Refer to contents	0~255	M	<Default value> e-STUDIO206L/256/306: 120 e-STUDIO356/456/506: 112	4	
08	Setting mode	Process	Separation			2966	0	Thin paper separation leading edge output correction (H)	141	0~255	M		4	
08	Setting mode	Process	Separation			2966	1	Thin paper separation center output correction (C)	Refer to contents	0~255	M	<Default value> e-STUDIO206L/256/306: 151 e-STUDIO356/456/506: 148	4	
08	Setting mode	Process	Separation			2966	2	Thin paper separation trailing edge output correction (L)	Refer to contents	0~255	M	<Default value> e-STUDIO206L/256/306: 151 e-STUDIO356/456/506: 148	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Developer			2978		Switching of correction of development contrast life	4	0-8	M	Adjusts the density of the image. The smaller the corrected amount is, the darker the image becomes. 0 to 5: Starts correction when the developer counter counts 5k sheets. 6 to 8: Starts correction when the developer counter counts 10k sheets. If the developer counter does not reach the values above, the density does not change even if the setting value is altered. Corrected amount for 08-2978 0: -65 1: ±0 2: -22 3: -43 4: -85 5: -105 6: -65 (correction starts from 10k sheets) 7: -43 (correction starts from 10k sheets) 8: -85 (correction starts from 10k sheets) (Unit: V) * Be sure to check the image after the change. * The changed setting value is taken over after the replacement of the process unit or the developer material.	1	
08	Setting mode	Process	Process			2987		Transfer bias output correction between sheets of paper	Refer to contents	0~255	M	The transfer cleaning bias is output between sheets of paper during printing so as to prevent the toner on the photoconductive drum from adhering to the transfer roller. This code is used to correct the output between sheets of paper to that adjusted in 05-2084 (Transfer cleaning bias adjustment (negative)). The larger the setting value is, the higher the value of the current (more negative) is. Note that toner with a different polarity will adhere easily if the setting value is too large or too small. <Default value> e-STUDIO206L/256/306: 110 e-STUDIO356/456/506: 104	1	
08	Setting mode	Scanner	Scanner			3015		Pre-scan setting switchover	0	0~1	SYS	0: Not performing pre-scanning 1: Performing pre-scanning	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Scanner	RADF			3021		Set for switchback-mixed size copy	0	0~1	SYS	This setting is whether the original length is detected or not by transporting without scanning in reverse when A4-R/FOLIO paper or LT-R/LG paper is detected in a mixed-size copying. 0: Disabled - AMS: A series - Judges as A4-R without transporting in reverse with no scanning. LT series - Judges whether it is LT-R or LG by its length without transporting in reverse with no scanning. APS: A series - Judges whether it is A4-R or FOLIO without transporting in reverse with no scanning. LT series - Judges whether it is LT-R or LG without transporting in reverse with no scanning. 1: Enable 1 AMS: A series - Judges whether it is A4-R or FOLIO by transporting without scanning in reverse to detect its length. LT series - Judges whether it is LT-R or LG by transporting without scanning in reverse to detect its length. APS: The same as that of APS in 0: Disabled.	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting Mode	System	User interface	Card reader		3500		Device setting	0	0-4294967295	SYS	To enable the e-Bridge ID Gate, a card reading device should be set in the order of "ABYYZZZZ". (Enter the corresponding values to "A", "B", "YY" and "ZZZZ".) - AB: Special setting - A: Debugging NIC 0: Not used 1: Used - B: Interface 0: USB connection 1: Serial connection (KP-2003 only) - YY: Authentication 00: No authentication using card 03: Mifare (KP-2005 only) 04: HID (KP-2004 only) 06: KB Emulation I/F Reader 07: 3Track Magnetic Swipe Reader 09: 2Track Magnetic Swipe Reader - ZZZZ: Sub-code (Specifies the usage type of card ID) 0000: No authentication using card 0001: IDm (Felica/NFC-Felica) and (or) UID (Mifare/NFC-Mifare) 0002: Data (Felica/NFC-Felica/Mifare/NFC-Mifare) 0003: SSFC mode	5	Yes
08	Setting Mode	System	User interface	Card reader		3501		Format information 1	0	0-4294967295	SYS	To access the data in the noncontact IC card, the Key Information "LLLL" and the Sector Number "MMMM" should be set. The "LLLL" should be set first, and then "MMMM". <KP-2005> LLLL: Key information MMMM: Sector number (hexadecimal number)	5	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting Mode	System	User interface	Card reader		3502		Format information 2	0	0-4294967295	SYS	The data of the block number in the noncontact IC is set. <KP-2005> RRBSEbse (hexadecimal number) RR: 00 (Fixed) B: 1st area block number S: 1st area beginning byte offset E: 1st area ending byte offset b: 2nd area block number s: 2nd area beginning byte offset e: 2nd area ending byte offset * If the 2nd block/area is not used, set the SSTU to "FFFF" (hexadecimal number), the bse to"FFF" (hexadecimal number).	5	Yes
08	Setting Mode	System	User interface	Card reader		3503		Format information 3	0	0-0xFFFFFF FFFFFFFF FF	SYS	Security key "KKKKKKKKKKKK" (12 digits) <hexadecimal number> in the [Key Information] of the [Sector Number] set in the code 08-3501 should be entered.	5	Yes
08	Setting mode	System	User interface	Card reader		3504		Card authentication LDAP server	0	0~100	SYS	LDAP server number for the card authentication when a non-contact IC card is used should be set.	1	
08	Setting mode	System	General			3612		Date of unpacking	-	13 digits	SYS	Year/month/date/day/hour/minute/second Example: 03 07 0 13 13 27 48 "Day" - "0" is for "Sunday". Proceeds Monday through Saturday from "1" to "6".	11	Yes
08	Setting mode	System	General			3615		List print USB storage setting	0	0~1	SYS	0: Enable (USB storage available) 1: Disable (USB storage not available)	1	
08	Setting mode	System	General			3619		Clearing of service history list file	-	-	SYS	Initializes the service history list file.	3	
08	Setting mode	System	General			3623		Job filtering setting for real time log notification function	0	0-65535	SYS	Changes target type of job for notification in real time log notification function.	1	
08	Setting mode	System	General			3624		Log item filtering setting for real time log notification function	2147483 921	0~4294967 295	SYS	Changes target log items for notification in real time log notification function.	5	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	General	Real time log notification function		3626		Department information transmission setting of real time log notification function	0	0-1	SYS	Sets whether the department information (number, name, code) is transmitted or not in the real time log notification function. 0: Department number, department name, department code 1: Department number, department name	1	
08	Setting mode	System	General			3628		Enable/Disable setting of standard data overwrite function	1	0-1	SYS	0: Disabled 1: Enabled * This code is valid for the following model or destination: - e-STUDIO256SE/306SE/356SE/456SE/506SE	1	
08	Setting mode	System	General			3629		Enable/Disable setting of standard EWB function	1	0-1	SYS	0: Disabled 1: Enabled * This code is valid for the following model or destination: - e-STUDIO256SE/306SE/356SE/456SE/506SE - e-STUDIO206L/256/306/356/456/506 for MJD	1	
08	Setting mode	System	Network			3631		Remote Access (SNMP)	1	0-1	SYS	0: Disabled 1: Enabled	1	
08	Setting mode	System	User interface			3635		Trial copy function	1	0~1	SYS	0: Invalid 1: Valid	1	
08	Setting mode	System	Network	InternetFax		3637		Addition of transmission header	0	0-1	SYS	0: Disabled 1: Enabled	1	
08	Setting mode	System	Network	InternetFax		3638		Addition of receiving record	0	0-1	SYS	0: Disabled 1: Enabled	1	
08	Setting mode	System	Network	InternetFax		3639		Adding method of transmission header	1	1-2	SYS	1: Overwriting inside the image (5 mm from the top) 2: Adding outside the image (5 mm from the top)	1	
08	Setting mode	System	General			3644		Login restriction for reissued card	0	0-1	SYS	0: Disabled 1: Enabled	1	
08	Setting mode	System	Network			3702		Device name for device authentication	MFP's serial number	-	-	Maximum 128 letters "MFP's serial number" is set as default. Perform 08-9083 to set the default value.	12	
08	Setting mode	System	Network			3704		PDC (Primary Domain Controller) name 2 for user authentication	-	-	UTY	Up to 128 letters	12	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			3705		BDC (Backup Domain Controller) name 2 for user authentication	-	-	UTY	Up to 128 letters	12	
08	Setting mode	System	Network			3706		PDC (Primary Domain Controller) name 3 for user authentication	-	-	UTY	Up to 128 letters	12	
08	Setting mode	System	Network			3707		BDC (Backup Domain Controller) name 3 for user authentication	-	-	UTY	Up to 128 letters	12	
08	Setting mode	System	Network			3719		Windows domain No. 2 of user authentication	-	-	UTY	Maximum 128 letters	12	
08	Setting mode	System	Network			3720		Windows domain No. 3 of user authentication	-	-	UTY	Maximum 128 letters	12	
08	Setting mode	System	Network			3721		AppleTalk Device Name	MFP's serial number	-	-	Maximum 32 letters "MFP's serial number" is set as default. Perform 08-9083 to set the default value.	12	
08	Setting mode	System	Network			3722		PDC/BDC timeout value of Windows Domain Authentication (Unit: Seconds)	60	1~180	NIC	Applied to the device authentication	12	
08	Setting mode	System	Network			3723		User authentication PDC/BDC time-out period (Unit: Seconds)	30	1~180	NIC	Applied to the user authentication	12	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			3724		Windows Domain Authentication method of Windows Domain/User Authentication	1	1-4	NIC	Sets the Windows domain authentication method for device authentication, Scan to SMB, and user authentication. When the setting of the domain authentication method is unknown, it's strongly recommended to set the value of this code to "1" (Auto). 1: Auto 2: Kerberos 3: NTLMv2 4: NTLMv1 * Note that the internal processing is different between user authentication and Windows logon authentication/Scan to SMB as follows. - User authentication "1" (Auto): Auto (Kerberos -> NTLMv2) "4" (NTLMv1): NTLMv2 - Windows logon authentication/Scan to SMB "1" (Auto): Auto (Kerberos -> NTLMv1) "4" (NTLMv1): NTLMv1	12	
08	Setting mode	System	Network			3725		IPP max connection	16	1~16	NIC		12	
08	Setting mode	System	Network			3726		IPP active connection	10	1~16	NIC		12	
08	Setting mode	System	Network			3727		LPD max connection	10	1~16	NIC		12	
08	Setting mode	System	Network			3728		LPD active connection	10	1~16	NIC		12	
08	Setting mode	System	Network			3729		ATalk PS max Connection	10	1~16	NIC		12	
08	Setting mode	System	Network			3730		ATalk PS active Connection	10	1~16	NIC		12	
08	Setting mode	System	Network			3731		Raw TCP max Connection	10	1~16	NIC		12	
08	Setting mode	System	Network			3732		Raw TCP active connection	10	1~16	NIC		12	
08	Setting mode	System	Network			3736		DNS Client Time Out	5	1~180	NIC	Use when a timeout occurred at DNS client connection	12	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			3739		FTP Client Time Out (SCAN)	30	1~180	NIC	Use when a timeout occurred at FTP client connection	12	
08	Setting mode	System	Network			3743		LDAP Client Time Out	5	1~180	NIC	Use when a timeout occurred at LDAP client connection	12	
08	Setting mode	System	Network			3754		Switching DPWS Printer setting	1	1~2	NIC	DPWS printer /DPWS secure printer function is switched. 1: Enabled 2: Disabled	12	
08	Setting mode	System	Network			3755		Switching DPWS Scanner setting	1	1~2	NIC	DPWS scanner function is switched. 1: Enabled 2: Disabled	12	
08	Setting mode	System	Network			3757		DPWS Discovery Port Number	3702	1~65535	NIC	Port number used for DPWS Discovery	12	
08	Setting mode	System	Network			3758		DPWS Metadata Exchange Port Number	50081	1~65535	NIC	Port number used for DPWS Metadata Exchange	12	
08	Setting mode	System	Network			3759		DPWS Print Port Number	50082	1~65535	NIC	Port number used for DPWS Print	12	
08	Setting mode	System	Network			3760		DPWS Scan Port Number	50083	1~65535	NIC	Port number used for DPWS Scan	12	
08	Setting mode	System	Network			3765		DPWS Print Max numbers of connection	10	1~20	NIC	Maximum numbers received from more than one connection request in the DPWS print	12	
08	Setting mode	System	Network			3766		DPWS Print Max numbers of reception	10	1~20	NIC	Maximum numbers of data received from more than one clients in the DPWS print	12	
08	Setting mode	System	Network			3767		Switching IPv6 setting	2	1~2	NIC	IPv6 function is switched. 1: Enabled 2: Disabled	12	
08	Setting mode	System	Network	IPv6		3768		Switching IP(IPv6) Address Acquisition	2	1~3	NIC	IP(IPv6) Address Acquisition setting is switched. 1: Manual 2: Stateless 3: Stateful	12	
08	Setting mode	System	Network	IPv6		3770		IPv6 Address	-	-	-	Displays IPv6 address. Maximum 40 characters (byte).	12	
08	Setting mode	System	Network	IPv6		3771		Prefix display setting	-	-	-	Sets the length of the displayed prefix. Maximum 3 characters (byte).	12	
08	Setting mode	System	Network	IPv6		3772		Default Gateway setting	-	-	-	Sets the default gateway for IPv6 address. Maximum 40 characters (byte).	12	
08	Setting mode	System	Network			3774		DHCPv6 Option setting	2	1~2	NIC	DHCPv6 Option is switched when the Manual is set. 1: Enabled 2: Disabled	12	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			3777		Stateless Address setting	2	1~2	NIC	IP Address is acquired by both Stateless and State full Address. 1: Enabled2: Disabled	12	
08	Setting mode	System	Network			3778		Acquiring DHCPv6 Option	2	1~2	NIC	When Stateless Address is selected, an option is acquired from DHCPv6 server. 1: Enabled 2: Disabled	12	
08	Setting mode	System	Network			3779		Stateful Address setting	1	1~2	NIC	IP Address is acquired from DHCPv6 server. 1: Enabled 2: Disabled	12	
08	Setting mode	System	Network			3780		Stateful Option setting	1	1~2	NIC	An option is acquired from DHCPv6 server. 1: Enabled 2: Disabled	12	
08	Setting mode	System	Network	IPv6		3781		Primary DNS Server Address Registration	-	-	-	Registration of Primary DNS Server Address. Maximum 40 characters (byte).	12	
08	Setting mode	System	Network	IPv6		3782		Secondary DNS Server Address Registration(IPv6)	-	-	-	Registration of Secondary DNS Server Address. Maximum 40 characters (byte).	12	
08	Setting mode	System	Network			3793		Switching LLTD setting	1	1~2	NIC	LLTD function is switched. 1: Enabled 2: Disabled	12	
08	Setting mode	System	General			3802		USB media direct printing Paper size	Refer to contents	0~13	SYS	0: ledger 1: legal 2: letter 3: computer 4: statement 5: A3 6: A4 7: A5 9: B4 10: B5 11: Folio 12: Legal13" 13: LetterSquare <Default value> NAD: 2 Others: 6	1	
08	Setting mode	System	General			3803		USB media direct printing function setting	1	0~1	SYS	Sets the USB media direct printing function.0: Disabled1: Enabled	1	
08	Setting mode	System	Scanner			3805		Department Management setting by Remote Scan	3	0~3	SYS	Department Management is set when Remote Scan is performed. 0: w/o GUI OFF,w/ GUI OFF 1: w/o GUI ON,w/ GUI OFF 2: w/o GUI OFF,w/ GUI ON 3: w/o GUI ON,w/ GUI ON	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network	Direct SMTP		3810		Communication setting	0	0~1	SYS	When an Internet Fax is sent, Direct SMTP communication is set. 0: Disabled 1: Enabled When "0: Disabled" is set, an Internet Fax is sent using an SMTP server. When "1: Enabled" is set, direct SMTP communication is enabled and an Internet Fax is sent to MFPs on the intranet without using an SMTP server. Since no SMTP server is used, the SSL encryption and SMTPAUTH function cannot be used for internet Fax transmission. If "1: Enabled" is set in 08-3810, set "1: Enabled" in 08-3812 as well.	1	Yes
08	Setting mode	System	Network	Direct SMTP		3811		Image encrypting at the Direct SMTP	0	0~1	SYS	When Direct SMTP communication is performed, an attached image is encrypted. 0: Disabled 1: Enabled	1	Yes
08	Setting mode	System	Network	Internet Fax		3812		Dummy full mode at I-Fax transmission	0	0~1	SYS	When an Internet Fax is sent, the resolution ratio and the paper size of an attached image are set to the full mode.0: Disabled 1: Enabled If "1: Enabled" is set in 08-3810, set "1: Enabled" in 08-3812 as well.	1	Yes
08	Setting mode	System	Scanner			3815		XPS file thumbnail addition	1	0~1	SYS	Thumbnail is added to the XPS file produced by the Scan function. 0: Not added 1: Only the top page added	1	
08	Setting mode	System	Scanner			3816		XPS file paper size setting	1	0~1	SYS	The paper size of the XPS file produced by the Scan function is set. 0: Scanned image size 1: Standard size	1	
08	Setting mode	System	Scanner			3817		PDF file version setting	4	0~4	SYS	The version of PDF file produced by the Scan function is set. 0: PDF V1.3 1: PDF V1.4 4: PDF V1.7	1	
08	Setting mode	System	General			3833		Home directory function	0	0~1	SYS	Function to store a file in the user's home directory 0: Disabled 1: Enabled	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	General			3837		Display switching for the machine name/computer name shown in the notification	0	0~1	SYS	The display method of the machine name/computer name shown in the event-related notification is switched. 0: IP address 1: NetBIOS name/FQDN	1	
08	Setting mode	System	General	License control		3840		Registration/Deletion	-	-	-	Registers electronic keys for setting related optional items (e.g. when the equipment is delivered). Returns the license file having the same ID as that in the one-time dongle. Displays all the electronic keys stored in a USB media connected to the equipment in a list. Displays electronic keys registered in the equipment.	3	
08	Setting mode	System	Option	FAX		3847		FAX mistransmission prevention	0	0~1	SYS	FAX mistransmission prevention function is switched. 0: OFF (Disabled) 1: ON (Enabled)	1	Yes
08	Setting mode	System	Option	FAX		3848		Restriction on Address Book destination setting	0	0~1	SYS	Availability of destination selection from the Address Book is switched as one of FAX mistransmission prevention functions when setting FAX destinations. 0: OFF (Disabled) 1: ON (Enabled)	1	Yes
08	Setting mode	System	Option	FAX		3849		Restriction on destination direct entry	0	0~1	SYS	Availability of direct entry is switched as one of FAX mistransmission prevention functions when setting FAX destinations. 0: OFF (Disabled)1: ON (Enabled)	1	Yes
08	Setting mode	System	General			3851		Template display	0	0~1	SYS	The order of displaying templates on the LCD screen is switched. 0: Order of IDs 1: Alphabetical order	1	
08	Setting mode	System	General			3852		Automatic summer time change	Refer to contents	0~1	SYS	Automatic summer time change on the day previously set is switched. 0: Disabled 1: Enabled <Default value> NAD/MJD: 1 Others: 0	1	
08	Setting mode	System	General			3853		Summer time mode Offset value	2	0~7	SYS	Summer time is started as follows when 08-3852 is enabled. 0: +2:00 1: +1:30 2: +1:00 3: +0:30 4: -0:30 5: -1:00 6: -1:30 7: -2:00	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	General			3854		Summer time mode Starting month	Refer to contents	1~12	SYS	The month in which summer time is started is set. 1: January 2: February 3: March 4: April 5: May 6: June 7: July 8: August 9: September 10: October 11: November 12: December <Default value> NAD/MJD: 3 Others: 1	1	
08	Setting mode	System	General			3855		Summer time mode Starting week	Refer to contents	1~5	SYS	The week in which summer time is started is set. 1: 1st 2: 2nd 3: 3rd 4: 4th 5: Last <Default value> NAD: 2 MJD: 5 Others: 1	1	
08	Setting mode	System	General			3856		Summer time mode Starting day	0	0~6	SYS	The day on which summer time is started is set. 0: Sunday1: Monday2: Tuesday3: Wednesday4: Thursday5: Friday6: Saturday	1	
08	Setting mode	System	General			3857		Summer time mode Starting time	Refer to contents	00~23	SYS	The time at which summer time is started is set. 00-23 <Default value> NAD/MJD: 2 Others: 0	1	
08	Setting mode	System	General			3858		Summer time mode Starting minute	0	00~59	SYS	The minute at which summer time is started is set. 00-59	1	
08	Setting mode	System	General			3859		Summer time mode Ending month	Refer to contents	1~12	SYS	The month in which summer time is ended is set. 1: January 2: February 3: March 4: April 5: May 6: June 7: July 8: August 9: September 10: October 11: November 12: December <Default value> NAD: 11 MJD: 10 Others: 1	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	General			3860		Summer time mode Ending week	Refer to contents	1~5	SYS	The week in which summer time is ended is set. 1: 1st 2: 2nd 3: 3rd 4: 4th 5: Last <Default value> MJD: 5 Other: 1	1	
08	Setting mode	System	General			3861		Summer time mode Ending day	0	0~6	SYS	The day on which summer time is ended is set. 0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday	1	
08	Setting mode	System	General			3862		Summer time mode Ending time	Refer to contents	00~23	SYS	The time at which summer time is ended is set. 00-23 <Default value> NAD: 2 MJD: 3 Others: 0	1	
08	Setting mode	System	General			3863		Summer time mode Ending minute	0	00~59	SYS	The minute at which summer time is ended is set.00-59	1	
08	Setting mode	System	Network			3864		Disclosure of telnet function	0	0~1	SYS	0: Not disclosed 1: Disclosed When this value is set at "0", the value of code 08-3865 must be "2".	1	
08	Setting mode	System	Network			3865		Availability of Telnet Server	2	1~2	NIC	Availability of Telnet Server is switched. 1: Enabled 2: Disabled	12	
08	Setting mode	Printer	Laser			4002		Judged number of polygonal motor rotation error(Normal rotation)	0	0~1	M	Displays the error [CA10] when the set number of rotation error has been detected. 0: 2 times 1: 12 times	1	
08	Setting mode	Printer	Laser			4003		Judged number of polygonal motor rotation error(At acceleration/decelerat ion)	0	0~1	M	0: Time taken from an overshoot occurring to normal value range is 0.6 sec. 1: Time taken from an overshoot occurring to normal value range is 2.2 sec.	1	
08	Setting mode	Printer	Laser			4004		Polygonal motor rotation number on standby	5	0~5	M	0: 38,090.55 rpm 1: 35,000 rpm 2: 30,000 rpm 3: 25,000 rpm 4: 20,000 rpm 5: 10,000 rpm	1	
08	Setting mode	Printer	Laser			4005		Polygonal motor rotation in the energy saving mode	0	0~1	M	0: Stopped 1: 10,000 rpm	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Printer	Laser			4009		Setting of polygonal motor type	3	0~3	M	Set the type of polygonal motor. 0: 2-clock type 1: 3-clock type 2: 4-clock type 3: 6-clock type	1	
08	Setting mode	Printer	Paper feeding	Default setting of paper source	PPC	4010			0	0~5	SYS	0: A4/LT 1: LCF 2: Upper drawer 3: Lower drawer 4: PFP upper drawer 5: PFP lower drawer	1	
08	Setting mode	Printer	Feeding system/Pa per transport	Automatic change of paper source	Auto	4011		PPC	1	1~2	SYS	Sets whether or not changing the drawer automatically to the other drawer with the paper of the same size when paper in the selected drawer has run out. 1: Changes to the drawer with the same paper direction and size: e.g., A4 to A4 2: Changes to the drawer with the same paper size. Paper with the different direction is acceptable as long as the size is the same: e.g., A4 to A4-R, LT-R to LT. "1"is applied when the staple/hole-punch is specified.	1	Yes
08	Setting mode	Printer	Laser			4012		Pre-running rotation of polygonal motor	0	0~2	SYS	Sets whether or not switching the polygonal motor from the standby rotation to the normal rotation when the original is set on the RADF or the original cover is opened. 0: Valid (when using RADF and the original is set manually) 1: Invalid 2: Valid (when using RADF only)	1	
08	Setting mode	Printer	Laser			4013		Polygonal motor rotational status switching at the Auto Clear Mode	0	0~1	SYS	Sets whether or not switching the polygonal motor from the normal rotation to the standby rotation at the Auto Clear Mode. 0: Valid 1: Invalid	1	
08	Setting mode	Printer	Laser			4014		Rotational status of polygonal motor on standby	1	0~1	SYS	Sets the rotational status of polygonal motor on standby. 0: Rotated (The rotational speed is set at 08-4005.) 1: Stopped	1	
08	Setting mode	Printer	Laser			4015		Timing of auto-clearing of polygonal motor pre-running rotation	3	0~6	SYS	Switches the polygonal motor to the standby rotation when a certain period of time has passed from the pre-running. At this code, the period to switch the status to the standby rotation is set. 0: 15 sec. 1: 20 sec. 2: 25 sec. 3: 30 sec. 4: 35 sec. 5: 40 sec. 6: 45 sec. * This setting is effective when "0" or "2" is set at 08-4012.	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Printer	Feeding system/Pa per transport	Automatic change of paper source	When a drawer is specified	4016	0	PPC	0	0~1	SYS	Sets whether the automatic change of paper source is performed or not if the drawer is specified as the paper source and the paper in the specified drawer runs out when coping. 0: Does not change the paper source automatically 1: Changes the paper source automatically	4	Yes
08	Setting mode	Printer	Feeding system/Pa per transport	Automatic change of paper source	When a drawer is specified	4016	1	Printing/BOX printing	0	0~1	SYS	Sets whether the automatic change of paper source is performed or not if the drawer is specified as the paper source and the paper in the specified drawer runs out when printing/BOX printing. 0: Does not change the paper source automatically 1: Changes the paper source automatically	4	Yes
08	Setting mode	Printer	Feeding system/Pa per transport	Feeding retry number setting	Upper drawer	4020	0	Plain paper	5	0~5	M	Sets the number of times of the feeding retry from the upper drawer.	4	Yes
08	Setting mode	Printer	Feeding system/Pa per transport	Feeding retry number setting	Upper drawer	4020	1	Others	5	0~5	M	Sets the number of times of the feeding retry from the upper drawer.	4	Yes
08	Setting mode	Printer	Feeding system/Pa per transport	Feeding retry number setting	Lower drawer	4021	0	Plain paper	5	0~5	M	Sets the number of times of the feeding retry from the lower drawer.	4	Yes
08	Setting mode	Printer	Feeding system/Pa per transport	Feeding retry number setting	Lower drawer	4021	1	Others	5	0~5	M	Sets the number of times of the feeding retry from the lower drawer.	4	Yes
08	Setting mode	Printer	Feeding system/Pa per transport	Feeding retry number setting	PFP upper drawer	4022	0	Plain paper	5	0~5	M	Sets the number of times of the feeding retry from the PFP upper drawer.	4	Yes
08	Setting mode	Printer	Feeding system/Pa per transport	Feeding retry number setting	PFP upper drawer	4022	1	Others	5	0~5	M	Sets the number of times of the feeding retry from the PFP upper drawer.	4	Yes
08	Setting mode	Printer	Feeding system/Pa per transport	Feeding retry number setting	PFP lower drawer	4023	0	Plain paper	5	0~5	M	Sets the number of times of the feeding retry from the PFP lower drawer.	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Printer	Feeding system/Pa per transport	Feeding retry number setting	PFP lower drawer	4023	1	Others	5	0~5	M	Sets the number of times of the feeding retry from the PFP lower drawer.	4	Yes
08	Setting mode	Printer	Feeding system/Pa per transport	Feeding retry number setting	bypass feed	4024	0	Plain paper	5	0~5	M	Sets the number of times of the feeding retry from the bypass tray.	4	Yes
08	Setting mode	Printer	Feeding system/Pa per transport	Feeding retry number setting	bypass feed	4024	1	Others	5	0~5	M	Sets the number of times of the feeding retry from the bypass tray.	4	Yes
08	Setting mode	Printer	Feeding system/Pa per transport	Feeding retry number setting	LCF	4025	0	Plain paper	5	0~5	M	Sets the number of times of the feeding retry from the LCF.	4	Yes
08	Setting mode	Printer	Feeding system/Pa per transport	Feeding retry number setting	LCF	4025	1	Others	5	0~5	M	Sets the number of times of the feeding retry from the LCF.	4	Yes
08	Setting mode	Printer	Feeding system/Pa per transport			4100		Paper size for upper drawer	Refer to contents	0-255	M	Press the button on the LCD to select the size. <Default value> EUR: A4 UC: LT JPN: A4	9	
08	Setting mode	Printer	Feeding system/Pa per transport			4101		Paper size for lower drawer	Refer to contents	0-255	M	Press the button on the LCD to select the size. <Default value> EUR: A3 UC: LD JPN: A3	9	
08	Setting mode	Printer	Feeding system/Pa per transport			4102		Paper size for PFP upper drawer	Refer to contents	0-255	M	Press the button on the LCD to select the size. <Default value> EUR: A4-R UC: LT-R JPN: A4-R	9	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Printer	Feeding system/Pa per transport			4103		Paper size for PFP lower drawer	Refer to contents	0-255	M	Press the button on the LCD to select the size. <Default value> EUR: A4 UC: LG JPN: B4	9	
08	Setting mode	Printer	Feeding system/Pa per transport			4104		Paper size setting /LCF	Refer to contents	0-255	M	Press the button on the LCD to select the size. <Default value> EUR: A4 UC: LT JPN: A4	9	
08	Setting mode	Printer	Feeding system/Pa per transport			4105		PFP/LCF installation	0	0~4	M	0: Auto 1: PFP upper-drawer type installed 2: PFP upper-drawer and lower-drawer type installed 3: LCF installed 4: Neither PFP nor LCF installed In the following case, set the value to "0" (Automatic) or change the value to the corresponding one. - When any of the above option is replaced - When any of the above option is installed while "4" (Not installed) has been set	1	
08	Setting mode	Printer	Feeding system/Pa per transport			4106		Paper size (A3) feeding/widthwise direction	420/297	182~432/1 40~297	M		10	
08	Setting mode	Printer	Feeding system/Pa per transport			4107		Paper size (A4-R) feeding/widthwise direction	297/210	182~432/1 40~297	M		10	
08	Setting mode	Printer	Feeding system/Pa per transport			4108		Paper size (A5-R) feeding/widthwise direction	210/148	182~432/1 40~297	M		10	
08	Setting mode	Printer	Feeding system/Pa per transport			4109		Paper size (B4-R) feeding/widthwise direction	364/257	182~432/1 40~297	M		10	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Printer	Feeding system/Pa per transport			4110		Paper size (B5-R) feeding/widthwise direction	257/182	182~432/1 40~297	M		10	
08	Setting mode	Printer	Feeding system/Pa per transport			4111		Paper size (LT-R) feeding/widthwise direction	279/216	182~432/1 40~297	M		10	
08	Setting mode	Printer	Feeding system/Pa per transport			4112		Paper size (LD-R) feeding/widthwise direction	432/279	182~432/1 40~297	M		10	
08	Setting mode	Printer	Feeding system/Pa per transport			4113		Paper size (LG-R) feeding/widthwise direction	356/216	182~432/1 40~297	M		10	
08	Setting mode	Printer	Feeding system/Pa per transport			4114		Paper size (ST-R) feeding/widthwise direction	216/140	182~432/1 40~297	M		10	
08	Setting mode	Printer	Feeding system/Pa per transport			4115		Paper size (COMPUTER-R) feeding/widthwise direction	356/257	182~432/1 40~297	M		10	
08	Setting mode	Printer	Feeding system/Pa per transport			4116		Paper size (FOLIO) feeding/widthwise direction	330/210	182~432/1 40~297	M		10	
08	Setting mode	Printer	Feeding system/Pa per transport			4117		Paper size (13" LG-R) feeding/widthwise direction	330/216	182~432/1 40~297	M		10	
08	Setting mode	Printer	Feeding system/Pa per transport			4118		Paper size (8.5"X8.5"-R) feeding/widthwise direction	216/216	182~432/1 40~297	M		10	
08	Setting mode	Printer	Feeding system/Pa per transport			4119		Paper size (Non-standard) feeding/widthwise direction	432/279	148~432/1 05~297	SYS		10	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Printer	Feeding system/Paper transport			4120		Paper size (8K-R) feeding/widthwise direction	390/270	182~432/140~297	M		10	
08	Setting mode	Printer	Feeding system/Paper transport			4121		Paper size (16K-R) feeding/widthwise direction	270/195	182~432/140~297	M		10	
08	Setting mode	Printer	Feeding system/Paper transport			4123		Paper size (A6-R) feeding/widthwise direction	148/105	148~432/105~297	M		10	
08	Setting mode	Printer	Feeding system/Paper transport			4124		Paper size (#10-R)feeding/widthwise direction	241/105	148~432/105~297	M		10	
08	Setting mode	Printer	Feeding system/Paper transport			4127		Paper size (DL-R)feeding/widthwise direction	220/110	148~432/105~297	M		10	
08	Setting mode	Printer	Feeding system/Paper transport			4131		Feeding retry setting	0	0~1	M	0: Enabled 1: Disabled * When the value of 08-9016 is set to "5", the value of this code is automatically set to "1".	1	
08	Setting mode	Printer	Feeding system/Paper transport			4140		Paper size for bypass feed	255	0-255	SYS	Press the button on the LCD to select the size.	9	
08	Setting mode	Printer	Feeding system/Paper transport			4143		Paper size (Envelope: Monarch-R)feeding/widthwise direction	191/98	148~432/98~297	M		10	
08	Setting mode	Printer	Feeding system/Paper transport			4144		Paper size (Envelope: CHO-3-R)feeding/widthwise direction	235/120	148~432/105~297	M		10	
08	Setting mode	Printer	Feeding system/Paper transport			4145		Paper size (Envelope: YOU-4-R)feeding/widthwise direction	235/105	148~432/105~297	M		10	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Printer	Feeding system/Paper transport			4206		Paper size (Postcard) feeding/widthwise direction	148/100	148~432/100~297	M	* Postcard is supported only for JPN model.	10	
08	Setting mode	Printer	Feeding system/Paper transport			4450		Switching of paper pushing amount/lower drawer	0	0~1	M	Switches pushing process by the transport roller when paper loaded from the lower drawer starts to be transported from the registration section. 0: The paper is pushed until its trailing edge reaches the position where the 2nd transport sensor is turned OFF. 1: If the length of the paper is more than 297 mm, it is pushed by the transport roller for a specified time.	1	
08	Setting mode	Printer	Feeding system/Paper transport			4542		Switching for incorrect size jam detection	0	0~1	M	0: Enabled 1: Disabled	1	Yes
08	Setting mode	Printer	Feeding system/Paper transport			4547		Manual stapling time-out period	15	3~30	M	3-30sec.(In increments of 1sec.)	1	
08	Setting mode	Printer	Finisher			4548		Finisher model switching setting value	0	0~1	M	Sets the model of the finisher. 0: MJ-1032/1033/1101/1106 1: MJ-1032/1033/1101/1106	1	
08	Setting mode	Printer	General			4549		Detection setting of new or old fuser unit	0	0~1	M	0: Enabled 1: Disabled	1	
08	Setting mode	Printer	General			4555		Information check of new or old EPU memory	65280	0 to 65535	M	65280 (0xFF00): New EPU 255 (0x00FF): Installed EPU	2	
08	Setting mode	Printer	General			4556		Detection setting of new or old EPU	1	0~1	M	0: Disabled 1: Enabled	1	
08	Setting mode	Printer	Process	Conditions at the occurrence of fuser related error		4570	0	Center thermistor	0	0-255	M	Output value of thermistor	4	
08	Setting mode	Printer	Process	Conditions at the occurrence of fuser related error		4570	1	Side thermistor	0	0-255	M	Output value of thermistor	4	
08	Setting mode	Printer	Process	Conditions at the occurrence of fuser related error		4570	2	Edge thermistor	0	0-255	M	Output value of thermistor	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Printer	Process	Conditions at the occurrence of fuser related error		4570	5	Error counter	0	0-255	M	1-3: Fusing error when warm-up-40-degrees C detected 4-10: Fusing error when warm-up-100-degrees C detected 11-25: Fusing error when ready from warm-up 50-55: Fusing error at ready 100-111: Fusing error at printing 150-153: Fusing error in the prewarming/JAM/cover open/adjustment mode	4	
08	Setting mode	Printer	General			4581		SRAM Backup	-	-	-	The data in the SRAM is backed up in the EEPROM.	3	
08	Setting mode	Printer	General			4582		SRAM copy	-	-	-	The data in the EEPROM is copied to the SRAM.	3	
08	Setting mode	Printer	Feeding system/Pa per transport	Bypass paper size detection setting		4621		PPC/PRT	0	0~1	M	Detects whether the size of paper fed by bypass feeding is the same as the paper size set on the control panel. If the sizes are not the same, the warning message is displayed (Paper jam does not occur). When the bypass paper size detection is broken, the equipment can be used without the size detection by disabling this setting. After repair, enable this setting. 0: Enabled 1: Disabled	1	
08	Setting mode	Printer	Feeding system/Pa per transport	Bypass paper size detection counter		4622		PPC/PRT	0	0~65535	M	This is a counter for bypass paper size detection setting. If the printing is executed with the paper size that differs from the paper size set on the control panel, the counter is counted up.	1	
08	Setting mode	Printer	General			4675		Paper ejection setting for wrong bypass paper size	2	0-2	M	0 and 1: Disabled 2: Ejected	1	
08	Setting mode	Printer	Counter			4676		Ejection counter for wrong bypass paper size	0	0~65535	M	Number of ejection times	1	
08	Setting mode	Printer	Feeding system/Pa per transport			4691		Switching of the display of jam location in the drawer when paper feed jam occurs	1	0~1	M	0: Disabled 1: Enabled	1	
08	Setting mode	Printer	Finisher			4695		Synchronous writing of the finisher adjustment value	-	-	M	Writes the adjustment code from 05-4819 to 4827 in the SRAM of the finisher. (for MJ-1032 and MJ-1033)	3	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Printer	Finisher			4696		Synchronous reading of the finisher adjustment value	-	-	M	Reads the adjustment code from 05-4819 to 4827 from the SRAM of the finisher. (for MJ-1032 and MJ-1033)	3	
08	Setting mode	Process	Process			5001	0	Print job end cleaning bias polarity switching frequency	0	0~9	M	In the cleaning operation of the transfer roller at the end of printing, the cleaning bias, in which the polarity is switched from positive to negative, is output so that the toner adhering to the transfer roller is returned to the photoconductive drum. This code is used to set the cleaning bias switching frequency. Perform adjustment when there is any stain on the back side of the printed paper (leading edge) caused by the transfer roller. Note that the drum driving time will increase if the setting value of the cleaning bias switching frequency is too large. The setting code differs depending on the operation status of the equipment when there is any stain on the back side of the printed paper. Select the code from 5001 to 5003 according to the operation status. Set this code when there is any stain on the back side of the printed paper (leading edge) caused by the transfer roller in normal printing. 0: Once 1: Twice 2: Three times 3: Four times 4: Five times 5: Six times 6: Seven times 7: Eight times 8: Nine times 9: Ten times	4	
08	Setting mode	Process	Process			5001	1	Print job end cleaning bias polarity switching frequency (Bypass non-standard)	3	0~9	M	Set this code when there is any stain on the back side of the printed paper (leading edge) caused by the transfer roller in printing non-standard paper from the bypass tray. 0: Once 1: Twice 2: Three times 3: Four times 4: Five times 5: Six times 6: Seven times 7: Eight times 8: Nine times 9: Ten times	4	
08	Setting mode	Process	Process			5001	2	Print job end cleaning bias polarity switching frequency (Mass printing of small size paper)	3	0~9	M	Set this code when there is any stain on the back side of the printed paper (leading edge) caused by the transfer roller in printing maximum size paper after printing a large amount of small size paper (1 to 9). 0: Once 1: Twice 2: Three times 3: Four times 4: Five times 5: Six times 6: Seven times 7: Eight times 8: Nine times 9: Ten times	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Process			5002		Job end cleaning bias polarity switching frequency (When not printing)	3	0~9	M	Set this code when there is any stain on the back side of the printed paper (leading edge) caused by the transfer roller after the warming-up, forced toner supply or auto-toner adjustment. 0: Once 1: Twice 2: Three times 3: Four times 4: Five times 5: Six times 6: Seven times 7: Eight times 8: Nine times 9: Ten times	1	
08	Setting mode	Process	Process			5003		Job end cleaning bias polarity switching frequency (At jam recovery)	3	0~9	M	Sets when there is any stain on the back side of the printed paper (leading edge) caused by the transfer roller after a paper jam is cleared. 0: Once 1: Twice 2: Three times 3: Four times 4: Five times 5: Six times 6: Seven times 7: Eight times 8: Nine times 9: Ten times	1	
08	Setting mode	Process	Transfer			5005		Switching transfer bias between sheets of paper	1	0~1	M	0: Positive, 1: Negative	1	
08	Setting mode	Process	Transfer			5075	0	Paper width transfer output correction (H) (Middle)	Refer to contents	0~255	M	<Default value> e-STUDIO206L/256/306: 136 e-STUDIO356/456/506: 146	4	
08	Setting mode	Process	Transfer			5075	1	Paper width transfer output correction (C) (Middle)	Refer to contents	0~255	M	<Default value> e-STUDIO206L/256/306: 136 e-STUDIO356/456/506: 146	4	
08	Setting mode	Process	Transfer			5075	2	Paper width transfer output correction (L) (Middle)	Refer to contents	0~255	M	<Default value> e-STUDIO206L/256/306: 146 e-STUDIO356/456/506: 156	4	
08	Setting mode	Process	Transfer			5076	0	Paper width transfer output correction (H) (Small)	Refer to contents	0~255	M	<Default value> e-STUDIO206L/256/306: 150 e-STUDIO356/456/506: 168	4	
08	Setting mode	Process	Transfer			5076	1	Paper width transfer output correction (C) (Small)	Refer to contents	0~255	M	<Default value> e-STUDIO206L/256/306: 150 e-STUDIO356/456/506: 168	4	
08	Setting mode	Process	Transfer			5076	2	Paper width transfer output correction (L) (Small)	Refer to contents	0~255	M	<Default value> e-STUDIO206L/256/306: 162 e-STUDIO356/456/506: 177	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Process			5101		Toner cartridge correction table switching	0	0~2	M	Corrects the image density according to the detection value of the sensor. Changing this code varies the correction amount of the image density. Set this code when the density is too high or low. 0: Middle-level correction 1: Low-level correction 2: High-level correction It is hardly corrected at the normal temperature and humidity.	1	
08	Setting mode	Process	Developm ent	Toner near empty		5155		Toner near empty threshold setting	1	0-5	M	0: The period from the appearance of the toner near-empty sign to the actual complete consumption of the toner is set to long. 1: Normal (Default) 2: The period from the appearance of the toner near-empty sign to the actual complete consumption of the toner is set to short. 3: No detection 4: Toner near-empty status threshold value: (%)* 5: Toner near-empty status threshold value: (Number of sheets)* * The toner near-empty status is displayed if the remaining amount of toner is equal to or less than the amount set in 08-5810/5811 (percentage or number of sheets).	1	Yes
08	Setting mode	Process	Developm ent	Toner near empty	Fine adjustment of threshold for displaying remaining toner and toner near empty	5156	3	K	83	50-150	M	Adjusts the threshold value for displaying remaining amount of toner and toner near empty. Display threshold value = default threshold value x setting value/100 (unit: %)	4	
08	Setting mode	Process	Fuser	Fusing correction control time immediately after warming-up		5210	0	Temperature correction	2	0~10	M	0: Disabled, 1: 1 min. 2: 2 min. 3: 3 min. 4: 4 min. 5: 5 min. 6: 6 min. 7: 7 min. 8: 8 min. 9: 10 min. 10: 15 min.	4	
08	Setting mode	Process	Fuser	Fusing correction control time immediately after warming-up		5210	1	Maximum time of lamp ON	2	0~10	M	0: Disabled, 1: 1 min. 2: 2 min. 3: 3 min. 4: 4 min. 5: 5 min. 6: 6 min. 7: 7 min. 8: 8 min. 9: 10 min. 10: 15 min.	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser			5285		Fusing temperature during printing (Plain paper/Sub)	Refer to contents	0 to 14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 205°C 14: 210°C <Default value> e-STUDIO206L/256/306: - e-STUDIO356/456/506: 9	1	
08	Setting mode	Process	Fuser			5328		Fusing temperature during printing (Thick paper 1/Sub)	Refer to contents	0 to 14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 205°C 14: 210°C <Default value> e-STUDIO206L/256/306: - e-STUDIO356/456/506: 10	1	
08	Setting mode	Process	Fuser			5329		Fusing temperature during printing (Thick paper 2/Sub)	Refer to contents	0 to 14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 205°C 14: 210°C <Default value> e-STUDIO206L/256/306: - e-STUDIO356/456/506: 10	1	
08	Setting mode	Process	Fuser			5330		Fusing temperature during printing (Thick paper 3/Sub)	Refer to contents	0 to 14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 205°C 14: 210°C <Default value> e-STUDIO206L/256/306: - e-STUDIO356/456/506: 10	1	
08	Setting mode	Process	Fuser			5331		Fusing temperature during printing (Overhead transparencies /Sub)	Refer to contents	0 to 14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 205°C 14: 210°C <Default value> e-STUDIO206L/256/306: - e-STUDIO356/456/506: 10	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser			5332		Fusing temperature during printing (Envelope/Sub)	Refer to contents	0 to 14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 205°C 14: 210°C <Default value> e-STUDIO206L/256/306: - e-STUDIO356/456/506: 12	1	
08	Setting mode	Process	Fuser	Temperature drop during printing (Sub)		5333	0	The first drop	Refer to contents	0 to 10	M	Setting value x -5°C: from 0°C to -50°C This code is valid only when "20" is set to 08-2214-0. <Default value> e-STUDIO206L/256/306: - e-STUDIO356/456/506: 0	4	
08	Setting mode	Process	Fuser	Temperature drop during printing (Sub)		5333	1	The second drop	Refer to contents	0 to 10	M	Setting value x -5°C: from 0°C to -50°C This code is valid only when "20" is set to 08-2214-0. <Default value> e-STUDIO206L/256/306: - e-STUDIO356/456/506: 4	4	
08	Setting mode	Process	Fuser	Temperature drop during printing (Sub)		5333	2	The third drop	Refer to contents	0 to 10	M	Setting value x -5°C: from 0°C to -50°C This code is valid only when "20" is set to 08-2214-0. <Default value> e-STUDIO206L/256/306: - e-STUDIO356/456/506: 4	4	
08	Setting mode	Process	Fuser	Temperature drop during printing (Sub)		5333	3	The forth drop	Refer to contents	0 to 10	M	Setting value x -5°C: from 0°C to -50°C This code is valid only when "20" is set to 08-2214-0. <Default value> e-STUDIO206L/256/306: - e-STUDIO356/456/506: 4	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting (Sub)		5334	0	The first drop	Refer to contents	0 to 200	M	Setting value x 5 seconds: from 0 to 1000 seconds This code is valid only when "20" is set to 08-2214-0. <Default value> e-STUDIO206L/256/306: - e-STUDIO356/456/506: 5	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser	Temperature drop switching time setting (Sub)		5334	1	The second drop	Refer to contents	0 to 200	M	Setting value x 5 seconds: from 0 to 1000 seconds This code is valid only when "20" is set to 08-2214-0. <Default value> e-STUDIO206L/256/306: - e-STUDIO356/456/506: 18	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting (Sub)		5334	2	The third drop	Refer to contents	0 to 200	M	Setting value x 5 seconds: from 0 to 1000 seconds This code is valid only when "20" is set to 08-2214-0. <Default value> e-STUDIO206L/256/306: - e-STUDIO356/456/506: 24	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting (Sub)		5334	3	The forth drop	Refer to contents	0 to 200	M	Setting value x 5 seconds: from 0 to 1000 seconds This code is valid only when "20" is set to 08-2214-0. <Default value> e-STUDIO206L/256/306: - e-STUDIO356/456/506: 75	4	
08	Setting mode	Process	Fuser	Temperature drop during printing on thick paper (Sub)		5335	0	The first drop	Refer to contents	0 to 10	M	Setting value x -5°C: from 0°C to -50°C This code is valid only when "20" is set to 08-2214-1. <Default value> e-STUDIO206L/256/306: - e-STUDIO356/456/506: 0	4	
08	Setting mode	Process	Fuser	Temperature drop during printing on thick paper (Sub)		5335	1	The second drop	Refer to contents	0 to 10	M	Setting value x -5°C: from 0°C to -50°C This code is valid only when "20" is set to 08-2214-1. <Default value> e-STUDIO206L/256/306: - e-STUDIO356/456/506: 4	4	
08	Setting mode	Process	Fuser	Temperature drop during printing on thick paper (Sub)		5335	2	The third drop	Refer to contents	0 to 10	M	Setting value x -5°C: from 0°C to -50°C This code is valid only when "20" is set to 08-2214-1. <Default value> e-STUDIO206L/256/306: - e-STUDIO356/456/506: 4	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser	Temperature drop during printing on thick paper (Sub)		5335	3	The forth drop	Refer to contents	0 to 10	M	Setting value x -5°C: from 0°C to -50°C This code is valid only when "20" is set to 08-2214-1. <Default value> e-STUDIO206L/256/306: - e-STUDIO356/456/506: 4	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing on thick paper (Sub)		5336	0	The first drop	Refer to contents	0 to 200	M	Setting value x 5 seconds: from 0 to 1000 seconds This code is valid only when "20" is set to 08-2214-1. <Default value> e-STUDIO206L/256/306: - e-STUDIO356/456/506: 5	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing on thick paper (Sub)		5336	1	The second drop	Refer to contents	0 to 200	M	Setting value x 5 seconds: from 0 to 1000 seconds This code is valid only when "20" is set to 08-2214-1. <Default value> e-STUDIO206L/256/306: - e-STUDIO356/456/506: 18	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing on thick paper (Sub)		5336	2	The third drop	Refer to contents	0 to 200	M	Setting value x 5 seconds: from 0 to 1000 seconds This code is valid only when "20" is set to 08-2214-1. <Default value> e-STUDIO206L/256/306: - e-STUDIO356/456/506: 24	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing on thick paper (Sub)		5336	3	The fourth drop	Refer to contents	0 to 200	M	Setting value x 5 seconds: from 0 to 1000 seconds This code is valid only when "20" is set to 08-2214-1. <Default value> e-STUDIO206L/256/306: - e-STUDIO356/456/506: 75	4	
08	Setting mode	Process	Fuser	Correction of temperature rising prevention (Latest value)		5337	0	Ready	0	0~15	M	0: 0℃ 1: -1℃ 2: -2℃ 3: -3℃ 4: -4℃ 5: -5℃ 6: -6℃ 7: -7℃ 8: -8℃ 9: -9℃ 10: -10℃ 11: -11℃ 12: -12℃ 13: -13℃ 14: -14℃ 15: -15℃	14	
08	Setting mode	Process	Fuser	Correction of temperature rising prevention (Latest value)		5337	1	Print	0	0~15	M	0: 0℃ 1: -1℃ 2: -2℃ 3: -3℃ 4: -4℃ 5: -5℃ 6: -6℃ 7: -7℃ 8: -8℃ 9: -9℃ 10: -10℃ 11: -11℃ 12: -12℃ 13: -13℃ 14: -14℃ 15: -15℃	14	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Maintenan ce			5554		PM counter setting value for developer material (K)	Refer to content	8 digits	M	Sets the number of printed sheets to display the message that prompts the PM of developer material. <Default value> e-STUDIO206L: JPD: 0 Other: 80000 e-STUDIO256: JPD: 0 Other: 100000 e-STUDIO306: JPD: 0 Other: 120000 e-STUDIO356: JPD: 0 Other: 125000 e-STUDIO456: JPD: 0 Other: 150000 e-STUDIO506: JPD: 0 Other: 150000	1	
08	Setting mode	Counter	Maintenan ce			5555		PM time counter setting value for developer material (K)	Refer to contents	8 digits	M	Sets the accumulated driving time to display the message that prompts the PM of developer material. <Default value> e-STUDIO206L/256/306: 161000 e-STUDIO356/456/506: 135000	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Maintenan ce			5562		PM counter setting value for part	Refer to content	8 digits	M	Sets the number of printed sheets to display the message that prompts the PM of part. <Default value> e-STUDIO206L: JPD: 0 Other: 240000 e-STUDIO256: JPD: 0 Other: 200000 e-STUDIO306: JPD: 0 Other: 240000 e-STUDIO356: JPD: 0 Other: 250000 e-STUDIO456: JPD: 0 Other: 300000 e-STUDIO506: JPD: 0 Other: 300000	1	
08	Setting mode	Counter	Maintenan ce			5563		PM time counter setting value for part	Refer to content	8 digits	M	Sets the accumulated driving time to display the message that prompts the PM of part. <Default value> e-STUDIO206L: 483000 e-STUDIO256/306: 322000 e-STUDIO356/456/506: 270000	1	
08	Setting mode	Counter	Maintenan ce			5568		Current value of PM counter for developer material (K)	0	8 digits	M	Displays the current number of printed sheets. Counts up by turning on the registration sensor.	1	
08	Setting mode	Counter	Maintenan ce			5569		Current value of PM time counter for developer material (K)	0	8 digits	M	Displays the current driving time.	1	
08	Setting mode	Counter	Maintenan ce			5576		Current value of PM counter for part	0	8 digits	M	Displays the current number of printed sheets. Counts up by turning on the registration sensor.	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Maintenan ce			5577		Current value of PM time counter for part	0	8 digits	M	Displays the current driving time of fuser.	1	
08	Setting mode	Counter	Maintenan ce			5581		Switching of output pages/driving counts at PM/developer material (K)	0	0~2	M	0: Pages 1: driving count 2: Whichever comes faster	1	
08	Setting mode	Counter	Maintenan ce			5585		Switching of output pages/driving counts at PM/part	0	0~2	M	0: Pages 1: driving count 2: Whichever comes faster	1	
08	Setting mode	Process	Developm ent	Toner near empty		5810		Toner near-empty status threshold value setting (%)	3	1-99	M	This code is used when the value of 08-5155 is set to "4". Use this code to specify the threshold value (unit: %) for displaying the toner near-empty status. The accuracy of value is influenced by usage environment or originals.	1	
08	Setting mode	Process	Developm ent	Toner near empty		5811		Toner near-empty status threshold value setting (number of sheets)	1000	1-9999	M	This code is used when the value of 08-5155 is set to "5". Use this code to specify the threshold value (unit: number of sheets) for displaying the toner near-empty status. The accuracy of value is influenced by usage environment or originals.	1	
08	Setting mode	Counter	Double count	For fee charging	Paper size	6010		Large-sized paper	Refer to contents	0~2	M	0: Counted as 1 1: Counted as 2 2: Counted as 1 (Mechanical counter is double counter) <Default value> JPN: 0 OTHER: 1	1	Yes
08	Setting mode	Counter	Double count	For fee charging	Paper size	6011		Definition setting of large sized paper	0	0~1	M	0: A3/LD 1: A3/LD/B4/LG/FOLIO/COMP/8K	1	Yes
08	Setting mode	Counter	Double count	For PM	Paper size	6012		Large-sized paper	1	0~1	M	0: Counted as 1 1: Counted as 2	1	Yes
08	Setting mode	Counter	Double count	For PM	Paper size	6013		Definition setting of large sized paper	1	0~1	M	0: A3/LD 1: A3/LD/B4/LG/FOLIO/COMP	1	Yes
08	Setting mode	Counter	Double count	For PM	Paper type	6014		Thick paper	1	0~1	M	0: Counted as 1 1: Counted as 2	1	Yes
08	Setting mode	Counter	Double count	For PM	Paper type	6015		OHP	1	0~1	M	0: Counted as 1 1: Counted as 2	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Double count	For PM	Paper type	6016		Envelope	1	0~1	M	0: Counted as 1 1: Counted as 2	1	Yes
08	Setting mode	Counter	Double count	For PM	Paper type	6017		Tab paper	1	0~1	M	0: Counted as 1 1: Counted as 2	1	Yes
08	Setting mode	Counter	Counter	Display of number of output pages in copier function	PPC	6063	0	Large	0	8 digits	SYS	Counts the number of output pages in the Copier Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	
08	Setting mode	Counter	Counter	Display of number of output pages in copier function	PPC	6063	1	Small	0	8 digits	SYS	Counts the number of output pages in the Copier Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	
08	Setting mode	Counter	Counter	Display of number of output pages in printer function	PRT	6064	0	Large	0	8 digits	SYS	Counts the number of output pages in the Printer Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes	14	
08	Setting mode	Counter	Counter	Display of number of output pages in printer function	PRT	6064	1	Small	0	8 digits	SYS	Counts the number of output pages in the Printer Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes	14	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Counter	Display of number of output pages at list print mode	PRT	6065	0	Large	0	8 digits	SYS	Counts the number of output pages at the List Print Mode Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	
08	Setting mode	Counter	Counter	Display of number of output pages at list print mode	PRT	6065	1	Small	0	8 digits	SYS	Counts the number of output pages at the List Print Mode Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	
08	Setting mode	Counter	Counter	Display of number of output pages in FAX function	PRT	6066	0	Large	0	8 digits	SYS	Counts the number of output pages in the FAX Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	
08	Setting mode	Counter	Counter	Display of number of output pages in FAX function	PRT	6066	1	Small	0	8 digits	SYS	Counts the number of output pages in the FAX Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Counter	Display of number of scanning pages at Full Color Mode in Scanning Function	SCN	6068	0	Large	0	8 digits	SYS	Counts the number of scanning pages at the Full Color Mode in the Scanning Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	
08	Setting mode	Counter	Counter	Display of number of scanning pages at Full Color Mode in Scanning Function	SCN	6068	1	Small	0	8 digits	SYS	Counts the number of scanning pages at the Full Color Mode in the Scanning Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	
08	Setting mode	Counter	Counter	Display of number of scanning pages in copier function	PPC	6070	0	Large	0	8 digits	SYS	Counts the number of scanning pages in the Copier Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	
08	Setting mode	Counter	Counter	Display of number of scanning pages in copier function	PPC	6070	1	Small	0	8 digits	SYS	Counts the number of scanning pages in the Copier Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Counter	Display of number of scanning pages in FAX function	FAX	6071	0	Large	0	8 digits	SYS	Counts the number of scanning pages in the FAX Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	
08	Setting mode	Counter	Counter	Display of number of scanning pages in FAX function	FAX	6071	1	Small	0	8 digits	SYS	Counts the number of scanning pages in the FAX Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	
08	Setting mode	Counter	Counter	Display of number of scanning pages in scanning function	SCN	6072	0	Large	0	8 digits	SYS	Counts the number of scanning pages in the Scanning Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	
08	Setting mode	Counter	Counter	Display of number of scanning pages in scanning function	SCN	6072	1	Small	0	8 digits	SYS	Counts the number of scanning pages in the Scanning Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Counter	Display of number of transmitted pages in FAX function	FAX	6073	0	Large	0	8 digits	SYS	Counts the number of transmitted pages in the FAX Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	
08	Setting mode	Counter	Counter	Display of number of transmitted pages in FAX function	FAX	6073	1	Small	0	8 digits	SYS	Counts the number of transmitted pages in the FAX Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	
08	Setting mode	Counter	Counter	Display of number of received pages in FAX function	FAX	6074	0	Large	0	8 digits	SYS	Counts the number of received pages in the FAX Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	
08	Setting mode	Counter	Counter	Display of number of received pages in FAX function	FAX	6074	1	Small	0	8 digits	SYS	Counts the number of received pages in the FAX Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Custom counter	For dealer		6080		Enabling/Disabling custom counter	0	0~1	SYS	When this setting is enabled, the custom counter of total counter is enabled. Related code: 08-6088, 6089. When this setting is enabled, 08-6010 does not affect the total counter. Since the count is calculated based on the existing Large/Small counter, the count before changing this setting is also included in the count. 0: Disabled 1: Enabled	1	Yes
08	Setting mode	Counter	Custom counter/Job Quota	For administrator	Weighting/Scanning	6081	0	Black/Gray	0	0~9999	SYS	Weights subtraction of scanning from department/user Job Quota and addition of Scan Counter to Custom Counter. 0 (weight: 0.00) – 9999 (weight: 99.99)	4	Yes
08	Setting mode	Counter	Custom counter/Job Quota	For administrator	Weighting/Scanning	6081	1	Full Color	0	0~9999	SYS	Weights subtraction of scanning from department/user Job Quota and addition of Scan Counter to Custom Counter. 0 (weight: 0.00) – 9999 (weight: 99.99)	4	Yes
08	Setting mode	Counter	Double count setting for paper type			6083	1	Thick1/2/3/4 (Back)	Refer to contents	0~1	SYS	Sets the weight of fee charging count for printing per page. Scan counter and fax counter are not influenced. 0: Single 1: Double <Default value> JPD/CND: 0 Others: 1	4	Yes
08	Setting mode	Counter	Double count setting for paper type			6083	2	Special1/2 (Back)	Refer to contents	0~1	SYS	Sets the weight of fee charging count for printing per page. Scan counter and fax counter are not influenced. 0: Single 1: Double <Default value> JPD/CND: 0 Others: 1	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Double count setting for paper type			6083	3	Transparency	Refer to contents	0~1	SYS	Sets the weight of fee charging count for printing per page. Scan counter and fax counter are not influenced. 0: Single 1: Double <Default value> JPD/CND: 0 Others: 1	4	Yes
08	Setting mode	Counter	Double count setting for paper type			6083	4	Envelop	Refer to contents	0~1	SYS	Sets the weight of fee charging count for printing per page. Scan counter and fax counter are not influenced. 0: Single 1: Double <Default value> JPD/CND: 0 Others: 1	4	Yes
08	Setting mode	Counter	Double count setting for paper type			6083	5	Tab paper	Refer to contents	0~1	SYS	Sets the weight of fee charging count for printing per page. Scan counter and fax counter are not influenced. 0: Single 1: Double <Default value> JPD/CND: 0 Others: 1	4	Yes
08	Setting mode	Counter	Custom counter/Job Quota	For administrator		6084		Enabling/Disabling custom counter/Job Quota	0	0-1	SYS	When this setting is enabled, the custom counter and Job Quota of department/user are enabled. Related code: 08-6081, 6085. When this setting is enabled, 08-6010 does not affect the counter/Quota of department/user. 0: Disabled 1: Enabled	1	Yes
08	Setting mode	Counter	Custom counter/Job Quota	For administrator	Weighting/Print	6085	0	Black/Small	100	0~9999	SYS	Weights subtraction of printing from department/user Job Quota and addition of printing to Custom Counter. 0 (weight: 0.00) – 9999 (weight: 99.99)	4	
08	Setting mode	Counter	Custom counter/Job Quota	For administrator	Weighting/Print	6085	1	Black/Large	100	0~9999	SYS	Weights subtraction of printing from department/user Job Quota and addition of printing to Custom Counter. 0 (weight: 0.00) – 9999 (weight: 99.99)	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting Mode	Counter	Counter Settings			6087		Color/Black quota selection at twin/mono color count	0	0-1	SYS	When the pages are counted for twin/mono color counter, this code sets whether the pages are subtracted from ColorQuota or BlackQuota. Not all the pages of TwinColor/MonoColor are subtracted. The pages assigned to twin/mono color counter are subtracted. The setting of this code is enabled only in the Color/BlackQuota mode and not enabled in the JobQuota mode. If the value of this code is set to "0" (ColorQuota), an error occurs if a user without color permission performs twin color printing. Note that the same error occurs in the JobQuota mode. 0: ColorQuota 1: BlackQuota Related code: 08-6084, 08-9128, 08-9892	1	
08	Setting Mode	Counter	Custom counter	For dealer	Weighting/Scanning	6088	0	Black/Gray	0	0-9999	SYS	Weights addition of Scan Counter to Custom Counter (Total Counter). Since the count is calculated based on the existing Large/Small counter, the count before changing this setting is also included in the count. 0 (weight: 0.00) – 9999 (weight: 99.99)	4	
08	Setting Mode	Counter	Custom counter	For dealer	Weighting/Scanning	6088	1	Full Color	0	0-9999	SYS	Weights addition of Scan Counter to Custom Counter (Total Counter). Since the count is calculated based on the existing Large/Small counter, the count before changing this setting is also included in the count. 0 (weight: 0.00) – 9999 (weight: 99.99)	4	
08	Setting Mode	Counter	Custom counter	For dealer	Weighting/Print	6089	0	Black/Small	100	0-9999	SYS	Weights addition of print to Custom Counter (Total Counter). Since the count is calculated based on the existing Large/Small counter, the count before changing this setting is also included in the count. 0 (weight: 0.00) – 9999 (weight: 99.99)	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting Mode	Counter	Custom counter	For dealer	Weighting/Print	6089	1	Black/Large	100	0-9999	SYS	Weights addition of print to Custom Counter (Total Counter). Since the count is calculated based on the existing Large/Small counter, the count before changing this setting is also included in the count. 0 (weight: 0.00) – 9999 (weight: 99.99)	4	
08	Setting Mode	Counter	Custom counter	For dealer		6090		Truncation after decimal point of custom counter value	0	0-1	SYS	Sets the display method of custom counter value of total counter. When the value is displayed as integer, the total counter value (total value of each color) is sum of the truncated custom counter value of each color. Note that the value is slightly decreases compared to display with decimal point. 0: Displays 2 decimal places. 1: Displays integer (Truncation after decimal point)	1	
08	Setting Mode	Counter	Custom counter	For dealer		6091		Output of annotation for custom counter	1	0-1	SYS	Sets whether the annotation "Custom Counter is result of..." for custom counter of total counter is output or not. 0: Annotation is not output 1: Annotation is output	1	
08	Setting mode	Counter	Counter of Paper feed			6110		Upper drawer	0	8 digits	M	Counts the number of sheets fed from upper drawer	2	Yes
08	Setting mode	Counter	Counter of Paper feed			6111		Lower drawer	0	8 digits	M	Counts the number of sheets fed from lower drawer	2	Yes
08	Setting mode	Counter	Counter of Paper feed			6112		Bypass feed	0	8 digits	M	Counts the number of sheets fed from bypass feed	2	Yes
08	Setting mode	Counter	Counter of Paper feed			6113		LCF	0	8 digits	M	Counts the number of sheets fed from LCF	2	Yes
08	Setting mode	Counter	Counter of Paper feed			6114		PFP upper drawer	0	8 digits	M	Counts the number of sheets fed from PFP upper drawer	2	Yes
08	Setting mode	Counter	Counter of Paper feed			6115		PFP lower drawer	0	8 digits	M	Counts the number of sheets fed from PFP lower drawer	2	Yes
08	Setting mode	Counter	Counter of Paper feed			6116		ADU	0	8 digits	M	Counts the number of output pages of duplex printing.	2	Yes
08	Setting mode	Counter	Counter of Paper feed			6117		RADF	0	8 digits	SYS	Counts the number of originals fed from RADF	2	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Maintenance	PM counter	K	6190		Setting value	Refer to contents	8 digits	M	<Default> e-STUDIO206L: JPD: 0 Other: 80000 e-STUDIO256: JPD: 0 Other: 100000 e-STUDIO306: JPD: 0 Other: 120000 e-STUDIO356: JPD: 0 Other: 125000 e-STUDIO456/506: JPD: 0 Other: 150000	1	Yes
08	Setting mode	Counter	Maintenance	PM drive counter	K	6191		Setting value	Refer to contents	8 digits	M	Time accumulating counter <Default value> e-STUDIO206L/256/306: JPD: 0 Other: 161000 e-STUDIO356/456/506: JPD: 0 Other: 135000	1	Yes
08	Setting mode	Counter	Maintenance	PM counter	K	6194		Current value	0	8 digits	M	Counts up when the registration sensor is ON.	1	Yes
08	Setting mode	Counter	Maintenance	PM drive counter	K	6195		Current value	0	8 digits	M	Counts the drum driving time.	1	Yes
08	Setting mode	Counter	Maintenance			6198		Switching of output pages/ driving counts at K-PM	0	0~2	M	Selects the reference to notify the PM timing. (The message is displayed on the LCD screen.) 0: PM counter (The number of output pages is set at 08-6190.) 1: PM time counter (The timing is set at 08-6191.) 2: Whichever comes faster	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Counter			6225		Number of output pages(Thick paper 1)	0	8 digits	M	Counts up when the registration sensor is ON. When the counter value of the fuser roller is cleared, this counter value is also cleared in sync at the PM support mode.	1	
08	Setting mode	Counter	Counter			6226		Number of output pages(Thick paper 2)	0	8 digits	M	Counts up when the registration sensor is ON. When the counter value of the fuser roller is cleared, this counter value is also cleared in sync at PM support mode.	1	
08	Setting mode	Counter	Counter			6227		Number of output pages(Thick paper 3)	0	8 digits	M	Counts up when the registration sensor is ON. When the counter value of the fuser roller is cleared, this counter value is also cleared in sync at PM support mode.	1	
08	Setting mode	Counter	Counter			6228		Number of output pages (OHP film)	0	8 digits	M	Counts up when the registration sensor is ON. When the counter value of the fuser roller is cleared, this counter value is also cleared in sync at PM support mode.	1	
08	Setting mode	Counter	Feeding system/Pa per transport	Feeding retry counter		6230		Upper drawer	0	8 digits	M	Counts the number of times of the feeding retry from the upper drawer.	1	Yes
08	Setting mode	Counter	Feeding system/Pa per transport	Feeding retry counter		6231		Lower drawer	0	8 digits	M	Counts the number of times of the feeding retry from the lower drawer.	1	Yes
08	Setting mode	Counter	Feeding system/Pa per transport	Feeding retry counter		6232		PFP upper drawer	0	8 digits	M	Counts the number of times of the feeding retry from the PFP upper drawer.	1	Yes
08	Setting mode	Counter	Feeding system/Pa per transport	Feeding retry counter		6233		PFP lower drawer	0	8 digits	M	Counts the number of times of the feeding retry from the PFP lower drawer.	1	Yes
08	Setting mode	Counter	Feeding system/Pa per transport	Feeding retry counter		6234		Bypass feed	0	8 digits	M	Counts the number of times of the feeding retry from the bypass tray.	1	Yes
08	Setting mode	Counter	Feeding system/Pa per transport	Feeding retry counter		6235		LCF	0	8 digits	M	Counts the number of times of the feeding retry from the LCF.	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Paper feeding			6236		Feeding retry counter upper limit value(Upper drawer)	0	8 digits	M	When the number of feeding retry (08-6230 to 08-6235) exceeds the setting value, the feeding retry will not be performed subsequently. In case "0" is set as a setting value, however, the feeding retry continues regardless of the counter setting value.	1	
08	Setting mode	Counter	Paper feeding			6237		Feeding retry counter upper limit value(Lower drawer)	0	8 digits	M	When the number of feeding retry (08-6230 to 08-6235) exceeds the setting value, the feeding retry will not be performed subsequently. In case "0" is set as a setting value, however, the feeding retry continues regardless of the counter setting value.	1	
08	Setting mode	Counter	Paper feeding			6238		Feeding retry counter upper limit value(PFP upper drawer)	0	8 digits	M	When the number of feeding retry (08-6230 to 08-6235) exceeds the setting value, the feeding retry will not be performed subsequently. In case "0" is set as a setting value, however, the feeding retry continues regardless of the counter setting value.	1	
08	Setting mode	Counter	Paper feeding			6239		Feeding retry counter upper limit value(PFP lower drawer)	0	8 digits	M	When the number of feeding retry (08-6230 to 08-6235) exceeds the setting value, the feeding retry will not be performed subsequently. In case "0" is set as a setting value, however, the feeding retry continues regardless of the counter setting value.	1	
08	Setting mode	Counter	Paper feeding			6240		Feeding retry counter upper limit value(Bypass feed)	0	8 digits	M	When the number of feeding retry (08-6230 to 08-6235) exceeds the setting value, the feeding retry will not be performed subsequently. In case "0" is set as a setting value, however, the feeding retry continues regardless of the counter setting value.	1	
08	Setting mode	Counter	Paper feeding			6241		Feeding retry counter upper limit value(Tandem LCF)	0	8 digits	M	When the number of feeding retry (08-6230 to 08-6235) exceeds the setting value, the feeding retry will not be performed subsequently. In case "0" is set as a setting value, however, the feeding retry continues regardless of the counter setting value.	1	
08	Setting mode	Counter	Counter			6244		Counter for tab paper	0	8 digits	M	Counts up when the registration sensor is ON in the tab paper mode.	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Counter			6247		Counter for envelope	0	8 digits	M	Counts up when the registration sensor is ON. When the counter value of the fuser roller is reset, this counter is reset in sync at the PM support mode.	1	Yes
08	Setting mode	Counter	PM counter	Photoconductive drum		6250	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Photoconductive drum		6250	1	Recommended number of output pages for replacement	Refer to contents	8 digits	M	<Default value> e-STUDIO206L: 80,000 e-STUDIO256: 100,000 e-STUDIO306: 120,000 e-STUDIO356: 125,000 e-STUDIO456/506: 150,000	4	
08	Setting mode	Counter	PM counter	Photoconductive drum		6250	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Photoconductive drum		6250	3	Present driving counts	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Photoconductive drum		6250	4	Recommended driving counts to be replaced	Refer to contents	8 digits	M	<Default value> e-STUDIO206L/256/306: 161,000 e-STUDIO356/456/506: 135,000	4	
08	Setting mode	Counter	PM counter	Photoconductive drum		6250	5	Driving counts at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Photoconductive drum		6250	6	Present output pages for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Photoconductive drum		6250	7	Present driving counts for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Photoconductive drum		6250	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Photoconductive drum		6251	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Drum cleaning blade		6258	0	Present number of output pages	0	8 digits	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Drum cleaning blade		6258	1	Recommended number of output pages for replacement	Refer to contents	8 digits	M	<Default value> e-STUDIO206L: 80,000 e-STUDIO256: 100,000 e-STUDIO306: 120,000 e-STUDIO356: 125,000 e-STUDIO456/506: 150,000	4	
08	Setting mode	Counter	PM counter	Drum cleaning blade		6258	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Drum cleaning blade		6258	3	Present driving counts	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Drum cleaning blade		6258	4	Recommended driving counts to be replaced	Refer to contents	8 digits	M	<Default value> e-STUDIO206L/256/306: 161,000 e-STUDIO356/456/506: 135,000	4	
08	Setting mode	Counter	PM counter	Drum cleaning blade		6258	5	Driving counts at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Drum cleaning blade		6258	6	Present output pages for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Drum cleaning blade		6258	7	Present driving counts for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Drum cleaning blade		6258	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Drum cleaning blade		6259	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Drum separation finger		6272	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Drum separation finger		6272	1	Recommended number of output pages for replacement	Refer to contents	8 digits	M	<Default value> e-STUDIO206L: 80,000 e-STUDIO256: 100,000 e-STUDIO306: 120,000 e-STUDIO356: 125,000 e-STUDIO456/506: 150,000	4	
08	Setting mode	Counter	PM counter	Drum separation finger		6272	2	Number of output pages at the last replacement	0	8 digits	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Drum separation finger		6272	3	Present driving counts	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Drum separation finger		6272	4	Recommended driving counts to be replaced	Refer to contents	8 digits	M	<Default value> e-STUDIO206L/256/306: 161,000 e-STUDIO356/456/506: 135,000	4	
08	Setting mode	Counter	PM counter	Drum separation finger		6272	5	Driving counts at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Drum separation finger		6272	6	Present output pages for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Drum separation finger		6272	7	Present driving counts for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Drum separation finger		6272	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Drum separation finger		6273	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Charger grid		6274	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Charger grid		6274	1	Recommended number of output pages for replacement	Refer to contents	8 digits	M	<Default value> e-STUDIO206L: 80,000 e-STUDIO256: 100,000 e-STUDIO306: 120,000 e-STUDIO356: 125,000 e-STUDIO456/506: 150,000	4	
08	Setting mode	Counter	PM counter	Charger grid		6274	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Charger grid		6274	3	Present driving counts	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Charger grid		6274	4	Recommended driving counts to be replaced	Refer to contents	8 digits	M	<Default value> e-STUDIO206L/256/306: 161,000 e-STUDIO356/456/506: 135,000	4	
08	Setting mode	Counter	PM counter	Charger grid		6274	5	Driving counts at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Charger grid		6274	6	Present output pages for control	0	8 digits	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Charger grid		6274	7	Present driving counts for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Charger grid		6274	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Charger grid		6275	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Charger (Wire)		6282	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Charger (Wire)		6282	1	Recommended number of output pages for replacement	Refer to contents	8 digits	M	<Default value> e-STUDIO206L: 80,000 e-STUDIO256: 100,000 e-STUDIO306: 120,000 e-STUDIO356: 125,000 e-STUDIO456/506: 150,000	4	
08	Setting mode	Counter	PM counter	Charger (Wire)		6282	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Charger (Wire)		6282	3	Present driving counts	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Charger (Wire)		6282	4	Recommended driving counts to be replaced	Refer to contents	8 digits	M	<Default value> e-STUDIO206L/256/306: 161,000 e-STUDIO356/456/506: 135,000	4	
08	Setting mode	Counter	PM counter	Charger (Wire)		6282	5	Driving counts at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Charger (Wire)		6282	6	Present output pages for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Charger (Wire)		6282	7	Present driving counts for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Charger (Wire)		6282	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Charger (Wire)		6283	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Ozone filter		6298	0	Present number of output pages	0	8 digits	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Ozone filter		6298	1	Recommended number of output pages for replacement	Refer to contents	8 digits	M	<Default value> e-STUDIO206L: 240,000 e-STUDIO256: 200,000 e-STUDIO306: 240,000 e-STUDIO356: 250,000 e-STUDIO456/506: 300,000	4	
08	Setting mode	Counter	PM counter	Ozone filter		6298	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Ozone filter		6298	3	Present driving counts	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Ozone filter		6298	4	Recommended driving counts to be replaced	Refer to contents	8 digits	M	<Default value> e-STUDIO206L: 483,000 e-STUDIO256/306: 322,000 e-STUDIO356/456/506: 270,000	4	
08	Setting mode	Counter	PM counter	Ozone filter		6298	5	Driving counts at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Ozone filter		6298	6	Present output pages for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Ozone filter		6298	7	Present driving counts for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Ozone filter		6298	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Ozone filter		6299	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Developer material		6300	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Developer material		6300	1	Recommended number of output pages for replacement	Refer to contents	8 digits	M	<Default value> e-STUDIO206L: 80,000 e-STUDIO256: 100,000 e-STUDIO306: 120,000 e-STUDIO356: 125,000 e-STUDIO456/506: 150,000	4	
08	Setting mode	Counter	PM counter	Developer material		6300	2	Number of output pages at the last replacement	0	8 digits	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Developer material		6300	3	Present driving counts	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Developer material		6300	4	Recommended driving counts to be replaced	Refer to contents	8 digits	M	<Default value> e-STUDIO206L/256/306: 161,000 e-STUDIO356/456/506: 135,000	4	
08	Setting mode	Counter	PM counter	Developer material		6300	5	Driving counts at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Developer material		6300	6	Present output pages for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Developer material		6300	7	Present driving counts for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Developer material		6300	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Developer material		6301	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Transfer (wire/belt/ roller)		6314	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Transfer (wire/belt/ roller)		6314	1	Recommended number of output pages for replacement	Refer to contents	8 digits	M	<Default value> e-STUDIO206L: 80,000 e-STUDIO256: 100,000 e-STUDIO306: 120,000 e-STUDIO356: 125,000 e-STUDIO456/506: 150,000	4	
08	Setting mode	Counter	PM counter	Transfer (wire/belt/ roller)		6314	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Transfer (wire/belt/ roller)		6314	3	Present driving counts	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Transfer (wire/belt/ roller)		6314	4	Recommended driving counts to be replaced	Refer to contents	8 digits	M	<Default value> e-STUDIO206L/256/306: 161,000 e-STUDIO356/456/506: 135,000	4	
08	Setting mode	Counter	PM counter	Transfer (wire/belt/ roller)		6314	5	Driving counts at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Transfer (wire/belt/ roller)		6314	6	Present output pages for control	0	8 digits	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Transfer (wire/belt/roller)		6314	7	Present driving counts for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Transfer (wire/belt/roller)		6314	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Transfer (wire/belt/roller)		6315	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Fuser roller		6346	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Fuser roller		6346	1	Recommended number of output pages for replacement	Refer to contents	8 digits	M	<Default value> e-STUDIO206L: 240,000 e-STUDIO256: 200,000 e-STUDIO306: 240,000 e-STUDIO356: 250,000 e-STUDIO456/506: 300,000	4	
08	Setting mode	Counter	PM counter	Fuser roller		6346	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Fuser roller		6346	3	Present driving counts	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Fuser roller		6346	4	Recommended driving counts to be replaced	Refer to contents	8 digits	M	<Default value> e-STUDIO206L: 483,000 e-STUDIO256/306: 322,000 e-STUDIO356/456/506: 270,000	4	
08	Setting mode	Counter	PM counter	Fuser roller		6346	5	Driving counts at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Fuser roller		6346	6	Present output pages for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Fuser roller		6346	7	Present driving counts for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Fuser roller		6346	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Fuser roller		6347	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Pressure roller		6350	0	Present number of output pages	0	8 digits	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Pressure roller		6350	1	Recommended number of output pages for replacement	Refer to contents	8 digits	M	<Default value> e-STUDIO206L: 240,000 e-STUDIO256: 200,000 e-STUDIO306: 240,000 e-STUDIO356: 250,000 e-STUDIO456/506: 300,000	4	
08	Setting mode	Counter	PM counter	Pressure roller		6350	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pressure roller		6350	3	Present driving counts	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pressure roller		6350	4	Recommended driving counts to be replaced	Refer to contents	8 digits	M	<Default value> e-STUDIO206L: 483,000 e-STUDIO256/306: 322,000 e-STUDIO356/456/506: 270,000	4	
08	Setting mode	Counter	PM counter	Pressure roller		6350	5	Driving counts at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pressure roller		6350	6	Present output pages for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pressure roller		6350	7	Present driving counts for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pressure roller		6350	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pressure roller		6351	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Fuser roller separation finger		6368	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Fuser roller separation finger		6368	1	Recommended number of output pages for replacement	Refer to contents	8 digits	M	<Default value> e-STUDIO206L: 240,000 e-STUDIO256: 200,000 e-STUDIO306: 240,000 e-STUDIO356: 125,000 e-STUDIO456/506: 150,000	4	
08	Setting mode	Counter	PM counter	Fuser roller separation finger		6368	2	Number of output pages at the last replacement	0	8 digits	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Fuser roller separation finger		6368	3	Present driving counts	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Fuser roller separation finger		6368	4	Recommended driving counts to be replaced	Refer to contents	8 digits	M	<Default value> e-STUDIO206L: 483,000 e-STUDIO256/306: 322,000 e-STUDIO356/456/506: 135,000	4	
08	Setting mode	Counter	PM counter	Fuser roller separation finger		6368	5	Driving counts at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Fuser roller separation finger		6368	6	Present output pages for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Fuser roller separation finger		6368	7	Present driving counts for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Fuser roller separation finger		6368	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Fuser roller separation finger		6369	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Pickup roller (RADF)		6382	0	Present number of output pages	0	8 digits	SYS		4	
08	Setting mode	Counter	PM counter	Pickup roller (RADF)		6382	1	Recommended number of output pages for replacement	120,000	8 digits	SYS		4	
08	Setting mode	Counter	PM counter	Pickup roller (RADF)		6382	2	Number of output pages at the last replacement	0	8 digits	SYS		4	
08	Setting mode	Counter	PM counter	Pickup roller (RADF)		6382	8	Number of times replaced	0	8 digits	SYS		4	
08	Setting mode	Counter	PM counter	Pickup roller (RADF)		6383	-	Date of previous replacement	0	8 digits	SYS		2	
08	Setting mode	Counter	PM counter	Feed roller (RADF)		6384	0	Present number of output pages	0	8 digits	SYS		4	
08	Setting mode	Counter	PM counter	Feed roller (RADF)		6384	1	Recommended number of output pages for replacement	120,000	8 digits	SYS		4	
08	Setting mode	Counter	PM counter	Feed roller (RADF)		6384	2	Number of output pages at the last replacement	0	8 digits	SYS		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Feed roller (RADF)		6384	8	Number of times replaced	0	8 digits	SYS		4	
08	Setting mode	Counter	PM counter	Feed roller (RADF)		6385	-	Date of previous replacement	0	8 digits	SYS		2	
08	Setting mode	Counter	PM counter	Separation roller (RADF)		6386	0	Present number of output pages	0	8 digits	SYS		4	
08	Setting mode	Counter	PM counter	Separation roller (RADF)		6386	1	Recommended number of output pages for replacement	120,000	8 digits	SYS		4	
08	Setting mode	Counter	PM counter	Separation roller (RADF)		6386	2	Number of output pages at the last replacement	0	8 digits	SYS		4	
08	Setting mode	Counter	PM counter	Separation roller (RADF)		6386	8	Number of times replaced	0	8 digits	SYS		4	
08	Setting mode	Counter	PM counter	Separation roller (RADF)		6387	-	Date of previous replacement	0	8 digits	SYS		2	
08	Setting mode	Counter	PM counter	Pickup roller (Upper drawer of equipment)		6390	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Upper drawer of equipment)		6390	1	Recommended number of output pages for replacement	80,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Upper drawer of equipment)		6390	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Upper drawer of equipment)		6390	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Upper drawer of equipment)		6391	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Pickup roller (Lower drawer of equipment)		6392	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Lower drawer of equipment)		6392	1	Recommended number of output pages for replacement	80,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Lower drawer of equipment)		6392	2	Number of output pages at the last replacement	0	8 digits	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Pickup roller (Lower drawer of equipment)		6392	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Lower drawer of equipment)		6393	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Pickup roller (Optional LCF)		6394	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Optional LCF)		6394	1	Recommended number of output pages for replacement	160,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Optional LCF)		6394	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Optional LCF)		6394	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Optional LCF)		6395	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Feed roller (Upper drawer of equipment)		6398	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Upper drawer of equipment)		6398	1	Recommended number of output pages for replacement	80,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Upper drawer of equipment)		6398	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Upper drawer of equipment)		6398	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Upper drawer of equipment)		6399	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Feed roller (Lower drawer of equipment)		6400	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Lower drawer of equipment)		6400	1	Recommended number of output pages for replacement	80,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Lower drawer of equipment)		6400	2	Number of output pages at the last replacement	0	8 digits	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Feed roller (Lower drawer of equipment)		6400	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Lower drawer of equipment)		6401	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Feed roller (Optional LCF)		6402	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Optional LCF)		6402	1	Recommended number of output pages for replacement	160,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Optional LCF)		6402	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Optional LCF)		6402	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Optional LCF)		6403	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Separation roller (Upper drawer of equipment)		6406	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Upper drawer of equipment)		6406	1	Recommended number of output pages for replacement	80,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Upper drawer of equipment)		6406	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Upper drawer of equipment)		6406	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Upper drawer of equipment)		6407	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Separation roller (Lower drawer of equipment)		6408	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Lower drawer of equipment)		6408	1	Recommended number of output pages for replacement	80,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Lower drawer of equipment)		6408	2	Number of output pages at the last replacement	0	8 digits	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Separation roller (Lower drawer of equipment)		6408	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Lower drawer of equipment)		6409	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Separation roller (Optional LCF)		6410	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Optional LCF)		6410	1	Recommended number of output pages for replacement	160,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Optional LCF)		6410	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Optional LCF)		6410	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Optional LCF)		6411	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Separation roller (Upper drawer of PFP)		6412	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Upper drawer of PFP)		6412	1	Recommended number of output pages for replacement	80,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Upper drawer of PFP)		6412	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Upper drawer of PFP)		6412	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Upper drawer of PFP)		6413	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Separation roller (Lower drawer of PFP)		6414	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Lower drawer of PFP)		6414	1	Recommended number of output pages for replacement	80,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Lower drawer of PFP)		6414	2	Number of output pages at the last replacement	0	8 digits	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Separation roller (Lower drawer of PFP)		6414	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Lower drawer of PFP)		6415	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Separation roller (Bypass unit)		6416	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Bypass unit)		6416	1	Recommended number of output pages for replacement	80,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Bypass unit)		6416	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Bypass unit)		6416	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Bypass unit)		6417	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Feed roller (Upper drawer of PFP)		6420	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Upper drawer of PFP)		6420	1	Recommended number of output pages for replacement	80,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Upper drawer of PFP)		6420	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Upper drawer of PFP)		6420	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Upper drawer of PFP)		6421	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Feed roller (Lower drawer of PFP)		6422	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Lower drawer of PFP)		6422	1	Recommended number of output pages for replacement	80,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Lower drawer of PFP)		6422	2	Number of output pages at the last replacement	0	8 digits	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Feed roller (Lower drawer of PFP)		6422	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Lower drawer of PFP)		6423	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Feed roller (Bypass unit)		6424	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Bypass unit)		6424	1	Recommended number of output pages for replacement	80,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Bypass unit)		6424	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Bypass unit)		6424	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Bypass unit)		6425	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Pickup roller (Upper drawer of PFP)		6428	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Upper drawer of PFP)		6428	1	Recommended number of output pages for replacement	80,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Upper drawer of PFP)		6428	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Upper drawer of PFP)		6428	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Upper drawer of PFP)		6429	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Pickup roller (Lower drawer of PFP)		6430	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Lower drawer of PFP)		6430	1	Recommended number of output pages for replacement	80,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Lower drawer of PFP)		6430	2	Number of output pages at the last replacement	0	8 digits	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Pickup roller (Lower drawer of PFP)		6430	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Lower drawer of PFP)		6431	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Recovery blade		6436	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Recovery blade		6436	1	Recommended number of output pages for replacement	Refer to contents	8 digits	M	\<Default value> e-STUDIO206L: 80,000 e-STUDIO256: 100,000 e-STUDIO306: 120,000 e-STUDIO356: 125,000 e-STUDIO456/506: 150,000	4	
08	Setting mode	Counter	PM counter	Recovery blade		6436	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Recovery blade		6436	3	Present driving counts	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Recovery blade		6436	4	Recommended driving counts to be replaced	Refer to contents	8 digits	M	\<Default value> e-STUDIO206L/256/306: 161,000 e-STUDIO356/456/506: 135,000	4	
08	Setting mode	Counter	PM counter	Recovery blade		6436	5	Driving counts at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Recovery blade		6436	6	Present output pages for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Recovery blade		6436	7	Present driving counts for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Recovery blade		6436	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Recovery blade		6437	-	Date of previous replacement	0	8 digits	M		2	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Pixel counter			6500		Standard paper size setting	Refer to contents	0~1	SYS	Selects the standard paper size to convert it into the pixel count (%). 0: A4 1: LT <Default value> NAD: 1 Other: 0	1	
08	Setting mode	Counter	Pixel counter			6501		Pixel counter all clearing	-	-	SYS	Clears all information related to the pixel counter.	3	
08	Setting mode	Counter	Pixel counter			6502		Service technician reference counter clearing	-	-	SYS	Clears all information related to the service technician reference pixel counter.	3	
08	Setting mode	Counter	Pixel counter			6503		Toner cartridge reference counter clearing	-	-	SYS	Clears all information related to the toner cartridge reference pixel counter.	3	
08	Setting mode	Counter	Pixel counter			6504		Pixel counter display setting	1	0~1	SYS	Selects whether or not to display the pixel counter on the LCD screen. 0: Displayed 1: Not displayed	1	
08	Setting mode	Counter	Pixel counter			6505		Displayed reference setting	0	0~1	SYS	Selects the reference when displaying the pixel counter on the LCD screen. 0: Service technician reference 1: Toner cartridge reference	1	
08	Setting mode	Counter	Pixel counter			6506		Counter setting for toner empty	0	0~1	SYS	0: Number of sheets 1: Value of pixel counter	1	
08	Setting mode	Counter	Pixel counter			6507		Number of sheets for toner empty	800	0~999	SYS	Sets the number of sheets for toner empty.	1	
08	Setting mode	Counter	Pixel counter			6508		Pixel counter value for toner empty	35100	0~60000	SYS	Sets the pixel counter value for toner empty.	1	
08	Setting mode	Counter	Pixel counter			6509		Pixel counter clear flag/Service technician reference	0	0~1	SYS	Becomes "1" when 08-6502 is performed.	2	
08	Setting mode	Counter	Pixel counter			6510		Service technician reference cleared date	-	0~99999999	SYS	Displays the date on which 08-6502 was performed.	2	
08	Setting mode	Counter	Pixel counter			6514		Toner cartridge reference cleared date	-	0~99999999	SYS	Displays the date on which 08-6503 was performed.	2	
08	Setting mode	Counter	Pixel counter			6522		Toner cartridge reference count started date	-	0~99999999	SYS	Displays the date on which 08-6503 was performed.	2	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Pixel counter	Number of output pages(Service technician reference)		6558		PPC	0	8 digits	SYS	Counts the number of output pages converted to the standard paper size in the copy function and service technician reference. [Unit. page]	2	
08	Setting mode	Counter	Pixel counter	Number of output pages(Service technician reference)		6560		PRT	0	8 digits	SYS	Counts the number of output pages converted to the standard paper size in the printer function and service technician reference. [Unit. page]	2	
08	Setting mode	Counter	Pixel counter	Number of output pages(Service technician reference)		6561		FAX	0	8 digits	SYS	Counts the number of output pages converted to the standard paper size in the FAX function and service technician reference. [Unit. page]	2	
08	Setting mode	Counter	Pixel counter	Number of output pages(Toner cartridge reference)		6563		PPC	0	8 digits	SYS	Counts the number of output pages converted to the standard paper size in the copy function and toner cartridge reference. [Unit. page]	2	
08	Setting mode	Counter	Pixel counter	Number of output pages(Toner cartridge reference)		6565		PRT	0	8 digits	SYS	Counts the number of output pages converted to the standard paper size in the printer function and toner cartridge reference. [Unit. page]	2	
08	Setting mode	Counter	Pixel counter	Number of output pages(Toner cartridge reference)		6566		FAX	0	8 digits	SYS	Counts the number of output pages converted to the standard paper size in the FAX function and toner cartridge reference. [Unit. page]	2	
08	Setting mode	Counter	Pixel counter			6576		Toner cartridge replacement counter	0	3 digits	SYS	Counts the number of time of the toner cartridge replacement.	2	
08	Setting mode	Counter	Pixel counter	Average pixel count(Service technician reference)		6602		PPC	0	0~10000	SYS	Displays the average pixel count in the copy function and service technician reference. [Unit: 0.01%]	2	
08	Setting mode	Counter	Pixel counter	Average pixel count(Service technician reference)		6603		PRT	0	0~10000	SYS	Displays the average pixel count in the printer function and service technician reference. [Unit: 0.01%]	2	
08	Setting mode	Counter	Pixel counter	Average pixel count(Service technician reference)		6604		FAX	0	0~10000	SYS	Displays the average pixel count in the FAX function and service technician reference. [Unit: 0.01%]	2	
08	Setting mode	Counter	Pixel counter	Average pixel count(Service technician reference)		6605		PPC/PRT/FAX	0	0~10000	SYS	Displays the average pixel count in the copy/printer/FAX function and service technician reference. [Unit: 0.01%]	2	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Pixel counter	Latest pixel count(Service technician reference)		6616		PPC	0	0~10000	SYS	Displays the latest pixel count in the copy function and service technician reference. [Unit: 0.01%]	2	
08	Setting mode	Counter	Pixel counter	Latest pixel count(Service technician reference)		6617		PRT	0	0~10000	SYS	Displays the latest pixel count in the printer function and service technician reference. [Unit: 0.01%]	2	
08	Setting mode	Counter	Pixel counter	Latest pixel count(Service technician reference)		6618		FAX	0	0~10000	SYS	Displays the latest pixel count in the FAX function and service technician reference. [Unit: 0.01%]	2	
08	Setting mode	Counter	Pixel counter	Average pixel count(Toner cartridge reference)		6623		PPC	0	0~10000	SYS	Displays the average pixel count in the copy function and toner cartridge reference. [Unit: 0.01%]	2	
08	Setting mode	Counter	Pixel counter	Average pixel count(Toner cartridge reference)		6629		PRT	0	0~10000	SYS	Displays the average pixel count in the printer function, and toner cartridge reference. [Unit: 0.01%]	2	
08	Setting mode	Counter	Pixel counter	Average pixel count(Toner cartridge reference)		6634		PPC/PRT/FAX	0	0~10000	SYS	Displays the average pixel count in the copy/printer/FAX function and toner cartridge reference. [Unit: 0.01%]	2	
08	Setting mode	Counter	Pixel counter	Average pixel count(Toner cartridge reference)		6635		FAX	0	0~10000	SYS	Displays the average pixel count in the FAX function and toner cartridge reference. [Unit: 0.01%]	2	
08	Setting mode	Counter	Pixel counter	Latest pixel count(Toner cartridge reference)		6644		FAX	0	0~10000	SYS	Displays the latest pixel count in the FAX function and toner cartridge reference. [Unit: 0.01%]	2	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PPC	6721	0	0-5%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the copy function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PPC	6721	1	5.1-10%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the copy function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PPC	6721	2	10.1-15%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the copy function are displayed. [Unit: page]	14	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PPC	6721	3	15.1-20%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the copy function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PPC	6721	4	20.1-25%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the copy function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PPC	6721	5	25.1-30%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the copy function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PPC	6721	6	30.1-40%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the copy function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PPC	6721	7	40.1-60%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the copy function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PPC	6721	8	60.1-80%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the copy function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PPC	6721	9	80.1-100%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the copy function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PRT	6722	0	0-5%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the printer function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PRT	6722	1	5.1-10%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the printer function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PRT	6722	2	10.1-15%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the printer function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PRT	6722	3	15.1-20%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the printer function are displayed. [Unit: page]	14	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PRT	6722	4	20.1-25%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the printer function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PRT	6722	5	25.1-30%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the printer function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PRT	6722	6	30.1-40%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the printer function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PRT	6722	7	40.1-60%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the printer function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PRT	6722	8	60.1-80%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the printer function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PRT	6722	9	80.1-100%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the printer function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	FAX	6723	0	0-5%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the FAX function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	FAX	6723	1	5.1-10%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the FAX function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	FAX	6723	2	10.1-15%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the FAX function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	FAX	6723	3	15.1-20%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the FAX function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	FAX	6723	4	20.1-25%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the FAX function are displayed. [Unit: page]	14	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Pixel counter	Pixel count distribution	FAX	6723	5	25.1-30%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the FAX function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	FAX	6723	6	30.1-40%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the FAX function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	FAX	6723	7	40.1-60%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the FAX function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	FAX	6723	8	60.1-80%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the FAX function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	FAX	6723	9	80.1-100%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the FAX function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Latest pixel count/black(Toner cartridge reference)		6724		PPC	0	0~10000	SYS	Displays the latest pixel count in the copy function and toner cartridge reference. [Unit: 0.01%]	2	
08	Setting mode	Counter	Pixel counter	Latest pixel count/black(Toner cartridge reference)		6725		PRT	0	0~10000	SYS	Displays the latest pixel count in the printer function and toner cartridge reference. [Unit: 0.01%]	2	
08	Setting mode	Counter	Counter for toner-save mode	Print in toner-save mode		6820	0	Small size/black	0	8 digits	SYS	Number of printed sheets in the toner-save mode.	4	
08	Setting mode	Counter	Counter for toner-save mode	Print in non-toner-save mode		6820	1	Small size/black	0	8 digits	SYS	Number of printed sheets in the non-toner-save mode.	4	
08	Setting mode	Counter	Counter for toner-save mode	Print in toner-save mode		6823	0	Large size/black	0	8 digits	SYS	Number of printed sheets in the toner-save mode.	4	
08	Setting mode	Counter	Counter for toner-save mode	Print in non-toner-save mode		6823	1	Large size/black	0	8 digits	SYS	Number of printed sheets in the non-toner-save mode.	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Black job counter			6852	0	PPC	0	8 digits	SYS	Counter for monochrome copy job.	4	
08	Setting mode	Counter	Black job counter			6852	1	PRT	0	8 digits	SYS	Counter for monochrome print job.	4	
08	Setting mode	Counter	Black job counter			6852	2	PPC/PRT	0	8 digits	SYS	Total counter for monochrome copy and print job.	4	
08	Setting mode	Counter	Counter	Toner cartridge usage history (Lot. No.)		6977	0	Latest	0	1 digit or 8digits	M	1 digit: Production location indicated. -0: Cartridge not installed -1: TESS cartridge -2: TABS cartridge -3: TEIS cartridge -6: Cartridge not detected (when the IC chip information cannot be detected) 8 digits: Lot No. indicated	4	Yes
08	Setting mode	Counter	Counter	Toner cartridge usage history (Lot. No.)		6977	1	1 cartridge earlier	0	1 digit or 8digits	M	1 digit: Production location indicated. -0: Cartridge not installed -1: TESS cartridge -2: TABS cartridge -3: TEIS cartridge -6: Cartridge not detected (when the IC chip information cannot be detected) 8 digits: Lot No. indicated	4	Yes
08	Setting mode	Counter	Counter	Toner cartridge usage history (Lot. No.)		6977	2	2 cartridges earlier	0	1 digit or 8digits	M	1 digit: Production location indicated. -0: Cartridge not installed -1: TESS cartridge -2: TABS cartridge -3: TEIS cartridge -6: Cartridge not detected (when the IC chip information cannot be detected) 8 digits: Lot No. indicated	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Counter	Toner cartridge usage history (Lot. No.)		6977	3	3 cartridges earlier	0	1 digit or 8digits	M	1 digit: Production location indicated. -0: Cartridge not installed -1: TESS cartridge -2: TABS cartridge -3: TEIS cartridge -6: Cartridge not detected (when the IC chip information cannot be detected) 8 digits: Lot No. indicated	4	Yes
08	Setting mode	Counter	Counter	Toner cartridge usage history (Lot. No.)		6977	4	4 cartridges earlier	0	1 digit or 8digits	M	1 digit: Production location indicated. -0: Cartridge not installed -1: TESS cartridge -2: TABS cartridge -3: TEIS cartridge -6: Cartridge not detected (when the IC chip information cannot be detected) 8 digits: Lot No. indicated	4	Yes
08	Setting mode	Image Processing	Image	Clearing of adjustment values of all image process (PPC) related 05 codes		7000		PPC	-	-	M/SY Sclea r	Clears the gamma correction table values and the adjustment values of the following 05 codes: 05-7000 to 7299, 7600 to 7999 After executing this code, execute 08-4581.	3	
08	Setting mode	Image Processing	Image	Clearing of all gamma correction table values (PPC related areas only)		7001		PPC	-	-	SYS	Clears all the gamma correction table values in the PPC related areas of the HDD.	3	
08	Setting mode	Image Processing	Image	Error diffusion and dither setting		7014		Photo mode	1	0~1	SYS	Sets the image reproduction method at photo mode. 0: Error diffusion 1: Dither	1	
08	Setting mode	Image Processing	Image	Error diffusion and dither setting		7015		Photo mode (Custom Mode)	1	0~1	SYS	Switches the image processing method when Custom Mode 3 is set. 0: Error diffusion 1: Dither	1	
08	Setting mode	Image Processing	User interface	User mode setting		7034		PPC	0	0~3	SYS	0: Not used 1: Text/Photo is set as a base 2: Text is set as a base 3: Photo is set as a base	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Image Processing	Automatic tone correction data	Last updated date and time		7051		Monochrome PPC	0	0-4212311235 9	SYS	Last updated date and time of automatic tone correction data. YYMMDDHHMM YY: year, MM: month, DD: day, HH: hour, MM: minute	2	Yes
08	Setting mode	Image Processing	Image	Clearing of adjustment values of all image process (network print) related 05 codes		7300		PRT	-	-	SYS/ M	Clears the gamma correction table values and the adjustment values of the following 05 codes: 05-7300 to 7399 05-8200 to 8299 After executing this code, execute 08-4581.	3	
08	Setting mode	Image Processing	Image	Clearing of adjustment values of all image process (network scan) related 05 codes		7400		SCN	-	-	SYS	Clears the adjustment values of the following 05 codes: 05-7400 to 7499 05-8300 to 8499	3	
08	Setting mode	Image Processing	User interface	User mode setting	SCN	7401		Black	0	0~3	SYS	0: Unused 1: Text/Photo base 2: Text base 3: Photo base	1	Yes
08	Setting mode	Image Processing	Image	Clearing of adjustment values of all image process (Fax) related 05 codes		7500		FAX	-	-	SYS/ M	Clears the adjustment values of the following 05 codes: 05-7500 to 7599 After executing this code, execute 08-4581.	3	
08	Setting mode	Image Processing	User interface	User mode setting	SCN	8303		Color	0	0~4	SYS	0: Unused 1: Text/Photo base 2: Text base 3: Photo base 4: e-document base * e-document: This is the mode that corresponds to the law in Japan. This mode is used to clarify area where changes were made with such as a correction fluid.	1	Yes
08	Setting mode	System	General			8504		Feeding method of odd page number in duplex printing(Raw print)	0	0~1	SYS	0: One side 1: Both sides	1	
08	Setting mode	System	General			8506		Forcible mode change in cartridge empty status	1	0~2	SYS	0: SLEEP MODE 1: AUTO POWER SAVE 2: READY	1	
08	Setting mode	System	General	Wide A4 Mode (for PCL)		8511		PRT	0	0~1	SYS	0: Disable 1: Enable	1	
08	Setting mode	System	General			8512		Number of jobs in batch processing	10	2~10	SYS	2-10: From 2 to jobs can be specified	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	General			8514		Threshold value setting for RIP standard paper judgment	20	5~30	SYS	This code is used for changing the range in which the non-standard paper size is judged as standard paper size. If the page size information is within standard paper size ± setting value, the page size is judged as standard paper size when PS/PDF printing. If the page size information is out of the range, the page size is judged as non-standard paper size. The unit of setting value is PS point. 1 PS point is approx. 0.35 mm.	1	Yes
08	Setting mode	System	General	Outside erase judgment threshold (Default)	PPC	8515		PPC	0	-3~3	SYS	The larger the value is, area to be erased increases. The smaller the value is, area to be erased decreases.	1	
08	Setting mode	System	General	Outside erase judgment threshold (Default)	SCN	8516		SCN	0	-3~3	SYS	The larger the value is, area to be erased increases. The smaller the value is, area to be erased decreases.	1	
08	Setting mode	System	General			8517		Remote Scan User authentication automatic login	1	0~1	SYS	0: OFF (A user always enters manually (current method)) 1: ON (Previous authentication information will be used)	1	
08	Setting mode	System	General			8518		Overwriting mode for scanned files	0	0~3	SYS	0: Always OFF 1: Meta Scan function ON / Normal scan function OFF 2: Meta Scan function OFF / Normal scan function ON 3: Always ON	1	
08	Setting mode	System	General			8519		Scan PDF file Paper size	1	0~1	SYS	0: Equivalent to scan image size 1: Fitted into any standard size	1	
08	Setting mode	System	General			8520		Underscore conversion of prohibited character in filename	1	0-1	SYS	Sets the prohibited characters in filename to covert to underscore. 0: \ / > < , " | ? * : ; = [ ] + 1: \ / > < " | ? * : * 0: Existing model standard 1: Windows standard Since setting the value to "1" allows some prohibited characters, filename might not be processed in external application or server.	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	General			8521		Switchover of output format of Service Notification attachment	Refer to contents	0-1	SYS	Switches the output format of date in attachment of Service Notification. 0: YYYY.MM.DD 1: YYYY-MM-DDTHH:MM:SS <Default value> NAD: 1 Others: 0	1	
08	Setting mode	System	User interface	Screen setting		8523		Toner near-empty status Message	Refer to contents	0~1	SYS	0: ON 1: OFF <Default value> JPD/NAD/MJD/AUD/ARD: 1 Others: 0	1	Yes
08	Setting mode	System	General			8524		No paper Message display	0	0~1	SYS	0: ON 1: OFF	1	
08	Setting mode	System	General			8525		No paper in the left tray of tandem LCF message	0	0~1	SYS	0: ON 1: OFF	1	
08	Setting mode	System	General			8532		Control panel Brightness level adjustment	4	1~7	SYS	1-7: Brightness level	1	
08	Setting mode	System	General	Sorting method for displaying private print jobs		8537		PRT	0	0~1	SYS	Changes the sorting order for print jobs on the private print list. 0: Descending order 1: Ascending order	1	
08	Setting mode	System	Maintenance (Remote)			8538		Notification setting for toner nearly empty	0	0~1	SYS	0: Disabled 1: Enabled	1	
08	Setting mode	System	Scanner	Date/time format in the Meta Scan XML file		8540		SCN	1	0~1	SYS	0: YYYY/MM/DDhh:mm:ss.mmm 1: YYYY-MM-DDThh:mm:ss.mmmTZD	1	
08	Setting mode	System	User interface			8543		Transition to the energy saving mode when in the Sleep mode	1	0~1	SYS	0: Disabled 1: Enabled (depending on conditions)	1	Yes
08	Setting mode	System	User interface			8544		Tolerance for switching to Super Sleep mode	5	5~600	SYS	The interval between recovering from the Super Sleep mode and making the transition to the Super Sleep mode again. Unit: seconds.	1	Yes
08	Setting mode	System	User interface			8546		Input setting of minus value for image shift when copying	0	0~1	SYS	0: Inputting minus value is disabled. 1: Inputting minus value is enabled.	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Paper feeding	Change of the paper size setting on the touch panel when printing is interrupted by size mismatch		8548		PRT	0	0~1	SYS	0: Change of the paper size setting on the touch panel is disabled. 1: Change of the paper size setting on the touch panel is enabled.	1	
08	Setting mode	System	Counter			8549		Hardware key control when external counter is installed	0	0~1	SYS	0: No control 1: Mode switch key is disabled.	1	
08	Setting mode	System	Maintenan ce			8584		Selects whether or not to transmit the Subject.	1	0~1	SYS	0: Disabled 1: Enabled	1	
08	Setting mode	System	Maintenan ce			8585		Selects the edit setting of the Subject.	1	0~1	SYS	0: Disabled 1: Enabled	1	
08	Setting mode	System	Maintenan ce			8586		Selects whether or not to add the date and time to the Subject.	1	0~1	SYS	0: Not added 1: Added	1	
08	Setting mode	System	Maintenan ce			8587		Selects the setting of the Subject, by using the fixed string or inputting the specified one.	0	0~1	SYS	0: Fixed string (Default) 1: Specified string	1	
08	Setting mode	System	LDAP user authenticat ion	Attribute value setting		8592		Sender address	mail	-	SYS	Sets the default attribute value of sender address. Maximum 32 characters (ASCII).	11	
08	Setting mode	System	LDAP user authenticat ion	Attribute value setting		8593		Sender name	uid	-	SYS	Sets the default attribute value of sender name. Maximum 32 characters (ASCII).	11	
08	Setting mode	System	Maintenan ce			8597		Updates the Private/Hold Print job list automatically	0	0~1	SYS	0: Disabled 1: Enabled	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Maintenan ce			8598		Selects the template icon layout on the touch panel	0	0~1	SYS	0: Pattern 1 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) 1: Pattern 2 (1) (2) (9) (10) (3) (4) (11) (12) (5) (6) (13) (14) (7) (8) (15) (16)	1	
08	Setting mode	System	General	Outside erase		8600		Change of default value	0	0~1	SYS	0: Disabled 1: Enabled	1	Yes
08	Setting mode	System	Maintenan ce			8603		Special usage of external options I/F	0	0~2	SYS	0: None (Default) 1: Usage 1 2: Usage 2	1	
08	Setting mode	System	Network	Prioritized authentication server		8608		Windows	0	0-100	SYS	Sets the prioritized authentication server to be searched (0 to 100). The servers displayed on the screen accessed by TopAccess -> Administration -> Maintenance -> Directory Service are numbered beginning at the top (0 to 100).	1	
08	Setting mode	System	Network	Prioritized authentication server		8609		LDAP	0	0-100	SYS	Sets the prioritized authentication server to be searched (0 to 100). The servers displayed on the screen accessed by TopAccess -> Administration -> Maintenance -> Directory Service are numbered beginning at the top (0 to 100).	1	
08	Setting mode	System	Network	Prioritized authentication server		8610		Card	0	0-100	SYS	Sets the prioritized authentication server to be searched (0 to 100). The servers displayed on the screen accessed by TopAccess -> Administration -> Maintenance -> Directory Service are numbered beginning at the top (0 to 100).	1	
08	Setting mode	System	User interface			8622		Date and time addition setting to file name of scan to file/e-mail	1	0-1	SYS	0: Not added 1: Added	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting Mode	System	General			8623	0	RIP function setting	1	0-1	SYS	Enables/Disables the function related to Excel boarder rendering of PCL6. The function is to prevent missing lines when scaling down and inconsistent line width when scaling up. 0: Disabled (No correction. Compliant with PCL6 language) 1: Enabled	4	
08	Setting mode	System	User interface			8624		Switchover of display method of filename	3	0-3	SYS	Switches the display method of filename. 0: Displays the filename from the beginning 1: Displays the trailing characters 2: Displays the beginning and trailing characters 3: Displays the filename without abbreviation	1	
08	Setting mode	System	User interface			8628		Job operation on the COPY screen when the coin controller is connected	0	0-1	SYS	This setting enables user to move from the COPY screen to JOB STATUS screen, and then operate jobs during printing when the coin controller is connected. This code is valid when the value of 08-9016 is "1". 0: Disabled 1: Enabled	1	
08	Setting Mode	System	FAX			8631		Filename creation at fax reception and forwarding	0	0-1	SYS	0: Use address name (family-name/first-name) as filename if multiple names are found by address book search of TSI (sender information). 1: Use address name (family-name/first-name) as filename only when single name is found by address book search of TSI (sender information).	1	
08	Setting mode	System	User interface			8640		Job build operation when the coin controller is connected	0	0-1	SYS	This setting enables user to use the job build function when the coin controller is connected. This code is valid when the value of 08-9016 is "1". 0: Disabled 1: Enabled	1	
08	Setting Mode	System	General			8641		Notification setting for job cancel	1	0-1	SYS	Sets the notification setting for job cancel. This setting is effective for the following error codes: 1CC0, 2BB0, 2CC0, 2DC0, 2EC0 0: Disabled (Not notified) 1: Enabled (Notified)	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8642		LDAP attribute name settings 2	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8643		LDAP attribute name settings 3	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8644		LDAP attribute name settings 4	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8645		LDAP attribute name settings 5	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8646		LDAP attribute name settings 6	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8647		LDAP attribute name settings 7	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8648		LDAP attribute name settings 8	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8649		LDAP attribute name settings 9	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8650		LDAP attribute name settings 10	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8651		LDAP attribute name settings 11	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8652		LDAP attribute name settings 12	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8653		LDAP attribute name settings 13	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8654		LDAP attribute name settings 14	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8655		LDAP attribute name settings 15	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8656		LDAP attribute name settings 16	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Sound		8657		Placing original	0	0-1	SYS	0: OFF 1: ON	1	
08	Setting Mode	System	User interface	Sound		8658		Pressing [INTERRUPT] button	0	0-1	SYS	0: OFF 1: ON	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting Mode	System	User interface	Sound		8659		Switchover of function	0	0-1	SYS	0: OFF 1: ON	1	
08	Setting Mode	System	User interface	Sound		8660		Completion of job (except for FAX)	0	0-1	SYS	0: OFF 1: ON	1	
08	Setting Mode	System	User interface	Sound		8661		End of warming-up/prewarming/sleep	0	0-1	SYS	0: OFF 1: ON	1	
08	Setting Mode	System	User interface	Sound		8662		Job interrupt (out of paper)	0	0-1	SYS	0: OFF 1: ON	1	
08	Setting Mode	System	User interface	Sound		8663		Fax transmission error	0	0-1	SYS	0: OFF 1: ON	1	
08	Setting Mode	System	User interface	Sound	Hours for mute	8664	0	Enable/Disable setting of mute	0	0-1	SYS	0: Mute is disabled 1: Mute is enabled	4	
08	Setting Mode	System	User interface	Sound	Hours for mute	8664	1	Starting time	0	0-2359	SYS	(Hour/Hour/Minute/Minute)	4	
08	Setting Mode	System	User interface	Sound	Hours for mute	8664	2	Ending time	0	0-2359	SYS	(Hour/Hour/Minute/Minute)	4	
08	Setting Mode	System	General			8667		Saving image log	0	0-1	SSDK	0: Disabled 1: Enabled	1	
08	Setting Mode	System	General			8668		Number of pages saved as image log	1	0-1	SSDK	0: First page 1: All pages	1	
08	Setting Mode	System	Network	Number of retry for file transfer		8671	0	FTP	3	0-10	SYS	The transmission may succeed when the number of retry increases. However, it takes longer time to complete the job.	4	
08	Setting Mode	System	Network	Number of retry for file transfer		8671	1	SMB	3	0-10	SYS	The transmission may succeed when the number of retry increases. However, it takes longer time to complete the job.	4	
08	Setting Mode	System	Network	Number of retry for file transfer		8671	2	NetWare	3	0-10	SYS	The transmission may succeed when the number of retry increases. However, it takes longer time to complete the job.	4	
08	Setting Mode	System	Network	Retry interval for file transfer		8672	0	FTP	180	0-999	SYS	The transmission may succeed when the retry interval becomes longer. However, it takes longer time to complete the job. (Unit: sec.)	4	
08	Setting Mode	System	Network	Retry interval for file transfer		8672	1	SMB	180	0-999	SYS	The transmission may succeed when the retry interval becomes longer. However, it takes longer time to complete the job. (Unit: sec.)	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting Mode	System	Network	Retry interval for file transfer		8672	2	NetWare	180	0-999	SYS	The transmission may succeed when the retry interval becomes longer. However, it takes longer time to complete the job. (Unit: sec.)	4	
08	Setting Mode	System	General			8673		Disclosure of image log function	0	0-1	SSDK	0: Not opened to public 1: Opened to public	1	
08	Setting Mode	System	General			8674		Prohibition of transition to sleep mode during network initialization	0	0-1	SYS	0: Allowed 1: Prohibited	1	
08	Setting mode	System	FAX			8700		Secret reception setting	0	0-2	SYS	When the value of 08-8924 is "0", the value of this code can be set to "1" or "2". 0: Always Off 1: Always On 2. Scheduled reception	1	
08	Setting mode	System	User interface			8704		Restriction of Email/FAX address	0	0~1	SYS	This code is used to restrict Email/FAX Address to LDAP server specified via TopAccess. When the value of this code is set to "1", the address cannot be input directly and registered from the local address book. 0: No restriction 1: Looking up in external LDAP only	1	
08	Setting mode	System	User interface			8709		Service notification (equipment information)	Refer to contents	0-1	SYS	Sets whether the [SERVICE NOTIFICATION] (Equipment Information) button accessed by [USER FUNCTIONS] -> [ADMIN] -> [SERVICE] is displayed or not. 0: Disabled 1: Enabled <Default value> JPC/NAD/MJD: 1 Others: 0	1	Yes
08	Setting mode	System	Scanning			8710		Setting of character code for Scan to FTP	0	0-2	SYS	0: Automatic selection 1: UTF8 2: Shift-JIS	1	
08	Setting mode	System	User interface			8712		Display setting of the drawer setting button	1	0-1	SYS	Sets whether the drawer button in USER FUNCTIONS is displayed or not. 0: Not displayed 1: Displayed	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface			8713		Setting of web upload/web printing	0	0-1	SYS	Sets whether the web upload and web printing function is enabled or disabled. - Web upload is a function which uploads the image data created on the equipment to the web page displayed on EWB. - Web printing is a function which prints the web page displayed on EWB or the PDF file included in the web page displayed on EWB. 0: Disabled 1: Enabled	1	
08	Setting mode	System	User interface	Service notification information		8715		Password for zip file with password	#1048109	-	SYS	Password for zip file with password of service notification information. Minimum number of digits: 0, maximum number of digits: 20 Available character: alphanumeric characters and symbols	11	
08	Setting mode	System	User interface			8717		Shutdown operation when Super Sleep is enabled	0	0-1	SYS	Sets the operation when the power button on the control panel is press for a few seconds if Super Sleep is enabled. 0: Hibernation 1: Super Sleep	1	Yes
08	Setting mode	System	User interface			8718		Selection for caching the screen of control panel at start-up	0	0-17	SYS	Use this code to shorten the time to switch the function on the control panel for the first time immediately after start-up. However, the start-up time becomes longer (about 1 to 3 seconds per screen). When selecting multiple screens, enter the total value. 0: Disabled 1: Copy 16: Fax	1	
08	Setting mode	System	Network			8719		MTU setting of network communication	1500	576-1500	NIC	Normally there's no need to change the MTU value. Set the proper MTU value when MFP is connected to the Internet using broadband router and so on.	12	
08	Setting mode	System	User interface			8720		Department code display with asterisk	0	0-1	SYS	0: Displays department code with asterisk when inputting it. 1: Displays department code as it is when inputting it.	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	FAX			8721		Automatic FAX sending at AutoClear when scanning original put on the glass	0	0-1	SYS	Sets whether the job is sent or canceled when AutoClear is executed on the interruption screen to confirm the next original displayed after scanning the original put on the glass. Use this code to cancel job when the equipment is left unattended while the interruption screen is displayed. 0: Sends job 1: Cancels job	1	Yes
08	Setting mode	System	User interface			8722		Display method of "Cannot find the Home Directory" on the control panel	0	0-1	SYS	Sets the display method of error if the Home Directory for user cannot be obtained from the server when setting the Home Directory for scanning. Use this code to disable the pop-up display when the Home Directory cannot be obtained depending on the user. 0: Displays the pop-up dialogue when user logs in 1: Displays the message in the guidance area when the Scan to File screen is displayed	1	Yes
08	Setting mode	System	User interface			8723		Pop-up display of logging out of user authentication and department management on the control panel	1	0-1	SYS	Sets whether the pop-up dialog of confirmation for logging out is displayed when user or department logs out by pressing [FUNCTION CLEAR] button twice or pressing [ACCESS] button. 0: Logs out without displaying pop-up dialog 1: Displays pop-up dialog when logging out	1	Yes
08	Setting mode	System	User interface			8724		Display setting of Edit From Address button for Scan to email	1	0-1	SYS	0: Not displayed (From Address cannot be edited) 1: Displayed (From Address can be edited)	1	Yes
08	Setting mode	System	User interface			8725		Display setting of [USER FUNCTIONS]-> CHANGE LANGUAGE button	1	0-1	SYS	Sets whether the [CHANGE LANGUAGE] button accessed from [USER FUNCTIONS] button is displayed or not. Use this code to prohibit users from changing the language displayed on the control panel. Administrators can change the language. 0: Not displayed 1: Displayed	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	General			8726		Job deletion on the Job Status screen	0	0-1	SYS	Use this code to enable the job deletion on the [Job Status] screen. When "3: High level" is set for code 08-8911, be sure to disable this setting. 0: Disabled 1: Enabled	1	Yes
08	Setting Mode	System	User interface	Card reading device		8727		Display of dedicated screen for card authentication	0	0-1	SYS	Switches whether the message to hold a card over the card reader is displayed on the login screen when the card authentication is enabled. 0: Disabled 1: Enabled	1	
08	Setting Mode	System	Forced printing of user name			8728	0	Display/Non-display setting in TopAccess	0	0-1	SYS	0: Disabled 1: Enabled	4	
08	Setting Mode	System	Forced printing of user name			8728	1	Enable/Disable setting of forced printing	0	0-1	SYS	Normally this setting is made in TopAccess. 0: Disabled 1: Enabled	4	
08	Setting Mode	System	Forced printing of user name			8728	2	Prioritizing printer driver setting	1	0-1	SYS	Normally this setting is made in TopAccess. 0: Disabled 1: Enabled	4	
08	Setting Mode	System	Forced printing of user name			8728	3	Application to network fax job	0	0-1	SYS	Normally this setting is made in TopAccess. 0: Disabled 1: Enabled	4	
08	Setting Mode	System	Forced printing of user name			8728	4	Enable/Disable setting of prefix/suffix	0	0-1	SYS	Normally this setting is made in TopAccess. 0: Disabled 1: Enabled	4	
08	Setting Mode	System	Forced printing of user name			8728	6	White background setting	1	0-1	SYS	Normally this setting is made in TopAccess. 0: Disabled 1: Enabled	4	
08	Setting Mode	System	Forced printing of user name			8728	7	Print position	0	0-3	SYS	Normally this setting is made in TopAccess. 0: Bottom left 1: Top left 2: Bottom right 3: Top right	4	
08	Setting Mode	System	Forced printing of user name			8728	8	Fine adjustment of print position (X)	3	0-100	SYS	Adjusts the print position in X direction. The print position shifts toward inside of original when the value increases. Unit: pt. 1pt = 0.35mm.	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting Mode	System	Forced printing of user name			8728	9	Fine adjustment of print position (Y)	3	0-100	SYS	Adjusts the print position in Y direction. The print position shifts toward inside of original when the value increases. Unit: pt. 1pt = 0.35mm.	4	
08	Setting Mode	System	Forced printing of user name			8728	10	Font setting	0	0-9	SYS	Normally this setting is made in TopAccess. 0: Helvetica 1: AlbertusMT 2: Chicago 3: Eurostile 4: Geneva 5: GillSans 6: LetterGothic 7: Monaco 8: Taffy 9: TimesNewRomanPSMT	4	
08	Setting Mode	System	Forced printing of user name			8728	11	Font size setting	8	6-16	SYS	Normally this setting is made in TopAccess. 6-16pt.	4	
08	Setting Mode	System	Forced printing of user name			8728	12	Font color setting	0	0-1	SYS	Normally this setting is made in TopAccess. 0: Black 1: Gray	4	
08	Setting Mode	System	Forced printing of user name			8728	13	Density setting of light font color	40	10-90	SYS	Sets the density when the font color is set to gray.	4	
08	Setting Mode	System	Forced printing of user name			8729		Prefix setting	Printed by	-	SYS	Normally this setting is made in TopAccess. Maximum 64 characters.	11	
08	Setting Mode	System	Forced printing of user name			8730		Suffix setting	-	-	SYS	Normally this setting is made in TopAccess. Maximum 64 characters.	11	
08	Setting Mode	System	Scanning			8735		Sending setting of ScanToURL	0	0-1	SYS	0: Disabled 1: Enabled	1	
08	Setting Mode	System	Scanning			8736		Maximum size for ScanToURL attachment	5	0-100	SYS	Sets the maximum size of attachment that can be sent with ScanToURL. 0: Always sends URL 1-100: Maximum size (MB)	1	
08	Setting Mode	System	User interface	Screen setting		8738		E-mail address direct input button	1	0-1	SYS	Switches the display setting of the [INPUT @] button. 0: Not displayed 1: Displayed	1	
08	Setting mode	System	User interface	Screen setting		8744		Switchover of pop-up display during scanning	1	0-1	SYS	Switches the pop-up display during scanning 0: Not displayed 1: Displayed	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface			8745		Enable/Disable setting of EWB history	0	0-1	SYS	Sets whether part of the cookie, password, and form data of user who logs in to EWB is saved or not. 0: Disabled 1: Enabled	1	
08	Setting mode	System	User interface			8746		Port number setting of destination 10 for sending trap	162	1-65535	NIC	Sets the port number of destination 10 for sending SNMP trap. If the port is used when using the real time log notification function, change the port number.	12	
08	Setting Mode	System	User interface			8748		Input of department code at user authentication	0	0-1	SYS	0: Not required 1: Required	1	
08	Setting Mode	System	Network			8749		User authentication by logon information to domain (external authentication)	0	0-1	SYS	0: Disabled 1: Enabled	1	
08	Setting Mode	System	User interface			8754		Error sheet output at reception of non-supported PDL	1	0-1	SYS	0: Error sheet is not output 1: Error sheet is output	1	
08	Setting Mode	System	Maintenan ce	Notification of remaining amount of toner		8755		Enable/Disable setting	0	0-1	SYS	0: Disabled 1: Enabled	1	
08	Setting Mode	System	Maintenan ce	Notification of remaining amount of toner		8756	0	Remaining amount at first notification	25	0-100	SYS	0 to 100%	4	
08	Setting Mode	System	Maintenan ce	Notification of remaining amount of toner		8756	1	Notification interval	10	1-25	SYS	1 to 25%	4	
08	Setting Mode	System	User interface	Card reading device		8758		Overwriting of login at authentication	0	0-1	SYS	Switches the enable/disable setting for the function to overwrite the login information at the card authentication. 0: Disabled 1: Enabled	1	
08	Setting Mode	System	General			8761		Retention of print (spooling) data	0	0-1	SYS	Use this code to retain and obtain the print data (spooling data) if problem occurs. After obtaining the data, be sure to disable the setting. 0: Disabled (print data is deleted) 1: Enabled (print data is retained)	1	
08	Setting Mode	System	Maintenan ce	Display of remaining amount of toner (for RDMS/MMDT)		8762	0	K	0	0-100	SYS	0 to 100%	14	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			8771		Account setting for access to Home Directory	0	0-1	SYS	0: Setting of Remote1 is used 1: Setting of Remote1 and Remote2 is used	1	
08	Setting mode	System	Network			8774		Password authentication for print job	0	0-1	SYS	Sets whether the user authentication for network printing/FAX/InternetFAX using the user information and password input on the printer driver is enabled or disabled. When this setting is enabled, the setting of 08-8749 is automatically disabled. 0: Disabled 1: Enabled	1	
08	Setting mode	System	Network	PIN code		8775		PIN code authentication setting at user authentication	0	0-2	SYS	0: Disabled 1: PIN code 2: Card+PIN code	1	
08	Setting mode	System	Network	PIN code		8776		Logging setting of PIN code	0	0-1	SYS	0: Disabled 1: Enabled	1	
08	Setting mode	System	Network	PIN code		8777		Attribute value setting of LDAP PIN authentication server 1	eBMUse rPIN	-	SYS	Attribute name of PIN code	11	
08	Setting mode	System	Network	PIN code		8778		Attribute value setting of LDAP PIN authentication server 2	eBMUse rPIN	-	SYS	Attribute name of PIN code	11	
08	Setting mode	System	Network	PIN code		8779		Attribute value setting of LDAP PIN authentication server 3	eBMUse rPIN	-	SYS	Attribute name of PIN code	11	
08	Setting mode	System	Network	PIN code		8780		Prioritized authentication server	1	1-3	SYS	Sets the prioritized authentication server to be searched.	1	
08	Setting mode	System	User interface	Display setting		8781		Default setting of print screen when USB is inserted	0	0-1	SYS	0: Disabled (The setting of 08-9236 is used) 1: USB print screen	1	
08	Setting mode	System	General	Interval setting	Transition to Super Sleep	8782		For fax	15	15-600	SYS	Sets the interval to shift to Super Sleep again after recovery from Super Sleep. (Unit: seconds)	1	
08	Setting mode	System	General			8783		Switchover of document sorting order of e-Filing Box	1	0-1	SYS	0: Sorted by saved date 1: Sorted by document name	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface			8785		Display/Non-display of pop-up for card authentication	Refer to contents	0-1	SYS	Sets whether the pop-up is displayed or not after the success of card authentication. This code is effective when the value of 08-8727 is "1" (Enabled). 0: Does not display pop-up 1: Displays pop-up <Default value> JPD: 0 Others: 1	1	
08	Setting mode	System	User interface	Default keyboard setting		8786	0	Japanese	3	0-4	SYS	Sets the default keyboard for inputting user name. 0: Romaji 1: Hiragana 2: Katakana (one-byte) 3: Alphabetical character (one-byte) 4: Symbol (one-byte)	4	
08	Setting mode	System	User interface	Default keyboard setting		8786	1	Chinese	0	0-2	SYS	Sets the default keyboard for inputting user name. 0: Alphabetical character (one-byte) 1: Pinyin 2: Symbol (one-byte)	4	
08	Setting Mode	System	Network			8788		Detection interval when authentication server is down	60	1-1440	SSDK	Sets the interval to access the authentication server again after the detection of server down. 1-1440 (min.)	1	
08	Setting mode	System	User interface			8789		Display/Non-display of pop-up for automatic output of jobs	0	0-1	SYS	Sets whether the pop-up is displayed or not when jobs are automatically released after user authentication. This code is effective when the value of 08-8915 is "1" (Enabled). 0: Pop-up is not displayed 1: Pop-up is displayed	1	
08	Setting Mode	System	Network			8790		Switchover of server when authentication server is down	0	0-1	SSDK	Enables/disables the function that switches the access to another authentication server when it is detected that the authentication server is down. 0: Disabled 1: Enabled	1	
08	Setting Mode	System	Network			8791		Transition to sleep mode after printing	1	0-1	SYS	This code sets whether the equipment shifts to the sleep mode again immediately after completion of printing when the equipment recovers from the super-sleep mode for network printing. 0: Disabled 1: Enabled	1	
08	Setting Mode	System	Network			8792		Format of host name used for Scan To URL	0	0-2	SYS	0: IP address 1: Host name (FQDN) 2: NetBIOS name	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			8800		Enabling / Disabling of 802.1X	2	1~2	NIC	1: Enabled 2: Disabled	12	
08	Setting mode	System	Network			8802		Enabling / Disabling of IPsec	2	1~2	NIC	1: Enabled2: Disabled	12	
08	Setting mode	System	Network			8803		Enabling / Disabling of SNMPv3	2	1~2	NIC	1: Enabled2: Disabled	12	
08	Setting mode	System	Network			8804		Enabling / Disabling of IP filtering	2	1~2	SYS	1: Enabled2: Disabled	1	
08	Setting mode	System	Network			8805		Enabling / Disabling of MAC address filtering	2	1~2	SYS	1: Enabled2: Disabled	1	
08	Setting mode	System	Network			8820		IPsec NAT-Traversal setting	1	1~3	NIC	1: Default (IKEv1: Disabled, IKEv2: Enabled) 2: Enable IKEv1 & IKEv2 3: Disable IKEv1 & IKEv2	12	
08	Setting mode	System	Network			8821		IPsec CRL setting	2	1~2	NIC	1: Enable CRL 2: Disable CRL	12	
08	Setting mode	System	Network			8824		FTP client mode	0	0-2	NIC	Sets the FTP transfer mode when FTP is selected for "FILE" to save the scanned data. 0: Automatic 1: Passive mode 2: Active mode	12	
08	Setting mode	System	Network			8825		Sending of host announcement in Super Sleep mode	1	1-2	NIC	Since MFP is deleted from the master browser of Windows network if MFP is in the Super Sleep mode for 36 minutes or more, enable this setting to always display MFP in the browse list. 1: Enabled 2: Disabled	12	
08	Setting mode	System	Network	Dynamic update of DNS server		8826		Enable/Disable setting	1	1-2	NIC	Sets whether the function that gets the secondary DNS server to work as the primary DNS server temporarily is enabled or not when the primary DNS server is not available. 1: Enabled 2: Disabled	12	
08	Setting mode	System	Network	Dynamic update of DNS server		8827		Operating interval	60	1-1440	NIC	Sets the operating interval of dynamic update. 1-1440 (min.)	12	
08	Setting mode	System	Network			8831		Time-out period for EWB network connection	60	1-300	SYS	1 to 300 (sec.)	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	General	Registration number for workflow		8900	0	Total	2000	1000-2000	SYS	Changes the maximum number for workflow that is registrable.	4	
08	Setting mode	System	General	Registration number for workflow		8900	1	Number of interrupt copy	1	1	SYS	Changes the maximum number for workflow that is registrable.	4	
08	Setting mode	System	General	Registration number for workflow		8900	2	Number of transmission and calling of Fax/InternetFax	100	10-100	SYS	Changes the maximum number for workflow that is registrable.	4	
08	Setting mode	System	General	Registration number for workflow		8900	3	Number of printing	1000	150-1000	SYS	Changes the maximum number for workflow that is registrable.	4	
08	Setting mode	System				8904		Job jump instruction setting	0	0-1	SYS	Sets whether waiting job is executed or not if print job in process is interrupted. 0: Disabled 1: Enabled	1	
08	Setting mode	System				8905		Forcible printing against unacceptable paper error	0	0-1	SYS	0: OFF (printing not continued) 1: ON (printing continued by automatically selecting the available exit tray)	1	
08	Setting mode	System	Continuous print setting when punching dust box is full			8906		Copy	0	0-1	SYS	0: OFF (copying not continued) 1: ON (copying continued by canceling punching setting)	1	
08	Setting mode	System	Continuous print setting when punching dust box is full			8907		Printer/e-Filing	1	0-1	SYS	0: OFF (copying not continued) 1: ON (copying continued by canceling punching setting)	1	
08	Setting mode	System	General			8910		Time to auto-clearing when in the self-diagnostic mode	0	0-5	SYS	0: None 1: 1 min. 2: 5 min. 3: 10 min. 4: 30 min. 5: 99 min.	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	General			8911		Security mode (level) setting	1	1-4	SYS	Level setting for security function 1: Low level 2: - 3: High level 4: -	1	
08	Setting mode	System	Maintenan ce	General		8912		Serial number display of finisher	-	-	-	FIN S/N: XXXXXXXXX	2	
08	Setting mode	System	Maintenan ce	General		8913		Warning display for password expiration	15	0-30	SYS	0: None 1-30: Remaining days until the password expiration for warning start.	1	
08	Setting mode	System	MFP function setting			8914	0	Copy	1	0-1	SYS	Sets whether the Copier function is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	1	e-Filing	1	0-1	SYS	Sets whether the filing function is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	2	Fax	1	0-1	SYS	Sets whether the Fax function is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	3	InternetFAX	1	0-1	SYS	Sets whether the InternetFAX function is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	4	Email	1	0-1	SYS	Sets whether the email function is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	5	Save as Local HDD	1	0-1	SYS	Sets whether the function that saves data to HDD in the equipment is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	6	Save as Local HDD from Print	1	0-1	SYS	Sets whether the function that saves data to HDD in the equipment using print function is enabled or disabled. 0: Disabled 1: Enabled	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	MFP function setting			8914	7	Save as Local HDD from Fax	1	0-1	SYS	Sets whether the function that saves data to HDD in the equipment using Fax function is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	8	Save to USB Media	1	0-1	SYS	Sets whether the function that saves scanned data of originals to USB media is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	9	Save as FTP	1	0-1	SYS	Sets whether the function that saves scanned data of originals to FTP server is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	10	Save as FTPS	1	0-1	SYS	Sets whether the function that saves scanned data of originals to FTP server using SSL is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	11	Save as SMB	1	0-1	SYS	Sets whether the function that saves scanned data of originals to the SMB server is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	12	Save as Netware	1	0-1	SYS	Sets whether the function that saves scanned data of originals to the Netware server is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	13	Web Service Scanning (WS Scan)	1	0-1	SYS	Sets whether the WS scanning function is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	14	Twain Scanning (Remote Scan)	1	0-1	SYS	Sets whether the remote scanning function is enabled or disabled. 0: Disabled 1: Enabled	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	MFP function setting			8914	15	Send to External Controller	1	0-1	SYS	Sets whether the function that saves data to the external server is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	16	Network Fax	1	0-1	SYS	Sets whether the Network Fax function is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	17	Network InternetFAX	1	0-1	SYS	Sets whether the Network InternetFAX function is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	Network			8915		Automatic output of jobs at login	0	0-1	SYS	Sets whether jobs registered in the hold queue of user are automatically output or not when the user logs in. 0: Disabled 1: Enabled	1	
08	Setting mode	System	General			8919		Service password	-	-	SYS	Sets the password to log into the self-diagnostic mode and Service UI.	11	
08	Setting mode	System	Option	FAX		8920		Output tray for FAX/InternetFAX/e-mail printing	0	0-2	SYS	Sets the output tray of the equipment or options. <When no options are installed (equipment only)> 0: Inner tray 1: Inner tray 2: Inner tray <MJ-1032 is installed> 0: Stationary tray 1: Movable tray 2: Movable tray <MJ-1033 is installed> 0: Inner tray 1: Movable tray 2: Movable tray <MJ-1101 or MJ-1106 is installed> 0: Inner tray 1: Stationary tray 2: Movable tray <When MJ-5004 or MJ-5006 is installed> 0: Upper tray 1: Lower tray 2: Upper tray <When MJ-5005 is installed> 0: OCT tray 1: OCT tray 2: OCT tray	1	
08	Setting mode	System	Departme nt managem ent			8921		Clearing of the user/department counter	1	0-1	SYS	0: Not allowed 1: Allowed	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface			8922		Email header print setting	0	0-1	SYS	Sets whether the header of an Email or an Internet Fax is printed or not as they are received. 0: Not printed 1: Printed	1	
08	Setting mode	System	User interface			8923		Email body print setting	1	0-1	SYS	Sets whether the body of an Email or an Internet Fax is printed or not as they are received. 0: Not printed 1: Printed	1	
08	Setting mode	System	User interface			8924		Registration of the received Fax / Internet Fax / Email jobs to hold queue	0	0-1	SYS	Registers the received Fax / Internet Fax / Email jobs to the hold queue instead of printing immediately. Data in the hold queue are not printed unless the user allows printing by means of the control panel. 0: Not registered (normal printing) 1: Register	1	
08	Setting mode	System	General			8925		Data tampering checking at startup	0	0-1	SYS	Sets whether data tampering is checked or not at startup. 0: Not checked 1: Checked	1	
08	Setting mode	System	Department management			8926		Clearing of all department counters	-	-	SYS	In cases when the administrator has prohibited the clearing of department counter data using code 08-8921, a service technician can clear the data using this code.	3	
08	Setting mode	System	Department management			8927		Clearing of all user counter	-	-	SYS	In cases when the administrator has prohibited the clearing of user counter data using code 08-8921, a service technician can clear the data using this code.	3	
08	Setting mode	System	Finisher	Upper limit number of sheets of center fold		8928	0	Plain / Recycled paper	0	-25-25	SYS	-25 to 25	4	
08	Setting mode	System	Finisher	Upper limit number of sheets of center fold		8928	1	Thick paper 1	0	-25-25	SYS	-25 to 25	4	
08	Setting mode	System	Finisher	Upper limit number of sheets of center fold		8928	2	Thick paper 2	0	-25-25	SYS	-25 to 25	4	
08	Setting mode	System	Finisher	Upper limit number of sheets of center fold		8928	3	Thick paper 3	0	-25-25	SYS	-25 to 25	4	
08	Setting mode	System	Password			8929		Administrator password reset	-	-	SYS	The default password is set. When "3: High level" is set for code 08-8911, the default password is set as a temporary password.	3	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface	Off Device Customization Architecture		8931		Output Management Service setting	1	0-1	SYS	0: Disabled 1: Enabled	1	
08	Setting mode	System	User interface			8932		Availability of Netware	2	1-2	NIC	1: Enabled 2: Disabled	12	
08	Setting mode	System	User interface			8933		SSL setting (SSL SMTP Client Off/on)	2	1-3	NIC	1: Enabled (accepts all server certificates) 2: Disabled 3: Enabled (uses the imported CA certificate)	12	
08	Setting mode	System	User interface			8934		SSL setting (SMTP Client SSL/TLS)	1	1-2	NIC	1:STARTTLS 2:Over SSL	12	
08	Setting mode	System	User interface			8935		Remote Scanning	1	0-1	NIC	0: Disabled 1: Enabled	12	
08	Setting mode	System	User interface			8936		Remote Scanning with SSL	0	0-1	NIC	0: Disabled 1: Enabled	12	
08	Setting mode	System	User interface			8937		Remote Scanning port number	20080	0-65535	NIC		12	
08	Setting mode	System	User interface			8938		Remote Scanning SSL port number	20443	0-65535	NIC		12	
08	Setting mode	System				8942		Debug level setting	2	0, 2	-	Sets the output volume of debug log. When the value is set to "0", the performance may decrease. 0: Debug log level - high 2: Debug log level - normal	1	
08	Setting mode	System	Maintenan ce	Remote service		8946	0	Acquisition starting time for RDMS	0	0-99999999	SYS	Month/day/hour/minute of starting time	14	
08	Setting mode	System	Maintenan ce	Remote service		8946	1	Acquisition ending time for RDMS	0	0-99999999	SYS	Month/day/hour/minute of ending time	14	
08	Setting mode	System	User interface	Card reader		8947		Automatic user registration for card authentication	0	0-1	SSDK	0: Disabled 1: Enabled	1	
08	Setting mode	System	User interface	General		8948		Language package information	-	-	-	Displays the information of the installed language package.	2	Yes
08	Setting mode	System				8952		External version of HDD data	-	-	-	External version of file system for system software.	2	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Printer	Feeding system / Paper transport			8967		Rotation printing by guides width of bypass feed tray	1	0-1	SYS	If the printing size and the guides width of the bypass feed tray are different, it is judged that paper is set in the wrong direction. The occurrence frequency of interruption by the error of the guides width may be decreased. However, this code does not work depending on the conditions, such as when stapling is selected. Set this code when requested by user or the guides width sensor is broken. Related code: 08-4621. 0: Invalid 1: Valid	1	
08	Setting mode	System	User interface	General		8968		Language package information (Panel Help)	-	-	-	Displays the language package information of the installed Panel Help.	2	
08	Setting mode	System	User interface	General		8969		Language package information (WebHelp)	-	-	-	Displays the language package information of the installed WebHelp.	2	
08	Setting mode	System	User interface	General		8970		Language package information (Service UI)	-	-	-	Displays the language package information of the installed Service UI.	2	
08	Setting mode	System	User interface	General		8971		Installation of language package	-	-	-	Installs the language package.	3	
08	Setting mode	System	General	Self-certificate		8973		Length of public key	1	0-1	SYS	0: 1024 bit 1: 2048 bit	1	
08	Setting mode	System	General	Self-certificate		8974		Signature algorithm	0	0-4	SYS	0: SHA1 1: SHA224 2: SHA256 3: SHA384 4: SHA512	1	
08	Setting mode	System	Network			8975		Data clearing of Point and Print	-	-	SYS	Point and Print in the equipment is deleted when this code is performed. Perform this code when a trouble occurs such as when uploading Point and Print is not possible. After performing this code, upload Point and Print from [Maintenance] menu in the [Administration] menu of TopAccess.	3	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Scanning			8980		Execution of Remote Scan while control panel is operated	0	0-1	NIC	Sets whether the remote scanning is enabled or disabled if the user is logged in using the control panel when user authentication or department management is enabled. 0: Disabled 1: Enabled	12	
08	Setting mode	System	General	Scheduled automatic reboot		8981		Day of the week	0	0-255	SYS	Sets the condition and day of the week for scheduled automatic reboot. The condition and day of the week are assigned to each bit as follows. Input the sum of each bit as setting value. <Input value> bit1: Monday 0: Disabled 1: Enabled bit2: Tuesday 0: Disabled 2: Enabled bit3: Wednesday 0: Disabled 4: Enabled bit4: Thursday 0: Disabled 8: Enabled bit5: Friday 0: Disabled 16: Enabled bit6: Saturday 0: Disabled 32: Enabled bit7: Sunday 0: Disabled 64: Enabled bit8: Set the condition of reboot 0: Reboots only when in the sleep or super sleep mode 128: Reboots regardless of the sleep mode <Example> - Reboots every day regardless of the sleep mode: 255 (1+2+4+8+16+32+64+128=255) - Reboots on Sundays: 192 (0+0+0+0+0+0+64+128=192) - Reboots every day only when in the sleep or super sleep mode: 127 (1+2+4+8+16+32+64+0=127) - Reboots on Sundays only when in the sleep or super sleep mode: 64 (0+0+0+0+0+0+64+0=64)	1	
08	Setting mode	System	General	Scheduled automatic reboot		8982		Time (Hour)	0	0-23	SYS	Sets time (hour) for scheduled automatic reboot.	1	
08	Setting mode	System	General	Scheduled automatic reboot		8983		Time (Minute)	0	0-59	SYS	Sets time (minute) for scheduled automatic reboot.	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface	NFC reader		8986		Usage type	0	0-4294967295	SYS	0011ZZZZ (First 4 digits are fixed) -ZZZZ: Sub code 0000: No authentication using card 0001: IDm (Felica/NFC-FeliCa) and (or) UID (Mifare/NFC-Mifare) are used 0002: Data (Felica/NFC-FeliCa/Mifare/NFC-Mifare) 0003: SSFC mode	5	Yes
08	Setting mode	System	User interface	NFC reader		8987		Format information 1	0	0-4294967295	SYS	000ASSSS (hexadecimal, first 3 digits are fixed) -A: 0: A key 1: B key -SSSS: Sector number (first 2 digits are fixed to "0")	5	Yes
08	Setting mode	System	User interface	NFC reader		8988		Format information 2	0	0-4294967295	SYS	00BSEbse (hexadecimal, first 2 digits are fixed) -B: Block number of first block -S: Starting offset of first block -E: Ending offset of first block -b: Block number of second block -s: Starting offset of second block -e: Ending offset of second block	5	Yes
08	Setting mode	System	User interface	NFC reader		8989		Format information 3	0	0-0xFFFFFFFFFFFFFFFF	SYS	0000KKKKKKKKKKKK (hexadecimal, first 4 digits are fixed) -KKKKKKKKKKKK: key (12 digits)	5	Yes
08	Setting mode	System	Maintenance	Notification of equipment information	Notification setting	8991		Notification setting	0	0~1	SYS	0: Disabled 1: Enabled	2	Yes
08	Setting mode	System	Maintenance	Notification of equipment information	Notification day 1	8992		Notification day 1	0	0-31	SYS	1st to 31th. Input "0" to disable this setting.	1	Yes
08	Setting mode	System	Maintenance	Notification of equipment information	Notification day 2	8993		Notification day 2	0	0-31	SYS	1st to 31th. Input "0" to disable this setting.	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Maintenance	Notification of equipment information	Notification day of the week	8994		Notification day of the week	0	0-127	SYS	Input the value which corresponds to the day of the week. Input "0" to disable this setting. Sunday: 64 Monday: 32 Tuesday: 16 Wednesday: 8 Thursday: 4 Friday: 2 Saturday: 1 e.g.) Monday: 32 Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday: 127 (64+32+16+8+4+2+1=127)	1	Yes
08	Setting mode	System	Maintenance	Notification of equipment information	Notification time	8995		Notification time	300	0-2359	SYS	(Hour/Hour/Minute/Minute)	1	Yes
08	Setting mode	System	Maintenance	Notification of equipment information	Email address 1 for notification	8996		Email address 1 for notification	-	-	SYS	Maximum 192 characters.	11	Yes
08	Setting mode	System	Maintenance	Notification of equipment information	Email address 2 for notification	8997		Email address 2 for notification	-	-	SYS	Maximum 192 characters.	11	Yes
08	Setting mode	System	Maintenance	Notification of equipment information	Email address 3 for notification	8998		Email address 3 for notification	-	-	SYS	Maximum 192 characters.	11	Yes
08	Setting mode	System	Maintenance	Notification of equipment information	Adjustment mode (05) data list	8999	1	Adjustment mode (05) data list	0	0-1	SYS	0: Disabled 1: Enabled	4	Yes
08	Setting mode	System	Maintenance	Notification of equipment information	Setting mode (08) data list	8999	2	Setting mode (08) data list	0	0-1	SYS	0: Disabled 1: Enabled	4	Yes
08	Setting mode	System	Maintenance	Notification of equipment information	PM support mode data list	8999	3	PM support mode data list	0	0-1	SYS	0: Disabled 1: Enabled	4	Yes
08	Setting mode	System	Maintenance	Notification of equipment information	Pixel counter list	8999	4	Toner cartridge reference	0	0-1	SYS	0: Disabled 1: Enabled	4	Yes
08	Setting mode	System	Maintenance	Notification of equipment information	Pixel counter list	8999	5	Service engineer reference	0	0-1	SYS	0: Disabled 1: Enabled	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Maintenance	Notification of equipment information	Error history list	8999	6	Maximum 1000 items	0	0-1	SYS	0: Disabled 1: Enabled	4	Yes
08	Setting mode	System	Maintenance	Notification of equipment information	Error history list	8999	7	Latest 80 items	0	0-1	SYS	0: Disabled 1: Enabled	4	Yes
08	Setting mode	System	Maintenance	Notification of equipment information	Firmware upgrade log	8999	8	Maximum 200 items	0	0-1	SYS	0: Disabled 1: Enabled	4	Yes
08	Setting mode	System	Maintenance	Notification of equipment information	Power ON/OFF log	8999	9	Power ON/OFF log	0	0-1	SYS	0: Disabled 1: Enabled	4	Yes
08	Setting mode	System	Maintenance	Notification of equipment information	Version list	8999	10	Version list	0	0-1	SYS	0: Disabled 1: Enabled	4	Yes
08	Setting mode	System	Maintenance	Notification of equipment information	Engine firmware log	8999	11	Engine firmware log	0	0-1	SYS	0: Disabled 1: Enabled	4	Yes
08	Setting mode	System	Maintenance	Notification of equipment information	Total counter list	8999	12	Total counter list	0	0-1	SYS	0: Disabled 1: Enabled	4	Yes
08	Setting mode	System	General			9000		Destination selection	EUR: 0 UC: 1 JPN: 2	0~2	M	0: EUR 1: UC 2: JPN	1	
08	Setting mode	System	Option	FAX		9001		Destination setting	Refer to contents	0~25	SYS	0: Japan 1: Asia 2: TAP 3: Hong Kong 4: U.S.A./Canada 5: Germany 6: U.K. 7: Italy 8: Belgium 9: Netherlands 10: Finland 11: Spain 12: Austria 13: Switzerland 14: Sweden 15: Denmark 16: Norway 17: Portugal 18: France 19: Greece 20: Poland 21: Hungary 22: Czech 23: Turkey 24: South Africa 25: Taiwan <Default value> EUR: 5 UC: 4 JPN: 0 Other: 1	1	Yes
08	Setting mode	System	General			9010		Line adjustment mode	0	0~1	M	0: For factory shipment 1: For line Field: "0" must be selected	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface			9012		Language displayed at power-ON	Refer to contents	-	SYS	<Default value> JPD: Japanese TWD: Traditional Chinese CND: Simplified Chinese KRD: Korean Others: English	11	
08	Setting mode	System	User interface			9016		Counter installed externally	0	0-5	M	0: No external counter 1: Coin controller (If the value of 08-9979 is "0" (ACS), it is changed to "2" (Full color).) 2: Totalizer/Key card (This value is valid only when "2" is set for 08-9000.) 3: Key counter 5: Coin controller supporting ACS/mixed-size (The value of 08-4131 is set to "1") * "4" cannot be set.	1	
08	Setting mode	System	Counter			9017		Setting for counter installed externally	1	0-7	M	Selects the job to count up for the external counter. 0: Not selected 1: Copier 2: Fax 3: Copier/Fax 4: Printer 5: Copier/Printer 6: Fax/Printer 7: Copier/Fax/Printer	1	
08	Setting mode	System	General			9022		Easy setup production process flag	99	0~99	SYS	Perform this code when an error occurs during the easy setup (unpacking manual adjustment) and you want to finish the easy setup, or when the error is canceled and you want to restart the unpacking manual adjustment. 0: Packing mode finished (before unpacking is started) 1: Auto-toner adjustment finished (The message prompting the installation of the toner cartridge is displayed.) 2: Toner cartridge is installed 3: Automatic gamma adjustment finished 99: All the unpacking adjustments finished	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	General			9023		Trial period setting	254	1~60	SYS	Sets the trial period from 1 to 60 days. This setting is effective only when the default value is "254". Once the default value is set, this value is only used for a reference.	1	Yes
08	Setting mode	System	General			9025		Notifying condition of trial period end	3	0~255	SYS	Sets when the end of trial period is notified.0: On the day it ends 1 to 255: n days before	1	Yes
08	Setting mode	System	General			9026		Notifying address of trial period end	3	0~3	SYS	Sets where the end of the trial period is to be notified. 0: OFF 1: User 2: Service center 3: User and service center	1	Yes
08	Setting mode	System	General			9027		Forcible end of trial period	-	-	SYS	[CANCEL]: Cancel [INITIALIZE]: Forcible end When the "Forcible end of trial period" is performed, "0" is set in the code (08-9023) to end up the trial period forcibly.	3	Yes
08	Setting mode	System	Initializatio n			9030		Initialization after software version up	-	-	SYS	Perform this code when the software in this equipment has been upgraded.	3	Yes
08	Setting mode	System	User interface	Counter installed externally		9037		Job handling-short paid-coin controller	1	0~1	SYS	Sets whether pause or stop the printing job when it is short paid using a coin controller.0: Pause the job 1: Stop the job	1	Yes
08	Setting mode	System	Maintenan ce	General		9050		Performing panel calibration	-	-	SYS	Performs the calibration of the pressing position on the touch panel (LCD screen). The calibration is performed by pressing 4 reference positions after this code is started up.	1	Yes
08	Setting mode	System	User interface	Screen setting		9051		Panel calibration setting value	0	0~1	SYS	Switches whether the screen for displaying panel calibration setting values is displayed or not.0: Disabled (screen not displayed) 1: Enabled (screen displayed)	1	Yes
08	Setting mode	System				9060		Destination display at SRAM initialization	Refer to contents	0-255	SYS	0: MJD 1: NAD 2: JPD 3: AUD 4: CND 5: KRD 6: TWD 7: SAD 8: ASU 9: ASD 10: ARD <Default value> MJD: 0 NAD: 1 JPD: 2 AUD: 3 CND: 4 KRD: 5 TWD: 6 SAD: 7 ASU: 8 ASD: 9 ARD: 10	2	
08	Setting mode	System	HDD			9065		HDD diagnostic menu display	-	-	SYS	Display the HDD information	2	Yes
08	Setting mode	System	HDD			9072		Performing HDD testing	-	-	SYS	Checks the bad sector. It may take more than 30 minutes to finish the checking.	3	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	General			9081		Initialization of department management information	-	-	SYS	Initializing of the department management information * Key in the code and press the [INITIALIZE] button to perform the initialization. If the area storing the department management information is destroyed for some reason, "Enter Department Code" is displayed on the control panel even if the department management function is not set on. In this case, initialize the area with this code. This area is normally initialized at the factory.	3	
08	Setting mode	System	Initializatio n	Initialization of NIC information		9083		Initialization of NIC information	-	-	SYS	Returns the value to the factory shipping default value.	3	Yes
08	Setting mode	System	All clearing			9090		Printer all clear	-	-	M	If the data of the self-diagnosis 05/08 code become abnormal, performing 08-4582 can restore them. If not, perform this code. All data of the self-diagnosis 05/08 code with "M" in the "RAM" field are initialized, except the destination setting data. Perform this code if the above problem occurs or the data of the self-diagnosis 05/08 code and the backup data are damaged after replacing the LGC board and performing 08-4582. Procedure: 1. Set 08-9000. 2. Perform 08-9090. 3. Perform 08-4581. 4. Set 08-9080 to "0". If you have got the order wrong, repeat the procedure from step 1. After this code is performed, it is necessary to replace the developer material and to adjust the autotoner sensor. Since the information of the PM counter is initialized, enter it again as required.	3	Yes
08	Setting mode	System	General			9100		Date and time setting	-	13 digits	-	Year/month/date/day/hour/minute/second Example:03 07 0 13 13 27 48 "Day" - "0" is for "Sunday". Proceeds Monday through Saturday from "1" to "6".	5	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface			9102		Date display format	Refer to contents	0~2	SYS	0: YYYY.MM.DD. 1: DD.MM.YYYY 2: MM.DD.YYYY <Default value> EUR: 1 UC: 2 JPN: 0	1	
08	Setting mode	System	General			9103		Time differences	EUR: 24 UC: 40 JPN: 6	0~47	SYS	0: +12.0h 1: +11.5h2: +11.0h 3: +10.5h 4: +10.0h 5: +9.5h 6: +9.0h 7: +8.5h 8: +8.0h 9: +7.5h 10: +7.0h 11: +6.5h 12: +6.0h 13: +5.5h 14: +5.0h 15: +4.5h 16: +4.0h 17: +3.5h 18: +3.0h 19: +2.5h 20: +2.0h 21: +1.5h 22: +1.0h 23: +0.5h 24: 0.0h 25: -0.5h 26: -1.0h 27: -1.5h 28: -2.0h 29: -2.5h 30: -3.0h 31: -3.5h 32: -4.0h 33: -4.5h 34: -5.0h 35: -5.5h 36: -6.0h 37: -6.5h 38: -7.0h 39: -7.5h 40: -8.0h 41: -8.5h	1	
08	Setting mode	System	User interface			9110		Auto-clear timer setting	3	0~10	SYS	Timer to return the equipment to the default settings when the [START] button is not pressed after the function and the mode are set 0: Not cleared 1 to 10: Set number x 15 sec.	1	
08	Setting mode	System	User interface			9111		Auto power save mode timer setting	4	0~15	SYS	Timer to automatically switch to the Auto power save mode when the equipment has not been used. 0: Invalid 4: 1 min. 6: 3 min. 7: 4 min. 8: 5 min. 9: 7 min. 10: 10 min. 11: 15 min. 12: 20 min. 13: 30 min. 14: 45 min. 15: 60 min.	1	Yes
08	Setting mode	System	User interface			9112		Auto Shut Off timer setting (Sleep Mode)	21	0~21	SYS	Timer to turn OFF the power or to enter the Sleep Mode automatically when the equipment has not been used. 0: 3 min. 1: 5 min. 2: 10 min. 3: 15 min. 4: 20 min. 5: 25 min. 6: 30 min. 7: 40 min. 8: 50 min. 9: 60 min. 10: 70 min. 11: 80 min. 12: 90 min. 13: 100 min. 14: 110 min. 15: 120 min. 16: 150 min. 17: 180 min. 18: 210 min. 19: 240 min. 20: Disabled 21: 1 min.	1	Yes
08	Setting mode	System	User interface	Energy save		9113		Screen setting for automatic energy saver / automatic power OFF	Refer to contents	0~1	SYS	0: OFF 1: ON <Default value> JPD/NAD: 1 Others: 0	1	Yes
08	Setting mode	System	General			9117		Raw printing job(Blank page will not be printed)	0	0~1	SYS	0: OFF 1: ON	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface	Department setting		9120		Department setting	0	0~1	SYS	0: Invalid 1: Valid	1	Yes
08	Setting mode	System	User interface	Department setting		9121		Print setting without department/registratio n code	1	0~2	SYS	0: Printed 1: Not printed (pooled in the invalid queue) 2: Deleted forcibly	1	Yes
08	Setting mode	System	User interface	Department setting		9122		Copy	1	0~1	SYS	0: Invalid 1: Valid	1	Yes
08	Setting mode	System	User interface	Department setting		9123		FAX	1	0~1	SYS	0: Invalid 1: Valid	1	Yes
08	Setting mode	System	User interface	Department setting		9124		Printer	1	0~1	SYS	0: Invalid 1: Valid	1	Yes
08	Setting mode	System	User interface	Department setting		9125		Scanning	1	0~1	SYS	0: Invalid 1: Valid	1	Yes
08	Setting mode	System	User interface	Department setting		9126		List print	1	0~1	SYS	0: Invalid 1: Valid	1	Yes
08	Setting mode	System	User interface	External counter		9129		Duplex print setting when coin controller is used	1	0~1	SYS	When the duplex printing is short paid with a coin controller, reverse side of the original is not printed and is considered as a defect (printing job may be cleared). To solve this problem, the selection of printing method is enabled with this setting .0: Invalid (Only one side printed) 1: Valid (Both sides printed/One side printed)	1	Yes
08	Setting mode	System	User interface			9130		Highlighting display on LCD	0	0~1	SYS	0: Black letter on white background 1: White letter on black background	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface	Default mode setting	Default setting	9132		Default setting of screen (Function)	0	0-7, 99	SYS	Sets the screen to be displayed after the auto-clear time has passed or it has recovered from the energy saving mode or sleep mode. 0: COPY 1: FAX 2: SCAN 3: BOX 4: PRINT 5: TEMPLATE 6: MENU 7: JOB STATUS 99: EWB * Only 0 to 7, and 99 can be entered.	1	Yes
08	Setting mode	System	User interface			9133		Default setting for APS/AMS	0	0~2	SYS	0: APS (Automatic Paper Selection) 1: AMS (Automatic Magnification Selection) 2: Not selected	1	
08	Setting mode	System	User interface	Default setting of RADF mode		9134		Default setting	0	0~1	SYS	0: Continuous feeding (by pressing the [START] button) 1: Single feeding (by setting original on the tray)	1	Yes
08	Setting mode	System	User interface			9135		Book type original priority	0	0~1	SYS	0: Left page to right page 1: Right page to left page	1	
08	Setting mode	System	User interface			9136		Maximum number of copy volume (MAX9)	1	1~3	SYS	1: 999 2: 99 3: 9	1	
08	Setting mode	System	User interface	Default mode setting	Default setting	9137		Setting for automatic duplexing mode	0	0~3	SYS	0: Invalid 1: Single-sided to duplex copying 2: Double-sided to duplex copying 3: User selection	1	Yes
08	Setting mode	System	User interface			9140		Paper size selection for [OTHER] button	Refer to contents	0-255	SYS	Press the button on the LCD to select the size. <Default value> EUR: FOLIO UC: COMP JPN: A5-R	9	
08	Setting mode	System	User interface	Default setting of RADF mode		9142		Default setting of RADF original size	0	0~1	SYS	0: Scanned as all in same size 1: Scanned as each original size	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Paper feeding			9143		Time lag before Auto Job Start of bypass feeding	10	0~10	SYS	Sets the time taken to add paper feeding when paper in the bypass tray has run out during the bypass feed copying. 0: Paper is not drawn in unless the [START] button is pressed. 1-10: Setting value x 0.5 sec.	1	
08	Setting mode	System	User interface			9144		Blank copying prevention mode during RADF jamming	0	0~1	SYS	0: OFF 1: ON (Start printing when the scanning of each page is finished)	1	
08	Setting mode	System	User interface	Rotation printing		9146		Rotation printing at the non-sorting	0	0~1	SYS	0: Not rotating 1: Rotating	1	Yes
08	Setting mode	System	User interface			9147		Direction priority of original image	0	0~1	SYS	0: Automatic 1: Portrait	1	
08	Setting mode	System	User interface			9148		Inner receiving tray priority at Non-sort Mode	0	0~1	SYS	0: Normal 1: Inner receiving tray	1	
08	Setting mode	System	User interface			9149		Width setting for image shift copying (linkage of front side and back side)	0	0~1	SYS	0: ON 1: OFF	1	
08	Setting mode	System	User interface			9150		Automatic Sorting Mode setting (RADF)	2	0~4	SYS	0: Invalid 1: STAPLE 2: SORT 3: GROUP 4: ROTATE SORT	1	
08	Setting mode	System	User interface			9151		Default setting of Sorter Mode	0	0~4	SYS	0: NON-SORT 1: STAPLE 2: SORT 3: GROUP 4: ROTATE SORT	1	
08	Setting mode	System	User interface			9152		Correction of reproduction ratio in editing copy	10	0~10	SYS	Sets the reproduction ratio for the "X in 1" printing (including magazine sort) to the "Reproduction ratio x Correction ratio". 0: 90% 1: 91% 2: 92% 3: 93% 4: 94% 5: 95% 6: 96% 7: 97% 8: 98% 9: 99% 10: 100%	1	
08	Setting mode	System	User interface			9153		Image position in editing	2	0~3	SYS	Sets the page pasted position for "X in 1" to the upper left corner/center. 0: PPC:Cornering/PRT:Cornering 1: PPC:Centering/PRT:Cornering 2: PPC:Cornering/PRT:Centering 3: PPC:Centering/PRT:Centering	1	
08	Setting mode	System	User interface			9155		Magazine sort setting	0	0~1	SYS	0: Left page to right page 1: Right page to left page	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface			9156		2 in 1/4 in 1 page allocating order setting	0	0~1	SYS	0: Horizontal 1: Vertical	1	
08	Setting mode	System	User interface			9157		Printing format setting for Time stamp and Page Number	2	0~3	SYS	Hyphen (with page number) /Dropout (with date, time and page number) 0: OFF/OFF 1: ON/OFF 2: OFF/ON 3: ON/ON Note: Hyphen printing format ON: -1- OFF: 1	1	
08	Setting mode	System	User interface	Cascade operation setting	PPC/FAX	9158	0	ON/OFF	0	0~1	SYS	Sets the tray switch operation if the output tray becomes full of paper while printing. 0: OFF 1: ON	4	
08	Setting mode	System	User interface	Cascade operation setting	PPC/FAX	9158	1	Cascade operation	0	0~1	SYS	0: Switches one time 1: Circulation (loop)	4	
08	Setting mode	System	User interface	Cascade operation setting	PRINTER/BOX	9159	0	ON/OFF	0	0~1	SYS	Sets the tray switch operation if the output tray becomes full of paper while printing. 0: OFF 1: ON	4	
08	Setting mode	System	User interface	Cascade operation setting	PRINTER/BOX	9159	1	Cascade operation	0	0~1	SYS	0: Switches one time 1: Circulation (loop)	4	
08	Setting mode	System	User interface			9163		Direction priority for date and time stamp printing	0	0~1	SYS	0: Short edge 1: Long edge	1	
08	Setting mode	System	User interface	Paper Feed		9164		Auto-start setting for bypass feed printing	0	0~1	SYS	Sets whether or not feeding a paper automatically into the equipment when it is placed on the bypass tray. 0: OFF (Press the [START] button to start feeding.) 1: ON (Automatic feeding)	1	Yes
08	Setting mode	System	User interface			9165		Auto Job start setting for bypass feed printing	1	0~1	SYS	Sets whether or not feeding a paper automatically into the equipment when it is placed on the bypass tray. 0: OFF (Press the [START] button to start feeding.) 1: ON (Automatic feeding)	1	
08	Setting mode	System	Option	FAX		9183		Adaptation of paper source	0	0~1	SYS	0: Not subjected for APS judgment 1: Subjected for APS judgment	1	Yes
08	Setting mode	System	User interface			9184		Centering printing of primary/secondary direction at AMS	1	0~1	SYS	0: Invalid 1: Valid	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface	Feeding paper media		9185	0	Copier	1	1, 16, 17	SYS	Sets a media type for APS drawer searching in the copier functions. Each bit 0: Excluded from feeding target media Each bit 1: Feeding target media bit 0: Plain paper bit 1: N/A (Always set "0") bit 2: N/A (Always set "0") bit 3: N/A (Always set "0") bit 4: Thick paper 1	4	
08	Setting mode	System	User interface	Feeding paper media		9185	1	Printer/Box	1	1	SYS	Sets a media type to print on plain paper in the printer/box functions. This setting is used for drawer searching or media type inconsistency judgment. The setting result does not affect other media types, other than plain paper. Each bit 0: Excluded from feeding target media Each bit 1: Feeding target media bit 0: Plain paper bit 1: N/A (Always set "0") bit 2: N/A (Always set "0") bit 3: N/A (Always set "0") bit 4: N/A (Always set "0")	4	
08	Setting mode	System	Network	Retention period		9193		Web data retention period	10	3 digits	SYS	When a certain period of time has passed without operation after accessing TopAccess, the data being registered is automatically reset. This period is set at this code. (Unit: Minute)	1	Yes
08	Setting mode	System	General			9199		Automatic interruption page setting during printing	0	0~100	SYS	Sets the number of pages to interrupt the printing automatically. If the setting value is one or more, printing is interrupted when the setting value x 10 is reached, then printing is resumed. 0-100: 0 to 100 pages	1	
08	Setting mode	System	Network	Retention period		9200		File retention period	30	0~999	SYS	0: No limits 1 to 999: 1 to 999 days	1	Yes
08	Setting mode	System	Network	E-mail		9201		Max. size in email transmission	30	2~100	SYS	2 to 100 M bytes	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Electronic Filing			9203		Full guarantee of documents in Electronic Filing when HDD is full	1	0~1	SYS	Sets the file retention level when editing the files in the Electronic Filing (at CutDoc/SaveDoc command execution). 0: Not full retained 1: Fully retained - Retains the source file until CutDoc/SaveDoc command is completed. * The file is not deleted even if the HDD has become full during the execution of command when "1" is set.	1	
08	Setting mode	System	User interface			9204		Binarizing level selection (When judging as black in the ACS Mode)	3	1-5	SYS	0: Step -2 1: Step -1 2: Step 0 (center) 3: Step 1 4: Step 2 The binarizing level of each step is set at 08-9230.	1	
08	Setting mode	System	Electronic Filing			9207		Default value for user box retention period	0	0~999	SYS	Sets the data retention period when creating a user box. 0: Not deleted 1 to 999: Retention period (Unit: Day)	1	
08	Setting mode	System	HDD			9208		Warning notification-File Share/e-Filing	90	0~100	SYS	Sets the percentage of HDD partition filled when warning notification is sent. 0 to 100: 0 to 100% * Related code 08-9225	1	Yes
08	Setting mode	System	Scanning			9209		Notification setting of E-mail saving time limit	3	0~99	SYS	Sets the days left the notification of E-mail saving time limit appears 0 to 99: 0 to 99 days	1	
08	Setting mode	System	Scanning			9210		Default setting of partial size when transmitting E-mail	0	0~6	SYS	Sets the default value for the partial size of E-mail to be transmitted when creating a template. 0: Not divided 1: 64 2: 128 3: 256 4: 512 5: 1024 6: 2048 (Unit: KB)	1	
08	Setting mode	System	Option	FAX		9211		Default setting of page by page-I FAX	0	0~4	SYS	Sets the default value for the page by page of Internet FAX to be transmitted when creating a template. 0: Not divide 1: 256 2: 512 3: 1024 4: 2048 (Unit: KB)	1	Yes
08	Setting mode	System	User interface	Default mode setting	Default setting (SCN)	9213		Default setting for density adjustment	0	0~11	SYS	0: Automatic density 1: Step -5 2: Step -4 3: Step -3 4: Step -2 5: Step -1 6: Step 0 (center) 7: Step +1 8: Step +2 9: Step +3 10: Step +4 11: Step +5 (1 to 11: Manual density)	1	Yes
08	Setting mode	System	User interface			9214		Default setting of background adjustment(Full Color)	5	1~9	SYS	1: Step -4 2: Step -3 3: Step -2 4: Step -1 5: Step 0 (center) 6: Step +1 7: Step +2 8: Step +3 9: Step +4	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface	Default mode setting	Default setting (SCN)	9215		Color mode	0	0~4	SYS	0: Black 1: Gray Scale 2: Unused 3: Full Color 4: Auto Color	1	Yes
08	Setting mode	System	User interface	Default mode setting	Default setting of resolution (SCN)	9216		Full Color	2	0~5	SYS	0: 100 dpi 1: 150 dpi 2: 200 dpi 3: 300dpi 4: 400 dpi 5: 600dpi	1	Yes
08	Setting mode	System	User interface	Default mode setting	Default setting of resolution (SCN)	9217		Gray Scale	2	0~5	SYS	0: 100 dpi 1: 150 dpi 2: 200 dpi 3: 300dpi 4: 400 dpi 5: 600dpi	1	Yes
08	Setting mode	System	User interface	Default mode setting	Default setting of resolution (SCN)	9218		Black	1	0~5	SYS	0: 150 dpi 1: 200 dpi 2: 300 dpi 3: 400dpi 4: 600dpi 5: 100dp	1	Yes
08	Setting mode	System	User interface	Default mode setting	Default setting (SCN)	9219		Original mode (Full color)	0	0~3	SYS	0: Text 1: Text/Photo 2: Photo 3: Custom (Valid only when a setting other than "0" is set for 08-8303)	1	Yes
08	Setting mode	System	User interface	Default mode setting	Default setting (SCN)	9220		Original mode (Black)	0	0~3	SYS	0: Text 1: Text/Photo 2: Photo 3: Custom The value other than "0" needs to be set for 08-7401 to select "3: Custom."	1	Yes
08	Setting mode	System	User interface			9221		Default setting of duplex mode	0	0~2	SYS	0: Single 1: Book 2: Tablet	1	
08	Setting mode	System	User interface			9222		Default setting of rotation angle of original	0	0~3	SYS	0: 0 degree 1: 90 degrees 2: 180 degrees 3: 270 degrees	1	
08	Setting mode	System	User interface			9223		Default setting of original paper size	0	0~22	SYS	0: Automatic 1: A3 2: A4 3: LD 4: LT 5: A4-R 6: A5-R 7: LT-R 8: LG 9: B4 10: B5 11: ST-R 12: COMP 13: B5-R 14: FOLIO 15: 13"LG 16: 8.5" x 8.5" 18: A6-R 19: Size mixed 20: 8K 21: 16K 22: 16K-R	1	
08	Setting mode	System	General			9225		Searching interval of deleting expired flies and checking capacity of HDD partitions	12	1~24	SYS	Sets the search interval of deleting expired files and checking capacity of HDD partition. (Unit: Hour) * Related code 08-9208	1	
08	Setting mode	System	User interface			9226		Default setting of background adjustment(Gray Scale)	5	1~9	SYS	1: Step -4 2: Step -3 3: Step -2 4: Step -1 5: Step 0 (center) 6: Step +1 7: Step +2 8: Step +3 9: Step +4	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface	Default setting of filing format	E-mail	9227		Black	1	0~6	SYS	0: TIFF (Multi) 1: PDF (Multi) 3: TIFF (Single) 4: PDF (Single) 5: XPS (Multi) 6: XPS (Single)	1	Yes
08	Setting mode	System	User interface	Default setting of filing format	Storing files	9228		Color/ACS	1	0~8	SYS	0: TIFF (Multi) 1: PDF (Multi) 2: JPG 3: TIFF (Single) 4: PDF (Single) 5: SLIM PDF (Multi) 6: SLIM PDF (Single) 7: XPS (Multi) 8: XPS (Single)	1	Yes
08	Setting mode	System	User interface	Default setting of filing format	Storing files	9229		Black	Refer to contents	0~6	SYS	0: TIFF (Multi) 1: PDF (Multi) 3: TIFF (Single) 4: PDF (Single) 5: XPS (Multi) 6: XPS (Single) <Default value> MJD: 1 Others: 0	1	Yes
08	Setting mode	System	Image	Binarizing level setting (When judging as black in the ACS Mode)		9230	0	Step -2	88	0-255	SYS	Sets the binarizing level of each step. When the value increases, the image becomes darker. When the value decreases, the image becomes lighter. Refer to 08-9204.	4	
08	Setting mode	System	Image	Binarizing level setting (When judging as black in the ACS Mode)		9230	1	Step -1	108	0-255	SYS	Sets the binarizing level of each step. When the value increases, the image becomes darker. When the value decreases, the image becomes lighter. Refer to 08-9204.	4	
08	Setting mode	System	Image	Binarizing level setting (When judging as black in the ACS Mode)		9230	2	Step 0 (center)	148	0-255	SYS	Sets the binarizing level of each step. When the value increases, the image becomes darker. When the value decreases, the image becomes lighter. Refer to 08-9204.	4	
08	Setting mode	System	Image	Binarizing level setting (When judging as black in the ACS Mode)		9230	3	Step +1	178	0-255	SYS	Sets the binarizing level of each step. When the value increases, the image becomes darker. When the value decreases, the image becomes lighter. Refer to 08-9204.	4	
08	Setting mode	System	Image	Binarizing level setting (When judging as black in the ACS Mode)		9230	4	Step +2	208	0-255	SYS	Sets the binarizing level of each step. When the value increases, the image becomes darker. When the value decreases, the image becomes lighter. Refer to 08-9204.	4	
08	Setting mode	System	Electronic Filing			9233		Equipment name and user name setting to a folder when saving files	0	0~2	SYS	Sets whether or not adding the equipment name and user name to the folder when saving files. 0: Not add 1: Add the equipment name 2: Add the user name	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface			9236		Default setting of print menu	1	1~4	SYS	1: Private print screen (Job list of log-in user is displayed if user authentication is enabled.) 2: Hold print screen (Job list of log-in user is displayed if user authentication is enabled.) 3: Private print screen (If the private print screen is displayed when user authentication is enabled, user list is displayed if user logs in as GUEST, and job list of log-in user is displayed if user logs in as general user.) 4: Hold print screen (If the private print screen is displayed when user authentication is enabled, user list is displayed if user logs in as GUEST, and job list of log-in user is displayed if user logs in as general user.) * If user data department management (08-9264) is changed from OFF to ON, the value in this code changes from "1" to "2", and "3" to "4". The value does not change if it is "2" or"4". Reset this value as necessary when changing user data department management (08-9264) from OFF to ON.	1	
08	Setting mode	System	Data overwrite kit			9240		HDD data overwriting type setting	3	0-3	SYS	Select the type of the overwriting level for deleting HDD data. (This setting is enabled only when the GP-1070 is installed.) 0: LOW Standard overwriting method. 1: MEDIUM More secure overwriting method than LOW. The overwriting time is between LOW and HIGH. 2: HIGH The most secure overwriting method. The overwriting time is the longest. 3: SIMPLE Simple overwriting method. The time for overwriting is the shortest.	1	
08	Setting mode	System	Paper feeding			9248		Automatic feed setting of tab paper and insertion sheet(Remote)	1	0~1	SYS	0: Disabled 1: Enabled	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface			9251		Access code entry for Electronic Filing printing	0	0~1	SYS	0: Renewed automatically 1: Enter every time	1	
08	Setting mode	System	User interface			9252		Clearing timing for files and Electronic Filing Agent	1	0~1	SYS	0: Immediately after the completion of scanning 1: Cleared by Auto Clear	1	
08	Setting mode	System	Paper feeding			9253		Setting of paper size switching to 13" LG	0	0~2	SYS	0: Not switched 1: LG → 13"LG 2: FOLIO → 13"LG	1	
08	Setting Mode	System	Option	FAX		9255		FOLIO/A4-R judgment when width of paper is mixed	0	0-1	SYS	When the value of this code is "0", the paper size is judged by performing switchback. When the value of this code is "1" and the paper size is AB-series, FOLIO is judged as A4-R and switchback is not performed. When the paper size is LT-series, the switchback is always performed. When the value of this code is set to "1", the scanning performance increases at fax transmission. However, the whole image cannot be output since FOLIO is judged as A4-R. 0: Judgment is enabled 1: Judgment is disabled	1	
08	Setting mode	System	User interface			9261		Maximum number of time job build performed	1000	5~1000	SYS	Sets the maximum number of time a job build has been performed. 5-1000: 5 to 1000 times	1	
08	Setting mode	System	General			9264		User data department management	0	0~1	SYS	0: Invalid 1: Valid * When this code is set to "1" (Valid), the department management setting (08-9120) should be "1" (Valid).	1	
08	Setting mode	System	Paper feeding			9267		Detection method of 13" LG for single-size document	0	0~1	SYS	0: Disabled 1: Enabled	1	
08	Setting mode	System	Option	FAX		9268		Inbound FAX function (Forwarding by TSI)	1	0~1	SYS	0: OFF(Function disabled) 1: ON(Function enabled)	1	Yes
08	Setting mode	System	Option	FAX		9269		Tab/cover sheet-FAX Printing stop function	0	0~1	SYS	Sets on or off of the printing function of special sheets such as tab or cover sheet of FAX, Email or list print. 0: Function off 1: Function on	1	Yes
08	Setting mode	System	Network			9271		Authentication method of "Scan to Email"	0	0~2	SYS	0: Disable 1: SMTP authentication 2: LDAP authentication	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			9272		Setting whether use of Internet FAX is permitted or not when it is given an authentication	0	0~1	SYS	0: Not permitted 1: Permitted	1	
08	Setting mode	System	Network			9274		"From" address assignment method when it is given an authentication	0	0~2	SYS	0: "User name" + @ + "Domain name"1: LDAP search 2: Use the address registered in "From" field of E-mail setting	1	
08	Setting mode	System	Network			9276		Setting for "From" address edit at "Scan to Email"	0	0~1	SYS	0: Not permitted 1: Permitted	1	
08	Setting mode	System	Network			9278		E-mail domain name	-	-	SYS	96+2 (delimiter) character ASCII sequence only	11	
08	Setting mode	System	User interface	Sound		9280		Error sound	1	0~1	SYS	0: OFF 1: ON	1	Yes
08	Setting mode	System	User interface	Sound		9281		Sound setting -- Energy Saving	Refer to contents	0~1	SYS	0: OFF 1: ON <Default value> JPD: 0 Other: 1	1	Yes
08	Setting mode	System	General			9293		User authentication method	0	0~2	SYS	0: Local 1: NTLM (NT Domain) 2: LDAP	1	
08	Setting Mode	System	General			9294		Automatic user registration for external authentication	1	0-1	SYS	0: Disabled 1: Enabled	1	
08	Setting mode	System	General			9295		User data management limitation setting	0	0~1	SYS	0: Disabled 1: Enabled	1	
08	Setting mode	System	General			9296		User data management limitation Setting by number of printouts	0	7 digits	SYS	0-9,999,999: 0-9,999,999 sheets	1	
08	Setting mode	System	Network			9298		Restriction on Address book operation by administrator	0	0~1	SYS	Some restrictions can be given on the administrator for operating the Address book. 0: No restriction 1: Can be operated only under the administrator's authorization	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			9299		Restriction on "To" ("cc") address	0	0~3	SYS	0: No restriction 1: Can be set from both of the Address book and LDAP server 2: Can be set only from the Address book 3: Can be set only from the LDAP server	1	
08	Setting mode	System	Paper feeding			9300		Drawer 1Paper information	0	0~1	SYS	0: Plain paper 1: Thick paper 1	1	
08	Setting mode	System	Paper feeding			9301		Drawer 2Paper information	0	0~1	SYS	0: Plain paper 1: Thick paper 1	1	
08	Setting mode	System	Paper feeding			9302		PFP 1 Paper information	0	0~1	SYS	0: Plain paper 1: Thick paper 1	1	
08	Setting mode	System	Paper feeding			9303		PFP 2 Paper information	0	0~1	SYS	0: Plain paper 1: Thick paper 1	1	
08	Setting mode	System	Paper feeding			9304		LCF Paper information	0	0~1	SYS	0: Plain paper 1: Thick paper 1	1	
08	Setting mode	System	Paper feeding			9305		Bypass tray Paper information	0	0~3, 11, 16, 32	SYS	0: Plain paper 1: Thick paper 1 2: Thick paper 2 3: Thick paper 3 11: Thin paper 16: OHP film 32: Envelope	1	
08	Setting mode	System	Paper feeding			9306		LT <-> A4/LD <-> A3	0	0~1	SYS	Sets whether the data is printed on the different but similar size paper or not when the paper of corresponding size is not available. 0: Valid (The data is printed on A4/A3 when LT/LD is selected or vice versa.) 1: Invalid (The message to use the selected paper size is displayed.)	1	
08	Setting mode	System	Network	Retention period		9307		Storage period at trail and private	14	0-53	SYS	0: No limits 1 to 30: 1 to 30 days 31: 1 hour 32: 2 hours 33: 4 hours 34: 8 hours 35: 12 hours 50: 5 min. 51: 10 min. 52: 15 min. 53: 30 min.	1	Yes
08	Setting mode	System	Network			9308		Raw printing job (Duplex)	1	0~1	SYS	0: Valid 1: Invalid	1	
08	Setting mode	System	Network			9309		Raw printing job(Paper size)	EUR: 6 UC: 2 JPN: 6	0 ~13	SYS	0: LD 1: LG 2: LT 3: COMP 4: ST 5: A3 6: A4 7: A5 8: A6 9: B4 10: B5 11: FOLIO 12: 13"LG 13: 8.5" x 8.5"	1	
08	Setting mode	System	Network			9310		Raw printing job(Paper type)	0	0~6	SYS	0: Plain paper 1: Thick paper 1 2: Thick paper 2 3: Thick paper 3 4: OHP film 6: Thin paper	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			9311		Raw printing job(Paper direction)	0	0~1	SYS	0: Portrait 1: Landscape	1	
08	Setting mode	System	Network			9312		Raw printing job (Staple)	1	0~1	SYS	0: Valid 1: Invalid	1	
08	Setting mode	System	Network			9313		Raw printing job(receiving tray)	0	0~6	SYS	0: Inner tray 1: Finisher tray 1 2: Finisher tray 2 3: Not used 4: Job Separator upper tray 5: Job Separator lower tray * The settings 4 and 5 are effective only when the Job Separator (MJ- 5004) is installed.	1	
08	Setting mode	System	Network			9314		Raw printing job(Number of form lines)	1200	500~12800	SYS	Sets the number of form lines from 5 to 128. (A hundredfold of the number of form lines is defined as the setting value.)	1	
08	Setting mode	System	Network			9315		Raw printing job(PCL font pitch)	1000	44~9999	SYS	Sets the font pitch from 0.44 to 99.99. (A hundredfold of the font pitch is defined as the setting value.)	1	
08	Setting mode	System	Network			9316		Raw printing job(PCL font size)	1200	400~99975	SYS	Sets the font size from 4 to 999.75. (A hundredfold of the font size is defined as the setting value.)	1	
08	Setting mode	System	Network			9317		Raw printing job(PCL font number)	0	0~9999	SYS	Sets the PCL font number.	1	
08	Setting mode	System	Paper feeding			9318		Memory 1 Paper size (bypass feeding/non-standard type) feeding/widthwise direction	148/100	148~432/100~297	SYS	Registers the paper size of bypass feed (non-standard type) into [MEMORY 1].	10	
08	Setting mode	System	Paper feeding			9319		Memory 2 Paper size (bypass feeding/non-standard type) feeding/widthwise direction	148/100	148~432/100~297	SYS	Registers the paper size of bypass feed (non-standard type) into [MEMORY 2].	10	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Paper feeding			9320		Memory 3 Paper size (bypass feeding/non-standard type) feeding/widthwise direction	148/100	148~432/1 00~297	SYS	Registers the paper size of bypass feed (non-standard type) into [MEMORY 3].	10	
08	Setting mode	System	Paper feeding			9321		Memory 4 Paper size (bypass feeding/non-standard type) feeding/widthwise direction	148/100	148~432/1 00~297	SYS	Registers the paper size of bypass feed (non-standard type) into [MEMORY 4].	10	
08	Setting mode	System	User interface	Sound		9325		Key touch sound of control panel	1	0~1	SYS	0: OFF 1: ON	1	Yes
08	Setting mode	System	User interface	Screen setting		9326		Size indicator	0	0~1	SYS	0: Invalid 1: Valid	1	Yes
08	Setting mode	System	General			9327		Setting of banner advertising display	0	0~1	SYS	Sets whether or not displaying the banner advertising. The setting contents of 08-9328 and 08-9329 are displayed at the time display section on the right top of the screen. When both are set, each content is displayed alternately. 0: Not displayed 1: Displayed	1	
08	Setting mode	System	General			9328		Banner advertising display 1	-	-	SYS	Maximum 27 letters (one-byte character)	11	
08	Setting mode	System	General			9329		Banner advertising display 2	-	-	SYS	Maximum 27 letters (one-byte character)	11	
08	Setting mode	System	General			9330		Display of [BANNER MESSAGE] button	0	0~1	SYS	0: Not displayed 1: Displayed * This button enables the entry of "Banner advertising display 1 (08-9328)" and "Banner advertising display 2 (08-9329)" on the control panel.	1	
08	Setting mode	System	Network			9331		Local I/F time-out period	6	1~50	SYS	Sets the period of time when the job is judged as completed in local I/F printing (USB or parallel). 1: 1.0 sec. 2: 1.5 sec. - 50: 25.5 sec. (in increments of 0.5 sec.)	1	
08	Setting mode	System	User interface			9332		Original counter display	MJD: 2 Other: 0	0,2,4	SYS	Sets whether the original counter is displayed or not. 0: Not displayed 2: Displayed 4: Displayed (Double sized original is counted as 2.)	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			9334		PCL line feed code setting	0	0~3	SYS	Sets the PCL line feed code.0: Automatic setting 1: CR=CR, LF=LF 2: CR=CR+LF, LF=LF 3: CR=CR, LF=CR+LF	1	
08	Setting mode	System	Feeding system/Pa per transport			9335		Feeding direction setting of envelope	0	0~1	SYS	Sets the feeding direction of envelopes. 0: Envelope flap comes on its trailing edge (front side of the equipment) 1: Envelope flap comes on its leading edge (rear side of the equipment)	1	Yes
08	Setting mode	System	Paper feeding			9336		Default setting of drawers(Printer/BOX)	1	1~5	SYS	1: LCF 2: Upper drawer 3: Lower drawer 4: PFP upper drawer 5: PFP lower drawer	1	
08	Setting mode	System	User interface			9337		Restriction of the template function with the administrator privilege	0	0~1	SYS	Selects the restriction of the template function usage setting. 0: No restriction 1: Only available with the administrator privilege.	1	
08	Setting mode	System	Network			9338		Raw printing job(Paper feeding drawer)	0	0~5	SYS	0: AUTO1: Upper drawer 2: Lower drawer 3: PFP upper drawer 4: PFP lower drawer 5: LCF	1	
08	Setting mode	System	Network			9339		Raw printing job(PCL symbol set)	0	0~39	SYS	0: Roman-8 1: ISO 8859/1 Latin 1 2: ISO 8859/2 Latin 2 3: ISO 8859/9 Latin 5 4: PC-8,Code Page 437 5: PC-8 D/N, Danish/ Norwegian 6: PC-850,Multilingual 7: PC-852, Latin2 8: PC-8 Turkish 9: Windows 3.1 Latin 1 10: Windows 3.1 Latin 2 11: Windows 3.1 Latin 5 12: DeskTop 13: PS Text 14: Ventura International 15: Ventura US 16: Microsoft Publishing 17: Math-8 18: PS Math 19: Ventura Math 20: Pi Font 21: Legal 22: ISO 4: United Kingdom 23: ISO 6: ASCII 24: ISO 11 25: ISO 15: Italian 26: ISO 17 27: ISO 21: German 28: ISO 60: Danish/Norwegian 29: ISO 69: French 30: Windows 3.0 Latin 1 31: MC Text 32: PC Cyrillic 33: ITC Zapf Dingbats 34: ISO 8859/10 Latin 6 35: PC-775 36: PC-1004 37: Symbol 38: Windows Baltic 39: Wingdings	1	
08	Setting mode	System	User interface	Binding margin setting		9341	0	Left binding front (Right binding back)	7	0-100	SYS	Sets the binding margin displayed as default on the setting screen for the top/bottom/left/right binding function when copying. (Unit: mm)	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface	Binding margin setting		9341	1	Left binding back (Right binding front)	7	0-100	SYS	Sets the binding margin displayed as default on the setting screen for the top/bottom/left/right binding function when copying. (Unit: mm)	4	
08	Setting mode	System	User interface	Binding margin setting		9341	2	Top binding front (Bottom binding back)	7	0-100	SYS	Sets the binding margin displayed as default on the setting screen for the top/bottom/left/right binding function when copying. (Unit: mm)	4	
08	Setting mode	System	User interface	Binding margin setting		9341	3	Top binding back (Bottom binding front)	7	0-100	SYS	Sets the binding margin displayed as default on the setting screen for the top/bottom/left/right binding function when copying. (Unit: mm)	4	
08	Setting mode	System	User interface	Binding margin setting		9342		Book binding	14	0~30	SYS	Sets the binding margin displayed as default on the setting screen for the book binding function when copying.	1	
08	Setting mode	Printer	Paper feeding	Automatic change of paper source	Auto	9343		Printing/BOX printing	1	1~2	SYS	1: Only in the same paper direction 2: In both the same and different paper directions	1	Yes
08	Setting mode	System	Network			9344		Restriction mode of network printing	0	0~3	SYS	0: Normal mode 1: Mode for Private Print 2: Mode for Hold Print 3: Mode for Private / Hold Print * When "1" (valid) is set for the code 08-9264 "User data department management", the setting value of this code is automatically set to "2" except for the case "0" is set for this code. Only "0" and "2" are selectable for this code unless "0" (invalid) is set for the code 08-9264.	1	
08	Setting mode	System	User interface			9352		Display of paper size setting by installation operation of drawers	Refer to contents	0~1	SYS	0: Not displayed 1: Displayed <Default value> JPD/MJD: 0 Other: 1	1	
08	Setting mode	System	General			9357		Enhanced bold for PCL6	0	0~1	SYS	0:OFF 1:ON	1	
08	Setting mode	System	User interface	Paper Feed		9359		Printing resume after jam releasing	1	0~1	SYS	0: Auto resume 1: Resume by users	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface			9379		HD data scramble function setting	0	0~2	SYS	0: Encryption invalid 1: Encryption valid (Security priority) Encrypts all of the user's data. 2: Encryption valid (Performance priority) Encrypts the user's data except the files temporarily created and deleted in the image processing such as copying or printing.	1	
08	Setting mode	System	User interface			9380		Converting 1-byte katakana into 2 byte-katakana at e-mail transmission	0	0~1	SYS	0: Non-conversion 1: With conversion	1	
08	Setting mode	System	User interface	Default setting of filing format	E-mail	9384		Color/ACS	1	0~8	SYS	0: TIFF (Multi) 1: PDF (Multi) 2: JPG 3: TIFF (Single) 4: PDF (Single) 5: SLIM PDF (Multi) 6: SLIM PDF (Single) 7: XPS (Multi) 8: XPS (Single)	1	Yes
08	Setting mode	System	Network	Notification of scan job		9386	0	When job completed	0	0~1	SYS	Sets the notification method of scan job completion. 0: Invalid 1: Valid	4	
08	Setting mode	System	Network	Notification of scan job		9386	1	On error	0	0~1	SYS	Sets the notification method of scan job completion. 0: Invalid 1: Valid	4	
08	Setting mode	System	Network			9387		File name format of "Save as file" and Email transmission	0	0~6	SYS	Sets the naming method of the file of "Save as file" and Email transmission. 0: [FileName]-[Data]-[Page] 1: [FileName]-[Page]-[Data] 2: [Data]-[FileName]-[Page] 3: [Data]-[Page]-[FileName] 4: [Page]-[FileName]-[Data] 5: [Page]-[Data]-[FileName] 6: [HostName]_[Data]-[Page]	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			9388		Date display format of the file name of "Save as file" and Email transmission	0	0~5	SYS	Sets the data display format of the file of "Save as file" and Email transmission. 0: [YYYY][MM][DD] [HH][mm][SS] 1: [YY][MM][DD] [HH][mm][SS] 2: [YYYY][MM][DD] 3: [YY][MM][DD] 4: [HH][mm][SS] 5: [YYYY][MM][DD] [HH][mm][SS][mm0] The order of [YY], [MM] and [DD] varies depending on the setting of the code 08-9102 (Data display format).	1	
08	Setting mode	System	Network			9389		Single page data saving directory at "Save as file"	0	0~1	SYS	Sets the directory where the file of "Save as file" is saved. 0: Save it under a subfolder 1: Save it without creating a subfolder	1	
08	Setting mode	System	Network			9390		Page number display format of the file of "Save as file" and Email transmission	4	3~6	SYS	Sets the digit of a page number attached on the file. 3-6: 3-6 digits	1	
08	Setting mode	System	Network			9391		Extension (suffix) format of the file of "Save as file"	3	3~6	SYS	Sets the extension digits of the file to be saved. 3: Auto 4: 4 digits 5: 5 digits 6: 6 digits	1	
08	Setting mode	System	Network			9394		Single-page option for storing File and sending Email	0	0~1	SYS	0: Sets 1 page as 1 file 1: Makes a file based on the original	1	
08	Setting mode	System	Network			9397		Execution of user authentication when the user ID is not entered	2	0~2	SYS	0: Forcible execution 1: Execution impossible (pooled in the invalid queue) 2: Forcible deletion	1	
08	Setting mode	System	User interface	Card reader	LDAP authentication	9398		LDAP attribute name settings 1	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting mode	System	Network			9399		Role Based Access DAP search index	0	Refer to contents	SYS	This code is used to specify the ID for the LDAP server to implement Role-Based Access Control. <Acceptable value> 0~4294967295	5	
08	Setting mode	System	Network			9403		Communication speed and settings of Ethernet	1	Refer to contents	NIC	1: Auto(100MBPS) 3: 10MBPS Full Duplex 5: 100MBPS Full Duplex 6: Auto(1000MBPS) 7: 1000MBPS Full Duplex	12	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			9406		Method for acquiring IP address	2	1~3	NIC	1: Static IP address 2: Dynamic IP address (DHCP) 3: Dynamic IP address (DHCP) without AutoIP	12	
08	Setting mode	System	Network	Address		9408		IP address	Refer to contents	Refer to contents	NIC	<Default value>\n0.0.0.0\n<Acceptable value>\n0.0.0.0-255.255.255.255	12	Yes
08	Setting mode	System	Network	Address		9409		Subnet mask	Refer to contents	Refer to contents	NIC	<Default value>\n0.0.0.0\n<Acceptable value>\n0.0.0.0-255.255.255.255	12	Yes
08	Setting mode	System	Network	Address		9410		Gateway	Refer to contents	Refer to contents	NIC	<Default value>\n0.0.0.0\n<Acceptable value>\n0.0.0.0-255.255.255.255	12	Yes
08	Setting mode	System	Network			9411		Availability of IPX/SPX	2	1~2	NIC	1: Available 2: Not available	12	
08	Setting mode	System	Network			9414		Availability of AppleTalk	2	1~2	NIC	1: Available 2: Not available	12	
08	Setting mode	System	Network			9416		Availability of LDAP	1	1~2	NIC	1: Available 2: Not available	12	
08	Setting mode	System	Network	DNS		9417		Availability of DNS	1	1~2	NIC	1: Available 2: Not available	12	Yes
08	Setting mode	System	Network	Address		9418		IP address to DNS server (Primary)	Refer to contents	Refer to contents	NIC	000.000.000.000-255.255.255.255\n<Default value>\n000.000.000.000\n<Acceptable value>\n0.0.0.0~255.255.255.255	12	Yes
08	Setting mode	System	Network	Address		9419		IP address to DNS server (Secondary)	Refer to contents	Refer to contents	NIC	000.000.000.000-255.255.255.255\n<Default value>\n000.000.000.000\n<Acceptable value>\n0.0.0.0~255.255.255.255	12	Yes
08	Setting mode	System	Network			9421		Availability of SLP	1	1~2	NIC	Sets the availability of SLP on NetWare.\n1: Enabled 2: Disabled	12	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			9426		Availability of Bindery	1	1~2	NIC	1: Available 2: Not available	12	
08	Setting mode	System	Network			9427		Availability of NDS	1	1~2	NIC	1: Available 2: Not available	12	
08	Setting mode	System	Network			9430		Availability of HTTP server	1	1~2	NIC	1: Available 2: Not available	12	
08	Setting mode	System	Network			9437		Availability of SMTP client	1	1~2	NIC	1: Available 2: Not available	12	
08	Setting mode	System	Network			9440		Availability of SMTP server	1	1~2	UTY	1: Available 2: Not available	12	
08	Setting mode	System	Network			9446		Availability of POP3 clients	1	1~2	NIC	1: Available 2: Not available	12	
08	Setting mode	System	Network			9459		Availability of FTP server	1	1~2	NIC	1: Available 2: Not available	12	
08	Setting mode	System	Network			9463		MIB function	1	1~2	NIC	1: Valid 2: Invalid	12	
08	Setting mode	System	Network			9473		Availability of Raw/TCP	1	1~2	NIC	1: Valid 2: Invalid	12	
08	Setting mode	System	Network			9475		Availability of LPD client	1	1~2	NIC	1: Valid 2: Invalid	12	
08	Setting mode	System	Network			9478		Availability of IPP	1	1~2	NIC	1: Valid 2: Invalid	12	
08	Setting mode	System	Network			9481		IPP printer name	MFPserial	-	NIC	Maximum 127 letters The Network-related serial number of the equipment appears on "serial"	12	
08	Setting mode	System	Network			9486		IPP printer "Make and Model"	mfp model name	-	NIC	Maximum 127 letters	12	
08	Setting mode	System	Network			9487		IPP printer information (more) MFGR	-	-	NIC	Maximum 127 letters	12	
08	Setting mode	System	Network			9488		IPP message from operator	-	-	NIC	Maximum 127 letters	12	
08	Setting mode	System	Network			9489		Availability of FTP print	1	1~2	NIC	1: Available 2: Not available	12	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			9499		Page number limitation for printing text of received E-mail	5	1~99	SYS		1	
08	Setting mode	System	Network			9505		Bonjour setting	1	1~2	NIC	1: Valid 2: Invalid	12	
08	Setting mode	System	Network			9515		Windows domain No.1 of user authentication	-	-	UTY	Maximum 128 letters	12	
08	Setting mode	System	Network			9516		PDC (Primary Domain Controller) name	-	-	UTY	Maximum 128 letters	12	
08	Setting mode	System	Network			9517		BDC (Backup Domain Controller) name	-	-	UTY	Maximum 128 letters	12	
08	Setting mode	System	Network	Address		9525		Display of MAC address	-	-	-	(**:**:**:**:**:**) The address is displayed as above. 6-byte data is divided by colon.	2	Yes
08	Setting mode	System	Network			9548		SSL setting HTTP server OFF/ON setting	2	1~2	-	1: Enabled 2: Disabled	12	
08	Setting mode	System	Network			9550		SSL setting IPP server OFF/ON setting	2	1~2	-	1: Enabled 2: Disabled	12	
08	Setting mode	System	Network			9552		SSL setting SSL ftp server OFF/ON	2	1~2	-	OFF/ON 1: Valid2: Invalid	12	
08	Setting mode	System	Network			9556		SSL setting SSL POP3 Client OFF/ON	2	1~3	-	OFF/ON 1: Valid 2: Invalid 3: Use imported certificate	12	
08	Setting mode	System	Network			9563		IP Conflict Detect	1	1~2	-	OFF/ON 1: Valid 2: Invalid	12	
08	Setting mode	System	Network			9564		SNTP Enable	2	1~2	-	OFF/ON 1: Valid 2: Invalid	12	
08	Setting mode	System	Network	Enabling server's IP address acquired by DHCP		9580		Domain Name Server option (6)	1	1~2	-	1: Enabled 2: Disabled * This value is used only when DHCP is enabled.	12	
08	Setting mode	System	Network	Enabling server's IP address acquired by DHCP		9581		NetBIOS over TCP/IP Name Server option (44) = Primary and Secondary Wins NAME	1	1~2	-	1: Enabled 2: Disabled * This value is used only when DHCP is enabled	12	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network	Enabling server's IP address acquired by DHCP		9584		SMTP Server Option (69) Simple Mail Server Address	2	1~2	-	1: Enabled 2: Disabled * This value is used only when DHCP is enabled.	12	
08	Setting mode	System	Network	Enabling server's IP address acquired by DHCP		9585		POP3 Server Option (70) Post Office Server Address	2	1~2	-	1: Enabled 2: Disabled * This value is used only when DHCP is enabled.	12	
08	Setting mode	System	Network	Enabling server's IP address acquired by DHCP		9587		SNTP Server Option (42) NTP Server Address	2	1~2	-	1: Enabled 2: Disabled * This value is used only when DHCP is enabled.	12	
08	Setting Mode	System	Network			9599		Samba server ON/OFF setting	1	1-4	NIC	1: Samba enabled 2: Samba disabled 3: Print Share disabled 4: File Share disabled	12	
08	Setting mode	System	Maintenan ce	General		9601		Equipment number (serial number) display	0	9 digits	SYS	This code can be also keyed in from the adjustment mode (05-9043). 9 digits	11	Yes
08	Setting mode	System	Maintenan ce			9602		Dealer's name	-	-	SYS	Maximum 100 letters Needed at initial registration	11	
08	Setting mode	System	Maintenan ce	Remote-controlled service	General	9603		Login name	-	-	SYS	Maximum 20 letters Needed at initial registration	11	Yes
08	Setting mode	System	Maintenan ce	Remote-controlled service	Call /Display function	9604		Display set of [Service Notification] button	Refer to contents	0~1	SYS	0: Not displayed 1: displayed <Default value> NAD: 1 MJD: 1 Other: 0	1	Yes
08	Setting mode	System	Maintenan ce (Remote)			9605		Sending error history of equipment	0	0~1	SYS	0: Invalid 1: Valid	1	
08	Setting mode	System	Maintenan ce (Remote)			9606		Setting total counter transmission interval	-	-	SYS	(Hour/Hour/Minute/Minute)	1	
08	Setting mode	System	Maintenan ce (Remote)			9607		Destination E-mail address 2	-	-	SYS	Maximum 192 letters	11	
08	Setting mode	System	Maintenan ce (Remote)			9608		Destination E-mail address 3	-	-	SYS	Maximum 192 letters	11	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Maintenance			9610		Remote-controlled service polling day selection Day-1	0	0~31	SYS	0: OFF 1 to 31: 1st to 31st of a month	1	
08	Setting mode	System	Maintenance			9611		Remote-controlled service polling day selection Day-2	0	0~31	SYS	0: OFF 1 to 31: 1st to 31st of a month	1	
08	Setting mode	System	Maintenance			9612		Remote-controlled service polling day selection Day-3	0	0~31	SYS	0: OFF 1 to 31: 1st to 31st of a month	1	
08	Setting mode	System	Maintenance			9613		Remote-controlled service polling day selection Day-4	0	0~31	SYS	0: OFF 1 to 31: 1st to 31st of a month	1	
08	Setting Mode	System	Maintenance	RDMS	Remote-controlled service polling day	9614		Sunday	1	0-1	SYS	0: Invalid 1: Valid	1	Yes
08	Setting Mode	System	Maintenance	RDMS	Remote-controlled service polling day	9615		Monday	1	0-1	SYS	0: Invalid 1: Valid	1	Yes
08	Setting Mode	System	Maintenance	RDMS	Remote-controlled service polling day	9616		Tuesday	1	0-1	SYS	0: Invalid 1: Valid	1	Yes
08	Setting Mode	System	Maintenance	RDMS	Remote-controlled service polling day	9617		Wednesday	1	0-1	SYS	0: Invalid 1: Valid	1	Yes
08	Setting Mode	System	Maintenance	RDMS	Remote-controlled service polling day	9618		Thursday	1	0-1	SYS	0: Invalid 1: Valid	1	Yes
08	Setting Mode	System	Maintenance	RDMS	Remote-controlled service polling day	9619		Friday	1	0-1	SYS	0: Invalid 1: Valid	1	Yes
08	Setting Mode	System	Maintenance	RDMS	Remote-controlled service polling day	9620		Saturday	1	0-1	SYS	0: Invalid 1: Valid	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Maintenan ce			9624		Information of supplies setting of toner cartridge K	0	0~1	SYS	0: Invalid 1: Valid	1	
08	Setting mode	System	Maintenan ce	Remote-controlled service	Remote-controlled service polling	9626		End of month	0	0-1	SYS	0: Invalid 1: Valid	1	
08	Setting mode	System	Network			9627		Sending mail text of InternetFAX	1	0-1	SYS	0: Invalid (Not sending the mail text) 1: Valid (Sending the mail text)	1	
08	Setting mode	System	Network			9628		From Name Creation setting in SMTP authentication	0	0-2	SYS	0: Not edited 1: Account name of FROM ADDRESS and Device name 2: LDAP searching	1	
08	Setting mode	System	Wireless LAN			9649		Wireless LAN supplicant Wireless LAN setting	2	1~2	NIC	This setting is whether the wireless LAN connection is enabled or disabled. 1: Enabled 2: Disabled	12	
08	Setting mode	System	Bluetooth			9680		Bluetooth ON/OFF setting	1	0~1	SYS	0: OFF 1: ON	1	
08	Setting mode	System	Bluetooth			9681		Bluetooth Device name	MFPseri al	-	SYS	Maximum 32 letters	11	
08	Setting mode	System	Bluetooth			9682		Bluetooth Discovery	1	0~1	SYS	0: Not allowed 1: Allowed	1	
08	Setting mode	System	Bluetooth			9683		Bluetooth Security	1	0~1	SYS	0: Security function OFF 1: Security function ON	1	
08	Setting mode	System	Bluetooth			9684		Bluetooth PIN	0000	-	SYS	Maximum 8 digits (8-digit sequence) This setting is valid only when the bluetooth security function is ON.	11	
08	Setting mode	System	Bluetooth			9685		Bluetooth Data encryption	1	0~1	SYS	0: Not encrypted 1: Encrypted This setting is valid only when the bluetooth security function is ON.	1	
08	Setting mode	System	Network	Enabling server's IP address acquired by DHCP		9694		DNS domain name Option (15) DNS domain name of the client	1	1~2	-	1: Enabled 2: Disabled * This value is used only when DHCP is enabled.	12	
08	Setting mode	System	Maintenan ce	General		9700		Service technician telephone number	0	32 digits	SYS	A telephone number can be entered up to 32 digits. Use the [Pause] button to enter a hyphen (-).	11	Yes
08	Setting mode	System	User interface			9702		Automatic calibration disclosure level	1	0-2	SYS	Sets the disclosing level of automatic calibration. 0: Service technician 1: Administrator 2: User	1	
08	Setting mode	Counter	Maintenan ce			9703		Error history display	-	-	SYS	Displaying of the latest 20 errors data	2	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			9709		Default data saving directory of "Scan to File"	0	0~2	SYS	0: Local directory 1: REMOTE 1 2: REMOTE 2	1	
08	Setting mode	System	Maintenance	Remote-controlled service	General	9710		Remote-controlled service function	2	0~2	SYS	0: Valid (Remote-controlled server) 1: Valid (L2) 2: Invalid	1	Yes
08	Setting mode	System	Maintenance	Remote-controlled service	HTTP	9711		Remote-controlled service URL setting	NULL	-	SYS	Maximum 256 Bytes	11	Yes
08	Setting mode	System	Maintenance	Remote-controlled service	HTTP	9715		Initially-registered server URL setting	Refer to contents	-	SYS	Maximum 256 letters <Default value> https://device.mfp-support.com:443/device/firstregist.ashx	11	Yes
08	Setting mode	System	Maintenance	Short time interval of emergency mode		9718		Recovery time setting	24	1~48	SYS	Sets the time interval to recover from the emergency mode to the normal mode. (Unit: Hour)	1	
08	Setting mode	System	Maintenance	Short time interval of emergency mode		9719		Interval setting	60	30~360	SYS	(Unit: Minute)	1	
08	Setting mode	System	Maintenance	Remote-controlled service	General	9723		Periodical polling timing	1700	0~2359	SYS	0 (0:00) to 2359 (23:59)	1	Yes
08	Setting mode	System	Maintenance	Remote-controlled service	General	9724		Writing data of self-diagnostic code	0	0~1	SYS	0: Prohibited 1: Accepted	1	Yes
08	Setting mode	System	Maintenance	Remote-controlled service	General	9726		Remote-service initial registration	0	0~3	SYS	0: OFF 1: Start 2: Only certification is scanned 3: RDMS communication starts	1	Yes
08	Setting mode	System	Maintenance	Remote-controlled service	General	9727		Remote-controlled service tentative password	NULL	-	SYS	Maximum 10 letters	11	Yes
08	Setting mode	System	Maintenance	Remote-controlled service	General	9729		Status of remote-service initial regist	0	0~1	SYS	0: Not registered 1: Registered	2	Yes
08	Setting Mode	System	Maintenance	RDMS	Call /Display function	9730		Service center call function	1	0-2	SYS	0: OFF 1: Notifies all service calls 2: Notifies all but paper jams	1	Yes
08	Setting mode	System	Maintenance	Remote-controlled service	HTTP	9732		Service center call HTTP server URL setting	NULL	-	SYS	Maximum 256 letters	11	Yes
08	Setting mode	System	Counter			9736		Validity of interrupt copying when external counters are installed	0	0~1	SYS	0: Invalid1: Valid	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Maintenan ce	Remote-controlled service	Call /Display function	9739		Toner-end notification	0	0~2	SYS	0: RDMS toner empty notified immediately 1: RDMS toner empty notified once a day 2: RDMS toner empty not notified	1	Yes
08	Setting mode	System	Maintenan ce	Remote-controlled service	HTTP	9740		HTTP proxy setting	1	0~1	SYS	0: Valid 1: Invalid	1	Yes
08	Setting mode	System	Maintenan ce	Remote-controlled service	HTTP	9741		HTTP proxy IP address setting	Refer to contents	-	SYS	Input IP address or FQDN. <Default value> 0.0.0.0	11	Yes
08	Setting mode	System	Maintenan ce	Remote-controlled service	HTTP	9742		HTTP proxy port number setting	0	0~65535	SYS		1	Yes
08	Setting mode	System	Maintenan ce	Remote-controlled service	HTTP	9743		HTTP proxy ID setting	NULL	-	SYS	Maximum 30 letters	11	Yes
08	Setting mode	System	Maintenan ce	Remote-controlled service	HTTP	9744		HTTP proxy password setting	NULL	-	SYS	Maximum 30 letters	11	Yes
08	Setting mode	System	Maintenan ce	Remote-controlled service	HTTP	9745		HTTP proxy panel display	1	0~1	SYS	0: Valid 1: Invalid	1	Yes
08	Setting mode	System	Network			9746		802.1X/Dynamic WEP selecting button display	1	0~1	SYS	Switches whether a selecting button for Security mode 802.1X/Dynamic WEP is displayed or not. 0: Not displayed 1: Displayed	1	
08	Setting mode	System	Network			9749		WIA Scan Driver	1	1~2	NIC	Selects WIA Scan Driver. 1: TTEC 2: Microsoft	12	
08	Setting mode	System	Maintenan ce			9750		Automatic ordering function of supplies	3	0~3	SYS	0: Ordered by FAX 1: Ordered by E-mail 2: Ordered by HTTP 3: OFF	1	
08	Setting mode	System	Maintenan ce			9751		Automatic ordering function of supplies FAX number	-		SYS	Maximum 32 digits Enter hyphen with the [Pause] button	11	
08	Setting mode	System	Maintenan ce			9752		Automatic ordering function of supplies E-mail address	-		SYS	Maximum 192 letters List: 256 digits	11	
08	Setting mode	System	Maintenan ce (Remote)			9756		Automatic ordering function of supplies User's name	-		SYS	Maximum 50 letters	11	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Maintenance (Remote)			9757		Automatic ordering function of supplies User's telephone number	-		SYS	Maximum 32 digits Enter hyphen with the [Pause] button	11	
08	Setting mode	System	Maintenance (Remote)			9758		Automatic ordering function of supplies User's E-mail address	-		SYS	Maximum 192 letters List: 256 digits	11	
08	Setting mode	System	Maintenance (Remote)			9759		Automatic ordering function of supplies User's address	-		SYS	Maximum 100 letters	11	
08	Setting mode	System	Maintenance (Remote)			9760		Automatic ordering function of supplies Service number	-		SYS	Maximum 5 digits	11	
08	Setting mode	System	Maintenance (Remote)			9761		Automatic ordering function of supplies Service technician's name	-		SYS	Maximum 50 letters	11	
08	Setting mode	System	Maintenance (Remote)			9762		Automatic ordering function of supplies Service technician's telephone number	-		SYS	Maximum 32 digits Enter hyphen with the [Pause] button	11	
08	Setting mode	System	Maintenance (Remote)			9763		Automatic ordering function of supplies Service technician's E-mail address	-		SYS	Maximum 192 letters List: 256 digits	11	
08	Setting mode	System	Maintenance (Remote)			9764		Automatic ordering function of supplies Supplier's name	-		SYS	Maximum 50 letters	11	
08	Setting mode	System	Maintenance (Remote)			9765		Automatic ordering function of supplies Supplier's address	-		SYS	Maximum 100 letters	11	
08	Setting mode	System	Maintenance (Remote)			9766		Automatic ordering function of supplies Notes	-		SYS	Maximum 128 letters	11	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Maintenance (Remote)			9776		Information about supplies Part number of toner cartridge	-		SYS	Maximum 20 digits	11	
08	Setting mode	System	Maintenance (Remote)			9777		Information about supplies Order quantity of toner cartridge	1	1~99	SYS		1	
08	Setting mode	System	Maintenance (Remote)			9778		Information about supplies Condition number of toner cartridge	1	1~99	SYS		1	
08	Setting mode	System	Maintenance	Remote-controlled service	Call /Display function	9783		Automatic supply ordering display	Refer to contents	0~2	SYS	0: Valid (FAX/Internet FAX) 1: Valid (FAX/Internet FAX/HTTP) 2: Invalid <Default value> NAD: 0 Others: 2	1	Yes
08	Setting mode	System	Maintenance (Remote)			9784		Counter notification Remote FAX setting	-		SYS	Maximum 32 digits Enter hyphen with the [PAUSE] button.	11	
08	Setting mode	System	General			9787		Suspend when quota is empty	0	0-1	SYS	Sets whether the process is suspended immediately or suspended after the job is completed if quota is used up. 0: Suspended immediately 1: Suspended after the job is finished	1	
08	Setting mode	System	Maintenance			9788		Service call checking period setting	6	0~12	SYS	0: No checking period specified (= Calls service technician immediately) 1: 10 minutes 2: 30 minutes 3: 1 hour 4: 6 hours 5: 12 hours 6: 24 hours 7: 48 hours 8: 7 days 9: 1 month 10: 1 year 11: 5 years 12: Not limited (= Calls service technician if such error has occurred in the past even once or more)	1	
08	Setting mode	System	Maintenance (Remote)			9793		Service Notification setting	0	0~2	SYS	Enables to set up to 3 E-mail addresses to be sent. (08-9793, 9794, 9795) 0: Invalid 1: Valid (E-mail) 2: Valid (FAX)	1	
08	Setting mode	System	Maintenance (Remote)			9794		Destination E-mail address 1	-		SYS	Maximum 192 letters	11	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Maintenance (Remote)			9795		Total counter information transmission setting	0	0~1	SYS	0: Invalid 1: Valid	1	
08	Setting mode	System	Maintenance (Remote)			9796		Total counter transmission date setting	0	0~31	SYS	0 to 31	1	
08	Setting mode	System	Maintenance (Remote)			9797		PM counter notification setting	0	0~1	SYS	0: Invalid 1: Valid	1	
08	Setting mode	System	Network			9798		Temporary communication password setting	99999	-	SYS	Sets a temporary communication password. The password can be entered in alphanumeric characters (A to Z, a to z, 0 to 9) up to 10 digits. The entered password is displayed with "*" on the touch panel and the self-diagnostic lists. (Maximum 10 digits, minimum 5 digits)	11	
08	Setting mode	System	General			9799		Local authentication mode switchover	0	0~1	SYS	Sets the authentication mode when "0: (Internal authentication)" is selected in the code 08-9293. 0: Card ID differs from the User ID 1: Card ID is the same as the User ID	1	
08	Setting mode	System	Process			9804		Forcible mode change in toner empty status	1	0~2	SYS	0: SLEEP MODE 1: AUTO POWER SAVE 2: READY	1	
08	Setting mode	System	Laser			9805		Polygonal motor standby rotation Shift waiting time at job end	3	0~9	SYS	0: 0 sec. (current setting) (Polygonal motor ready rotation at job end) 1 to 9:Setting value x 5sec.	1	
08	Setting mode	System	User interface	Interruption of stapling operation (no staple)		9810	0	Copying	1	0~1	SYS	0: Continues printing by switching sort setting 1: Interrupts printing	4	
08	Setting mode	System	User interface	Interruption of stapling operation (no staple)		9810	1	Printing / BOX printing	0	0~1	SYS	0: Continues printing by switching sort setting 1: Interrupts printing	4	
08	Setting mode	System	Finisher	Stapling setting Maximum number of sheets acceptable exceeding upper limit / Long size		9811	0	Plain/Recycled	0	-50~50	SYS	-50 to 50	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Finisher	Stapling setting Maximum number of sheets acceptable exceeding upper limit / Long size		9811	1	Thick1	0	-50~50	SYS	-50 to 50	4	
08	Setting mode	System	Finisher	Stapling setting Maximum number of sheets acceptable exceeding upper limit / Long size		9811	2	Thick2	0	-50~50	SYS	-50 to 50	4	
08	Setting mode	System	Finisher	Stapling setting Maximum number of sheets acceptable exceeding upper limit / Long size		9811	3	Thick3	0	-50~50	SYS	-50 to 50	4	
08	Setting mode	System	General			9816		Addition of the page number to the multi-page file name of File	0	0~1	SYS	Only when job is executed with TimeStamp enabled for file storage, page number is added with the format set at 08-9387. 0: Invalid (Page number not added) 1: Valid (Page number added)	1	
08	Setting mode	System	General			9817		Maximum number of decimals in extension fields	2	0~6	SYS	0: 0 digit 1: 1 digit 2: 2 digits 3: 3 digits 4: 4 digits 5: 5 digits 6: 6 digits	1	
08	Setting mode	System	General			9818		Default saving/attachment files of "File/Email"	0	0~1	SYS	0: DOCYYMMDD 1: NetBios name	1	
08	Setting mode	System	User interface	Off Device Customization Architecture		9819		STAGE SSL	0	0-1	SYS	Sets whether SSL communication is enabled or disabled for remote scanning. 0: Disabled 1: Enabled	1	
08	Setting mode	System	User interface	Off Device Customization Architecture		9820		STAGE I/F	1	0-1	SYS	Sets whether interface is enabled or disabled for remote scanning. 0: Disabled 1: Enabled	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface	Off Device Customization Architecture		9821		Port number	49629	0-65535	SYS	Sets a port number for the remote scanning.	1	
08	Setting mode	System	User interface	Off Device Customization Architecture		9822		SSL port number	49630	0-65535	SYS	Sets an SSL port number for remote scanning using SSL communication.	1	
08	Setting mode	System	Network			9823		User name and password at user authentication or "Save as file"	0	0~2	SYS	0: User name and password of the device 1: User name and password at the user authentication (Template registration information comes first when a template is retrieved.) 2: User name and password at the user authentication (User information of the authentication comes first when a template is retrieved.)	1	
08	Setting mode	System	Image			9825		Image quality of the black part in the ACS mode	0	0~1	SYS	0: Black 1: Gray scale	1	
08	Setting mode	System	General			9829		Department management limitation setting	0	0~1	SYS	Decide the default limitation setting when the new department code is created. 0: No limit 1: Limited	1	
08	Setting mode	System	Bluetooth			9841		Bluetooth BIP Paper type	0	0~3	SYS	0: Fit page 1: 1/2 size 2: 1/4 size 3: 1/8 size	1	
08	Setting mode	System	Bluetooth			9846		Bluetooth BIP Paper size	Refer to contents	0~13	SYS	0: Ledger 1: Legal 2: Letter 3: Computer 4: Statement 5: A3 6: A4 7: A5 9: B4 10: B5 11: Folio 12: Legal13" 13: LetterSquare <Default value> NAD: 2 Others: 6	1	
08	Setting mode	System	Finisher			9847		Hole punching setting	0	0~1	SYS	0: Invalid 1: Valid	1	
08	Setting mode	System	General			9880		Total counter transmission date setting (2)	0	0~31	SYS	0 to 31	1	
08	Setting mode	System	General			9881		Day of total counter data transmission	0	0~127	SYS	1 byte 00000000(0)-01111111(127) From the 2nd bit - Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	General			9883		Hardcopy security printing	0	0~1	SYS	0: Disable1 1: Enable	1	
08	Setting mode	System	Counter			9884		Count switching of hardcopy security printing level 1	0	0~1	SYS	Sets the way of counting for hardcopy security printing. 0: Counted as 1 1: Counted as 2	2	
08	Setting mode	System	Scanning			9886		Decimal point indication for Enhanced Scan Template	Refer to contents	0~1	SYS	0: Comma 1: Period <Default value> MJD: 0 Others: 1	1	
08	Setting mode	System	Scanner			9888		Permission setting for changing the scan parameter when recalling an extension	0	0~1	SYS	0: Prohibited 1: Permitted	1	
08	Setting mode	System	General	Data cloning		9889		Status display for USB cloning	0	0~1	SYS	Acceptance of the usage of the USB data cloning tool 0: Accepted 1: Not accepted	1	Yes
08	Setting mode	System	User interface	Screen setting		9891		Warning message when PM time has come	1	0~1	SYS	0: No warning notification 1: Display warning notification	1	Yes
08	Setting mode	System	General			9894		Calibration chart charging method	0	0-1	SYS	Decides whether the calibration chart printing is charged or not 0: No charge 1: Charge	1	
08	Setting mode	System	Image			9897		Default value setting of background peak adjustment (Black)	5	1~9	SYS	1: -4 2: -3 3: -2 4: -1 5: 0 6: +1 7: +2 8: +3 9: +4	1	
08	Setting mode	System	Image			9898		Default value setting of density in the scan mode (Color)	6	0~11	SYS	0: Auto 1: -5 2: -4 3: -3 4: -2 5: -1 6: 0 7: +1 8: +2 9: +3 10: +4 11: +5	1	
08	Setting mode	System	Image			9899		Default value setting of density in the scan mode (Gray)	6	0~11	SYS	0: Auto 1: -5 2: -4 3: -3 4: -2 5: -1 6: 0 7: +1 8: +2 9: +3 10: +4 11: +5	1	
08	Setting mode	System	Version	System		9900		System software ROM version	-	-	-	T160SYXXXXXX	2	
08	Setting mode	System	Version	Engine		9901		Engine ROM version	-		-	160M-XXX	2	Yes
08	Setting mode	System	Version	Engine		9902		Scanner ROM version	-		-	160S-XXX	2	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Version	Engine		9903		RADF ROM version	-		-	DF-XXXX	2	Yes
08	Setting mode	System	Version	Finisher		9904		Finisher ROM version	-		-	SDL-XXX FIN-XXX	2	Yes
08	Setting mode	System	Version	FAX		9905		Fax board ROM version	-		-	F670-XXX	2	Yes
08	Setting mode	System	Version	HDD		9930		System software OS version	-		-	T160SF0WXXXX	2	Yes
08	Setting mode	System	Network			9933		Domain participation confirmation of printing when LDAP authentication is used	1	0~1	SYS	When LDAP is selected as authentication method for user authentication, checking of domain participation of client computer for print job authentication is set. This function is available only when department management is enabled. 0: Disabled 1: Enabled	1	
08	Setting mode	System	Finisher	Stapling setting Acceptable number of sheets exceeding upper limit / Short size		9937	0	Plain/Recycled	0	-100~100	SYS	-100 to 100	4	
08	Setting mode	System	Finisher	Stapling setting Acceptable number of sheets exceeding upper limit / Short size		9937	1	Thick1	0	-100~100	SYS	-100 to 100	4	
08	Setting mode	System	Finisher	Stapling setting Acceptable number of sheets exceeding upper limit / Short size		9937	2	Thick2	0	-100~100	SYS	-100 to 100	4	
08	Setting mode	System	Finisher	Stapling setting Acceptable number of sheets exceeding upper limit / Short size		9937	3	Thick3	0	-100~100	SYS	-100 to 100	4	
08	Setting mode	System	Finisher	Stapling Acceptable number of sheets exceeding upper limit / Saddle stitch		9938	0	Plain/Recycled	0	-15~15	SYS	-15 to 15	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Finisher	Stapling Acceptable number of sheets exceeding upper limit / Saddle stitch		9938	1	Thick1	0	-15~15	SYS	-15 to 15	4	
08	Setting mode	System	Finisher	Stapling Acceptable number of sheets exceeding upper limit / Saddle stitch		9938	2	Thick2	0	-15~15	SYS	-15 to 15	4	
08	Setting mode	System	Finisher	Stapling Acceptable number of sheets exceeding upper limit / Saddle stitch		9938	3	Thick3	0	-15~15	SYS	-15 to 15	4	
08	Setting mode	System	Version	Finisher		9944		Finisher punch ROM version	-	-	-	PUN-XXX FIN-XXX	2	Yes
08	Setting mode	System	Version			9945		Finisher Converter ROM version	-	-	-	CNV-XXX	2	
08	Setting mode	System	Network	E-mail		9946		Number of Email transmission retries	3	0~14	SYS	The number of times of E-mail communication retry for Scan to E-mail and Internet Fax is set.	1	Yes
08	Setting mode	System	Network	E-mail		9947		E-mail transmission retry interval	1	0~15	SYS	When E-mail transmission retry for Scan to E-mail and Internet Fax is performed, the interval is set. 0 min - 15 min	1	Yes
08	Setting mode	System	General			9954		Control box counter / job list printing operation	0	0-1	SYS	0: Invalid 1: Valid	1	
08	Setting mode	System	User interface			9955		Name of [EXTENSION] button	EXTENS ION		SYS	Sets the name of " EXTENSION" button displayed on the MENU screen. Maximum 10 characters with alphameric characters and symbols.	11	
08	Setting mode	System	Network			9958		Bcc address display ON/OFF setting (Job Log / Job Status)	0	0~1	SYS	Sets whether the Bcc address is displayed or not on the Job Log or Job Status. 0: OFF (Bcc address not displayed) 1: ON (Bcc address displayed)	1	
08	Setting mode	System	Network			9959		Bcc address display ON/OFF setting (Job Notification)	1	0~1	SYS	Sets whether the Bcc address is displayed or not on all the Job Notifications except for the administrator. 0: OFF (Bcc address not displayed) 1: ON (Bcc address displayed)	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	General			9960		Equipment information (SRAM)	Refer to contents	0~2	SYS	Displays the equipment information in SRAM. 0: Not set 1: Destinations other than NAD 2: NAD <Default value> NAD: 2 Others: 1	2	
08	Setting Mode	System	User interface			9963		Display of receiving job on JOB STATUS screen	0	0-1	SYS	This setting is automatically disabled in the high security mode. 0: Disabled 1: Enabled	1	
08	Setting mode	System	User interface	Default mode setting	Default setting (PPC)	9970		Original mode (Black)	0	0~5	SYS	0: Standard 1: Text 2: Photo 3: Not used (non-enterable) 4: Custom 5: Presentation	1	Yes
08	Setting mode	System	General			9971		Image quality density adjustment at power-ON Default setting	0	0~1	SYS	0: Automatic 1: Manual (Center)	1	
08	Setting mode	System	User interface	Blank page judgment Default setting	PPC	9972		Blank page judgment Default setting	0	-3~3	SYS	The larger the value is, the more the paper is judged as a blank page. The smaller the value is, the less the paper is judged as a blank page.	1	
08	Setting mode	System	User interface	Blank page judgment Default setting	SCN	9973		Blank page judgment Default setting	0	-3~3	SYS	The larger the value is, the more the paper is judged as a blank page. The smaller the value is, the less the paper is judged as a blank page.	1	
08	Setting mode	System	User interface	ACS judgment adjustment Default setting	SCN	9975		ACS judgment adjustment Default setting	0	-3~3	SYS	The larger the value is, the more the original is judged as color data. The smaller the value is, the less the original is judged as black data.	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			9980		Address setting for TO/CC/BCC at authentication	0	0-4	SYS	Sets address of TO/CC/BCC when the user authentication and E-mail authentication are enabled. When the value of this code is set to "1", the address specified as From Address is input to TO destination field. TO/CC/BCC field cannot be edited. When the value of this code is set to "2 to 4", the address specified as From Address is input to each field. TO/CC/BCC field can be edited by pressing the TO/CC/BCC button. 0: Disabled 1: Fixed to TO field. 2: Added to TO field. 3: Added to CC field. 4: Added to BCC field.	1	
08	Setting mode	System	Network			9981		Sending body text of email	1	0~1	SYS	Sets whether the job information is output in the body of e-mail when executing e-mail send job. 0: Disabled 1: Enabled	1	
08	Setting mode	System	User interface			9982		Switch of display attribute of [EXTENSION] icon	0	0~1	SYS	0: Touch is invalid when authentication is not completed. 1: Touch is valid when authentication is not completed.	1	
08	Setting mode	System	Maintenance			9984		Document name in printing/scanning	0	0~1	SYS	0: Not confidential name (default) 1: Confidential name	1	
08	Setting Mode	System	User interface			9985		Screen displayed by pressing MENU button	0	0-1	SYS	0: MENU screen 1: EWB screen	1	
08	Setting mode	System	Maintenance			9987		Retention of fax sending settings	0	0~3	SYS	Sets whether the fax sending settings are retained or not. 0: Clears all settings (The authentication screen is displayed if user authentication or department management is enabled.) 1: Clears all 2: Clears only addresses 3: Retains all settings * When the value of this code is set to "3", the value of 08-3847 (FAX mistransmission prevention) is automatically set to "1" (Enabled).	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Process	Developer	Automatic adjustment of auto-toner sensor		2000		Fuser heater ON	-		-	As the value increases, the sensor output increases correspondingly. The value starts changing approx. 2 minutes after this adjustment was started and is automatically set in the range of 2.35 to 2.45 V. * Selection is disable when developer unit is not installed.	17	Yes
05	Adjustment mode	Process	Developer	Correction of auto-toner sensor		2001		Fuser heater ON	141	0~255	M	Corrects the control value of the auto-toner sensor setup in 05-2000. * Selection is disable when developer unit is not installed.	3	Yes
05	Adjustment mode	Process	Developer			2020		Developer bias DC output adjustment	149	0~255	M	As the value increases, the transformer output increases correspondingly. Remove the developer unit and install the adjustment jig to make adjustment.	3	
05	Adjustment mode	Process	Charger			2040		Main charger grid bias output adjustment	Refer to contents	0~255	M	As the value increases, the transformer output increases correspondingly. Remove the developer unit and install the adjustment jig to make adjustment. <Default value> e-STUDIO207L/257/307: 105 e-STUDIO357/457/507: 107	3	
05	Adjustment mode	Process	Transfer			2052		Transfer transformer DC output adjustment (C)	Refer to contents	0~255	M	As the value increases, the transformer output increases correspondingly. Remove the developer unit and install the adjustment jig to make adjustment. <Default value> e-STUDIO207L/257/307: 88 e-STUDIO357/457/507: 117	3	
05	Adjustment mode	Process	Separation			2078		Separation transformer DC output adjustment (C)	52	0~255	M	As the value increases, the transformer output increases correspondingly. Remove the developer unit and install the adjustment jig to make adjustment.	3	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Process	Transfer	Transfer cleaning bias adjustment		2083		Positive	Refer to contents	0~255	M	When the high-voltage transformer is replaced, the transfer cleaning bias needs to be adjusted with this code. The larger the setting value is, the higher the value of the current (more positive) is. This causes a reduction in the toner adhering to the transfer roller and an improvement in the cleaning performance. Perform this adjustment after the process units (cleaner and developer unit) have been removed. When the high-voltage transformer is replaced, adjusting with the following codes needs to be performed in addition to this adjustment. 05-2020, 05-2040, 05-2052, 05-2078 <Default value> e-STUDIO207L/257/307: 63 e-STUDIO357/457/507: 96	3	
05	Adjustment mode	Process	Transfer	Transfer cleaning bias adjustment		2084		Negative	41	0~255	M	When the high-voltage transformer is replaced, the transfer cleaning bias needs to be adjusted with this code. The larger the setting value is, the higher the value of the current (more negative) is. This causes a reduction in the toner adhering to the transfer roller and an improvement in the cleaning performance. Perform this adjustment after the process units (cleaner and developer unit) have been removed. When the high-voltage transformer is replaced, adjusting with the following codes need to be performed in addition to this adjustment. 05-2020, 05-2040, 05-2052, 05-2078	3	
05	Adjustment mode	Process	Transfer	Temperature/humidity sensor		2192		Humidity display	50	0~100	M	Displays the humidity value detected by temperature/humidity sensor.	2	Yes
05	Adjustment mode	Process	Process	Temperature/humidity sensor		2194		Temperature display	25	0~50	M	Displays the humidity value detected by temperature/humidity sensor.	2	Yes
05	Adjustment mode	Process	Charger			2196		Drum thermistor temperature display (K)	25	0~100	M	(Unit: °C)	2	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Process	Image quality control			2250		Laser power adjustment	Refer to contents	0~255	M	When the value increases, the laser output increases correspondingly. <Default value> e-STUDIO207L/257/307: 73 e-STUDIO357/457/507: 124	3	Yes
05	Adjustment mode	Process	Process			2382		Reverse time of the drum	Refer to contents	0~255	M	<Default value> e-STUDIO207L/257/307: 12 e-STUDIO357/457/507: 10	1	
05	Adjustment mode	Process	Toner recycle			2390		Forced performing of idling	-		M	Perform this adjustment before the replacement of the developer material. (The toner is forcibly removed from the cleaner.)	6	Yes
05	Adjustment mode	Scanner	Scanner			3009		Log table switching for RADF copying (color)	2	0~4	SYS	0: Same log table as the one used at copying with original glass 1: Background reproduction - Light 2 2: Background reproduction - Light 1 3: Background reproduction - Dark 1 4: Background reproduction - Dark 2	1	
05	Adjustment mode	Scanner	Scanner	Image location adjustment		3030		Primary scanning direction (scan. section)	115	0~255	SYS	When the value increases by "1", the image shifts by approx. 0.04233 mm toward the front side of the paper.	1	Yes
05	Adjustment mode	Scanner	Scanner	Image location adjustment		3031		Secondary scanning direction(scan.section)	124	90~166	SYS	When the value increases by "1", the image shifts by approx. 0.13013 mm toward the trailing edge of the paper.	1	Yes
05	Adjustment mode	Scanner	Scanner	Reproduction ratio adjustment		3032		Adj. secondary scan.direction	117	63~193	SYS	When the value increases by "1", the reproduction ratio in the secondary scanning direction (vertical to paper feeding direction) increases by approx. 0.025 %.	1	Yes
05	Adjustment mode	Scanner	Scanner	Distortion mode		3033		Distortion mode	-		-	Moves carriages to the adjusting position.	6	Yes
05	Adjustment mode	Scanner	Scanner	Shading position adjustment		3034		Original glass	117	92~165	SYS	0.13013 mm/step	1	
05	Adjustment mode	Scanner	Scanner	Shading position adjustment		3035		RADF	133	92~165	SYS	0.13013 mm/step	1	
05	Adjustment mode	Scanner	RADF	Adjustment of RADF paper alignment		3040		Front side	12	0~30	SYS	When the value increases by "1", the aligning amount increases by approx. 0.5 mm.	1	Yes
05	Adjustment mode	Scanner	RADF	Adjustment of RADF paper alignment		3041		Back side	12	0~30	SYS	When the value increases by "1", the aligning amount increases by approx. 0.5 mm.	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustmen t mode	Scanner	RADF			3042		Fine adjustment of RADF transport speed	50	0~100	SYS	When the value increases by "1", the reproduction ratio of the secondary scanning direction when using the RADF increases by approx. 0.1%.	1	Yes
05	Adjustmen t mode	Scanner	RADF			3043		RADF sideways deviation adjustment	128	0~255	SYS	When the value increases by "1", the image of original fed from the RADF shifts toward the rear side of paper by approx. 0.08423 mm.	1	Yes
05	Adjustmen t mode	Scanner	RADF	RADF leading edge position adjustment		3044		Front side	50	0~100	SYS	When the value increases by "1", the copied image of original fed from the RADF shifts toward the trailing edge of paper by approx.0.2 mm.	1	Yes
05	Adjustmen t mode	Scanner	RADF	Leading edge position adjustment		3045		Back side	50	0~100	SYS	When the value increases by "1", the copied image of original fed from the RADF shifts toward the trailing edge of paper by approx.0.2 mm.	1	Yes
05	Adjustmen t mode	Scanner	Scanner			3046		Carriage position adjustment during scanning from RADF (black)	128	0~255	SYS	When the value increases by "1", the carriage position shifts by approx. 0.1 mm toward the exit side when using the RADF.	1	
05	Adjustmen t mode	Scanner	Scanner			3047		Carriage position adjustment during scanning from RADF (color)	128	0~255	SYS	When the value increases by "1", the carriage position shifts by approx. 0.1 mm toward the exit side when using the RADF.	1	
05	Adjustmen t mode	Scanner	Scanner	Data transfer of characteristic value		3203		SLG board -> SYS board	-		SYS	Transfers the characteristic values of the scanner (shading correction factor / RGB color correction / reproduction ratio color deviation correction / shading position correction factor / reproduction ratio correction value in primary scanning direction)	6	
05	Adjustmen t mode	Scanner	Scanner			3209		Data transfer of characteristic value of scanner / SYS board -> SLG board	-		SYS	Transfers the characteristic values of the scanner (shading correction factor / RGB color correction / reproduction ratio color aberration correction / shading position correction factor / reproduction ratio correction value in primary scanning direction)	6	
05	Adjustmen t mode	Scanner	Scanner			3218		Automatic dust detection adjustment for shading correction plate	-	-	-	Performs adjustment for shading correction plate by automatically detecting dust. If dust is detected, shading correction is performed by avoiding the dust.	6	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Scanner	Scanner	Size detection of original		3233		Position adjustment in the primary scanning direction	Refer to contents	0-255	SYS	Adjusts the detection range for size of original. <Default value> NAD/TWD/CND: 128 Others: 58	1	
05	Adjustment mode	Scanner	Scanner	Size detection of original		3234		Waiting position adjustment of carriage	200	0-255	SYS	Adjusts the position where the carriage stops at the size detection of the original. Default value: 200 (20 mm from leading edge of original) Maximum value: 255 (25.5 mm from leading edge of original) Minimum value: 0 (0 mm from leading edge of original)	1	
05	Adjustment mode	Scanner	Scanner	Size detection of original		3236		Adjustment of lamp lighting time	128	0-255	SYS	Adjusts the lighting time of the lamp at the size detection of the original. Maximum value: 255 (Minimum time + 2040ms) Minimum value: 0 (Minimum time)	1	
05	Adjustment mode	Scanner	Scanner	Size detection of original		3237		Starting time adjustment of lamp lighting	64	0-255	SYS	Adjusts the starting time of lamp lighting when the detection accuracy of dark originals is poor. Maximum value: 255 (Minimum time + 2040 ms) Minimum value: 0 (Minimum time)	1	
05	Adjustment mode	Scanner	RADF			3350		Trailing edge adjustment of scanning	50	0-100	SYS	When the value increases by "1", the trailing edge of scanned original becomes longer by 0.3 mm at RADF copying. When the value decreases by "1", the trailing edge of scanned original becomes shorter by 0.3 mm at RADF copying. * This code is effective when the value of 08-3075 is "1" (Allowed).	1	
05	Adjustment mode	Printer	Printer	Fine adjustment of polygonal motor rotation speed	Adjustment of primary scanning direction reproduction ratio	4000		PPC	128	0~255	M	When the value increases by "1", the reproduction ratio of primary scanning direction increases by approx. 0.07%. (approx. 0.1 mm/step)	1	Yes
05	Adjustment mode	Printer	Printer	Fine adjustment of polygonal motor rotation speed	Adjustment of primary scanning direction reproduction ratio	4001		PRT	133	0~255	M	When the value increases by "1", the reproduction ratio of primary scanning direction increases by approx. 0.07%. (approx. 0.1 mm/step)	1	Yes
05	Adjustment mode	Printer	Image	Adjustment of primary scanning laser writing start position.		4005		PPC	Refer to contents	0~255	M	When the value increases by "1", the writing start position shifts to the front side by approx. 0.0423 mm. <Default value> e-STUDIO207L/257/307: 88 e-STUDIO357/457/507: 99	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Image	Adjustment of primary scanning laser writing start position.		4006		PRT	Refer to contents	0~255	M	When the value increases by "1", the writing start position shifts to the front side by approx. 0.0423 mm. <Default value> e-STUDIO207L/257/307: 88 e-STUDIO357/457/507: 99	1	Yes
05	Adjustment mode	Printer	Drive	Fine adjustment of main motor speed	Adjustment of secondary scanning direction reproduction ratio	4009		PPC/PRT	132	0~255	M	When the value increases by "1", the reproduction ratio of secondary scanning direction increases by approx. 0.04%.	1	Yes
05	Adjustment mode	Printer	Drive	Fine adjustment of main motor speed	Adjustment of secondary scanning direction reproduction ratio	4010		FAX	128	0~255	M	When the value increases by "1", the reproduction ratio of secondary scanning direction increases by approx. 0.04%.	1	Yes
05	Adjustment mode	Printer	Drive	Fine adjustment of exit motor speed		4013		PPC/PRT	128	0~255	M	e-STUDIO207L/257/307: When the value increases by "1", the rotation accelerates by approx. 0.03%. e-STUDIO357/457/507: When the value increases by "1", the rotation accelerates by approx. 0.05%.	1	Yes
05	Adjustment mode	Printer	Drive	Fine adjustment of exit motor speed		4014		FAX	128	0~255	M	e-STUDIO207L/257/307: When the value increases by "1", the rotation accelerates by approx. 0.03%. e-STUDIO357/457/507: When the value increases by "1", the rotation accelerates by approx. 0.05%.	1	Yes
05	Adjustment mode	Printer	Image	Adj. of drawer sideways deviation		4018	0	1st drawer	128	0~255	M	When the value increases by "1", the image shifts toward the front side by 0.0423 mm.	4	Yes
05	Adjustment mode	Printer	Image	Adj. of drawer sideways deviation		4018	1	2nd drawer	128	0~255	M	When the value increases by "1", the image shifts toward the front side by 0.0423 mm.	4	Yes
05	Adjustment mode	Printer	Image	Adj. of drawer sideways deviation		4018	2	PFP upper drawer	128	0~255	M	When the value increases by "1", the image shifts toward the front side by 0.0423 mm.	4	Yes
05	Adjustment mode	Printer	Image	Adj. of drawer sideways deviation		4018	3	PFP lower drawer	128	0~255	M	When the value increases by "1", the image shifts toward the front side by 0.0423 mm.	4	Yes
05	Adjustment mode	Printer	Image	Adj. of drawer sideways deviation		4018	4	T-LCF	128	0~255	M	When the value increases by "1", the image shifts toward the front side by 0.0423 mm.	4	Yes
05	Adjustment mode	Printer	Image	Adj. of drawer sideways deviation		4018	5	Bypass feeding	128	0~255	M	When the value increases by "1", the image shifts toward the front side by 0.0423 mm.	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Image	Adj. of primary scan. laser writing start	Duplex feeding	4019	0	Long size	Refer to contents	0~255	M	When the value increases by "1", the image shifts toward the front side by 0.0423 mm. <Default value> e-STUDIO207L/257/307: 115 e-STUDIO357/457/507: 123	4	Yes
05	Adjustment mode	Printer	Image	Adj. of primary scan. laser writing start	Duplex feeding	4019	1	Short size	148	0~255	M	When the value increases by "1", the image shifts toward the front side by 0.0423 mm.	4	Yes
05	Adjustment mode	Printer	Image	Margin adjustment	PPC	4050		Top margin adjustment	15	0~255	M	When the value increases by "1", the blank area becomes wider by approx. 0.0423 mm.	1	Yes
05	Adjustment mode	Printer	Image			4051		Left margin adjustment(blank area at the left of the paper along the paper feeding direction)	0	0~255	M	When the value increases by "1", the blank area becomes wider by approx. 0.0423 mm.	1	
05	Adjustment mode	Printer	Image	Margin adjustment	PPC	4052		Right margin adjustment	Refer to contents	0~255	M	When the value increases by "1", the blank area becomes wider by approx. 0.0423 mm. <Default value> e-STUDIO207L/257/307: 8 e-STUDIO357/457/507: 9	1	Yes
05	Adjustment mode	Printer	Image	Margin adjustment	PPC	4053		Bottom margin adjustment	55	0~255	M	When the value increases by "1", the blank area becomes wider by approx. 0.0423 mm.	1	Yes
05	Adjustment mode	Printer	Image			4054		Top margin adjustment(blank area at the leading edge of the paper)	24	0~255	M	When the value increases by "1", the blank area becomes wider by approx. 0.0423 mm.	1	
05	Adjustment mode	Printer	Image			4055		Left margin adjustment(blank area at the left of the paper along the paper feeding direction)	0	0~255	M	When the value increases by "1", the blank area becomes wider by approx. 0.0423 mm.	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Image			4056		Right margin adjustment(blank area at the right of the paper along the paper feeding direction)	0	0~255	M	When the value increases by "1", the blank area becomes wider by approx. 0.0423 mm.	1	
05	Adjustment mode	Printer	Image			4057		Bottom margin adjustment(blank area at the trailing edge of the paper)	0	0~255	M	When the value increases by "1", the blank area becomes wider by approx. 0.0423 mm.	1	
05	Adjustment mode	Printer	Image	Leading edge position adjustment	Normal speed	4058		1st drawer	6	0~15	M	When the value increases by "1", the image shifts toward the trailing edge of the paper by approx. 0.4 mm.	1	Yes
05	Adjustment mode	Printer	Image	Leading edge position adjustment	Normal speed	4059		2nd drawer	Refer to contents	0~40	M	When the value increases by "1", the image shifts toward the trailing edge of the paper by approx. 0.4 mm. <Default value> e-STUDIO207L/257/307: 21 e-STUDIO357/457/507: 29	1	Yes
05	Adjustment mode	Printer	Image	Leading edge position adjustment	Normal speed	4060		PFP	8	0~15	M	When the value increases by "1", the image shifts toward the trailing edge of the paper by approx. 0.4 mm.	1	Yes
05	Adjustment mode	Printer	Image	Leading edge position adjustment	Normal speed	4061		Bypass feeding	Refer to contents	0~15	M	When the value increases by "1", the image shifts toward the trailing edge of the paper by approx. 0.4 mm. <Default value> e-STUDIO207L/257/307: 7 e-STUDIO357/457/507: 8	1	Yes
05	Adjustment mode	Printer	Image	Leading edge position adjustment	Normal speed	4062		Duplex feeding	8	0~15	M	When the value increases by "1", the image shifts toward the trailing edge of the paper by approx. 0.4 mm.	1	Yes
05	Adjustment mode	Printer	Image	Leading edge position adjustment	Normal speed	4063		O-LCF	8	0~15	M	When the value increases by "1", the image shifts toward the trailing edge of the paper by approx. 0.4 mm.	1	Yes
05	Adjustment mode	Printer	Image			4064	0	Bottom margin adjustment (blank area at the trailing edge of the paper)/Reverse side at duplexing	24	0~255	M	When the value increases by "1", the blank area becomes wider by approx. 0.0423 mm.	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Image			4064	1	Right margin adjustment (blank area at the right of the paper along the paper feeding direction)/Reverse side at duplexing	0	0~255	M	When the value increases by "1", the blank area becomes wider by approx. 0.0423 mm.	4	
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	1st drawer	4100	0	Plain paper; Long size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 37 e-STUDIO357/457: 21 e-STUDIO507: 17	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	1st drawer	4100	1	Plain paper; Middle size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 37 e-STUDIO357/457: 21 e-STUDIO507: 17	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	1st drawer	4100	2	Plain paper; Short size1	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 37 e-STUDIO357/457: 21 e-STUDIO507: 17	4	Yes
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	2nd drawer	4101	0	Plain paper; Long size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 30 e-STUDIO357/457: 15 e-STUDIO507: 9	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	2nd drawer	4101	1	Plain paper; Middle size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 28 e-STUDIO357/457: 15 e-STUDIO507: 9	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	2nd drawer	4101	2	Plain paper; Short size1	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 25 e-STUDIO357/457: 14 e-STUDIO507: 9	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	Bypass feeding	4103	0	Plain paper; Long size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 44 e-STUDIO357/457/507: 28	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	Bypass feeding	4103	1	Plain paper; Middle size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 44 e-STUDIO357/457/507: 28	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	Bypass feeding	4103	2	Plain paper; Short size1	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 44 e-STUDIO357/457/507: 28	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	Bypass feeding	4104	0	Thick paper1; Long size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 44 e-STUDIO357/457/507: 28	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	Bypass feeding	4104	1	Thick paper1; Middle size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 44 e-STUDIO357/457/507: 28	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	Bypass feeding	4104	2	Thick paper1; Short size1	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 44 e-STUDIO357/457/507: 28	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	Bypass feeding	4105	0	Thick paper2; Long size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 44 e-STUDIO357/457/507: 28	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	Bypass feeding	4105	1	Thick paper2; Middle size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 44 e-STUDIO357/457/507: 28	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	Bypass feeding	4105	2	Thick paper2; Short size1	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 44 e-STUDIO357/457/507: 28	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	Bypass feeding	4106	0	Thick paper3; Long size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 44 e-STUDIO357/457/507: 28	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	Bypass feeding	4106	1	Thick paper3; Middle size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 44 e-STUDIO357/457/507: 28	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	Bypass feeding	4106	2	Thick paper3; Short size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 44 e-STUDIO357/457/507: 28	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	Bypass feeding	4106	3	Postcard	35	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	Bypass feeding	4107	0	OHP film; Long size	24	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	Bypass feeding	4107	1	OHP film; Middle size	24	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	Bypass feeding	4107	2	OHP film; Short size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 44 e-STUDIO357/457/507: 28	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	PFP upper drawer	4108	0	Plain paper; Long size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 30 e-STUDIO357/457: 15 e-STUDIO507: 12	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	PFP upper drawer	4108	1	Plain paper; Middle size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 28 e-STUDIO357/457: 15 e-STUDIO507: 12	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	PFP upper drawer	4108	2	Plain paper; Short size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx.0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx.0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 25 e-STUDIO357/457: 14 e-STUDIO507: 9	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	PFP lower drawer	4109	0	Plain paper; Long size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 30 e-STUDIO357/457: 15 e-STUDIO507: 12	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	PFP lower drawer	4109	1	Plain paper; Middle size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 28 e-STUDIO357/457: 15 e-STUDIO507: 12	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	PFP lower drawer	4109	2	Plain paper; Short size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx.0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx.0.4 mm. \<Paper length\> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter \<Default value\> e-STUDIO207L/257/307: 25 e-STUDIO357/457: 14 e-STUDIO507: 9	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	ADU	4110	0	Plain paper; Long size	19	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. \<Paper length\> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	ADU	4110	1	Plain paper; Middle size	19	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. \<Paper length\> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	ADU	4110	2	Plain paper; Short size	19	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	T-LCF	4111		Plain paper	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx.0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx.0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 25 e-STUDIO357/457: 14 e-STUDIO507: 9	1	Yes
05	Adjustment mode	Printer	Paper feeding	Adjustment of paper pushing amount/Bypass feeding		4112	0	Plain paper	0	0~20	M	When the value increases by "1", the driving speed of bypass feed roller increases by approx. 10 msec. when the paper transport is started from the registration section. *Postcard is supported only for JPN model.	4	
05	Adjustment mode	Printer	Paper feeding	Adjustment of paper pushing amount/Bypass feeding		4112	1	Postcard	0	0~20	M	When the value increases by "1", the driving speed of bypass feed roller increases by approx. 10 msec. when the paper transport is started from the registration section. *Postcard is supported only for JPN model.	4	
05	Adjustment mode	Printer	Paper feeding	Adjustment of paper pushing amount/Bypass feeding		4112	3	Envelope	0	0~20	M	When the value increases by "1", the driving speed of bypass feed roller increases by approx. 10 msec. when the paper transport is started from the registration section. *Postcard is supported only for JPN model.	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustmen t mode	Printer	Paper feeding	Adjustment of paper pushing amount/Bypass feeding		4112	4	Thick paper 1	0	0~20	M	When the value increases by "1", the driving speed of bypass feed roller increases by approx. 10 msec. when the paper transport is started from the registration section. *Postcard is supported only for JPN model.	4	
05	Adjustmen t mode	Printer	Paper feeding	Adjustment of paper pushing amount/Bypass feeding		4112	5	Thick paper 2	0	0~20	M	When the value increases by "1", the driving speed of bypass feed roller increases by approx. 10 msec. when the paper transport is started from the registration section. *Postcard is supported only for JPN model.	4	
05	Adjustmen t mode	Printer	Paper feeding	Adjustment of paper pushing amount/Bypass feeding		4112	6	Thick paper 3	0	0~20	M	When the value increases by "1", the driving speed of bypass feed roller increases by approx. 10 msec. when the paper transport is started from the registration section. *Postcard is supported only for JPN model.	4	
05	Adjustmen t mode	Printer	Paper feeding	Adjustment of paper pushing amount/Bypass feeding		4112	7	OHP film	0	0~20	M	When the value increases by "1", the driving speed of bypass feed roller increases by approx. 10 msec. when the paper transport is started from the registration section. *Postcard is supported only for JPN model.	4	
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	1st drawer	4115	0	Thick paper1; Long size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 37 e-STUDIO357/457: 21 e-STUDIO507: 17	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	1st drawer	4115	1	Thick paper1; Middle size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 37 e-STUDIO357/457: 21 e-STUDIO507: 17	4	Yes
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	1st drawer	4115	2	Thick paper1; Short size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 37 e-STUDIO357/457: 21 e-STUDIO507: 17	4	Yes
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	1st drawer	4115	3	Thick paper2; Long size	20	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	1st drawer	4115	4	Thick paper2; Middle size	20	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	1st drawer	4115	5	Thick paper2; Short size	20	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	2nd drawer	4116	0	Thick paper1; Long size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 37 e-STUDIO357/457: 20 e-STUDIO507: 9	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	2nd drawer	4116	1	Thick paper1; Middle size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 37 e-STUDIO357/457: 20 e-STUDIO507: 9	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	2nd drawer	4116	2	Thick paper1; Short size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 31 e-STUDIO357/457: 16 e-STUDIO507: 9	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	PFP upper drawer	4117	0	Thick paper1; Long size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 37 e-STUDIO357/457: 20 e-STUDIO507: 12	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	PFP upper drawer	4117	1	Thick paper1; Middle size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 37 e-STUDIO357/457: 20 e-STUDIO507: 12	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	PFP upper drawer	4117	2	Thick paper1; Short size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 31 e-STUDIO357/457: 16 e-STUDIO507: 9	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	PFP lower drawer	4118	0	Thick paper1; Long size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 37 e-STUDIO357/457: 20 e-STUDIO507: 12	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	PFP lower drawer	4118	1	Thick paper1; Middle size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 37 e-STUDIO357/457: 20 e-STUDIO507: 12	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	PFP lower drawer	4118	2	Thick paper1; Short size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 31 e-STUDIO357/457: 16 e-STUDIO507: 9	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	T-LCF	4119		Thick paper1	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. \<Paper length\> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter \<Default value\> e-STUDIO207L/257/307: 37 e-STUDIO357/457: 15 e-STUDIO507: 9	1	Yes
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	ADU	4120	0	Thick paper1; Long size	19	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. \<Paper length\> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4	Yes
05	Adjustmen t mode	Printer	Feeding system/Pa per transport	Paper aligning amount adjustment	ADU	4120	1	Thick paper1; Middle size	19	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. \<Paper length\> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	ADU	4120	2	Thick paper1; Short size	19	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	Registration section	4405	0	Bypass feed/Envelope; long size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 44 e-STUDIO357/457/507: 28	4	Yes
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	Registration section	4405	1	Bypass feed/Envelope; middle size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 44 e-STUDIO357/457/507: 28	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Procedure	Service UI
05	Adjustment mode	Printer	Feeding system/Paper transport	Paper aligning amount adjustment	Registration section	4405	2	Bypass feed/Envelope; short size	Refer to contents	0~63	M	e-STUDIO207L/257/307: When the value increases by "1", the aligning amount increases by approx. 0.3 mm. e-STUDIO357/457/507: When the value increases by "1", the aligning amount increases by approx. 0.4 mm. <Paper length> Long size: 330 mm or longer Middle size: 220 mm to 329 mm Short size: 219 mm or shorter <Default value> e-STUDIO207L/257/307: 44 e-STUDIO357/457/507: 28	4	Yes
05	Adjustment mode	Printer	Drive	Fine adjustment of reverse motor speed		4817	-	For resolution in inches	128	0~255	M	When the value increases by "1", the rotation accelerates by approx. 0.05%.	1	
05	Adjustment mode	Printer	Drive	Fine adjustment of reverse motor speed		4818	-	For FAX resolution in millimeters	128	0~255	M	When the value increases by "1", the rotation accelerates by approx. 0.05%.	1	
05	Adjustment mode	Printer	Printer	Tray position judgment time adjustment		4819	0	Drawer (upper/lower)	44	0~255	M		4	
05	Adjustment mode	Printer	Printer	Tray position judgment time adjustment		4819	1	PFP drawer (upper/lower)	44	0~255	M		4	
05	Adjustment mode	Printer	Finisher	Stapling position adjustment value		4820	0	LD/A3	0	-17~17	M		4	
05	Adjustment mode	Printer	Finisher	Stapling position adjustment value		4820	1	LG/B4/8K/A4-R/LT-R/16K-R	0	-17~17	M		4	
05	Adjustment mode	Printer	Finisher	Paper stack folding position adjustment value		4821	0	LD/A3	0	-17~17	M		4	
05	Adjustment mode	Printer	Finisher	Paper stack folding position adjustment value		4821	1	LG/B4/8K/A4-R/LT-R/16K-R	0	-17~17	M		4	
05	Adjustment mode	Printer	Finisher	Alignment position adjustment		4822	0	Front	0	-17~17	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustmen t mode	Printer	Finisher	Alignment position adjustment		4822	1	Rear	0	-17~17	M		4	
05	Adjustmen t mode	Printer	Finisher	Stapling position adjustment		4823	0	One place (Rear)	0	-25~25	M		4	Yes
05	Adjustmen t mode	Printer	Finisher	Stapling position adjustment		4823	1	One place (Rear/R-series sizes)	0	-17~25	M		4	Yes
05	Adjustmen t mode	Printer	Finisher	Stapling position adjustment		4823	2	One place (Front)	0	-25~25	M		4	Yes
05	Adjustmen t mode	Printer	Finisher	Stapling position adjustment		4823	3	One place (Front/R-series sizes)	0	-25~17	M		4	Yes
05	Adjustmen t mode	Printer	Finisher	Stapling position adjustment		4823	4	Two places (Center)	0	-17~17	M		4	Yes
05	Adjustmen t mode	Printer	Finisher	Stapling position adjustment		4823	5	Two places (Pitch)	0	-15~12	M		4	Yes
05	Adjustmen t mode	Printer	Finisher			4824		Punching position center adjustment	0	-15~15	M		1	Yes
05	Adjustmen t mode	Printer	Finisher			4825		Punch hole position adjustment	0	-20~12	M		1	Yes
05	Adjustmen t mode	Printer	Finisher			4826		Saddle stitch alignment adjustment	0	-15~15	M		1	Yes
05	Adjustmen t mode	Printer	Finisher			4827		Gripper arm exiting position adjustment	0	-15~15	M		1	Yes
05	Adjustmen t mode	Image Processin g	Backgroun d offset adjustmen t	PPC/NW SCN/FAX(black)		7025		ADF	128	0~255	SYS	The smaller the adjustment value is, the lighter the background becomes. The larger the adjustment value is, the darker the background becomes.	1	Yes
05	Adjustmen t mode	Image Processin g	Backgroun d offset adjustmen t	SCN(color)		7026		ADF	128	0-255	SYS	The smaller the adjustment value is, the lighter the background becomes. The larger the adjustment value is, the darker the background becomes.	1	Yes
05	Adjustmen t mode	Image Processin g	Backgroun d adjustmen	PPC(black)	Black/Automatic density adjustment	7033		Text/Photo	128	0~255	SYS	The larger the value is, the lighter the background becomes.	1	Yes
05	Adjustmen t mode	Image Processin g	Backgroun d adjustmen	PPC(black)	Black/Automatic density adjustment	7034		Text	128	0~255	SYS	The larger the value is, the lighter the background becomes.	1	Yes
05	Adjustmen t mode	Image Processin g	Backgroun d adjustmen	PPC(black)	Black/Manual density adjustment	7041		Text/Photo	128	0~255	SYS	The larger the value is, the lighter the background becomes.	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustmen t mode	Image Processin g	Backgroun d adjustmen	PPC(black)	Black/Manual density adjustment	7042		Text	128	0~255	SYS	The larger the value is, the lighter the background becomes.	1	Yes
05	Adjustmen t mode	Image Processin g	Backgroun d adjustmen	PPC(black)	Black/Automatic density adjustment	7043		Photo	128	0~255	SYS	The larger the value is, the lighter the background becomes.	1	Yes
05	Adjustmen t mode	Image Processin g	Backgroun d adjustmen	PPC(black)	Black/Manual density adjustment	7048		Photo	128	0~255	SYS	The larger the value is, the lighter the background becomes.	1	Yes
05	Adjustmen t mode	Image Processin g	Sharpness adjustmen t	PPC(black)		7056		Text/Photo	128	0~255	SYS	The larger the value is, the sharper the image becomes. The smaller the value is, the softer the image becomes and the less moire appears.	1	Yes
05	Adjustmen t mode	Image Processin g	Sharpness adjustmen t	PPC(black)		7057		Text	128	0~255	SYS	The larger the value is, the sharper the image becomes. The smaller the value is, the softer the image becomes and the less moire appears.	1	Yes
05	Adjustmen t mode	Image Processin g	Sharpness adjustmen t	PPC(black)		7058		Photo	128	0~255	SYS	The larger the value is, the sharper the image becomes. The smaller the value is, the softer the image becomes and the less moire appears.	1	Yes
05	Adjustmen t mode	Image Processin g	Smudged/f aint text adjustmen t	PPC(black)		7097		Text/Photo	2	0~4	SYS	0: Faint text is suppressed most. 4: Smudged text is suppressed most.	1	Yes
05	Adjustmen t mode	Image Processin g	Smudged/f aint text adjustmen t	PPC(black)		7098		Text	2	0~4	SYS	0: Faint text is suppressed most. 4: Smudged text is suppressed most.	1	Yes
05	Adjustmen t mode	Image Processin g	Backgroun d adjustmen	PPC(black)		7100		Text/Photo	128	0-255	SYS	The larger the value, the darker the background becomes. The smaller the value, the lighter the background becomes.	1	Yes
05	Adjustmen t mode	Image Processin g	Backgroun d adjustmen	PPC(black)		7101		Text	128	0-255	SYS	The larger the value, the darker the background becomes. The smaller the value, the lighter the background becomes.	1	Yes
05	Adjustmen t mode	Image Processin g	Backgroun d adjustmen	PPC(black)		7102		Photo	128	0-255	SYS	The larger the value, the darker the background becomes. The smaller the value, the lighter the background becomes.	1	Yes
05	Adjustmen t mode	Image Processin g	Backgroun d adjustmen	PPC(black)		7106		User custom	128	0-255	SYS	The larger the value, the darker the background becomes. The smaller the value, the lighter the background becomes.	1	Yes
05	Adjustmen t mode	Image Processin g	Density adjustmen t	PPC(black)	Manual adjustment/Center value	7114		Text/Photo	128	0~255	SYS	The larger the value is, the darker the image at the center value becomes.	1	Yes
05	Adjustmen t mode	Image Processin g	Density adjustmen t	PPC(black)	Manual adjustment/Center value	7115		Text	128	0~255	SYS	The larger the value is, the darker the image at the center value becomes.	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Density adjustment	PPC(black)	Manual adjustment/Center value	7116		Photo	128	0~255	SYS	The larger the value is, the darker the image at the center value becomes.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	PPC(black)	Automatic density adjustment	7123		Text/Photo	128	0~255	SYS	When the value increases, the image becomes darker.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	PPC(black)	Automatic density adjustment	7124		Text	128	0~255	SYS	When the value increases, the image becomes darker.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	PPC(black)	Automatic density adjustment	7125		Photo	128	0~255	SYS	When the value increases, the image becomes darker.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	PPC(black)	Manual adjustment/Center value	7134		User custom	128	0-255	SYS	The larger the value, the darker the image of the center value becomes.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	PPC(black)	Automatic density adjustment	7137		User custom	128	0-255	SYS	The larger the value, the darker the image becomes.	1	Yes
05	Adjustment mode	Image Processing	ADF scan noise reduction	PPC(black)		7150		User custom	100	0-200	SYS	When the value decreases, the effect of reducing streaks (set with 08-7617) becomes larger. When the value increases, the effect of reducing streaks (set with 08-7617) becomes smaller. When the value is too small, text might be blurry. When "0" is set, this function is disabled.	1	
05	Adjustment mode	Image Processing	ADF scan noise reduction	PPC(black)		7151		Text/Photo	100	0-200	SYS	When the value decreases, the effect of reducing streaks (set with 08-7617) becomes larger. When the value increases, the effect of reducing streaks (set with 08-7617) becomes smaller. When the value is too small, text might be blurry. When "0" is set, this function is disabled.	1	
05	Adjustment mode	Image Processing	ADF scan noise reduction	PPC(black)		7152		Text	100	0-200	SYS	When the value decreases, the effect of reducing streaks (set with 08-7617) becomes larger. When the value increases, the effect of reducing streaks (set with 08-7617) becomes smaller. When the value is too small, text might be blurry. When "0" is set, this function is disabled.	1	
05	Adjustment mode	Image Processing	ADF scan noise reduction	PPC(black)		7153		Photo	100	0-200	SYS	When the value decreases, the effect of reducing streaks (set with 08-7617) becomes larger. When the value increases, the effect of reducing streaks (set with 08-7617) becomes smaller. When the value is too small, text might be blurry. When "0" is set, this function is disabled.	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustmen t mode	Image Processin g	Automatic gamma adjustmen t	PPC(black)		7165		All media types	-	-	-	When color deviation is found in gradation reproduction, the gradation reproduction of color K can be corrected with the automatic gamma adjustment. The result of the correction above will be applied to all media types.	7	Yes
05	Adjustmen t mode	Image Processin g	Gamma balance adjustmen t	PPC(black)	Text/Photo	7190	0	Low density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustmen t mode	Image Processin g	Gamma balance adjustmen t	PPC(black)	Text/Photo	7190	1	Medium density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustmen t mode	Image Processin g	Gamma balance adjustmen t	PPC(black)	Text/Photo	7190	2	High density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustmen t mode	Image Processin g	Gamma balance adjustmen t	PPC(black)	Text	7191	0	Low density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustmen t mode	Image Processin g	Gamma balance adjustmen t	PPC(black)	Text	7191	1	Medium density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustmen t mode	Image Processin g	Gamma balance adjustmen t	PPC(black)	Text	7191	2	High density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustmen t mode	Image Processin g	Gamma balance adjustmen t	PPC(black)	Photo	7192	0	Low density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustmen t mode	Image Processin g	Gamma balance adjustmen t	PPC(black)	Photo	7192	1	Medium density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustmen t mode	Image Processin g	Gamma balance adjustmen t	PPC(black)	Photo	7192	2	High density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustmen t mode	Image Processin g	Setting beam level conversion	PPC(black)	Text/Photo	7218	0	Beam level 0/4	0	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Text/Photo	7218	1	Beam level 1/4	4	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Text/Photo	7218	2	Beam level 2/4	5	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Text/Photo	7218	3	Beam level 3/4	6	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Text/Photo	7218	4	Beam level 4/4	7	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Text	7219	0	Beam level 0/4	0	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Text	7219	1	Beam level 1/4	4	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Text	7219	2	Beam level 2/4	5	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Text	7219	3	Beam level 3/4	6	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Text	7219	4	Beam level 4/4	8	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Photo	7220	0	Beam level 0/4	0	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Photo	7220	1	Beam level 1/4	4	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Photo	7220	2	Beam level 2/4	5	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Photo	7220	3	Beam level 3/4	6	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	PPC(black)	Photo	7220	4	Beam level 4/4	8	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Range correction adjustment	PPC(black)	Black/Manual density adjustment	7237		User custom	1	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes
05	Adjustment mode	Image Processing	Sharpness adjustment	PPC(black)		7249		User custom	128	0~255	SYS	The larger the value is, the sharper the image becomes. The smaller the value is, the softer the image becomes and the less moire appears.	1	
05	Adjustment mode	Image Processing	Smudged/faint text adjustment	PPC(black)		7252		User custom	2	0~4	SYS	0: Smudged text is suppressed most. 4: Faint text is suppressed most.	1	
05	Adjustment mode	Image Processing	Gamma balance adjustment	PPC(black)	User custom	7276	0	Low density	128	0~255	SYS	The larger the value is, the darker the image of the target area becomes.	4	
05	Adjustment mode	Image Processing	Gamma balance adjustment	PPC(black)	User custom	7276	1	Medium density	128	0~255	SYS	The larger the value is, the darker the image of the target area becomes.	4	
05	Adjustment mode	Image Processing	Gamma balance adjustment	PPC(black)	User custom	7276	2	High density	128	0~255	SYS	The larger the value is, the darker the image of the target area becomes.	4	
05	Adjustment mode	Image Processing	Range correction adjustment	PPC(black)	Black/Manual density adjustment	7286		Text/Photo	1	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes
05	Adjustment mode	Image Processing	Range correction adjustment	PPC(black)	Black/Manual density adjustment	7287		Text	1	0~1	SYS	0: Background peak - Fixed 1: Background peak - Varied	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	PS/Smooth/600dpi	7315	0	Low density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	PS/Smooth/600dpi	7315	1	Medium density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	PS/Smooth/600dpi	7315	2	High density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	PS/Detail/600dpi	7316	0	Low density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	PS/Detail/600dpi	7316	1	Medium density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	PS/Detail/600dpi	7316	2	High density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	PCL/Smooth/600dpi	7317	0	Low density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	PCL/Smooth/600dpi	7317	1	Medium density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	PCL/Smooth/600dpi	7317	2	High density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	PCL/Detail/600dpi	7318	0	Low density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	PCL/Detail/600dpi	7318	1	Medium density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	PCL/Detail/600dpi	7318	2	High density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	XPS/Smooth/600dpi	7319	0	Low density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	XPS/Smooth/600dpi	7319	1	Medium density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	XPS/Smooth/600dpi	7319	2	High density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	XPS/Detail/600dpi	7320	0	Low density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	XPS/Detail/600dpi	7320	1	Medium density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	PRT(black)	XPS/Detail/600dpi	7320	2	High density	128	0~255	SYS	When the value increases, the density in the target area becomes higher. L: Low density area M: Medium density area H: High density area	4	Yes
05	Adjustment mode	Image Processing	Image	Adjustment of smudged/faint text	PRT	7325		PS	5	0~9	M	Adjustment of the smudged/faint text. With decreasing the value, the faint text is suppressed, and with increasing it, the smudged text is suppressed.	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Image	Adjustment of smudged/faint text	PRT	7326		PCL	5	0~9	M	Adjustment of the smudged/faint text. With decreasing the value, the faint text is suppressed, and with increasing it, the smudged text is suppressed.	1	Yes
05	Adjustment mode	Image Processing	Image	Adjustment of smudged/faint text	PRT	7327		XPS	5	0~9	M	Adjustment of the smudged/faint text. With decreasing the value, the faint text is suppressed, and with increasing it, the smudged text is suppressed.	4	Yes
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving OFF	7350	0	Beam level 0/4	0	0~10	M	Adjustment of the smudged/faint text. With decreasing the value, the faint text is suppressed, and with increasing it, the smudged text is suppressed.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving OFF	7350	1	Beam level 1/4	4	0~10	M	Adjustment of the smudged/faint text. With decreasing the value, the faint text is suppressed, and with increasing it, the smudged text is suppressed.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving OFF	7350	2	Beam level 2/4	5	0~10	M	Adjustment of the smudged/faint text. With decreasing the value, the faint text is suppressed, and with increasing it, the smudged text is suppressed.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving OFF	7350	3	Beam level 3/4	6	0~10	M	Adjustment of the smudged/faint text. With decreasing the value, the faint text is suppressed, and with increasing it, the smudged text is suppressed.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving OFF	7350	4	Beam level 4/4	8	0~10	M	Adjustment of the smudged/faint text. With decreasing the value, the faint text is suppressed, and with increasing it, the smudged text is suppressed.	4	
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving ON/PS	7351	0	Beam level 0/4	0	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	Yes
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving ON/PS	7351	1	Beam level 1/4	1	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	Yes
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving ON/PS	7351	2	Beam level 2/4	2	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	Yes
05	Adjustment mode	Image Processing	Setting beam level conversion	Black NW printer	Toner saving ON/PS	7351	3	Beam level 3/4	3	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustmen t mode	Image Processin g	Setting beam level conversion	Black NW printer	Toner saving ON/PS	7351	4	Beam level 4/4	4	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	Yes
05	Adjustmen t mode	Image Processin g	Setting beam level conversion	Black NW printer	Toner saving ON/PCL	7352	0	Beam level 0/4	0	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	Yes
05	Adjustmen t mode	Image Processin g	Setting beam level conversion	Black NW printer	Toner saving ON/PCL	7352	1	Beam level 1/4	1	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	Yes
05	Adjustmen t mode	Image Processin g	Setting beam level conversion	Black NW printer	Toner saving ON/PCL	7352	2	Beam level 2/4	2	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	Yes
05	Adjustmen t mode	Image Processin g	Setting beam level conversion	Black NW printer	Toner saving ON/PCL	7352	3	Beam level 3/4	3	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	Yes
05	Adjustmen t mode	Image Processin g	Setting beam level conversion	Black NW printer	Toner saving ON/PCL	7352	4	Beam level 4/4	4	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	Yes
05	Adjustmen t mode	Image Processin g	Setting beam level conversion	Black NW printer	Toner saving ON/XPS	7353	0	Beam level 0/4	0	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	Yes
05	Adjustmen t mode	Image Processin g	Setting beam level conversion	Black NW printer	Toner saving ON/XPS	7353	1	Beam level 1/4	1	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	Yes
05	Adjustmen t mode	Image Processin g	Setting beam level conversion	Black NW printer	Toner saving ON/XPS	7353	2	Beam level 2/4	2	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	Yes
05	Adjustmen t mode	Image Processin g	Setting beam level conversion	Black NW printer	Toner saving ON/XPS	7353	3	Beam level 3/4	3	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	Yes
05	Adjustmen t mode	Image Processin g	Setting beam level conversion	Black NW printer	Toner saving ON/XPS	7353	4	Beam level 4/4	4	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustmen t mode	Image Processin g	Setting beam level conversion	Black NW printer	Hardcopy security printing	7354	0	Beam level 0/4	0	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustmen t mode	Image Processin g	Setting beam level conversion	Black NW printer	Hardcopy security printing	7354	1	Beam level 1/4	4	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustmen t mode	Image Processin g	Setting beam level conversion	Black NW printer	Hardcopy security printing	7354	2	Beam level 2/4	5	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustmen t mode	Image Processin g	Setting beam level conversion	Black NW printer	Hardcopy security printing	7354	3	Beam level 3/4	6	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustmen t mode	Image Processin g	Setting beam level conversion	Black NW printer	Hardcopy security printing	7354	4	Beam level 4/4	8	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustmen t mode	Image Processin g	Setting beam level conversion	Black NW printer	Test print	7355	0	Beam level 0/4	0	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustmen t mode	Image Processin g	Setting beam level conversion	Black NW printer	Test print	7355	1	Beam level 1/4	4	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustmen t mode	Image Processin g	Setting beam level conversion	Black NW printer	Test print	7355	2	Beam level 2/4	5	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustmen t mode	Image Processin g	Setting beam level conversion	Black NW printer	Test print	7355	3	Beam level 3/4	6	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustmen t mode	Image Processin g	Setting beam level conversion	Black NW printer	Test print	7355	4	Beam level 4/4	8	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustmen t mode	Image Processin g	Setting beam level conversion	Black NW printer	Box printing	7356	0	Beam level 0/4	0	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustmen t mode	Image Processin g	Setting beam level conversion	Black NW printer	Box printing	7356	1	Beam level 1/4	4	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustmen t mode	Image Processin g	Setting beam level conversion	Black NW printer	Box printing	7356	2	Beam level 2/4	5	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustmen t mode	Image Processin g	Setting beam level conversion	Black NW printer	Box printing	7356	3	Beam level 3/4	6	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustmen t mode	Image Processin g	Setting beam level conversion	Black NW printer	Box printing	7356	4	Beam level 4/4	8	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustmen t mode	Image Processin g	Gamma balance adjustmen t	Monochrome/600dpi/ Auto	PS/text	7360	0	Low density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	
05	Adjustmen t mode	Image Processin g	Gamma balance adjustmen t	Monochrome/600dpi/ Auto	PS/text	7360	1	Medium density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	
05	Adjustmen t mode	Image Processin g	Gamma balance adjustmen t	Monochrome/600dpi/ Auto	PS/text	7360	2	High density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	
05	Adjustmen t mode	Image Processin g	Gamma balance adjustmen t	Monochrome/600dpi/ Auto	PS/graphics	7361	0	Low density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	
05	Adjustmen t mode	Image Processin g	Gamma balance adjustmen t	Monochrome/600dpi/ Auto	PS/graphics	7361	1	Medium density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	
05	Adjustmen t mode	Image Processin g	Gamma balance adjustmen t	Monochrome/600dpi/ Auto	PS/graphics	7361	2	High density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	
05	Adjustmen t mode	Image Processin g	Gamma balance adjustmen t	Monochrome/600dpi/ Auto	PS/image	7362	0	Low density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	PS/image	7362	1	Medium density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	PS/image	7362	2	High density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	XPS/text	7366	0	Low density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	XPS/text	7366	1	Medium density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	XPS/text	7366	2	High density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	XPS/graphics	7367	0	Low density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	XPS/graphics	7367	1	Medium density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	XPS/graphics	7367	2	High density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	XPS/image	7368	0	Low density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	XPS/image	7368	1	Medium density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	
05	Adjustment mode	Image Processing	Gamma balance adjustment	Monochrome/600dpi/ Auto	XPS/image	7368	2	High density	128	0-255	SYS	Larger the value, the density value increases, and smaller the value, the density value decreases.	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	ADF scan noise reduction	SCN(black)		7400		User custom	100	0-200	SYS	When the value decreases, the effect of reducing streaks (set with 08-8300) becomes larger. When the value increases, the effect of reducing streaks (set with 08-8300) becomes smaller. When the value is too small, text might be blurry. When "0" is set, this function is disabled.	1	
05	Adjustment mode	Image Processing	ADF scan noise reduction	SCN(black)		7401		Text/Photo	100	0-200	SYS	When the value decreases, the effect of reducing streaks (set with 08-8300) becomes larger. When the value increases, the effect of reducing streaks (set with 08-8300) becomes smaller. When the value is too small, text might be blurry. When "0" is set, this function is disabled.	1	
05	Adjustment mode	Image Processing	ADF scan noise reduction	SCN(black)		7402		Text	100	0-200	SYS	When the value decreases, the effect of reducing streaks (set with 08-8300) becomes larger. When the value increases, the effect of reducing streaks (set with 08-8300) becomes smaller. When the value is too small, text might be blurry. When "0" is set, this function is disabled.	1	
05	Adjustment mode	Image Processing	ADF scan noise reduction	SCN(black)		7403		Photo	100	0-200	SYS	When the value decreases, the effect of reducing streaks (set with 08-8300) becomes larger. When the value increases, the effect of reducing streaks (set with 08-8300) becomes smaller. When the value is too small, text might be blurry. When "0" is set, this function is disabled.	1	
05	Adjustment mode	Image Processing	ADF scan noise reduction	SCN(black)		7404		Gray scale	100	0-200	SYS	When the value decreases, the effect of reducing streaks (set with 08-8300) becomes larger. When the value increases, the effect of reducing streaks (set with 08-8300) becomes smaller. When the value is too small, text might be blurry. When "0" is set, this function is disabled.	1	
05	Adjustment mode	Image Processing	Sharpness adjustment	SCN(black)		7430		Text/Photo	128	0~255	SYS	The larger the value is, the sharper the image becomes. The smaller the value is, the softer the image becomes and the less moire appears.	1	Yes
05	Adjustment mode	Image Processing	Sharpness adjustment	SCN(black)		7431		Text	128	0~255	SYS	The larger the value is, the sharper the image becomes. The smaller the value is, the softer the image becomes and the less moire appears.	1	Yes
05	Adjustment mode	Image Processing	Sharpness adjustment	SCN(black)		7432		Photo	128	0~255	SYS	The larger the value is, the sharper the image becomes. The smaller the value is, the softer the image becomes and the less moire appears.	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Sharpness adjustment	SCN(black)		7433		Gray scale	128	0~255	SYS	The larger the value is, the sharper the image becomes. The smaller the value is, the softer the image becomes and the less moire appears.	1	Yes
05	Adjustment mode	Image Processing	Background adjustment	SCN(black)		7436		Text/Photo	128	0-255	SYS	The smaller the value, the lighter the background becomes.	1	Yes
05	Adjustment mode	Image Processing	Background adjustment	SCN(black)		7437		Text	128	0-255	SYS	The smaller the value, the lighter the background becomes.	1	Yes
05	Adjustment mode	Image Processing	Background adjustment	SCN(black)		7438		Photo	128	0-255	SYS	The smaller the value, the lighter the background becomes.	1	Yes
05	Adjustment mode	Image Processing	Background adjustment	SCN(black)		7439		Gray scale	128	0-255	SYS	The smaller the value, the lighter the background becomes.	1	Yes
05	Adjustment mode	Image Processing	Background adjustment	SCN(black)		7441		User custom	128	0-255	SYS	The smaller the value, the lighter the background becomes.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	SCN(black)	Manual adjustment/Center value	7444		Text/Photo	128	0~255	SYS	The larger the value is, the darker the image of the center value becomes.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	SCN(black)	Manual adjustment/Center value	7445		Text	128	0~255	SYS	The larger the value is, the darker the image of the center value becomes.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	SCN(black)	Manual adjustment/Center value	7446		Photo	128	0~255	SYS	The larger the value is, the darker the image of the center value becomes.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	SCN(black)	Manual adjustment/Center value	7447		Gray scale	128	0~255	SYS	The larger the value is, the darker the image of the center value becomes.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	SCN(black)	Automatic density adjustment	7456		Text/Photo	128	0~255	SYS	When the value increases, the image becomes darker.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	SCN(black)	Automatic density adjustment	7457		Text	128	0~255	SYS	When the value increases, the image becomes darker.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	SCN(black)	Automatic density adjustment	7458		Photo	128	0~255	SYS	When the value increases, the image becomes darker.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	SCN(black)	Automatic density adjustment	7459		Gray scale	128	0~255	SYS	When the value increases, the image becomes darker.	1	Yes
05	Adjustment mode	Image Processing	Sharpness adjustment	SCN(black)		7470		User custom	128	0~255	SYS	The larger the value is, the sharper the image becomes. The smaller the value is, the softer the image becomes and the less moire appears.	1	
05	Adjustment mode	Image Processing	Density adjustment	SCN(black)	Manual adjustment/Center value	7475		User custom	128	0~255	SYS	The larger the value is, the darker the image at the center value becomes.	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Density adjustment	SCN(black)	Automatic density adjustment	7478		User custom	128	0~255	SYS	The larger the value is, the darker the image at the center value becomes.	1	
05	Adjustment mode	Image Processing	Gamma balance adjustment	SCN(black)	User custom	7480	0	Low density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	
05	Adjustment mode	Image Processing	Gamma balance adjustment	SCN(black)	User custom	7480	1	Medium density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	
05	Adjustment mode	Image Processing	Gamma balance adjustment	SCN(black)	User custom	7480	2	High density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	
05	Adjustment mode	Image Processing	Gamma balance adjustment	SCN(black)	Text/Photo	7485	0	Low density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	SCN(black)	Text/Photo	7485	1	Medium density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	SCN(black)	Text/Photo	7485	2	High density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	Yes
05	Adjustment mode	Image Processing	Gamma balance adjustment	SCN(black)	Photo	7487	0	Low density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	
05	Adjustment mode	Image Processing	Gamma balance adjustment	SCN(black)	Photo	7487	1	Medium density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	
05	Adjustment mode	Image Processing	Gamma balance adjustment	SCN(black)	Photo	7487	2	High density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	
05	Adjustment mode	Image Processing	Gamma balance adjustment	SCN(black)	Gray scale	7488	0	Low density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Gamma balance adjustment	SCN(black)	Gray scale	7488	1	Medium density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	
05	Adjustment mode	Image Processing	Gamma balance adjustment	SCN(black)	Gray scale	7488	2	High density	128	0~255	SYS	The larger the value is, the darker the image of the area surrounding the target area becomes.	4	
05	Adjustment mode	Image Processing	Image			7489		Amount of surrounding void (network scanning)	0	0~255	SYS	When the value increases, the blank area around the scanned image becomes wider. (e.g.: In network scanning with 600 dpi, if the setting value is "1", the blank area increases by 1 dot.)	1	
05	Adjustment mode	Image Processing	Density adjustment	FAX(black)	Manual adjustment/Center value	7533		Text/Photo	128	0~255	SYS	The larger the value is, the darker the image at the center value becomes.	1	
05	Adjustment mode	Image Processing	Density adjustment	FAX(black)	Simple binarization adjustmentt/Center value	7534		Text	128	0~255	SYS	The larger the value is, the darker the image at the center value becomes.	1	
05	Adjustment mode	Image Processing	Density adjustment	FAX(black)	Manual adjustment/Center value	7535		Photo	128	0~255	SYS	The larger the value is, the darker the image at the center value becomes.	1	
05	Adjustment mode	Image Processing	Density adjustment	FAX(black)	Automatic density adjustment	7542		Text/Photo	128	0~255	SYS	When the value increases, the image becomes darker.	1	
05	Adjustment mode	Image Processing	Density adjustment	FAX(black)	Automatic density adjustment	7543		Photo	128	0~255	SYS	When the value increases, the image becomes darker.	1	
05	Adjustment mode	Image Processing	Image	Setting beam level conversion(FAX)	FAX	7595	0	Beamlevel 0/4	0	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Image	Setting beam level conversion(FAX)	FAX	7595	1	Beamlevel 1/4	2	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Image	Setting beam level conversion(FAX)	FAX	7595	2	Beamlevel 2/4	3	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Image	Setting beam level conversion(FAX)	FAX	7595	3	Beamlevel 3/4	4	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Image	Setting beam level conversion(FAX)	FAX	7595	4	Beamlevel 4/4	8	0~10	M	The smaller the value is, the narrower the beam width becomes and the smaller the dots are reproduced.	4	
05	Adjustment mode	Image Processing	Blank page judgment threshold adjustment			7618		PPC/SCN	128	0~255	SYS	The larger the value is, the more the original tends to be judged as a blank page.	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustmen t mode	Image Processin g	ACS judgment threshold			7630		PPC/SCN	70	0~255	SYS	The larger the value is, the more an original tends to be judged as black even at the auto color mode. The smaller value is, the more it tends to be judged as color.	1	Yes
05	Adjustmen t mode	Image Processin g	Stroke adjustmen t	PS/PDF automatic stroke adjustment	600dpi	8239	0	Default setting	0	0-1	SYS	This code is used to change the width of fine line when PS and PDF printing. Automatic stroke adjustment is the function that prevents the width from changing by position. This code sets whether the automatic stroke adjustment is enabled or disabled if automatic stroke adjustment is not included in the print data. If this setting is disabled, the case in which the width of fine line becomes thicker by 1 dot when printed increases. 0: Disabled 1: Enabled	4	
05	Adjustmen t mode	Image Processin g	Stroke adjustmen t	PS/PDF automatic stroke adjustment	600dpi	8239	1	Minimum stroke width when disabled	2	1-2	SYS	This code is used to change the width of fine line when PS and PDF printing. Automatic stroke adjustment is the function that prevents the width from changing by position. This code sets the minimum width of fine line when the automatic stroke adjustment is disabled. For example, if automatic stroke adjustment is disabled and the width of fine line is set to "0" in the PS command, the width of line becomes 1 dot if the value of this code is set to "1", and the width of line becomes 2 dots if the value of this code is set to "2." 1: 1 dot 2: 2 dots	4	
05	Adjustmen t mode	Image Processin g	JPEG compressi on level	NW SCN(color)		8304	0	High quality	128	0-255	SYS	When the value increases, the quality gets better, and the file size gets larger.	4	
05	Adjustmen t mode	Image Processin g	JPEG compressi on level	NW SCN(color)		8304	1	Standard	128	0-255	SYS	When the value increases, the quality gets better, and the file size gets larger.	4	
05	Adjustmen t mode	Image Processin g	JPEG compressi on level	NW SCN(color)		8304	2	Low quality	128	0-255	SYS	When the value increases, the quality gets better, and the file size gets larger.	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustmen t mode	Image Processin g	Backgroun d adjustmen	SCN (color)		8309		Text/Photo	128	0~255	SYS	The smaller the value is, the lighter the background becomes.	1	Yes
05	Adjustmen t mode	Image Processin g	Backgroun d adjustmen	SCN (color)		8310		Text	128	0~255	SYS	The smaller the value is, the lighter the background becomes.	1	Yes
05	Adjustmen t mode	Image Processin g	Backgroun d adjustmen	SCN (color)		8311		Printed image	128	0~255	SYS	The smaller the value is, the lighter the background becomes.	1	Yes
05	Adjustmen t mode	Image Processin g	Fine adjustmen t of black density	SCN (color)		8314		Text/Photo	1	0~4	SYS	The larger the value is, the darker the black side of the image becomes.	1	Yes
05	Adjustmen t mode	Image Processin g	Fine adjustmen t of black density	SCN (color)		8315		Text	0	0~4	SYS	The larger the value is, the darker the black side of the image becomes.	1	Yes
05	Adjustmen t mode	Image Processin g	Fine adjustmen t of black density	SCN (color)		8316		Printed image	0	0~4	SYS	The larger the value is, the darker the black side of the image becomes.	1	Yes
05	Adjustmen t mode	Image Processin g	RGB conversion method selection	SCN (color)		8319		Text/photo	0	0~3	SYS	Sets the color space format of the output image. 0: sRGB 1: AppleRGB 2: ROMMRGB 3: AdobeRGB	1	Yes
05	Adjustmen t mode	Image Processin g	RGB conversion method selection	SCN (color)		8320		Text	0	0~3	SYS	Sets the color space format of the output image. 0: sRGB 1: AppleRGB 2: ROMMRGB 3: AdobeRGB	1	Yes
05	Adjustmen t mode	Image Processin g	RGB conversion method selection	SCN (color)		8321		Printed image	0	0~3	SYS	Sets the color space format of the output image. 0: sRGB 1: AppleRGB 2: ROMMRGB 3: AdobeRGB	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	Saturation adjustment	SCN (color)		8324		Text/photo	128	0~255	SYS	The larger the value is, the brighter the image becomes. The smaller the value is, the duller the image becomes.	1	Yes
05	Adjustment mode	Image Processing	Saturation adjustment	SCN (color)		8325		Text	128	0~255	SYS	The larger the value is, the brighter the image becomes. The smaller the value is, the duller the image becomes.	1	Yes
05	Adjustment mode	Image Processing	Saturation adjustment	SCN (color)		8326		Printed image	128	0~255	SYS	The larger the value is, the brighter the image becomes. The smaller the value is, the duller the image becomes.	1	Yes
05	Adjustment mode	Image Processing	Sharpness adjustment	SCN (color)	Full color	8335		Text	128	0~255	SYS	The larger the value is, the sharper the image becomes. The smaller the value is, the softer the image becomes and the less moire appears.	1	Yes
05	Adjustment mode	Image Processing	Sharpness adjustment	SCN (color)	Full color	8336		Printed image	128	0~255	SYS	The larger the value is, the sharper the image becomes. The smaller the value is, the softer the image becomes and the less moire appears.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	SCN (color)	Manual adjustment/Center value	8339		Text/photo	128	0~255	SYS	When the value increases, the image becomes darker.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	SCN (color)	Manual adjustment/Center value	8340		Text	128	0~255	SYS	When the value increases, the image becomes darker.	1	Yes
05	Adjustment mode	Image Processing	Density adjustment	SCN (color)	Manual adjustment/Center value	8341		Printed image	128	0~255	SYS	When the value increases, the image becomes darker.	1	Yes
05	Adjustment mode	Image Processing	Sharpness adjustment	SCN (color)		8354		Text/photo	128	0~255	SYS	The larger the value is, the sharper the image becomes. The smaller the value is, the softer the image becomes and the less moire appears.	1	
05	Adjustment mode	Image Processing	Background offset adjustment	SCN (color)	Automatic density adjustment	8355		Text/photo	128	0~255	SYS	The larger the value is, the lighter the background becomes. The smaller the value is, the darker it becomes.	1	
05	Adjustment mode	Image Processing	Background offset adjustment	SCN (color)	Manual density adjustment	8356		Text/photo	128	0~255	SYS	The larger the value is, the lighter the background becomes. The smaller the value is, the darker it becomes.	1	
05	Adjustment mode	Image Processing	Background adjustment	SCN (color)		8370		User custom	128	0~255	SYS	When the value increases, the background becomes lighter.	1	
05	Adjustment mode	Image Processing	Fine adjustment of black density	SCN (color)		8371		User custom	0	0~4	SYS	Adjusts the black density of the scanned image. When the value increases, the black density becomes darker.	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustment mode	Image Processing	RGB conversion method selection	SCN (color)		8372		User custom	0	0~3	SYS	Sets the color space format of the output image. 0: sRGB 1: AppleRGB 2: ROMMRGB 3: AdobeRGB	1	
05	Adjustment mode	Image Processing	Saturation adjustment	SCN (color)		8373		User custom	128	0~255	SYS	The larger the value is, the brighter the image becomes. The smaller the value is, the duller the image becomes.	1	
05	Adjustment mode	Image Processing	Sharpness adjustment	SCN (color)	Full color	8375		User custom	128	0~255	SYS	The larger the value is, the sharper the image becomes. The smaller the value is, the softer the image becomes and the less moire appears.	1	
05	Adjustment mode	Image Processing	Density adjustment	SCN (color)	Manual adjustment/Center value	8380		User custom	128	0~255	SYS	When the value increases, the image becomes darker.	1	
05	Adjustment mode	Image Processing	Background offset adjustment	SCN (color)	Automatic density adjustment	8385		Text	128	0~255	SYS	The larger the value is, the less easily the background (low density area) is printed. The smaller the value is, the more easily the background (low density area) is printed.	1	
05	Adjustment mode	Image Processing	Background offset adjustment	SCN (color)	Automatic density adjustment	8386		Printed image	128	0~255	SYS	The larger the value is, the less easily the background (low density area) is printed. The smaller the value is, the more easily the background (low density area) is printed.	1	
05	Adjustment mode	Image Processing	Background offset adjustment	SCN (color)	Automatic density adjustment	8389		User custom	128	0~255	SYS	The larger the value is, the less easily the background (low density area) is printed. The smaller the value is, the more easily the background (low density area) is printed.	1	
05	Adjustment mode	Image Processing	Background offset adjustment	SCN (color)	Manual density adjustment	8390		Text	128	0~255	SYS	The larger the value is, the less easily the background (low density area) is printed. The smaller the value is, the more easily the background (low density area) is printed.	1	
05	Adjustment mode	Image Processing	Background offset adjustment	SCN (color)	Manual density adjustment	8391		Printed image	128	0~255	SYS	The larger the value is, the less easily the background (low density area) is printed. The smaller the value is, the more easily the background (low density area) is printed.	1	
05	Adjustment mode	Image Processing	Background offset adjustment	SCN (color)	Manual density adjustment	8394		User custom	128	0~255	SYS	The larger the value is, the less easily the background (low density area) is printed. The smaller the value is, the more easily the background (low density area) is printed.	1	
05	Adjustment mode	Image Processing	Background offset adjustment	SCN(black)	Automatic density adjustment	8400		Text/Photo	128	0~255	SYS	The larger the value is, the less easily the background (low density area) is printed. The smaller the value is, the more easily the background (low density area) is printed.	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustmen t mode	Image Processin g	ADF scan noise reduction	SCN(color)		8412		User custom	100	0-200	SYS	When the value decreases, the effect of reducing streaks (set with 08-8300) becomes larger. When the value increases, the effect of reducing streaks (set with 08-8300) becomes smaller. When the value is too small, text might be blurry. When "0" is set, this function is disabled.	1	
05	Adjustmen t mode	Image Processin g	ADF scan noise reduction	SCN(color)		8413		Text/Photo	100	0-200	SYS	When the value decreases, the effect of reducing streaks (set with 08-8300) becomes larger. When the value increases, the effect of reducing streaks (set with 08-8300) becomes smaller. When the value is too small, text might be blurry. When "0" is set, this function is disabled.	1	
05	Adjustmen t mode	Image Processin g	ADF scan noise reduction	SCN(color)		8414		Text	100	0-200	SYS	When the value decreases, the effect of reducing streaks (set with 08-8300) becomes larger. When the value increases, the effect of reducing streaks (set with 08-8300) becomes smaller. When the value is too small, text might be blurry. When "0" is set, this function is disabled.	1	
05	Adjustmen t mode	Image Processin g	ADF scan noise reduction	SCN(color)		8415		Photo	100	0-200	SYS	When the value decreases, the effect of reducing streaks (set with 08-8300) becomes larger. When the value increases, the effect of reducing streaks (set with 08-8300) becomes smaller. When the value is too small, text might be blurry. When "0" is set, this function is disabled.	1	
05	Adjustmen t mode	System	Maintenan ce			9043		Equipment number (serial number) entry	-	-	SYS	When this adjustment is performed with this code, the setting code (08-9601) is also performed automatically (9 digits).	1	
05	Adjustmen t mode	System	Image			9104		Compression quality of s SLIM PDF background processing	5	0~10	SYS	0-10 0: High compression, low image quality 10: Low compression, high image quality	1	
05	Adjustmen t mode	System	Image			9149		Saving image position adjustment log	-	-	-	Saves the image position adjustment log to the USB device. Insert the USB device to the equipment before performing this code.	6	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
05	Adjustmen t mode	System	General			9960		Equipment information(SRAM)	Refer to contents	0~2	SYS	Displays the equipment information in SRAM. 0: Not set 1: Destinations other than NAD 2: NAD <Default value> NAD: 2 Others: 1	2	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser			2002		Fuser unit error status counter	0	0~71	M	0: No error 1: C411 2: C412 3: C443 5: C445 6: C450 7: C447 8: C447 9: C449 19: C449 21: C449 22: C449 23: C449 25: C449 27: C449 29: C449 45: C449 62: C452 Other than listed above: C4B0	1	
08	Setting mode	Process	Fuser			2009		Fuser roller temperature on standby(Center thermistor)	Refer to contents	0~12	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 130°C 12: 135°C <Default value> e-STUDIO207L/257/307: 2 e-STUDIO357/457/507: 4	1	
08	Setting mode	Process	Fuser			2010		Fuser roller temperature during printing(Center thermistor/Plain paper)	Refer to contents	0~14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 135°C 14: 135°C <Default value> e-STUDIO207L/257/307: 2 e-STUDIO357/457/507: 4	1	
08	Setting mode	Process	Fuser			2028		Fuser roller temperature during printing(Center thermistor/Thick paper 3)	Refer to contents	0~14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 130°C 14: 135°C <Default value> e-STUDIO207L/257/307: 4 e-STUDIO357/457/507: 8	1	
08	Setting mode	Process	Fuser			2031		Pre-running time for first printing(Thick paper 3)	10	0~15	M	0: Invalid 1: 1 sec. 2: 2 sec. 3: 3 sec. 4: 4 sec. 5: 5 sec. 6: 6 sec. 7: 7 sec. 8: 8 sec. 9: 9 sec. 10: 10 sec. 11: 12 sec. 12: 14 sec. 13: 16 sec. 14: 18 sec. 15: 20 sec.	1	
08	Setting mode	Process	Fuser			2040		Drop control when ready	0	0~2	M	0: Invalid, 1:Valid, 2: Invalid in low temperature	1	
08	Setting mode	Process	Fuser	Temperature drop setting in ready status (Center thermistor)		2041	0	The first drop	1	0~10	M	Setting value x -5°C: from 0°C to -50°C	4	
08	Setting mode	Process	Fuser	Temperature drop setting in ready status (Center thermistor)		2041	1	The second drop	1	0~10	M	Setting value x -5°C: from 0°C to -50°C	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser	Temperature drop setting in ready status (Center thermistor)		2041	2	The third drop	1	0~10	M	Setting value x -5°C: from 0°C to -50°C	4	
08	Setting mode	Process	Fuser	Temperature drop setting in ready status (Center thermistor)		2041	3	The fourth drop	1	0~10	M	Setting value x -5°C: from 0°C to -50°C	4	
08	Setting mode	Process	Fuser	Energy Saving Mode	Fuser roller temperature	2042		Center thermistor	0	0~13	M	0: OFF 1: 40°C 2: 50°C 3: 60°C 4: 70°C 5: 80°C 6: 90°C 7: 100°C 8: 110°C 9: 120°C 10: 130°C 11: 140°C 12: 150°C 13: 160°C	1	Yes
08	Setting mode	Process	Fuser			2049		Fuser roller temperature during printing(Center thermistor/Thick paper 1)	Refer to contents	0~14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 130°C 14: 135°C <Default value> e-STUDIO207L/257/307: 2 e-STUDIO357/457/507: 6	1	
08	Setting mode	Process	Fuser			2050		Fuser roller temperature during printing(Center thermistor /Thick paper 2)	Refer to contents	0~14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 130°C 14: 135°C <Default value> e-STUDIO207L/257/307: 4 e-STUDIO357/457/507: 8	1	
08	Setting mode	Process	Fuser			2051		Fuser roller temperature during printing(Center thermistor/OHP film)	Refer to contents	0~14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 130°C 14: 135°C <Default value> e-STUDIO207L/257/307: 2 e-STUDIO357/457/507: 4	1	
08	Setting mode	Process	Fuser			2052		Pre-running time for first printing (OHP film)	0	0~15	M	0: Invalid 1: 1 sec. 2: 2 sec. 3: 3 sec. 4: 4 sec. 5: 5 sec. 6: 6 sec. 7: 7 sec. 8: 8 sec. 9: 9 sec. 10: 10 sec. 11: 12 sec. 12: 14 sec. 13: 16 sec. 14: 18 sec. 15: 20 sec.	1	
08	Setting mode	Process	Fuser			2053		Pre-running time for first printing(Plain paper/Low temperature)	0	0~15	M	0: Invalid 1: 1 sec. 2: 2 sec. 3: 3 sec. 4: 4 sec. 5: 5 sec. 6: 6 sec. 7: 7 sec. 8: 8 sec. 9: 9 sec. 10: 10 sec. 11: 12 sec. 12: 14 sec. 13: 16 sec. 14: 18 sec. 15: 20 sec.	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser			2054		Pre-running time for first printing(Thick paper 1)	10	0~15	M	0: Invalid 1: 1 sec. 2: 2 sec. 3: 3 sec. 4: 4 sec. 5: 5 sec. 6: 6 sec. 7: 7 sec. 8: 8 sec. 9: 9 sec. 10: 10 sec. 11: 12 sec. 12: 14 sec. 13: 16 sec. 14: 18 sec. 15: 20 sec.	1	
08	Setting mode	Process	Fuser			2055		Pre-running time for first printing(Thick paper 2)	10	0~15	M	0: Invalid 1: 1 sec. 2: 2 sec. 3: 3 sec. 4: 4 sec. 5: 5 sec. 6: 6 sec. 7: 7 sec. 8: 8 sec. 9: 9 sec. 10: 10 sec. 11: 12 sec. 12: 14 sec. 13: 16 sec. 14: 18 sec. 15: 20 sec.	1	
08	Setting mode	Process	Fuser			2075		Pre-running operation cycle in ready status and energy saving mode (Times of heat source ON)	Refer to contents	0~6	M	0: Not controlled 1: 180 times 2: 360 times 3: 540 times 4: 720 times 5: 900 times 6: 1080 times <Default value> e-STUDIO207L/257/307: 2 e-STUDIO357/457/507: 3	1	
08	Setting mode	Process	Fuser			2100		Temperature setting of warming-up(Center thermistor)	Refer to contents	0~14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 130°C 14: 135°C <Default value> e-STUDIO207L/257/307: 0 e-STUDIO357/457/507: 4	1	
08	Setting mode	Process	Fuser			2101		Temperature setting of warming-up(Side thermistor)	Refer to contents	0~14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 130°C 14: 135°C <Default value> e-STUDIO207L/257/307: 0 e-STUDIO357/457/507: 4	1	
08	Setting mode	Process	Fuser	Fusing correction control temperature immediately after warm-up		2108	0	Center (1st correction)	Refer to contents	0-6	M	0: None 1: 5℃ 2: 10℃ 3: 15℃ 4: 20℃ 5: 25℃ 6: 30℃ <Default value> e-STUDIO207L/257/307: 0 e-STUDIO357/457/507: 4	4	
08	Setting mode	Process	Fuser	Fusing correction control temperature immediately after warm-up		2108	1	Side (1st correction)	Refer to contents	0-6	M	0: None 1: 5℃ 2: 10℃ 3: 15℃ 4: 20℃ 5: 25℃ 6: 30℃ <Default value> e-STUDIO207L/257/307: 0 e-STUDIO357/457/507: 4	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser	Fusing correction control temperature immediately after warm-up		2108	2	Supplementary (1st correction)	4	0-6	M	0: None 1: 5℃ 2: 10℃ 3: 15℃ 4: 20℃ 5: 25℃ 6: 30℃ * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Fusing correction control temperature immediately after warm-up		2108	3	Center (2nd correction)	Refer to contents	0-6	M	0: None 1: 5℃ 2: 10℃ 3: 15℃ 4: 20℃ 5: 25℃ 6: 30℃ <Default value> e-STUDIO207L/257/307/457/507: 0 e-STUDIO357: 2	4	
08	Setting mode	Process	Fuser	Fusing correction control temperature immediately after warm-up		2108	4	Side (2nd correction)	Refer to contents	0-6	M	0: None 1: 5℃ 2: 10℃ 3: 15℃ 4: 20℃ 5: 25℃ 6: 30℃ <Default value> e-STUDIO207L/257/307/457/507: 0 e-STUDIO357: 2	4	
08	Setting mode	Process	Fuser	Fusing correction control temperature immediately after warm-up		2108	5	Supplementary (2nd correction)	Refer to contents	0-6	M	0: None 1: 5℃ 2: 10℃ 3: 15℃ 4: 20℃ 5: 25℃ 6: 30℃ <Default value> e-STUDIO457/507: 0 e-STUDIO357: 2 * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser			2111		Pre-running time (Normal temperature)	3	0~18	M	0: Disabled 1: 1 sec. 2: 2 sec. 3: 3 sec. 4: 4 sec. 5: 5 sec. 6: 6 sec. 7: 7 sec. 8: 8 sec. 9: 9 sec. 10: 10 sec. 11: 15 sec. 12: 20 sec. 13: 25 sec. 14: 30 sec. 15: 40 sec. 16: 50 sec. 17: 60 sec. 18: 150 sec.	1	
08	Setting mode	Process	Fuser			2120		Fuser roller temperature in ready status(Side thermistor)	Refer to contents	0~12	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165° C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 130°C 12: 135°C <Default value> e-STUDIO207L/257/307: 2 e-STUDIO357/457/507: 4	1	
08	Setting mode	Process	Fuser	Temperature drop setting in ready status (Side thermistor)		2121	0	The first drop	1	0~10	M	Setting value x -5°C: from 0°C to -50°C	4	
08	Setting mode	Process	Fuser	Temperature drop setting in ready status (Side thermistor)		2121	1	The second drop	1	0~10	M	Setting value x -5°C: from 0°C to -50°C	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser	Temperature drop setting in ready status (Side thermistor)		2121	2	The third drop	1	0~10	M	Setting value x -5°C: from 0°C to -50°C	4	
08	Setting mode	Process	Fuser	Temperature drop setting in ready status (Side thermistor)		2121	3	The fourth drop	1	0~10	M	Setting value x -5°C: from 0°C to -50°C	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting in ready status (Center thermistor)		2133	0	The first drop	30	10~60	M	Setting value x 1 min.: from 10 to 60 min. later	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting in ready status (Center thermistor)		2133	1	The second drop	30	10~60	M	Setting value x 1 min.: from 10 to 60 min. later	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting in ready status (Center thermistor)		2133	2	The third drop	30	10~60	M	Setting value x 1 min.: from 10 to 60 min. later	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting in ready status (Center thermistor)		2133	3	The fourth drop	30	10~60	M	Setting value x 1 min.: from 10 to 60 min. later	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting in ready status (Side thermistor)		2134	0	The first drop	30	10~60	M	Setting value x 1 min.: from 10 to 60 min. later	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting in ready status (Side thermistor)		2134	1	The second drop	30	10~60	M	Setting value x 1 min.: from 10 to 60 min. later	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting in ready status (Side thermistor)		2134	2	The third drop	30	10~60	M	Setting value x 1 min.: from 10 to 60 min. later	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser	Temperature drop switching time setting in ready status (Side thermistor)		2134	3	The fourth drop	30	10~60	M	Setting value x 1 min.: from 10 to 60 min. later	4	
08	Setting mode	Process	Fuser			2140		Fuser roller temperature during printing(Side thermistor/Plain paper)	Refer to contents	0~14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 130°C 14: 135°C <Default value> e-STUDIO207L/257/307: 2 e-STUDIO357/457/507: 4	1	
08	Setting mode	Process	Fuser			2141		Fuser roller temperature during printing(Side thermistor/Thick paper 1)	Refer to contents	0~14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 130°C 14: 135°C <Default value> e-STUDIO207L/257/307: 2 e-STUDIO357/457/507: 6	1	
08	Setting mode	Process	Fuser			2142		Fuser roller temperature during printing(Side thermistor/Thick paper 2)	Refer to contents	0~14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 130°C 14: 135°C <Default value> e-STUDIO207L/257/307: 4 e-STUDIO357/457/507: 8	1	
08	Setting mode	Process	Fuser			2143		Fuser roller temperature during printing(Side thermistor/OHP film)	Refer to contents	0~14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 130°C 14: 135°C <Default value> e-STUDIO207L/257/307: 2 e-STUDIO357/457/507: 4	1	
08	Setting mode	Process	Fuser	Temperature drop setting during printing (Center thermistor)		2190	0	The first drop	Refer to contents	0~10	M	Setting value x -5°C: from 0°C to -50°C <Default value> e-STUDIO207L/257/307: 0 e-STUDIO357/457/507: 2	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser	Temperature drop setting during printing (Center thermistor)		2190	1	The second drop	Refer to contents	0~10	M	Setting value x -5°C: from 0°C to -50°C <Default value> e-STUDIO207L/257/307: 1 e-STUDIO357/457/507: 2	4	
08	Setting mode	Process	Fuser	Temperature drop setting during printing (Center thermistor)		2190	2	The third drop	Refer to contents	0~10	M	Setting value x -5°C: from 0°C to -50°C <Default value> e-STUDIO207L/257/307: 1 e-STUDIO357/457/507: 3	4	
08	Setting mode	Process	Fuser	Temperature drop setting during printing (Center thermistor)		2190	3	The fourth drop	Refer to contents	0~10	M	Setting value x -5°C: from 0°C to -50°C <Default value> e-STUDIO207L/257/307: 1 e-STUDIO357/457/507: 3	4	
08	Setting mode	Process	Fuser	Temperature drop setting during printing (Side thermistor)		2191	0	The first drop	Refer to contents	0~10	M	Setting value x -5°C: from 0°C to -50°C <Default value> e-STUDIO207L/257/307: 0 e-STUDIO357/457/507: 2	4	
08	Setting mode	Process	Fuser	Temperature drop setting during printing (Side thermistor)		2191	1	The second drop	Refer to contents	0~10	M	Setting value x -5°C: from 0°C to -50°C <Default value> e-STUDIO207L/257/307: 1 e-STUDIO357/457/507: 3	4	
08	Setting mode	Process	Fuser	Temperature drop setting during printing (Side thermistor)		2191	2	The third drop	Refer to contents	0~10	M	Setting value x -5°C: from 0°C to -50°C <Default value> e-STUDIO207L/257/307: 1 e-STUDIO357/457/507: 4	4	
08	Setting mode	Process	Fuser	Temperature drop setting during printing (Side thermistor)		2191	3	The fourth drop	Refer to contents	0~10	M	Setting value x -5°C: from 0°C to -50°C <Default value> e-STUDIO207L/257/307: 1 e-STUDIO357/457/507: 4	4	
08	Setting mode	Process	Fuser			2192		Fuser roller temperature during printing(Side thermistor/Thick paper 3)	Refer to contents	0~14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 130°C 14: 135°C <Default value> e-STUDIO207L/257/307: 4 e-STUDIO357/457/507: 8	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser			2194		Fuser roller temperature during printing(Center thermistor/Envelope)	Refer to contents	0~14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 130°C 14: 135°C <Default value> e-STUDIO207L/257/307: 6 e-STUDIO357/457/507: 8	1	
08	Setting mode	Process	Fuser			2195		Fuser roller temperature during printing(Side thermistor/Envelope)	Refer to contents	0~14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 130°C 14: 135°C <Default value> e-STUDIO207L/257/307: 4 e-STUDIO357/457/507: 6	1	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing on thick paper (Center thermistor)		2198	0	The first drop	5	0~200	M	Setting value x 5 seconds: from 0 to 1000 seconds	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing on thick paper (Center thermistor)		2198	1	The second drop	12	0~200	M	Setting value x 5 seconds: from 0 to 1000 seconds	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing on thick paper (Center thermistor)		2198	2	The third drop	24	0~200	M	Setting value x 5 seconds: from 0 to 1000 seconds	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing on thick paper (Center thermistor)		2198	3	The fourth drop	36	0~200	M	Setting value x 5 seconds: from 0 to 1000 seconds	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing on thick paper (Side thermistor)		2199	0	The first drop	5	0~200	M	Setting value x 5 seconds: from 0 to 1000 seconds	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing on thick paper (Side thermistor)		2199	1	The second drop	12	0~200	M	Setting value x 5 seconds: from 0 to 1000 seconds	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing on thick paper (Side thermistor)		2199	2	The third drop	24	0~200	M	Setting value x 5 seconds: from 0 to 1000 seconds	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing on thick paper (Side thermistor)		2199	3	The fourth drop	36	0~200	M	Setting value x 5 seconds: from 0 to 1000 seconds	4	
08	Setting mode	Process	Fuser	Dropping temperature setting when printing on thick paper(Center thermistor)		2200	0	First drop	Refer to contents	0~10	M	Setting value x 5°C: 0 to 50°C <Default value> e-STUDIO207L/257/307: 0 e-STUDIO357/457/507: 2	4	
08	Setting mode	Process	Fuser	Dropping temperature setting when printing on thick paper(Center thermistor)		2200	1	Second drop	Refer to contents	0~10	M	Setting value x 5°C: 0 to 50°C <Default value> e-STUDIO207L/257/307: 1 e-STUDIO357/457/507: 2	4	
08	Setting mode	Process	Fuser	Dropping temperature setting when printing on thick paper(Center thermistor)		2200	2	Third drop	Refer to contents	0~10	M	Setting value x 5°C: 0 to 50°C <Default value> e-STUDIO207L/257/307: 1 e-STUDIO357/457/507: 3	4	
08	Setting mode	Process	Fuser	Dropping temperature setting when printing on thick paper(Center thermistor)		2200	3	Fourth drop	Refer to contents	0~10	M	Setting value x 5°C: 0 to 50°C <Default value> e-STUDIO207L/257/307: 1 e-STUDIO357/457/507: 3	4	
08	Setting mode	Process	Fuser	Temperature drop setting during printing on thick paper (Side thermistor)		2201	0	The first drop	Refer to contents	0~10	M	Setting value x -5°C: from 0°C to -50°C <Default value> e-STUDIO207L/257/307: 0 e-STUDIO357/457/507: 2	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser	Temperature drop setting during printing on thick paper (Side thermistor)		2201	1	The second drop	Refer to contents	0~10	M	Setting value x -5°C: from 0°C to -50°C <Default value> e-STUDIO207L/257/307: 1 e-STUDIO357/457/507: 3	4	
08	Setting mode	Process	Fuser	Temperature drop setting during printing on thick paper (Side thermistor)		2201	2	The third drop	Refer to contents	0~10	M	Setting value x -5°C: from 0°C to -50°C <Default value> e-STUDIO207L/257/307: 1 e-STUDIO357/457/507: 4	4	
08	Setting mode	Process	Fuser	Temperature drop setting during printing on thick paper (Side thermistor)		2201	3	The fourth drop	Refer to contents	0~10	M	Setting value x -5°C: from 0°C to -50°C <Default value> e-STUDIO207L/257/307: 1 e-STUDIO357/457/507: 4	4	
08	Setting mode	Process	Fuser	Temperature control lower limit (Plain paper; Normal/High temperature)		2205	0	Normal temperature/Center	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 125°C 12: 120°C <Default value> e-STUDIO207L/257/307: 3 e-STUDIO357/457/507: 6	4	
08	Setting mode	Process	Fuser	Temperature control lower limit (Plain paper; Normal/High temperature)		2205	1	Normal temperature/Side	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 125°C 12: 120°C <Default value> e-STUDIO207L/257/307: 3 e-STUDIO357/457/507: 6	4	
08	Setting mode	Process	Fuser	Temperature control lower limit (Plain paper; Normal/High temperature)		2205	2	High temperature/Center	3	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 125°C 12: 120°C	4	
08	Setting mode	Process	Fuser	Temperature control lower limit (Plain paper; Normal/High temperature)		2205	3	High temperature/Side	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 125°C 12: 120°C <Default value> e-STUDIO207L/257/307: 3 e-STUDIO357/457/507: 2	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser	Temperature control lower limit (Plain paper/Low temperature)		2206	0	Center thermistor	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 125°C 12: 120°C <Default value> e-STUDIO207L/257/307: 3 e-STUDIO357/457/507: 5	4	
08	Setting mode	Process	Fuser	Temperature control lower limit (Plain paper/Low temperature)		2206	1	Side thermistor	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 125°C 12: 120°C <Default value> e-STUDIO207L/257/307: 3 e-STUDIO357/457/507: 4	4	
08	Setting mode	Process	Fuser	Temperature control lower limit (OHP film)		2207	0	Center thermistor	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 125°C 12: 120°C <Default value> e-STUDIO207L/257/307: 3 e-STUDIO357/457/507: 5	4	
08	Setting mode	Process	Fuser	Temperature control lower limit (OHP film)		2207	1	Side thermistor	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 125°C 12: 120°C <Default value> e-STUDIO207L/257/307: 3 e-STUDIO357/457/507: 5	4	
08	Setting mode	Process	Fuser	Temperature control lower limit (Thick paper 1)		2208	0	Normal temperature/Center	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 125°C 12: 120°C <Default value> e-STUDIO207L/257/307: 3 e-STUDIO357/457/507: 6	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser	Temperature control lower limit (Thick paper 1)		2208	1	Normal temperature/Side	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 125°C 12: 120°C <Default value> e-STUDIO207L/257/307: 3 e-STUDIO357/457/507: 6	4	
08	Setting mode	Process	Fuser	Temperature control lower limit (Thick paper 1)		2208	2	Low temperature/Center	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 125°C 12: 120°C <Default value> e-STUDIO207L/257/307: 3 e-STUDIO357/457/507: 5	4	
08	Setting mode	Process	Fuser	Temperature control lower limit (Thick paper 1)		2208	3	Low temperature/Side	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 125°C 12: 120°C <Default value> e-STUDIO207L/257/307: 3 e-STUDIO357/457/507: 4	4	
08	Setting mode	Process	Fuser	Temperature control lower limit (Thick paper 1)		2208	4	High temperature/Center	3	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 125°C 12: 120°C	4	
08	Setting mode	Process	Fuser	Temperature control lower limit (Thick paper 1)		2208	5	High temperature/Side	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 125°C 12: 120°C <Default value> e-STUDIO207L/257/307: 3 e-STUDIO357/457/507: 2	4	
08	Setting mode	Process	Fuser	Temperature control lower limit (Thick paper 2)		2209	0	Center thermistor	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 125°C 12: 120°C <Default value> e-STUDIO207L/257/307: 4 e-STUDIO357/457/507: 8	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser	Temperature control lower limit (Thick paper 2)		2209	1	Side thermistor	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 125°C 12: 120°C <Default value> e-STUDIO207L/257/307: 4 e-STUDIO357/457/507: 8	4	
08	Setting mode	Process	Fuser	Temperature control lower limit (Thick paper 3)		2210	0	Center thermistor	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 125°C 12: 120°C <Default value> e-STUDIO207L/257/307: 4 e-STUDIO357/457/507: 8	4	
08	Setting mode	Process	Fuser	Temperature control lower limit (Thick paper 3)		2210	1	Side thermistor	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 125°C 12: 120°C <Default value> e-STUDIO207L/257/307: 4 e-STUDIO357/457/507: 8	4	
08	Setting mode	Process	Fuser	Temperature control lower limit (Envelope)		2211	0	Center thermistor	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 125°C 12: 120°C <Default value> e-STUDIO207L/257/307: 6 e-STUDIO357/457/507: 8	4	
08	Setting mode	Process	Fuser	Temperature control lower limit (Envelope)		2211	1	Side thermistor	Refer to contents	0~12	M	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C 8: 170°C 9: 175°C 10: 180°C 11: 125°C 12: 120°C <Default value> e-STUDIO207L/257/307: 4 e-STUDIO357/457/507: 6	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing (Center thermistor)		2212	0	The first drop	5	0~200	M	Setting value x 5 sec.: from 0 to 1,000 sec. later	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing (Center thermistor)		2212	1	The second drop	12	0~200	M	Setting value x 5 sec.: from 0 to 1,000 sec. later	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing (Center thermistor)		2212	2	The third drop	24	0~200	M	Setting value x 5 sec.: from 0 to 1,000 sec. later	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing (Center thermistor)		2212	3	The fourth drop	36	0~200	M	Setting value x 5 sec.: from 0 to 1,000 sec. later	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing (Side thermistor)		2213	0	The first drop	5	0~200	M	Setting value x 5 sec.: from 0 to 1,000 sec. later	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing (Side thermistor)		2213	1	The second drop	12	0~200	M	Setting value x 5 sec.: from 0 to 1,000 sec. later	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing (Side thermistor)		2213	2	The third drop	24	0~200	M	Setting value x 5 sec.: from 0 to 1,000 sec. later	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing (Side thermistor)		2213	3	The fourth drop	36	0~200	M	Setting value x 5 sec.: from 0 to 1,000 sec. later	4	
08	Setting mode	Process	Fuser	Energy Saving Mode	Fuser roller temperature	2250		Side thermistor	0	0~13	M	0: OFF 1: 40°C 2: 50°C 3: 60°C 4: 70°C 5: 80°C 6: 90°C 7: 100°C 8: 110°C 9: 120°C 10: 130°C 11: 140°C 12: 150°C 13: 160°C	1	Yes
08	Setting mode	Process	Fuser			2282		Pre-running time for first printing(Envelope)	10	0~15	M	0: Invalid 1: 1 sec. 2: 2 sec. 3: 3 sec. 4: 4 sec. 5: 5 sec. 6: 6 sec. 7: 7 sec. 8: 8 sec. 9: 9 sec. 10: 10 sec. 11: 12 sec. 12: 14 sec. 13: 16 sec. 14: 18 sec. 15: 20 sec.	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Developer			2827		Developer bias AC control ON/OFF	1	0~2	M	0: ON 1: ON-OFF 2: OFF	1	
08	Setting mode	Process	Process			2835		Switching of recycled toner saving control	0	0~1	M	0: Switched 1: Not switched	1	
08	Setting mode	Process	Process			2837		Correction by temperature/humidity	0	0~3	M	Sets the correction by temperature/humidity. 0: All valid 1: All invalid 2: Valid only in autotoner sensor 3: All valid except transfer and separation	1	
08	Setting mode	Process	Process			2847		Life correction switching of drum reverse rotation amount	6	0~30	M	Set value x 4 msec. = Drum rotation time e-STUDIO207L/257/307: 0: No correction 1 to 30: Corrected (4 to 120 msec.: approx. 0.5 to 16mm) e-STUDIO357/457/507: 0: No correction 1 to 30: Corrected (4 to 120 msec.: approx. 0.8 to 25mm)	1	
08	Setting mode	Process	Process			2848		Life correction switching of normal rotation amount after drum reverse rotation	Refer to contents	0~30	M	Set value x 4 msec. = Drum rotation time e-STUDIO207L/257/307: 0: No correction 1 to 30: Corrected (4 to 120 msec.: approx. 0.5 to 16mm) e-STUDIO357/457/507: 0: No correction 1 to 30: Corrected (4 to 120 msec.: approx. 0.8 to 25mm) <Default value> e-STUDIO207L/257/307: 14 e-STUDIO357/457/507: 13	1	
08	Setting mode	Process	Developer	Developer bias Hi1 correction (Normal)		2920	0	PRT	128	0~255	M	Corrects the value of the developer bias adjustment (05-2020).	4	
08	Setting mode	Process	Developer	Developer bias Hi1 correction (Normal)		2920	2	PPC	128	0~255	M	Corrects the value of the developer bias adjustment (05-2020).	4	
08	Setting mode	Process	Developer	Developer bias Hi1 correction (Text)		2920	3	PPC	128	0~255	M	Corrects the value of the developer bias adjustment (05-2020).	4	
08	Setting mode	Process	Developer	Developer bias Hi1 correction (Photo)		2920	4	PPC	128	0~255	M	Corrects the value of the developer bias adjustment (05-2020).	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Developer	Developer bias Hi1 correction(FAX)		2920	6	FAX	128	0~255	M	Corrects the value of the developer bias adjustment (05-2020).	4	
08	Setting mode	Process	Developer	Developer bias Hi1 correction (hardcopy security printing)		2920	7	PRT	128	0~255	M	Corrects the value of the developer bias adjustment (05-2020).	4	
08	Setting mode	Process	Developer	Developer bias Hi1 correction(Text/Photo/ OHP film)		2921	0	PRT	108	0~255	M	Corrects the value of the developer bias adjustment (05-2020).	4	
08	Setting mode	Process	Developer	Developer bias Hi1 correction(Text/Photo/ OHP film)		2921	2	PPC	108	0~255	M	Corrects the value of the developer bias adjustment (05-2020).	4	
08	Setting mode	Process	Developer	Developer bias Hi1 correction(Text/OHP film)		2921	3	PPC	108	0~255	M	Corrects the value of the developer bias adjustment (05-2020).	4	
08	Setting mode	Process	Developer	Developer bias Hi1 correction(Photo/OHP film)		2921	4	PPC	108	0~255	M	Corrects the value of the developer bias adjustment (05-2020).	4	
08	Setting mode	Process	Developer			2922		Developer bias Hi2 correction	124	0~255	M	Corrects the value of the developer bias adjustment (05-2020).	1	
08	Setting mode	Process	Charger	Main charger bias correction (Normal)		2926	0	PRT	128	0~255	M	Corrects the value of the main charger bias adjustment(05-2040).	4	
08	Setting mode	Process	Charger	Main charger bias correction (Normal)		2926	2	PPC	128	0~255	M	Corrects the value of the main charger bias adjustment(05-2040).	4	
08	Setting mode	Process	Charger	Main charger bias correction (Text)		2926	3	PPC	128	0~255	M	Corrects the value of the main charger bias adjustment(05-2040).	4	
08	Setting mode	Process	Charger	Main charger bias correction (Photo)		2926	4	PPC	128	0~255	M	Corrects the value of the main charger bias adjustment(05-2040).	4	
08	Setting mode	Process	Charger	Main charger bias correction (FAX)		2926	6	PPC	128	0~255	M	Corrects the value of the main charger bias adjustment(05-2040).	4	
08	Setting mode	Process	Charger	Main charger bias correction (hardcopy security printing)		2926	7	PRT	128	0~ 255	M	Corrects the value of the main charger bias adjustment (05-2040).	4	
08	Setting mode	Process	Transfer			2928	0	Transfer transformer DC correction (H)	128	0~255	M	Corrects the value of the transfer transformer DC output adjustment (05-2052).	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Transfer			2928	1	Transfer transformer DC correction (C)	128	0~255	M	Corrects the value of the transfer transformer DC output adjustment (05-2052).	4	
08	Setting mode	Process	Transfer			2928	2	Transfer transformer DC correction (L)	112	0~255	M	Corrects the value of the transfer transformer DC output adjustment (05-2052).	4	
08	Setting mode	Process	Transfer			2929	0	Thick 1 transfer correction (H)	Refer to contents	0~255	M	The output value of the transfer bias at the leading edge of paper is corrected. <Default value> e-STUDIO207L/257/307: 128 e-STUDIO357/457/507: 132	4	
08	Setting mode	Process	Transfer			2929	1	Thick 1 transfer correction (C)	Refer to contents	0~255	M	The output value of the transfer bias at the center of the paper is corrected. <Default value> e-STUDIO207L/257/307: 128 e-STUDIO357/457/507: 132	4	
08	Setting mode	Process	Transfer			2929	2	Thick 1 transfer correction (L)	Refer to contents	0~255	M	The output value of the transfer bias at the trailing edge of paper is corrected. <Default value> e-STUDIO207L/257/307: 128 e-STUDIO357/457/507: 124	4	
08	Setting mode	Process	Transfer			2930	0	Thick 2 transfer correction (H)	Refer to contents	0~255	M	The output value of the transfer bias at the leading edge of paper is corrected. <Default value> e-STUDIO207L/257/307: 166 e-STUDIO357/457/507: 185	4	
08	Setting mode	Process	Transfer			2930	1	Thick 2 transfer correction (C)	Refer to contents	0~255	M	The output value of the transfer bias at the leading edge of paper is corrected. <Default value> e-STUDIO207L/257/307: 146 e-STUDIO357/457/507: 152	4	
08	Setting mode	Process	Transfer			2930	2	Thick 2 transfer correction (L)	Refer to contents	0~255	M	The output value of the transfer bias at the trailing edge of paper is corrected. <Default value> e-STUDIO207L/257/307: 124 e-STUDIO357/457/507: 112	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Transfer			2932	0	OHP film transfer correction (H)	Refer to contents	0~255	M	The output value of the transfer bias at the leading edge of paper is corrected. <Default value> e-STUDIO207L/257/307: 110 e-STUDIO357/457/507: 118	4	
08	Setting mode	Process	Transfer			2932	1	OHP film transfer correction (C)	Refer to contents	0~255	M	The output value of the transfer bias at the center of the paper is corrected. <Default value> e-STUDIO207L/257/307: 110 e-STUDIO357/457/507: 118	4	
08	Setting mode	Process	Transfer			2932	2	OHP film transfer correction (L)	Refer to contents	0~255	M	The output value of the transfer bias at the trailing edge of paper is corrected. <Default value> e-STUDIO207L/257/307: 114 e-STUDIO357/457/507: 110	4	
08	Setting mode	Process	Transfer			2933	0	Envelope transfer correction (H)	Refer to contents	0~255	M	The output value of the transfer bias at the leading edge of paper is corrected. <Default value> e-STUDIO207L/257/307: 168 e-STUDIO357/457/507: 189	4	
08	Setting mode	Process	Transfer			2933	1	Envelope transfer correction (C)	Refer to contents	0~255	M	The output value of the transfer bias at the center of the paper is corrected. <Default value> e-STUDIO207L/257/307: 146 e-STUDIO357/457/507: 152	4	
08	Setting mode	Process	Transfer			2933	2	Envelope transfer correction (L)	Refer to contents	0~255	M	The output value of the transfer bias at the trailing edge of paper is corrected. <Default value> e-STUDIO207L/257/307: 134 e-STUDIO357/457/507: 136	4	
08	Setting mode	Process	Separation			2934	0	Separation transformer DC correction (H)	128	0~255	M	Corrects the value of the separation transformer DC output adjustment (05-2078).	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Separation			2934	1	Separation transformer DC correction (H)	Refer to contents	0~255	M	Corrects the value of the separation transformer DC output adjustment (05-2078). <Default value> e-STUDIO207L/257/307: 118 e-STUDIO357/457/507: 121	4	
08	Setting mode	Process	Separation			2934	2	Separation transformer DC correction (L)	Refer to contents	0~255	M	Corrects the value of the separation transformer DC output adjustment (05-2078). <Default value> e-STUDIO207L/257/307: 118 e-STUDIO357/457/507: 121	4	
08	Setting mode	Process	Separation			2935	0	Separation correction value at Duplex printing (H)	128	0~255	M		4	
08	Setting mode	Process	Separation			2935	1	Separation correction value at Duplex printing (C)	128	0~255	M		4	
08	Setting mode	Process	Separation			2935	2	Separation correction value at Duplex printing (L)	128	0~255	M		4	
08	Setting mode	Process	Separation			2936	0	Separation correction value for transparencies (H)	128	0~255	M		4	
08	Setting mode	Process	Separation			2936	1	Separation correction value for transparencies (C)	128	0~255	M		4	
08	Setting mode	Process	Separation			2936	2	Separation correction value for transparencies (L)	128	0~255	M		4	
08	Setting mode	Process	Laser	Laser power correction (Normal)		2940	0	PRT	128	0~255	M	Corrects the value of the laser power adjustment (05-2250).	4	
08	Setting mode	Process	Laser	Laser power correction (Text/Photo)		2940	2	PPC	128	0~255	M	Corrects the value of the laser power adjustment (05-2250).	4	
08	Setting mode	Process	Laser	Laser power correction (Text)		2940	3	PPC	128	0~255	M	Corrects the value of the laser power adjustment (05-2250).	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Laser	Laser power correction (Photo)		2940	4	PPC	128	0~255	M	Corrects the value of the laser power adjustment (05-2250).	4	
08	Setting mode	Process	Laser	Laser power correction (FAX)		2940	6	PPC	128	0~255	M	Corrects the value of the laser power adjustment (05-2250).	4	
08	Setting mode	Process	Process	Laser output correction (hardcopy security printing)		2940	7	PRT	128	0~255	M	Corrects the value of the laser power adjustment (05-2250).	4	
08	Setting mode	Process	Transfer			2961	0	Thick 3 transfer correction (H)	Refer to contents	0~255	M	<Default value> e-STUDIO207L/257/307: 168 e-STUDIO357/457/507: 189	4	
08	Setting mode	Process	Transfer			2961	1	Thick 3 transfer correction (C)	Refer to contents	0~255	M	<Default value> e-STUDIO207L/257/307: 146 e-STUDIO357/457/507: 152	4	
08	Setting mode	Process	Transfer			2961	2	Thick 3 transfer correction (L)	Refer to contents	0~255	M	<Default value> e-STUDIO207L/257/307: 117 e-STUDIO357/457/507: 108	4	
08	Setting mode	Process	Transfer			2962	0	2-sided thick paper transfer correction (H)	Refer to contents	0~255	M	<Default value> e-STUDIO207L/257/307: 133 e-STUDIO357/457/507: 132	4	
08	Setting mode	Process	Transfer			2962	1	2-sided thick paper transfer correction (C)	Refer to contents	0~255	M	<Default value> e-STUDIO207L/257/307: 133 e-STUDIO357/457/507: 132	4	
08	Setting mode	Process	Transfer			2962	2	2-sided thick paper transfer correction (L)	Refer to contents	0~255	M	<Default value> e-STUDIO207L/257/307: 124 e-STUDIO357/457/507: 120	4	
08	Setting mode	Process	Transfer			2963	0	Thin paper transfer leading edge output correction (H)	Refer to contents	0~255	M	<Default value> e-STUDIO207L/257/307: 110 e-STUDIO357/457/507: 98	4	
08	Setting mode	Process	Transfer			2963	1	Thin paper transfer center output correction (C)	Refer to contents	0~255	M	<Default value> e-STUDIO207L/257/307: 114 e-STUDIO357/457/507: 102	4	
08	Setting mode	Process	Transfer			2963	2	Thin paper transfer trailing edge output correction (L)	Refer to contents	0~255	M	<Default value> e-STUDIO207L/257/307: 130 e-STUDIO357/457/507: 118	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Separation			2966	0	Thin paper separation leading edge output correction (H)	141	0~255	M		4	
08	Setting mode	Process	Separation			2966	1	Thin paper separation center output correction (C)	Refer to contents	0~255	M	<Default value> e-STUDIO207L/257/307: 151 e-STUDIO357/457/507: 148	4	
08	Setting mode	Process	Separation			2966	2	Thin paper separation trailing edge output correction (L)	Refer to contents	0~255	M	<Default value> e-STUDIO207L/257/307: 151 e-STUDIO357/457/507: 148	4	
08	Setting mode	Process	Developer			2978		Switching of correction of development contrast life	4	0-8	M	Adjusts the density of the image. The smaller the corrected amount is, the darker the image becomes. 0 to 5: Starts correction when the developer counter counts 5k sheets. 6 to 8: Starts correction when the developer counter counts 10k sheets. If the developer counter does not reach the values above, the density does not change even if the setting value is altered. Corrected amount for 08-2978 0: -65 1: ±0 2: -22 3: -43 4: -85 5: -105 6: -65 (correction starts from 10k sheets) 7: -43 (correction starts from 10k sheets) 8: -85 (correction starts from 10k sheets) (Unit: V) * Be sure to check the image after the change. * The changed setting value is taken over after the replacement of the process unit or the developer material.	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Process			2987		Transfer bias output correction between sheets of paper	Refer to contents	0~255	M	The transfer cleaning bias is output between sheets of paper during printing so as to prevent the toner on the photoconductive drum from adhering to the transfer roller. This code is used to correct the output between sheets of paper to that adjusted in 05-2084 (Transfer cleaning bias adjustment (negative)). The larger the setting value is, the higher the value of the current (more negative) is. Note that toner with a different polarity will adhere easily if the setting value is too large or too small. <Default value> e-STUDIO207L/257/307: 110 e-STUDIO357/457/507: 107	1	
08	Setting mode	Scanner	Scanner			3015		Pre-scan setting switchover	0	0~1	SYS	0: Not performing pre-scanning 1: Performing pre-scanning	1	Yes
08	Setting mode	Scanner	RADF			3021		Set for switchback-mixed size copy	0	0~1	SYS	This setting is whether the original length is detected or not by transporting without scanning in reverse when A4-R/FOLIO paper or LT-R/LG paper is detected in a mixed-size copying. 0: Disabled - AMS: A series - Judges as A4-R without transporting in reverse with no scanning. LT series - Judges whether it is LT-R or LG by its length without transporting in reverse with no scanning. APS: A series - Judges whether it is A4-R or FOLIO without transporting in reverse with no scanning. LT series - Judges whether it is LT-R or LG without transporting in reverse with no scanning. 1: Enable 1 AMS: A series - Judges whether it is A4-R or FOLIO by transporting without scanning in reverse to detect its length. LT series - Judges whether it is LT-R or LG by transporting without scanning in reverse to detect its length. APS: The same as that of APS in 0: Disabled.	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting Mode	Scanner				3025		Correction of carriage position	2	0-2	SYS	0: No correction 1: Performs correction before scanning 2: Performs correction after scanning	1	
08	Setting Mode	Scanner				3065		Initialization of model information in lens unit	-	-	-	Normally this code is not used. When an error occurs by installing the lens unit used for other models, perform this code to initialize the model information.	3	
08	Setting Mode	Scanner	RADF			3075		Allowing of trailing edge adjustment of scanning	0	0-1	SYS	0: Not allowed 1: Allowed	1	
08	Setting Mode	Scanner				3080		Detection method of original size	1	1, 3	SYS	1: Two-step detection (lights twice) 3: Single-step detection (lights once) When "3" is set, the detection accuracy of dark originals may decrease.	1	
08	Setting Mode	System	User interface	Card reader		3500		Device setting	0	0-4294967295	SYS	To enable the e-Bridge ID Gate, a card reading device should be set in the order of "ABYYZZZZ". (Enter the corresponding values to "A", "B", "YY" and "ZZZZ".) - AB: Special setting - A: Debugging NIC 0: Not used 1: Used - B: Interface 0: USB connection 1: Serial connection (KP-2003 only) - YY: Authentication 00: No authentication using card 03: Mifare (KP-2005 only) 04: HID (KP-2004 only) 06: KB Emulation I/F Reader 07: 3Track Magnetic Swipe Reader 09: 2Track Magnetic Swipe Reader - ZZZZ: Sub-code (Specifies the usage type of card ID) 0000: No authentication using card 0001: IDm (Felica/NFC-Felica) and (or) UID (Mifare/NFC-Mifare) 0002: Data (Felica/NFC-Felica/Mifare/NFC-Mifare) 0003: SSFC mode	5	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting Mode	System	User interface	Card reader		3501		Format information 1	0	0-4294967295	SYS	To access the data in the noncontact IC card, the Key Information "LLLL" and the Sector Number "MMMM" should be set. The "LLLL" should be set first, and then "MMMM". <KP-2005> LLLL: Key information MMMM: Sector number (hexadecimal number)	5	Yes
08	Setting Mode	System	User interface	Card reader		3502		Format information 2	0	0-4294967295	SYS	The data of the block number in the noncontact IC is set. <KP-2005> RRBSEbse (hexadecimal number) RR: 00 (Fixed) B: 1st area block number S: 1st area beginning byte offset E: 1st area ending byte offset b: 2nd area block number s: 2nd area beginning byte offset e: 2nd area ending byte offset * If the 2nd block/area is not used, set the SSTU to "FFFF" (hexadecimal number), the bse to"FFF" (hexadecimal number).	5	Yes
08	Setting Mode	System	User interface	Card reader		3503		Format information 3	0	0-0xFFFFFFFFFFFFFFFF	SYS	Security key "KKKKKKKKKKKK" (12 digits) <hexadecimal number> in the [Key Information] of the [Sector Number] set in the code 08-3501 should be entered.	5	Yes
08	Setting mode	System	User interface	Card reader		3504		Card authentication LDAP server	0	0~100	SYS	LDAP server number for the card authentication when a non-contact IC card is used should be set.	1	
08	Setting mode	System	General			3612		Date of unpacking	-	13 digits	SYS	Year/month/date/day/hour/minute/second Example: 03 07 0 13 13 27 48 "Day" - "0" is for "Sunday". Proceeds Monday through Saturday from "1" to "6".	11	Yes
08	Setting mode	System	General			3615		List print USB storage setting	0	0~1	SYS	0: Enable (USB storage available) 1: Disable (USB storage not available)	1	
08	Setting mode	System	General			3619		Clearing of service history list file	-	-	SYS	Initializes the service history list file.	3	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	General			3623		Job filtering setting for real time log notification function	0	0-65535	SYS	Changes target type of job for notification in real time log notification function.	1	
08	Setting mode	System	General			3624		Log item filtering setting for real time log notification function	2147483 921	0~4294967 295	SYS	Changes target log items for notification in real time log notification function.	5	
08	Setting mode	System	General	Real time log notification function		3626		Department information transmission setting of real time log notification function	0	0-1	SYS	Sets whether the department information (number, name, code) is transmitted or not in the real time log notification function. 0: Department number, department name, department code 1: Department number, department name	1	
08	Setting mode	System	General			3629		Enable/Disable setting of standard EWB function	1	0-1	SYS	0: Disabled 1: Enabled * This code is valid for NAD, MJD and AUD only.	1	
08	Setting mode	System	Network			3631		Remote Access (SNMP)	1	0-1	SYS	0: Disabled 1: Enabled	1	
08	Setting mode	System	User interface			3635		Trial copy function	1	0~1	SYS	0: Invalid 1: Valid	1	
08	Setting mode	System	Network	InternetFax		3637		Addition of transmission header	0	0-1	SYS	0: Disabled 1: Enabled	1	
08	Setting mode	System	Network	InternetFax		3638		Addition of receiving record	0	0-1	SYS	0: Disabled 1: Enabled	1	
08	Setting mode	System	Network	InternetFax		3639		Adding method of transmission header	1	1-2	SYS	1: Overwriting inside the image (5 mm from the top) 2: Adding outside the image (5 mm from the top)	1	
08	Setting mode	System	Network	MDS	Authentication	3640		Authentication of MDS system	0	0-1	SYS	0: Disabled 1: Enabled	1	
08	Setting mode	System	Network	MDS	Authentication	3641		Display in TopAccess	0	0-1	SYS	Sets whether the information of MDS Authentication will be displayed or not in TopAccess. 0: Non display 1: Display	1	
08	Setting mode	System	Network			3642	0	User authentication setting for NW print/NW fax/Internet fax function	0	0-3	SYS	0: Authentication with user name and domain name 1: No authentication control in the equipment 2: Authentication with user name 3: Authentication with domain participation information	4	

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05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network	WS scan		3642	2	Disabling job authentication/permission check/Quota check	0	0-1	SYS	0: OFF 1: ON	4	
08	Setting mode	System	User interface			3643		Filtering condition for job list on the panel	1	0-1	SYS	0: Filtered with user name 1: Filtered with domain name and user name * This code is valid only when the value of 08-3642-0 is "1".	1	
08	Setting mode	System	General			3644		Login restriction for reissued card	0	0-1	SYS	0: Disabled 1: Enabled	1	
08	Setting mode	System	User interface	User authentication		3646		Copy	1	0-1	SSDK	0: Disabled 1: Enabled	1	
08	Setting mode	System	User interface	User authentication		3647		FAX	1	0-1	SSDK	0: Disabled 1: Enabled	1	
08	Setting mode	System	User interface	User authentication		3648		Printer/e-Filing	1	0-1	SSDK	0: Disabled 1: Enabled	1	
08	Setting mode	System	User interface	User authentication		3649		Scanning	1	0-1	SSDK	0: Disabled 1: Enabled	1	
08	Setting mode	System	User interface	User authentication		3650		List print	1	0-1	SSDK	0: Disabled 1: Enabled	1	
08	Setting mode	System	User interface	User authentication		3651		Authentication method for administrator	1	0-1	SSDK	0: Only password 1: User name and password	1	
08	Setting mode	System	User interface			3652		Switchover of card reader display on the control panel	0	0-1	SYS	Switches the display on the control panel (authentication screen) depending on the connected card reader. 0: Non-contact type 1: Card insertion type	1	
08	Setting mode	System	Network			3702		Device name for device authentication	MFP's serial number	-	-	Maximum 128 letters "MFP's serial number" is set as default. Perform 08-9083 to set the default value.	12	
08	Setting mode	System	Network			3704		PDC (Primary Domain Controller) name 2 for user authentication	-	-	UTY	Up to 128 letters	12	
08	Setting mode	System	Network			3705		BDC (Backup Domain Controller) name 2 for user authentication	-	-	UTY	Up to 128 letters	12	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			3706		PDC (Primary Domain Controller) name 3 for user authentication	-	-	UTY	Up to 128 letters	12	
08	Setting mode	System	Network			3707		BDC (Backup Domain Controller) name 3 for user authentication	-	-	UTY	Up to 128 letters	12	
08	Setting mode	System	Network			3719		Windows domain No. 2 of user authentication	-	-	UTY	Maximum 128 letters	12	
08	Setting mode	System	Network			3720		Windows domain No. 3 of user authentication	-	-	UTY	Maximum 128 letters	12	
08	Setting mode	System	Network			3721		AppleTalk Device Name	MFP's serial number	-	-	Maximum 32 letters "MFP's serial number" is set as default. Perform 08-9083 to set the default value.	12	
08	Setting mode	System	Network			3722		PDC/BDC timeout value of Windows Domain Authentication (Unit: Seconds)	60	1~180	NIC	Applied to the device authentication	12	
08	Setting mode	System	Network			3723		User authentication PDC/BDC time-out period (Unit: Seconds)	30	1~180	NIC	Applied to the user authentication	12	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			3724		Windows Domain Authentication method of Windows Domain/User Authentication	1	1-4	NIC	Sets the Windows domain authentication method for device authentication, Scan to SMB, and user authentication. When the setting of the domain authentication method is unknown, it's strongly recommended to set the value of this code to "1" (Auto). 1: Auto 2: Kerberos 3: NTLMv2 4: NTLMv1 * Note that the internal processing is different between user authentication and Windows logon authentication/Scan to SMB as follows. - User authentication "1" (Auto): Auto (Kerberos -> NTLMv2) "4" (NTLMv1): NTLMv2 - Windows logon authentication/Scan to SMB "1" (Auto): Auto (Kerberos -> NTLMv1) "4" (NTLMv1): NTLMv1	12	
08	Setting mode	System	Network			3725		IPP max connection	16	1~16	NIC		12	
08	Setting mode	System	Network			3726		IPP active connection	10	1~16	NIC		12	
08	Setting mode	System	Network			3727		LPD max connection	10	1~16	NIC		12	
08	Setting mode	System	Network			3728		LPD active connection	10	1~16	NIC		12	
08	Setting mode	System	Network			3729		ATalk PS max Connection	10	1~16	NIC		12	
08	Setting mode	System	Network			3730		ATalk PS active Connection	10	1~16	NIC		12	
08	Setting mode	System	Network			3731		Raw TCP max Connection	10	1~16	NIC		12	
08	Setting mode	System	Network			3732		Raw TCP active connection	10	1~16	NIC		12	
08	Setting mode	System	Network			3736		DNS Client Time Out	5	1~180	NIC	Use when a timeout occurred at DNS client connection	12	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			3739		FTP Client Time Out (SCAN)	30	1~180	NIC	Use when a timeout occurred at FTP client connection	12	
08	Setting mode	System	Network			3743		LDAP Client Time Out	5	1~180	NIC	Use when a timeout occurred at LDAP client connection	12	
08	Setting mode	System	Network			3754		Switching DPWS Printer setting	1	1~2	NIC	DPWS printer /DPWS secure printer function is switched. 1: Enabled 2: Disabled	12	
08	Setting mode	System	Network			3755		Switching DPWS Scanner setting	1	1~2	NIC	DPWS scanner function is switched. 1: Enabled 2: Disabled	12	
08	Setting mode	System	Network			3757		DPWS Discovery Port Number	3702	1~65535	NIC	Port number used for DPWS Discovery	12	
08	Setting mode	System	Network			3758		DPWS Metadata Exchange Port Number	50081	1~65535	NIC	Port number used for DPWS Metadata Exchange	12	
08	Setting mode	System	Network			3759		DPWS Print Port Number	50082	1~65535	NIC	Port number used for DPWS Print	12	
08	Setting mode	System	Network			3760		DPWS Scan Port Number	50083	1~65535	NIC	Port number used for DPWS Scan	12	
08	Setting mode	System	Network			3765		DPWS Print Max numbers of connection	10	1~20	NIC	Maximum numbers received from more than one connection request in the DPWS print	12	
08	Setting mode	System	Network			3766		DPWS Print Max numbers of reception	10	1~20	NIC	Maximum numbers of data received from more than one clients in the DPWS print	12	
08	Setting mode	System	Network			3767		Switching IPv6 setting	2	1~2	NIC	IPv6 function is switched. 1: Enabled 2: Disabled	12	
08	Setting mode	System	Network	IPv6		3768		Switching IP(IPv6) Address Acquisition	2	1~3	NIC	IP(IPv6) Address Acquisition setting is switched. 1: Manual 2: Stateless 3: Stateful	12	
08	Setting mode	System	Network	IPv6		3770		IPv6 Address	-	-	-	Displays IPv6 address. Maximum 40 characters (byte).	12	
08	Setting mode	System	Network	IPv6		3771		Prefix display setting	-	-	-	Sets the length of the displayed prefix. Maximum 3 characters (byte).	12	
08	Setting mode	System	Network	IPv6		3772		Default Gateway setting	-	-	-	Sets the default gateway for IPv6 address. Maximum 40 characters (byte).	12	
08	Setting mode	System	Network			3774		DHCPv6 Option setting	2	1~2	NIC	DHCPv6 Option is switched when the Manual is set. 1: Enabled 2: Disabled	12	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			3777		Stateless Address setting	2	1~2	NIC	IP Address is acquired by both Stateless and State full Address. 1: Enabled2: Disabled	12	
08	Setting mode	System	Network			3778		Acquiring DHCPv6 Option	2	1~2	NIC	When Stateless Address is selected, an option is acquired from DHCPv6 server. 1: Enabled 2: Disabled	12	
08	Setting mode	System	Network			3779		Stateful Address setting	1	1~2	NIC	IP Address is acquired from DHCPv6 server. 1: Enabled 2: Disabled	12	
08	Setting mode	System	Network			3780		Stateful Option setting	1	1~2	NIC	An option is acquired from DHCPv6 server. 1: Enabled 2: Disabled	12	
08	Setting mode	System	Network	IPv6		3781		Primary DNS Server Address Registration	-	-	-	Registration of Primary DNS Server Address. Maximum 40 characters (byte).	12	
08	Setting mode	System	Network	IPv6		3782		Secondary DNS Server Address Registration(IPv6)	-	-	-	Registration of Secondary DNS Server Address. Maximum 40 characters (byte).	12	
08	Setting mode	System	Network			3793		Switching LLTD setting	1	1~2	NIC	LLTD function is switched. 1: Enabled 2: Disabled	12	
08	Setting mode	System	General			3802		USB media direct printing Paper size	Refer to contents	0~13	SYS	0: ledger 1: legal 2: letter 3: computer 4: statement 5: A3 6: A4 7: A5 9: B4 10: B5 11: Folio 12: Legal13" 13: LetterSquare <Default value> NAD: 2 Others: 6	1	
08	Setting mode	System	General			3803		USB media direct printing function setting	1	0~1	SYS	Sets the USB media direct printing function.0: Disabled1: Enabled	1	
08	Setting mode	System	Scanner			3805		Department Management setting by Remote Scan	3	0~3	SYS	Department Management is set when Remote Scan is performed. 0: w/o GUI OFF,w/ GUI OFF 1: w/o GUI ON,w/ GUI OFF 2: w/o GUI OFF,w/ GUI ON 3: w/o GUI ON,w/ GUI ON	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network	Direct SMTP		3810		Communication setting	0	0~1	SYS	When an Internet Fax is sent, Direct SMTP communication is set. 0: Disabled 1: Enabled When "0: Disabled" is set, an Internet Fax is sent using an SMTP server. When "1: Enabled" is set, direct SMTP communication is enabled and an Internet Fax is sent to MFPs on the intranet without using an SMTP server. Since no SMTP server is used, the SSL encryption and SMTPAUTH function cannot be used for internet Fax transmission. If "1: Enabled" is set in 08-3810, set "1: Enabled" in 08-3812 as well.	1	Yes
08	Setting mode	System	Network	Direct SMTP		3811		Image encrypting at the Direct SMTP	0	0~1	SYS	When Direct SMTP communication is performed, an attached image is encrypted. 0: Disabled 1: Enabled	1	Yes
08	Setting mode	System	Network	Internet Fax		3812		Dummy full mode at I-Fax transmission	0	0~1	SYS	When an Internet Fax is sent, the resolution ratio and the paper size of an attached image are set to the full mode.0: Disabled 1: Enabled If "1: Enabled" is set in 08-3810, set "1: Enabled" in 08-3812 as well.	1	Yes
08	Setting mode	System	Scanner			3815		XPS file thumbnail addition	1	0~1	SYS	Thumbnail is added to the XPS file produced by the Scan function. 0: Not added 1: Only the top page added	1	
08	Setting mode	System	Scanner			3816		XPS file paper size setting	1	0~1	SYS	The paper size of the XPS file produced by the Scan function is set. 0: Scanned image size 1: Standard size	1	
08	Setting mode	System	Scanner			3817		PDF file version setting	4	0~4	SYS	The version of PDF file produced by the Scan function is set. 0: PDF V1.3 1: PDF V1.4 4: PDF V1.7	1	
08	Setting mode	System	General			3833		Home directory function	0	0~1	SYS	Function to store a file in the user's home directory 0: Disabled 1: Enabled	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	General			3837		Display switching for the machine name/computer name shown in the notification	0	0~1	SYS	The display method of the machine name/computer name shown in the event-related notification is switched. 0: IP address 1: NetBIOS name/FQDN	1	
08	Setting mode	System	General	License control		3840		Registration/Deletion	-	-	-	Registers electronic keys for setting related optional items (e.g. when the equipment is delivered). Returns the license file having the same ID as that in the one-time dongle. Displays all the electronic keys stored in a USB media connected to the equipment in a list. Displays electronic keys registered in the equipment.	3	Yes
08	Setting mode	System	Option	FAX		3847		FAX mistransmission prevention	0	0~1	SYS	FAX mistransmission prevention function is switched. 0: OFF (Disabled) 1: ON (Enabled)	1	Yes
08	Setting mode	System	Option	FAX		3848		Restriction on Address Book destination setting	0	0~1	SYS	Availability of destination selection from the Address Book is switched as one of FAX mistransmission prevention functions when setting FAX destinations. 0: OFF (Disabled) 1: ON (Enabled)	1	Yes
08	Setting mode	System	Option	FAX		3849		Restriction on destination direct entry	0	0~1	SYS	Availability of direct entry is switched as one of FAX mistransmission prevention functions when setting FAX destinations. 0: OFF (Disabled)1: ON (Enabled)	1	Yes
08	Setting mode	System	General			3851		Template display	0	0~1	SYS	The order of displaying templates on the LCD screen is switched. 0: Order of IDs 1: Alphabetical order	1	
08	Setting mode	System	General			3852		Automatic summer time change	Refer to contents	0~1	SYS	Automatic summer time change on the day previously set is switched. 0: Disabled 1: Enabled <Default value> NAD/MJD: 1 Others: 0	1	
08	Setting mode	System	General			3853		Summer time mode Offset value	2	0~7	SYS	Summer time is started as follows when 08-3852 is enabled. 0: +2:00 1: +1:30 2: +1:00 3: +0:30 4: -0:30 5: -1:00 6: -1:30 7: -2:00	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	General			3854		Summer time mode Starting month	Refer to contents	1~12	SYS	The month in which summer time is started is set. 1: January 2: February 3: March 4: April 5: May 6: June 7: July 8: August 9: September 10: October 11: November 12: December <Default value> NAD/MJD: 3 Others: 1	1	
08	Setting mode	System	General			3855		Summer time mode Starting week	Refer to contents	1~5	SYS	The week in which summer time is started is set. 1: 1st 2: 2nd 3: 3rd 4: 4th 5: Last <Default value> NAD: 2 MJD: 5 Others: 1	1	
08	Setting mode	System	General			3856		Summer time mode Starting day	0	0~6	SYS	The day on which summer time is started is set. 0: Sunday1: Monday2: Tuesday3: Wednesday4: Thursday5: Friday6: Saturday	1	
08	Setting mode	System	General			3857		Summer time mode Starting time	Refer to contents	00~23	SYS	The time at which summer time is started is set. 00-23 <Default value> NAD/MJD: 2 Others: 0	1	
08	Setting mode	System	General			3858		Summer time mode Starting minute	0	00~59	SYS	The minute at which summer time is started is set. 00-59	1	
08	Setting mode	System	General			3859		Summer time mode Ending month	Refer to contents	1~12	SYS	The month in which summer time is ended is set. 1: January 2: February 3: March 4: April 5: May 6: June 7: July 8: August 9: September 10: October 11: November 12: December <Default value> NAD: 11 MJD: 10 Others: 1	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	General			3860		Summer time mode Ending week	Refer to contents	1~5	SYS	The week in which summer time is ended is set. 1: 1st 2: 2nd 3: 3rd 4: 4th 5: Last <Default value> MJD: 5 Other: 1	1	
08	Setting mode	System	General			3861		Summer time mode Ending day	0	0~6	SYS	The day on which summer time is ended is set. 0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday	1	
08	Setting mode	System	General			3862		Summer time mode Ending time	Refer to contents	00~23	SYS	The time at which summer time is ended is set. 00-23 <Default value> NAD: 2 MJD: 3 Others: 0	1	
08	Setting mode	System	General			3863		Summer time mode Ending minute	0	00~59	SYS	The minute at which summer time is ended is set.00-59	1	
08	Setting mode	System	Network			3864		Disclosure of telnet function	0	0~1	SYS	0: Not disclosed 1: Disclosed When this value is set at "0", the value of code 08-3865 must be "2".	1	
08	Setting mode	System	Network			3865		Availability of Telnet Server	2	1~2	NIC	Availability of Telnet Server is switched. 1: Enabled 2: Disabled	12	
08	Setting Mode	System	Fax			3875		Address confirmation for multiple destinations	Refer to contents	0-1	SYS	Enable this setting to display the address confirmation screen before sending fax to prevent wrong transmission when multiple destination addresses are specified. 0: Disabled 1: Enabled <Default value> JPD: 1 Others: 0	1	
08	Setting mode	Printer	Laser			4002		Judged number of polygonal motor rotation error(Normal rotation)	0	0~1	M	Displays the error [CA10] when the set number of rotation error has been detected. 0: 2 times 1: 12 times	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Printer	Laser			4003		Judged number of polygonal motor rotation error(At acceleration/deceleration)	0	0~1	M	0: Time taken from an overshoot occurring to normal value range is 0.6 sec. 1: Time taken from an overshoot occurring to normal value range is 2.2 sec.	1	
08	Setting mode	Printer	Laser			4004		Polygonal motor rotation number on standby	5	0~5	M	0: 38,090.55 rpm 1: 35,000 rpm 2: 30,000 rpm 3: 25,000 rpm 4: 20,000 rpm 5: 10,000 rpm	1	
08	Setting mode	Printer	Laser			4005		Polygonal motor rotation in the energy saving mode	0	0~1	M	0: Stopped 1: 10,000 rpm	1	
08	Setting mode	Printer	Laser			4009		Setting of polygonal motor type	3	0~3	M	Set the type of polygonal motor. 0: 2-clock type 1: 3-clock type 2: 4-clock type 3: 6-clock type	1	
08	Setting mode	Printer	Paper feeding	Default setting of paper source	PPC	4010			0	0~5	SYS	0: A4/LT 1: LCF 2: Upper drawer 3: Lower drawer 4: PFP upper drawer 5: PFP lower drawer	1	
08	Setting mode	Printer	Feeding system/Paper transport	Automatic change of paper source	Auto	4011		PPC	1	1~2	SYS	Sets whether or not changing the drawer automatically to the other drawer with the paper of the same size when paper in the selected drawer has run out. 1: Changes to the drawer with the same paper direction and size: e.g., A4 to A4 2: Changes to the drawer with the same paper size. Paper with the different direction is acceptable as long as the size is the same: e.g., A4 to A4-R, LT-R to LT. "1"is applied when the staple/hole-punch is specified.	1	Yes
08	Setting mode	Printer	Laser			4012		Pre-running rotation of polygonal motor	0	0~2	SYS	Sets whether or not switching the polygonal motor from the standby rotation to the normal rotation when the original is set on the RADF or the original cover is opened. 0: Valid (when using RADF and the original is set manually) 1: Invalid 2: Valid (when using RADF only)	1	
08	Setting mode	Printer	Laser			4013		Polygonal motor rotational status switching at the Auto Clear Mode	0	0~1	SYS	Sets whether or not switching the polygonal motor from the normal rotation to the standby rotation at the Auto Clear Mode. 0: Valid 1: Invalid	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Printer	Laser			4014		Rotational status of polygonal motor on standby	1	0~1	SYS	Sets the rotational status of polygonal motor on standby. 0: Rotated (The rotational speed is set at 08-4005.) 1: Stopped	1	
08	Setting mode	Printer	Laser			4015		Timing of auto-clearing of polygonal motor pre-running rotation	3	0~6	SYS	Switches the polygonal motor to the standby rotation when a certain period of time has passed from the pre-running. At this code, the period to switch the status to the standby rotation is set. 0: 15 sec. 1: 20 sec. 2: 25 sec. 3: 30 sec. 4: 35 sec. 5: 40 sec. 6: 45 sec. * This setting is effective when "0" or "2" is set at 08-4012.	1	
08	Setting mode	Printer	Feeding system/Pa per transport	Automatic change of paper source	When a drawer is specified	4016	0	PPC	0	0~1	SYS	Sets whether the automatic change of paper source is performed or not if the drawer is specified as the paper source and the paper in the specified drawer runs out when coping. 0: Does not change the paper source automatically 1: Changes the paper source automatically	4	Yes
08	Setting mode	Printer	Feeding system/Pa per transport	Automatic change of paper source	When a drawer is specified	4016	1	Printing/BOX printing	0	0~1	SYS	Sets whether the automatic change of paper source is performed or not if the drawer is specified as the paper source and the paper in the specified drawer runs out when printing/BOX printing. 0: Does not change the paper source automatically 1: Changes the paper source automatically	4	Yes
08	Setting mode	Printer	Feeding system/Pa per transport	Feeding retry number setting	Upper drawer	4020	0	Plain paper	5	0~5	M	Sets the number of times of the feeding retry from the upper drawer.	4	Yes
08	Setting mode	Printer	Feeding system/Pa per transport	Feeding retry number setting	Upper drawer	4020	1	Others	5	0~5	M	Sets the number of times of the feeding retry from the upper drawer.	4	Yes
08	Setting mode	Printer	Feeding system/Pa per transport	Feeding retry number setting	Lower drawer	4021	0	Plain paper	5	0~5	M	Sets the number of times of the feeding retry from the lower drawer.	4	Yes
08	Setting mode	Printer	Feeding system/Pa per transport	Feeding retry number setting	Lower drawer	4021	1	Others	5	0~5	M	Sets the number of times of the feeding retry from the lower drawer.	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Printer	Feeding system/Pa per transport	Feeding retry number setting	PFP upper drawer	4022	0	Plain paper	5	0~5	M	Sets the number of times of the feeding retry from the PFP upper drawer.	4	Yes
08	Setting mode	Printer	Feeding system/Pa per transport	Feeding retry number setting	PFP upper drawer	4022	1	Others	5	0~5	M	Sets the number of times of the feeding retry from the PFP upper drawer.	4	Yes
08	Setting mode	Printer	Feeding system/Pa per transport	Feeding retry number setting	PFP lower drawer	4023	0	Plain paper	5	0~5	M	Sets the number of times of the feeding retry from the PFP lower drawer.	4	Yes
08	Setting mode	Printer	Feeding system/Pa per transport	Feeding retry number setting	PFP lower drawer	4023	1	Others	5	0~5	M	Sets the number of times of the feeding retry from the PFP lower drawer.	4	Yes
08	Setting mode	Printer	Feeding system/Pa per transport	Feeding retry number setting	bypass feed	4024	0	Plain paper	5	0~5	M	Sets the number of times of the feeding retry from the bypass tray.	4	Yes
08	Setting mode	Printer	Feeding system/Pa per transport	Feeding retry number setting	bypass feed	4024	1	Others	5	0~5	M	Sets the number of times of the feeding retry from the bypass tray.	4	Yes
08	Setting mode	Printer	Feeding system/Pa per transport	Feeding retry number setting	LCF	4025	0	Plain paper	5	0~5	M	Sets the number of times of the feeding retry from the LCF.	4	Yes
08	Setting mode	Printer	Feeding system/Pa per transport	Feeding retry number setting	LCF	4025	1	Others	5	0~5	M	Sets the number of times of the feeding retry from the LCF.	4	Yes
08	Setting mode	Printer	Feeding system/Pa per transport			4100		Paper size for upper drawer	Refer to contents	0-255	M	Press the button on the LCD to select the size. <Default value> EUR: A4 UC: LT JPN: A4	9	
08	Setting mode	Printer	Feeding system/Pa per transport			4101		Paper size for lower drawer	Refer to contents	0-255	M	Press the button on the LCD to select the size. <Default value> EUR: A3 UC: LD JPN: A3	9	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Printer	Feeding system/Paper transport			4102		Paper size for PFP upper drawer	Refer to contents	0-255	M	Press the button on the LCD to select the size. <Default value> EUR: A4-R UC: LT-R JPN: A4-R	9	
08	Setting mode	Printer	Feeding system/Paper transport			4103		Paper size for PFP lower drawer	Refer to contents	0-255	M	Press the button on the LCD to select the size. <Default value> EUR: A4 UC: LG JPN: B4	9	
08	Setting mode	Printer	Feeding system/Paper transport			4104		Paper size setting /LCF	Refer to contents	0-255	M	Press the button on the LCD to select the size. <Default value> EUR: A4 UC: LT JPN: A4	9	
08	Setting mode	Printer	Feeding system/Paper transport			4105		PFP/LCF installation	0	0~4	M	0: Auto 1: PFP upper-drawer type installed 2: PFP upper-drawer and lower-drawer type installed 3: LCF installed 4: Neither PFP nor LCF installed In the following case, set the value to "0" (Automatic) or change the value to the corresponding one. - When any of the above option is replaced - When any of the above option is installed while "4" (Not installed) has been set	1	
08	Setting mode	Printer	Feeding system/Paper transport			4106		Paper size (A3) feeding/widthwise direction	420/297	182~432/140~297	M		10	
08	Setting mode	Printer	Feeding system/Paper transport			4107		Paper size (A4-R) feeding/widthwise direction	297/210	182~432/140~297	M		10	
08	Setting mode	Printer	Feeding system/Paper transport			4108		Paper size (A5-R) feeding/widthwise direction	210/148	182~432/140~297	M		10	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Printer	Feeding system/Paper transport			4109		Paper size (B4-R) feeding/widthwise direction	364/257	182~432/140~297	M		10	
08	Setting mode	Printer	Feeding system/Paper transport			4110		Paper size (B5-R) feeding/widthwise direction	257/182	182~432/140~297	M		10	
08	Setting mode	Printer	Feeding system/Paper transport			4111		Paper size (LT-R) feeding/widthwise direction	279/216	182~432/140~297	M		10	
08	Setting mode	Printer	Feeding system/Paper transport			4112		Paper size (LD-R) feeding/widthwise direction	432/279	182~432/140~297	M		10	
08	Setting mode	Printer	Feeding system/Paper transport			4113		Paper size (LG-R) feeding/widthwise direction	356/216	182~432/140~297	M		10	
08	Setting mode	Printer	Feeding system/Paper transport			4114		Paper size (ST-R) feeding/widthwise direction	216/140	182~432/140~297	M		10	
08	Setting mode	Printer	Feeding system/Paper transport			4115		Paper size (COMPUTER-R) feeding/widthwise direction	356/257	182~432/140~297	M		10	
08	Setting mode	Printer	Feeding system/Paper transport			4116		Paper size (FOLIO) feeding/widthwise direction	330/210	182~432/140~297	M		10	
08	Setting mode	Printer	Feeding system/Paper transport			4117		Paper size (13" LG-R) feeding/widthwise direction	330/216	182~432/140~297	M		10	
08	Setting mode	Printer	Feeding system/Paper transport			4118		Paper size (8.5"X8.5"-R) feeding/widthwise direction	216/216	182~432/140~297	M		10	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Printer	Feeding system/Pa per transport			4119		Paper size (Non-standard) feeding/widthwise direction	432/279	148~432/1 05~297	SYS		10	
08	Setting mode	Printer	Feeding system/Pa per transport			4120		Paper size (8K-R) feeding/widthwise direction	390/270	182~432/1 40~297	M		10	
08	Setting mode	Printer	Feeding system/Pa per transport			4121		Paper size (16K-R) feeding/widthwise direction	270/195	182~432/1 40~297	M		10	
08	Setting mode	Printer	Feeding system/Pa per transport			4123		Paper size (A6-R) feeding/widthwise direction	148/105	148~432/1 05~297	M		10	
08	Setting mode	Printer	Feeding system/Pa per transport			4124		Paper size (#10-R)feeding/widthwise direction	241/105	148~432/1 05~297	M		10	
08	Setting mode	Printer	Feeding system/Pa per transport			4127		Paper size (DL-R)feeding/widthwise direction	220/110	148~432/1 05~297	M		10	
08	Setting mode	Printer	Feeding system/Pa per transport			4131		Feeding retry setting	0	0~1	M	0: Enabled 1: Disabled * When the value of 08-9016 is set to "5", the value of this code is automatically set to "1".	1	Yes
08	Setting mode	Printer	Feeding system/Pa per transport			4140		Paper size for bypass feed	255	0-255	SYS	Press the button on the LCD to select the size.	9	
08	Setting mode	Printer	Feeding system/Pa per transport			4143		Paper size (Envelope: Monarch-R)feeding/widthwise direction	191/98	148~432/9 8~297	M		10	
08	Setting mode	Printer	Feeding system/Pa per transport			4144		Paper size (Envelope: CHO-3-R)feeding/widthwise direction	235/120	148~432/1 05~297	M		10	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Printer	Feeding system/Paper transport			4145		Paper size (Envelope: YOU-4-R)feeding/widthwise direction	235/105	148~432/105~297	M		10	
08	Setting mode	Printer	Feeding system/Paper transport			4206		Paper size (Postcard) feeding/widthwise direction	148/100	148~432/100~297	M	* Postcard is supported only for JPN model.	10	
08	Setting mode	Printer	Feeding system/Paper transport			4450		Switching of paper pushing amount/lower drawer	0	0~1	M	Switches pushing process by the transport roller when paper loaded from the lower drawer starts to be transported from the registration section. 0: The paper is pushed until its trailing edge reaches the position where the 2nd transport sensor is turned OFF. 1: If the length of the paper is more than 297 mm, it is pushed by the transport roller for a specified time.	1	
08	Setting mode	Printer	Feeding system/Paper transport			4542		Switching for incorrect size jam detection	0	0~1	M	0: Enabled 1: Disabled	1	Yes
08	Setting mode	Printer	Feeding system/Paper transport			4547		Manual stapling time-out period	15	3~30	M	3-30sec.(In increments of 1sec.)	1	
08	Setting mode	Printer	Finisher			4548		Finisher model switching setting value	0	0~1	M	Sets the model of the finisher. 0: MJ-1032/1033/1101/1106 1: MJ-1032/1033/1101/1106	1	
08	Setting mode	Printer	General			4549		Detection setting of new or old fuser unit	0	0~1	M	0: Enabled 1: Disabled	1	
08	Setting mode	Printer	General			4555		Information check of new or old EPU memory	65280	0 to 65535	M	65280 (0xFF00): New EPU 255 (0x00FF): Installed EPU	2	
08	Setting mode	Printer	General			4556		Detection setting of new or old EPU	1	0~1	M	0: Disabled 1: Enabled	1	
08	Setting mode	Printer	Process	Conditions at the occurrence of fuser related error		4570	0	Center thermistor	0	0-255	M	Output value of thermistor	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Printer	Process	Conditions at the occurrence of fuser related error		4570	1	Side thermistor	0	0-255	M	Output value of thermistor	4	
08	Setting mode	Printer	Process	Conditions at the occurrence of fuser related error		4570	2	Edge thermistor	0	0-255	M	Output value of thermistor	4	
08	Setting mode	Printer	Process	Conditions at the occurrence of fuser related error		4570	5	Error counter	0	0-255	M	1-3: Fusing error when warm-up-40-degrees C detected 4-10: Fusing error when warm-up-100-degrees C detected 11-25: Fusing error when ready from warm-up 50-55: Fusing error at ready 100-111: Fusing error at printing 150-153: Fusing error in the prewarming/JAM/cover open/adjustment mode	4	
08	Setting mode	Printer	General			4581		SRAM Backup	-	-	-	The data in the SRAM is backed up in the EEPROM.	3	
08	Setting mode	Printer	General			4582		SRAM copy	-	-	-	The data in the EEPROM is copied to the SRAM.	3	
08	Setting mode	Printer	Feeding system/Paper transport	Bypass paper size detection setting		4621		PPC/PRT	0	0~1	M	Detects whether the size of paper fed by bypass feeding is the same as the paper size set on the control panel. If the sizes are not the same, the warning message is displayed (Paper jam does not occur). When the bypass paper size detection is broken, the equipment can be used without the size detection by disabling this setting. After repair, enable this setting. 0: Enabled 1: Disabled	1	
08	Setting mode	Printer	Feeding system/Paper transport	Bypass paper size detection counter		4622		PPC/PRT	0	0~65535	M	This is a counter for bypass paper size detection setting. If the printing is executed with the paper size that differs from the paper size set on the control panel, the counter is counted up.	1	
08	Setting mode	Printer	General			4675		Paper ejection setting for wrong bypass paper size	2	0-2	M	0 and 1: Disabled 2: Ejected	1	
08	Setting mode	Printer	Counter			4676		Ejection counter for wrong bypass paper size	0	0~65535	M	Number of ejection times	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Printer	Feeding system/Pa per transport			4691		Switching of the display of jam location in the drawer when paper feed jam occurs	1	0~1	M	0: Disabled 1: Enabled	1	
08	Setting mode	Printer	Finisher			4695		Synchronous writing of the finisher adjustment value	-	-	M	Writes the adjustment code from 05-4819 to 4827 in the SRAM of the finisher. (for MJ-1032 and MJ-1033)	3	
08	Setting mode	Printer	Finisher			4696		Synchronous reading of the finisher adjustment value	-	-	M	Reads the adjustment code from 05-4819 to 4827 from the SRAM of the finisher. (for MJ-1032 and MJ-1033)	3	
08	Setting mode	Process	Process			5001	0	Print job end cleaning bias polarity switching frequency	0	0~9	M	In the cleaning operation of the transfer roller at the end of printing, the cleaning bias, in which the polarity is switched from positive to negative, is output so that the toner adhering to the transfer roller is returned to the photoconductive drum. This code is used to set the cleaning bias switching frequency. Perform adjustment when there is any stain on the back side of the printed paper (leading edge) caused by the transfer roller. Note that the drum driving time will increase if the setting value of the cleaning bias switching frequency is too large. The setting code differs depending on the operation status of the equipment when there is any stain on the back side of the printed paper. Select the code from 5001 to 5003 according to the operation status. Set this code when there is any stain on the back side of the printed paper (leading edge) caused by the transfer roller in normal printing. 0: Once 1: Twice 2: Three times 3: Four times 4: Five times 5: Six times 6: Seven times 7: Eight times 8: Nine times 9: Ten times	4	
08	Setting mode	Process	Process			5001	1	Print job end cleaning bias polarity switching frequency (Bypass non-standard)	3	0~9	M	Set this code when there is any stain on the back side of the printed paper (leading edge) caused by the transfer roller in printing non-standard paper from the bypass tray. 0: Once 1: Twice 2: Three times 3: Four times 4: Five times 5: Six times 6: Seven times 7: Eight times 8: Nine times 9: Ten times	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Process			5001	2	Print job end cleaning bias polarity switching frequency (Mass printing of small size paper)	3	0~9	M	Set this code when there is any stain on the back side of the printed paper (leading edge) caused by the transfer roller in printing maximum size paper after printing a large amount of small size paper (1 to 9). 0: Once 1: Twice 2: Three times 3: Four times 4: Five times 5: Six times 6: Seven times 7: Eight times 8: Nine times 9: Ten times	4	
08	Setting mode	Process	Process			5002		Job end cleaning bias polarity switching frequency (When not printing)	3	0~9	M	Set this code when there is any stain on the back side of the printed paper (leading edge) caused by the transfer roller after the warming-up, forced toner supply or auto-toner adjustment. 0: Once 1: Twice 2: Three times 3: Four times 4: Five times 5: Six times 6: Seven times 7: Eight times 8: Nine times 9: Ten times	1	
08	Setting mode	Process	Process			5003		Job end cleaning bias polarity switching frequency (At jam recovery)	3	0~9	M	Sets when there is any stain on the back side of the printed paper (leading edge) caused by the transfer roller after a paper jam is cleared. 0: Once 1: Twice 2: Three times 3: Four times 4: Five times 5: Six times 6: Seven times 7: Eight times 8: Nine times 9: Ten times	1	
08	Setting mode	Process	Transfer			5005		Switching transfer bias between sheets of paper	1	0~1	M	0: Positive, 1: Negative	1	
08	Setting mode	Process	Transfer			5016		Switchover of paper size/environment/life correction at transfer of thin paper	1	0-2	M	0: Switches all corrections 1: No switchover 2: Only paper width correction is applied	1	
08	Setting mode	Process	Transfer			5018		Correction of transfer control for back side	0	0-1	M	0: Correction is applied 1: No correction	1	
08	Setting mode	Process	Transfer			5075	0	Paper width transfer output correction (H) (Middle)	Refer to contents	0~255	M	<Default value> e-STUDIO207L/257/307: 138 e-STUDIO357/457/507: 146	4	
08	Setting mode	Process	Transfer			5075	1	Paper width transfer output correction (C) (Middle)	Refer to contents	0~255	M	<Default value> e-STUDIO207L/257/307: 138 e-STUDIO357/457/507: 146	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Transfer			5075	2	Paper width transfer output correction (L) (Middle)	Refer to contents	0~255	M	\<Default value\> e-STUDIO207L/257/307: 146 e-STUDIO357/457/507: 156	4	
08	Setting mode	Process	Transfer			5076	0	Paper width transfer output correction (H) (Small)	Refer to contents	0~255	M	\<Default value\> e-STUDIO207L/257/307: 152 e-STUDIO357/457/507: 168	4	
08	Setting mode	Process	Transfer			5076	1	Paper width transfer output correction (C) (Small)	Refer to contents	0~255	M	\<Default value\> e-STUDIO207L/257/307: 152 e-STUDIO357/457/507: 168	4	
08	Setting mode	Process	Transfer			5076	2	Paper width transfer output correction (L) (Small)	Refer to contents	0~255	M	\<Default value\> e-STUDIO207L/257/307: 162 e-STUDIO357/457/507: 170	4	
08	Setting mode	Process	Transfer	Paper width correction (middle)	Plain paper/Duplex	5082	0	High	Refer to contents	0-255	M	\<Default value\> e-STUDIO207L/257/307: 142 e-STUDIO357/457/507: 152	4	
08	Setting mode	Process	Transfer	Paper width correction (middle)	Plain paper/Duplex	5082	1	Center	Refer to contents	0-255	M	\<Default value\> e-STUDIO207L/257/307: 142 e-STUDIO357/457/507: 152	4	
08	Setting mode	Process	Transfer	Paper width correction (middle)	Plain paper/Duplex	5082	2	Low	Refer to contents	0-255	M	\<Default value\> e-STUDIO207L/257/307: 144 e-STUDIO357/457/507: 156	4	
08	Setting mode	Process	Transfer	Paper width correction (small)	Plain paper/Duplex	5083	0	High	Refer to contents	0-255	M	\<Default value\> e-STUDIO207L/257/307: 160 e-STUDIO357/457/507: 172	4	
08	Setting mode	Process	Transfer	Paper width correction (small)	Plain paper/Duplex	5083	1	Center	Refer to contents	0-255	M	\<Default value\> e-STUDIO207L/257/307: 160 e-STUDIO357/457/507: 172	4	
08	Setting mode	Process	Transfer	Paper width correction (small)	Plain paper/Duplex	5083	2	Low	Refer to contents	0-255	M	\<Default value\> e-STUDIO207L/257/307: 160 e-STUDIO357/457/507: 170	4	
08	Setting mode	Process	Transfer	Paper width correction (middle)	Thick paper 1/Duplex	5084	0	High	Refer to contents	0-255	M	\<Default value\> e-STUDIO207L/257/307: 144 e-STUDIO357/457/507: 158	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Transfer	Paper width correction (middle)	Thick paper 1/Duplex	5084	1	Center	Refer to contents	0-255	M	\<Default value\> e-STUDIO207L/257/307: 144 e-STUDIO357/457/507: 158	4	
08	Setting mode	Process	Transfer	Paper width correction (middle)	Thick paper 1/Duplex	5084	2	Low	Refer to contents	0-255	M	\<Default value\> e-STUDIO207L/257/307: 150 e-STUDIO357/457/507: 152	4	
08	Setting mode	Process	Transfer	Paper width correction (small)	Thick paper 1/Duplex	5085	0	High	Refer to contents	0-255	M	\<Default value\> e-STUDIO207L/257/307: 165 e-STUDIO357/457/507: 179	4	
08	Setting mode	Process	Transfer	Paper width correction (small)	Thick paper 1/Duplex	5085	1	Center	Refer to contents	0-255	M	\<Default value\> e-STUDIO207L/257/307: 165 e-STUDIO357/457/507: 179	4	
08	Setting mode	Process	Transfer	Paper width correction (small)	Thick paper 1/Duplex	5085	2	Low	Refer to contents	0-255	M	\<Default value\> e-STUDIO207L/257/307: 164 e-STUDIO357/457/507: 164	4	
08	Setting mode	Process	Transfer	Paper width correction (middle)	Thick paper 2	5086	0	High	Refer to contents	0-255	M	\<Default value\> e-STUDIO207L/257/307: 128 e-STUDIO357/457/507: 128	4	
08	Setting mode	Process	Transfer	Paper width correction (middle)	Thick paper 2	5086	1	Center	Refer to contents	0-255	M	\<Default value\> e-STUDIO207L/257/307: 142 e-STUDIO357/457/507: 150	4	
08	Setting mode	Process	Transfer	Paper width correction (middle)	Thick paper 2	5086	2	Low	Refer to contents	0-255	M	\<Default value\> e-STUDIO207L/257/307: 148 e-STUDIO357/457/507: 156	4	
08	Setting mode	Process	Transfer	Paper width correction (small)	Thick paper 2	5087	0	High	Refer to contents	0-255	M	\<Default value\> e-STUDIO207L/257/307: 128 e-STUDIO357/457/507: 128	4	
08	Setting mode	Process	Transfer	Paper width correction (small)	Thick paper 2	5087	1	Center	Refer to contents	0-255	M	\<Default value\> e-STUDIO207L/257/307: 148 e-STUDIO357/457/507: 160	4	
08	Setting mode	Process	Transfer	Paper width correction (small)	Thick paper 2	5087	2	Low	Refer to contents	0-255	M	\<Default value\> e-STUDIO207L/257/307: 160 e-STUDIO357/457/507: 172	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Transfer	Paper width correction (middle)	Thick paper 3	5088	0	High	Refer to contents	0-255	M	<Default value> e-STUDIO207L/257/307: 128 e-STUDIO357/457/507: 128	4	
08	Setting mode	Process	Transfer	Paper width correction (middle)	Thick paper 3	5088	1	Center	Refer to contents	0-255	M	<Default value> e-STUDIO207L/257/307: 144 e-STUDIO357/457/507: 154	4	
08	Setting mode	Process	Transfer	Paper width correction (middle)	Thick paper 3	5088	2	Low	Refer to contents	0-255	M	<Default value> e-STUDIO207L/257/307: 147 e-STUDIO357/457/507: 158	4	
08	Setting mode	Process	Transfer	Paper width correction (small)	Thick paper 3	5089	0	High	Refer to contents	0-255	M	<Default value> e-STUDIO207L/257/307: 128 e-STUDIO357/457/507: 128	4	
08	Setting mode	Process	Transfer	Paper width correction (small)	Thick paper 3	5089	1	Center	Refer to contents	0-255	M	<Default value> e-STUDIO207L/257/307: 150 e-STUDIO357/457/507: 164	4	
08	Setting mode	Process	Transfer	Paper width correction (small)	Thick paper 3	5089	2	Low	Refer to contents	0-255	M	<Default value> e-STUDIO207L/257/307: 163 e-STUDIO357/457/507: 175	4	
08	Setting mode	Process	Transfer	Paper width correction (middle)	Envelope	5090	0	High	Refer to contents	0-255	M	<Default value> e-STUDIO207L/257/307: 128 e-STUDIO357/457/507: 128	4	
08	Setting mode	Process	Transfer	Paper width correction (middle)	Envelope	5090	1	Center	Refer to contents	0-255	M	<Default value> e-STUDIO207L/257/307: 144 e-STUDIO357/457/507: 154	4	
08	Setting mode	Process	Transfer	Paper width correction (middle)	Envelope	5090	2	Low	Refer to contents	0-255	M	<Default value> e-STUDIO207L/257/307: 146 e-STUDIO357/457/507: 156	4	
08	Setting mode	Process	Transfer	Paper width correction (small)	Envelope	5091	0	High	Refer to contents	0-255	M	<Default value> e-STUDIO207L/257/307: 128 e-STUDIO357/457/507: 128	4	
08	Setting mode	Process	Transfer	Paper width correction (small)	Envelope	5091	1	Center	Refer to contents	0-255	M	<Default value> e-STUDIO207L/257/307: 150 e-STUDIO357/457/507: 164	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Transfer	Paper width correction (small)	Envelope	5091	2	Low	Refer to contents	0-255	M	<Default value> e-STUDIO207L/257/307: 162 e-STUDIO357/457/507: 177	4	
08	Setting mode	Process	Charger	Main charger grid correction for thin paper	PRT	5092	0	Standard	96	0-255	M		4	
08	Setting mode	Process	Charger	Main charger grid correction for thin paper	PPC	5092	2	Standard	96	0-255	M		4	
08	Setting mode	Process	Charger	Main charger grid correction for thin paper	PPC	5092	3	Text	96	0-255	M		4	
08	Setting mode	Process	Charger	Main charger grid correction for thin paper	PPC	5092	4	Photo	96	0-255	M		4	
08	Setting mode	Process	Charger	Main charger grid correction for thin paper		5092	6	Fax	96	0-255	M		4	
08	Setting mode	Process	Charger	Main charger grid correction for thin paper		5092	7	Hardcopy security printing	96	0-255	M		4	
08	Setting mode	Process	Developm ent	Developer bias correction for thin paper	PRT	5093	0	Standard	105	0-255	M		4	
08	Setting mode	Process	Developm ent	Developer bias correction for thin paper	PPC	5093	2	Standard	105	0-255	M		4	
08	Setting mode	Process	Developm ent	Developer bias correction for thin paper	PPC	5093	3	Text	105	0-255	M		4	
08	Setting mode	Process	Developm ent	Developer bias correction for thin paper	PPC	5093	4	Photo	105	0-255	M		4	
08	Setting mode	Process	Developm ent	Developer bias correction for thin paper		5093	6	Fax	105	0-255	M		4	
08	Setting mode	Process	Developm ent	Developer bias correction for thin paper		5093	7	Hardcopy security printing	105	0-255	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Developm ent	Toner near empty		5155		Toner near empty threshold setting	1	0-5	M	0: The period from the appearance of the toner near-empty sign to the actual complete consumption of the toner is set to long. 1: Normal (Default) 2: The period from the appearance of the toner near-empty sign to the actual complete consumption of the toner is set to short. 3: No detection 4: Toner near-empty status threshold value: (%)* 5: Toner near-empty status threshold value: (Number of sheets)* * The toner near-empty status is displayed if the remaining amount of toner is equal to or less than the amount set in 08-5810/5811 (percentage or number of sheets).	1	Yes
08	Setting mode	Process	Developm ent	Toner near empty	Fine adjustment of threshold for displaying remaining toner and toner near empty	5156	3	K	100	50-150	M	Adjusts the threshold value for displaying remaining amount of toner and toner near empty. Display threshold value = default threshold value x setting value/100 (unit: %)	4	
08	Setting mode	Process	Fuser	Fusing correction control time immediately after warming-up		5210	0	1st temperature correction	2	0~15	M	0: Disabled, 1: 1 min. 2: 2 min. 3: 3 min. 4: 4 min. 5: 5 min. 6: 6 min. 7: 7 min. 8: 8 min. 9: 10 min. 10: 15 min. 11: 10 sec. 12: 20 sec. 13: 30 sec. 14: 40 sec. 15: 50 sec.	4	
08	Setting mode	Process	Fuser	Fusing correction control time immediately after warming-up		5210	1	Maximum time of lamp ON	2	0~15	M	0: Disabled, 1: 1 min. 2: 2 min. 3: 3 min. 4: 4 min. 5: 5 min. 6: 6 min. 7: 7 min. 8: 8 min. 9: 10 min. 10: 15 min. 11: 10 sec. 12: 20 sec. 13: 30 sec. 14: 40 sec. 15: 50 sec.	4	
08	Setting mode	Process	Fuser	Fusing correction control time immediately after warming-up		5210	2	2nd temperature correction	13	0~15	M	0: Disabled, 1: 1 min. 2: 2 min. 3: 3 min. 4: 4 min. 5: 5 min. 6: 6 min. 7: 7 min. 8: 8 min. 9: 10 min. 10: 15 min. 11: 10 sec. 12: 20 sec. 13: 30 sec. 14: 40 sec. 15: 50 sec. * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser			5285		Fusing temperature during printing (Plain paper/Sub)	Refer to contents	0 to 14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 130°C 14: 135°C <Default value> e-STUDIO207L/257/307: - e-STUDIO357/457/507: 3	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser			5328		Fusing temperature during printing (Thick paper 1/Sub)	Refer to contents	0 to 14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 130°C 14: 135°C <Default value> e-STUDIO207L/257/307: - e-STUDIO357/457/507: 6	1	
08	Setting mode	Process	Fuser			5329		Fusing temperature during printing (Thick paper 2/Sub)	Refer to contents	0 to 14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 130°C 14: 135°C <Default value> e-STUDIO207L/257/307: - e-STUDIO357/457/507: 8	1	
08	Setting mode	Process	Fuser			5330		Fusing temperature during printing (Thick paper 3/Sub)	Refer to contents	0 to 14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 130°C 14: 135°C <Default value> e-STUDIO207L/257/307: - e-STUDIO357/457/507: 8	1	
08	Setting mode	Process	Fuser			5331		Fusing temperature during printing (Overhead transparencies /Sub)	Refer to contents	0 to 14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 130°C 14: 135°C <Default value> e-STUDIO207L/257/307: - e-STUDIO357/457/507: 4	1	
08	Setting mode	Process	Fuser			5332		Fusing temperature during printing (Envelope/Sub)	Refer to contents	0 to 14	M	0: 140°C 1: 145°C 2: 150°C 3: 155°C 4: 160°C 5: 165°C 6: 170°C 7: 175°C 8: 180°C 9: 185°C 10: 190°C 11: 195°C 12: 200°C 13: 130°C 14: 135°C <Default value> e-STUDIO207L/257/307: - e-STUDIO357/457/507: 8	1	
08	Setting mode	Process	Fuser	Temperature drop during printing (Sub)	Normal temperature	5333	0	The first drop	0	0 to 10	M	Setting value x -5°C: from 0°C to -50°C * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Temperature drop during printing (Sub)	Normal temperature	5333	1	The second drop	0	0 to 10	M	Setting value x -5°C: from 0°C to -50°C * This code is valid for e-STUDIO357/457/507 only.	4	

e-STUDIO207L/257/307/357/457/507

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser	Temperature drop during printing (Sub)	Normal temperature	5333	2	The third drop	0	0 to 10	M	Setting value x -5°C: from 0°C to -50°C * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Temperature drop during printing (Sub)	Normal temperature	5333	3	The forth drop	0	0 to 10	M	Setting value x -5°C: from 0°C to -50°C * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Temperature drop during printing (Sub)	Low temperature	5333	4	The first drop	1	0 to 10	M	Setting value x -5°C: from 0°C to -50°C * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Temperature drop during printing (Sub)	Low temperature	5333	5	The second drop	1	0 to 10	M	Setting value x -5°C: from 0°C to -50°C * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Temperature drop during printing (Sub)	Low temperature	5333	6	The third drop	1	0 to 10	M	Setting value x -5°C: from 0°C to -50°C * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Temperature drop during printing (Sub)	Low temperature	5333	7	The forth drop	1	0 to 10	M	Setting value x -5°C: from 0°C to -50°C * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Temperature drop during printing (Sub)	High temperature	5333	8	The first drop	2	0 to 10	M	Setting value x -5°C: from 0°C to -50°C * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Temperature drop during printing (Sub)	High temperature	5333	9	The second drop	4	0 to 10	M	Setting value x -5°C: from 0°C to -50°C * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Temperature drop during printing (Sub)	High temperature	5333	10	The third drop	4	0 to 10	M	Setting value x -5°C: from 0°C to -50°C * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Temperature drop during printing (Sub)	High temperature	5333	11	The forth drop	4	0 to 10	M	Setting value x -5°C: from 0°C to -50°C * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting (Sub)		5334	0	The first drop	5	0 to 200	M	Setting value x 5 seconds: from 0 to 1000 seconds * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting (Sub)		5334	1	The second drop	12	0 to 200	M	Setting value x 5 seconds: from 0 to 1000 seconds * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting (Sub)		5334	2	The third drop	24	0 to 200	M	Setting value x 5 seconds: from 0 to 1000 seconds * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting (Sub)		5334	3	The forth drop	36	0 to 200	M	Setting value x 5 seconds: from 0 to 1000 seconds * This code is valid for e-STUDIO357/457/507 only.	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser	Temperature drop during printing on thick paper (Sub)	Normal temperature	5335	0	The first drop	2	0 to 10	M	Setting value x -5°C: from 0°C to -50°C * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Temperature drop during printing on thick paper (Sub)	Normal temperature	5335	1	The second drop	2	0 to 10	M	Setting value x -5°C: from 0°C to -50°C * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Temperature drop during printing on thick paper (Sub)	Normal temperature	5335	2	The third drop	2	0 to 10	M	Setting value x -5°C: from 0°C to -50°C * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Temperature drop during printing on thick paper (Sub)	Normal temperature	5335	3	The forth drop	2	0 to 10	M	Setting value x -5°C: from 0°C to -50°C * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Temperature drop during printing on thick paper (Sub)	Low temperature	5335	4	The first drop	1	0 to 10	M	Setting value x -5°C: from 0°C to -50°C * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Temperature drop during printing on thick paper (Sub)	Low temperature	5335	5	The second drop	1	0 to 10	M	Setting value x -5°C: from 0°C to -50°C * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Temperature drop during printing on thick paper (Sub)	Low temperature	5335	6	The third drop	1	0 to 10	M	Setting value x -5°C: from 0°C to -50°C * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Temperature drop during printing on thick paper (Sub)	Low temperature	5335	7	The forth drop	1	0 to 10	M	Setting value x -5°C: from 0°C to -50°C * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Temperature drop during printing on thick paper (Sub)	High temperature	5335	8	The first drop	2	0 to 10	M	Setting value x -5°C: from 0°C to -50°C * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Temperature drop during printing on thick paper (Sub)	High temperature	5335	9	The second drop	4	0 to 10	M	Setting value x -5°C: from 0°C to -50°C * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Temperature drop during printing on thick paper (Sub)	High temperature	5335	10	The third drop	4	0 to 10	M	Setting value x -5°C: from 0°C to -50°C * This code is valid for e-STUDIO357/457/507 only.	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser	Temperature drop during printing on thick paper (Sub)	High temperature	5335	11	The forth drop	4	0 to 10	M	Setting value x -5°C: from 0°C to -50°C * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing on thick paper (Sub)		5336	0	The first drop	5	0 to 200	M	Setting value x 5 seconds: from 0 to 1000 seconds * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing on thick paper (Sub)		5336	1	The second drop	12	0 to 200	M	Setting value x 5 seconds: from 0 to 1000 seconds * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing on thick paper (Sub)		5336	2	The third drop	24	0 to 200	M	Setting value x 5 seconds: from 0 to 1000 seconds * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Temperature drop switching time setting during printing on thick paper (Sub)		5336	3	The fourth drop	36	0 to 200	M	Setting value x 5 seconds: from 0 to 1000 seconds * This code is valid for e-STUDIO357/457/507 only.	4	
08	Setting mode	Process	Fuser	Correction of temperature rising prevention (Latest value)		5337	0	Ready	0	0~15	M	0: 0℃ 1: -1℃ 2: -2℃ 3: -3℃ 4: -4℃ 5: -5℃ 6: -6℃ 7: -7℃ 8: -8℃ 9: -9℃ 10: -10℃ 11: -11℃ 12: -12℃ 13: -13℃ 14: -14℃ 15: -15℃	14	
08	Setting mode	Process	Fuser	Correction of temperature rising prevention (Latest value)		5337	1	Print	0	0~15	M	0: 0℃ 1: -1℃ 2: -2℃ 3: -3℃ 4: -4℃ 5: -5℃ 6: -6℃ 7: -7℃ 8: -8℃ 9: -9℃ 10: -10℃ 11: -11℃ 12: -12℃ 13: -13℃ 14: -14℃ 15: -15℃	14	
08	Setting mode	Process	Fuser			5469		Enable/Disable setting of energy saving control	Refer to contents	0-1	M	0: Disabled 1: Enabled * This code is valid for e-STUDIO357/457/507 only. <Default value> e-STUDIO357: 1 e-STUDIO457/507: 0	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Process	Fuser			5497		Maximum lamp ON period at energy saving control (supplementary)	Refer to contents	0-60	M	0: Disabled Setting value x 1 sec. * This code is valid for e-STUDIO357/457/507 only. <Default value> e-STUDIO357: 5 e-STUDIO457/507: 0	1	
08	Setting mode	Process	Fuser			5498		Minimum lamp OFF period at energy saving control (supplementary)	Refer to contents	0-60	M	0: Disabled Setting value x 1 sec. * This code is valid for e-STUDIO357/457/507 only. <Default value> e-STUDIO357: 38 e-STUDIO457/507: 0	1	
08	Setting mode	Counter	Maintenan ce			5554		PM counter setting value for developer material (K)	Refer to content	8 digits	M	Sets the number of printed sheets to display the message that prompts the PM of developer material. <Default value> e-STUDIO207L: JPD: 0 Other: 80000 e-STUDIO257: JPD: 0 Other: 100000 e-STUDIO307: JPD: 0 Other: 120000 e-STUDIO357: JPD: 0 Other: 125000 e-STUDIO457: JPD: 0 Other: 150000 e-STUDIO507: JPD: 0 Other: 150000	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Maintenan ce			5555		PM time counter setting value for developer material (K)	Refer to contents	8 digits	M	Sets the accumulated driving time to display the message that prompts the PM of developer material. <Default value> e-STUDIO207L/257/307: 161000 e-STUDIO357/457/507: 135000	1	
08	Setting mode	Counter	Maintenan ce			5562		PM counter setting value for part	Refer to content	8 digits	M	Sets the number of printed sheets to display the message that prompts the PM of part. <Default value> e-STUDIO207L: JPD: 0 Other: 240000 e-STUDIO257: JPD: 0 Other: 200000 e-STUDIO307: JPD: 0 Other: 240000 e-STUDIO357: JPD: 0 Other: 250000 e-STUDIO457: JPD: 0 Other: 300000 e-STUDIO507: JPD: 0 Other: 300000	1	
08	Setting mode	Counter	Maintenan ce			5563		PM time counter setting value for part	Refer to content	8 digits	M	Sets the accumulated driving time to display the message that prompts the PM of part. <Default value> e-STUDIO207L: 483000 e-STUDIO257/307: 322000 e-STUDIO357/457/507: 270000	1	
08	Setting mode	Counter	Maintenan ce			5568		Current value of PM counter for developer material (K)	0	8 digits	M	Displays the current number of printed sheets. Counts up by turning on the registration sensor.	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Maintenance			5569		Current value of PM time counter for developer material (K)	0	8 digits	M	Displays the current driving time.	1	
08	Setting mode	Counter	Maintenance			5576		Current value of PM counter for part	0	8 digits	M	Displays the current number of printed sheets. Counts up by turning on the registration sensor.	1	
08	Setting mode	Counter	Maintenance			5577		Current value of PM time counter for part	0	8 digits	M	Displays the current driving time of fuser.	1	
08	Setting mode	Counter	Maintenance			5581		Switching of output pages/driving counts at PM/developer material (K)	0	0~2	M	0: Pages 1: driving count 2: Whichever comes faster	1	
08	Setting mode	Counter	Maintenance			5585		Switching of output pages/driving counts at PM/part	0	0~2	M	0: Pages 1: driving count 2: Whichever comes faster	1	
08	Setting mode	Process	Development	Toner near empty		5810		Toner near-empty status threshold value setting (%)	3	1-99	M	This code is used when the value of 08-5155 is set to "4". Use this code to specify the threshold value (unit: %) for displaying the toner near-empty status. The accuracy of value is influenced by usage environment or originals.	1	
08	Setting mode	Process	Development	Toner near empty		5811		Toner near-empty status threshold value setting (number of sheets)	1000	1-9999	M	This code is used when the value of 08-5155 is set to "5". Use this code to specify the threshold value (unit: number of sheets) for displaying the toner near-empty status. The accuracy of value is influenced by usage environment or originals.	1	
08	Setting mode	Counter	Double count	For fee charging	Paper size	6010		Large-sized paper	Refer to contents	0~2	M	0: Counted as 1 1: Counted as 2 2: Counted as 1 (Mechanical counter is double counter) <Default value> JPN: 0 OTHER: 1	1	Yes
08	Setting mode	Counter	Double count	For fee charging	Paper size	6011		Definition setting of large sized paper	0	0~1	M	0: A3/LD 1: A3/LD/B4/LG/FOLIO/COMP/8K	1	Yes
08	Setting mode	Counter	Double count	For PM	Paper size	6012		Large-sized paper	1	0~1	M	0: Counted as 1 1: Counted as 2	1	Yes
08	Setting mode	Counter	Double count	For PM	Paper size	6013		Definition setting of large sized paper	1	0~1	M	0: A3/LD 1: A3/LD/B4/LG/FOLIO/COMP	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Double count	For PM	Paper type	6014		Thick paper	1	0~1	M	0: Counted as 1 1: Counted as 2	1	Yes
08	Setting mode	Counter	Double count	For PM	Paper type	6015		OHP	1	0~1	M	0: Counted as 1 1: Counted as 2	1	Yes
08	Setting mode	Counter	Double count	For PM	Paper type	6016		Envelope	1	0~1	M	0: Counted as 1 1: Counted as 2	1	Yes
08	Setting mode	Counter	Double count	For PM	Paper type	6017		Tab paper	1	0~1	M	0: Counted as 1 1: Counted as 2	1	Yes
08	Setting mode	Counter	Counter	Display of number of output pages in copier function	PPC	6063	0	Large	0	8 digits	SYS	Counts the number of output pages in the Copier Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	
08	Setting mode	Counter	Counter	Display of number of output pages in copier function	PPC	6063	1	Small	0	8 digits	SYS	Counts the number of output pages in the Copier Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	
08	Setting mode	Counter	Counter	Display of number of output pages in printer function	PRT	6064	0	Large	0	8 digits	SYS	Counts the number of output pages in the Printer Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes	14	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Counter	Display of number of output pages in printer function	PRT	6064	1	Small	0	8 digits	SYS	Counts the number of output pages in the Printer Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes	14	
08	Setting mode	Counter	Counter	Display of number of output pages at list print mode	PRT	6065	0	Large	0	8 digits	SYS	Counts the number of output pages at the List Print Mode Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	
08	Setting mode	Counter	Counter	Display of number of output pages at list print mode	PRT	6065	1	Small	0	8 digits	SYS	Counts the number of output pages at the List Print Mode Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	
08	Setting mode	Counter	Counter	Display of number of output pages in FAX function	PRT	6066	0	Large	0	8 digits	SYS	Counts the number of output pages in the FAX Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Counter	Display of number of output pages in FAX function	PRT	6066	1	Small	0	8 digits	SYS	Counts the number of output pages in the FAX Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	
08	Setting mode	Counter	Counter	Display of number of scanning pages at Full Color Mode in Scanning Function	SCN	6068	0	Large	0	8 digits	SYS	Counts the number of scanning pages at the Full Color Mode in the Scanning Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	
08	Setting mode	Counter	Counter	Display of number of scanning pages at Full Color Mode in Scanning Function	SCN	6068	1	Small	0	8 digits	SYS	Counts the number of scanning pages at the Full Color Mode in the Scanning Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	
08	Setting mode	Counter	Counter	Display of number of scanning pages in copier function	PPC	6070	0	Large	0	8 digits	SYS	Counts the number of scanning pages in the Copier Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Counter	Display of number of scanning pages in copier function	PPC	6070	1	Small	0	8 digits	SYS	Counts the number of scanning pages in the Copier Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	
08	Setting mode	Counter	Counter	Display of number of scanning pages in FAX function	FAX	6071	0	Large	0	8 digits	SYS	Counts the number of scanning pages in the FAX Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	
08	Setting mode	Counter	Counter	Display of number of scanning pages in FAX function	FAX	6071	1	Small	0	8 digits	SYS	Counts the number of scanning pages in the FAX Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	
08	Setting mode	Counter	Counter	Display of number of scanning pages in scanning function	SCN	6072	0	Large	0	8 digits	SYS	Counts the number of scanning pages in the Scanning Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Counter	Display of number of scanning pages in scanning function	SCN	6072	1	Small	0	8 digits	SYS	Counts the number of scanning pages in the Scanning Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	
08	Setting mode	Counter	Counter	Display of number of transmitted pages in FAX function	FAX	6073	0	Large	0	8 digits	SYS	Counts the number of transmitted pages in the FAX Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	
08	Setting mode	Counter	Counter	Display of number of transmitted pages in FAX function	FAX	6073	1	Small	0	8 digits	SYS	Counts the number of transmitted pages in the FAX Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	
08	Setting mode	Counter	Counter	Display of number of received pages in FAX function	FAX	6074	0	Large	0	8 digits	SYS	Counts the number of received pages in the FAX Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Counter	Display of number of received pages in FAX function	FAX	6074	1	Small	0	8 digits	SYS	Counts the number of received pages in the FAX Function according to its size (large/small). Large: Number of output pages of large-sized paper defined at 08-6011 Small: Number of output pages other than set as large-sized paper Total: Total number output pages of all paper sizes.	14	
08	Setting mode	Counter	Custom counter	For dealer		6080		Enabling/Disabling custom counter	0	0~1	SYS	When this setting is enabled, the custom counter of total counter is enabled. Related code: 08-6088, 6089. When this setting is enabled, 08-6010 does not affect the total counter. Since the count is calculated based on the existing Large/Small counter, the count before changing this setting is also included in the count. 0: Disabled 1: Enabled	1	Yes
08	Setting mode	Counter	Custom counter/Job Quota	For administrator	Weighting/Scanning	6081	0	Black/Gray	0	0~9999	SYS	Weights subtraction of scanning from department/user Job Quota and addition of Scan Counter to Custom Counter. 0 (weight: 0.00) – 9999 (weight: 99.99)	4	Yes
08	Setting mode	Counter	Custom counter/Job Quota	For administrator	Weighting/Scanning	6081	1	Full Color	0	0~9999	SYS	Weights subtraction of scanning from department/user Job Quota and addition of Scan Counter to Custom Counter. 0 (weight: 0.00) – 9999 (weight: 99.99)	4	Yes
08	Setting mode	Counter	Double count setting for paper type			6083	1	Thick1/2/3/4 (Back)	Refer to contents	0~1	SYS	Sets the weight of fee charging count for printing per page. Scan counter and fax counter are not influenced. 0: Single 1: Double <Default value> JPD/CND: 0 Others: 1	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Double count setting for paper type			6083	2	Special1/2 (Back)	Refer to contents	0~1	SYS	Sets the weight of fee charging count for printing per page. Scan counter and fax counter are not influenced. 0: Single 1: Double <Default value> JPD/CND: 0 Others: 1	4	Yes
08	Setting mode	Counter	Double count setting for paper type			6083	3	Transparency	Refer to contents	0~1	SYS	Sets the weight of fee charging count for printing per page. Scan counter and fax counter are not influenced. 0: Single 1: Double <Default value> JPD/CND: 0 Others: 1	4	Yes
08	Setting mode	Counter	Double count setting for paper type			6083	4	Envelop	Refer to contents	0~1	SYS	Sets the weight of fee charging count for printing per page. Scan counter and fax counter are not influenced. 0: Single 1: Double <Default value> JPD/CND: 0 Others: 1	4	Yes
08	Setting mode	Counter	Double count setting for paper type			6083	5	Tab paper	Refer to contents	0~1	SYS	Sets the weight of fee charging count for printing per page. Scan counter and fax counter are not influenced. 0: Single 1: Double <Default value> JPD/CND: 0 Others: 1	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Custom counter/Job Quota	For administrator		6084		Enabling/Disabling custom counter/Job Quota	0	0-1	SYS	When this setting is enabled, the custom counter and Job Quota of department/user are enabled. Related code: 08-6081, 6085. When this setting is enabled, 08-6010 does not affect the counter/Quota of department/user. 0: Disabled 1: Enabled	1	Yes
08	Setting mode	Counter	Custom counter/Job Quota	For administrator	Weighting/Print	6085	0	Black/Small	100	0~9999	SYS	Weights subtraction of printing from department/user Job Quota and addition of printing to Custom Counter. 0 (weight: 0.00) – 9999 (weight: 99.99)	4	
08	Setting mode	Counter	Custom counter/Job Quota	For administrator	Weighting/Print	6085	1	Black/Large	100	0~9999	SYS	Weights subtraction of printing from department/user Job Quota and addition of printing to Custom Counter. 0 (weight: 0.00) – 9999 (weight: 99.99)	4	
08	Setting Mode	Counter	Counter Settings			6087		Color/Black quota selection at twin/mono color count	0	0-1	SYS	When the pages are counted for twin/mono color counter, this code sets whether the pages are subtracted from ColorQuota or BlackQuota. Not all the pages of TwinColor/MonoColor are subtracted. The pages assigned to twin/mono color counter are subtracted. The setting of this code is enabled only in the Color/BlackQuota mode and not enabled in the JobQuota mode. If the value of this code is set to "0" (ColorQuota), an error occurs if a user without color permission performs twin color printing. Note that the same error occurs in the JobQuota mode. 0: ColorQuota 1: BlackQuota Related code: 08-6084, 08-9128, 08-9892	1	
08	Setting Mode	Counter	Custom counter	For dealer	Weighting/Scanning	6088	0	Black/Gray	0	0-9999	SYS	Weights addition of Scan Counter to Custom Counter (Total Counter). Since the count is calculated based on the existing Large/Small counter, the count before changing this setting is also included in the count. 0 (weight: 0.00) – 9999 (weight: 99.99)	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting Mode	Counter	Custom counter	For dealer	Weighting/Scanning	6088	1	Full Color	0	0-9999	SYS	Weights addition of Scan Counter to Custom Counter (Total Counter). Since the count is calculated based on the existing Large/Small counter, the count before changing this setting is also included in the count. 0 (weight: 0.00) – 9999 (weight: 99.99)	4	Yes
08	Setting Mode	Counter	Custom counter	For dealer	Weighting/Print	6089	0	Black/Small	100	0-9999	SYS	Weights addition of print to Custom Counter (Total Counter). Since the count is calculated based on the existing Large/Small counter, the count before changing this setting is also included in the count. 0 (weight: 0.00) – 9999 (weight: 99.99)	4	Yes
08	Setting Mode	Counter	Custom counter	For dealer	Weighting/Print	6089	1	Black/Large	100	0-9999	SYS	Weights addition of print to Custom Counter (Total Counter). Since the count is calculated based on the existing Large/Small counter, the count before changing this setting is also included in the count. 0 (weight: 0.00) – 9999 (weight: 99.99)	4	Yes
08	Setting Mode	Counter	Custom counter	For dealer		6090		Truncation after decimal point of custom counter value	0	0-1	SYS	Sets the display method of custom counter value of total counter. When the value is displayed as integer, the total counter value (total value of each color) is sum of the truncated custom counter value of each color. Note that the value is slightly decreases compared to display with decimal point. 0: Displays 2 decimal places. 1: Displays integer (Truncation after decimal point)	1	Yes
08	Setting Mode	Counter	Custom counter	For dealer		6091		Output of annotation for custom counter	1	0-1	SYS	Sets whether the annotation "Custom Counter is result of..." for custom counter of total counter is output or not. 0: Annotation is not output 1: Annotation is output	1	Yes
08	Setting mode	Counter	Counter of Paper feed			6110		Upper drawer	0	8 digits	M	Counts the number of sheets fed from upper drawer	2	Yes
08	Setting mode	Counter	Counter of Paper feed			6111		Lower drawer	0	8 digits	M	Counts the number of sheets fed from lower drawer	2	Yes
08	Setting mode	Counter	Counter of Paper feed			6112		Bypass feed	0	8 digits	M	Counts the number of sheets fed from bypass feed	2	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Counter of Paper feed			6113		LCF	0	8 digits	M	Counts the number of sheets fed from LCF	2	Yes
08	Setting mode	Counter	Counter of Paper feed			6114		PFP upper drawer	0	8 digits	M	Counts the number of sheets fed from PFP upper drawer	2	Yes
08	Setting mode	Counter	Counter of Paper feed			6115		PFP lower drawer	0	8 digits	M	Counts the number of sheets fed from PFP lower drawer	2	Yes
08	Setting mode	Counter	Counter of Paper feed			6116		ADU	0	8 digits	M	Counts the number of output pages of duplex printing.	2	Yes
08	Setting mode	Counter	Counter of Paper feed			6117		RADF	0	8 digits	SYS	Counts the number of originals fed from RADF	2	Yes
08	Setting mode	Counter	Maintenan ce	PM counter	K	6190		Setting value	Refer to contents	8 digits	M	<Default> e-STUDIO207L: JPD: 0 Other: 80000 e-STUDIO257: JPD: 0 Other: 100000 e-STUDIO307: JPD: 0 Other: 120000 e-STUDIO357: JPD: 0 Other: 125000 e-STUDIO457/507: JPD: 0 Other: 150000	1	Yes
08	Setting mode	Counter	Maintenan ce	PM drive counter	K	6191		Setting value	Refer to contents	8 digits	M	Time accumulating counter <Default value> e-STUDIO207L/257/307: JPD: 0 Other: 161000 e-STUDIO357/457/507: JPD: 0 Other: 135000	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Maintenance	PM counter	K	6194		Current value	0	8 digits	M	Counts up when the registration sensor is ON.	1	Yes
08	Setting mode	Counter	Maintenance	PM drive counter	K	6195		Current value	0	8 digits	M	Counts the drum driving time.	1	Yes
08	Setting mode	Counter	Maintenance			6198		Switching of output pages/ driving counts at K-PM	0	0~2	M	Selects the reference to notify the PM timing. (The message is displayed on the LCD screen.) 0: PM counter (The number of output pages is set at 08-6190.) 1: PM time counter (The timing is set at 08-6191.) 2: Whichever comes faster	1	
08	Setting mode	Counter	Counter			6225		Number of output pages(Thick paper 1)	0	8 digits	M	Counts up when the registration sensor is ON. When the counter value of the fuser roller is cleared, this counter value is also cleared in sync at the PM support mode.	1	
08	Setting mode	Counter	Counter			6226		Number of output pages(Thick paper 2)	0	8 digits	M	Counts up when the registration sensor is ON. When the counter value of the fuser roller is cleared, this counter value is also cleared in sync at PM support mode.	1	
08	Setting mode	Counter	Counter			6227		Number of output pages(Thick paper 3)	0	8 digits	M	Counts up when the registration sensor is ON. When the counter value of the fuser roller is cleared, this counter value is also cleared in sync at PM support mode.	1	
08	Setting mode	Counter	Counter			6228		Number of output pages (OHP film)	0	8 digits	M	Counts up when the registration sensor is ON. When the counter value of the fuser roller is cleared, this counter value is also cleared in sync at PM support mode.	1	
08	Setting mode	Counter	Feeding system/Paper transport	Feeding retry counter		6230		Upper drawer	0	8 digits	M	Counts the number of times of the feeding retry from the upper drawer.	1	Yes
08	Setting mode	Counter	Feeding system/Paper transport	Feeding retry counter		6231		Lower drawer	0	8 digits	M	Counts the number of times of the feeding retry from the lower drawer.	1	Yes
08	Setting mode	Counter	Feeding system/Paper transport	Feeding retry counter		6232		PFP upper drawer	0	8 digits	M	Counts the number of times of the feeding retry from the PFP upper drawer.	1	Yes
08	Setting mode	Counter	Feeding system/Paper transport	Feeding retry counter		6233		PFP lower drawer	0	8 digits	M	Counts the number of times of the feeding retry from the PFP lower drawer.	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Feeding system/Paper transport	Feeding retry counter		6234		Bypass feed	0	8 digits	M	Counts the number of times of the feeding retry from the bypass tray.	1	Yes
08	Setting mode	Counter	Feeding system/Paper transport	Feeding retry counter		6235		LCF	0	8 digits	M	Counts the number of times of the feeding retry from the LCF.	1	Yes
08	Setting mode	Counter	Paper feeding			6236		Feeding retry counter upper limit value(Upper drawer)	0	8 digits	M	When the number of feeding retry (08-6230 to 08-6235) exceeds the setting value, the feeding retry will not be performed subsequently. In case "0" is set as a setting value, however, the feeding retry continues regardless of the counter setting value.	1	
08	Setting mode	Counter	Paper feeding			6237		Feeding retry counter upper limit value(Lower drawer)	0	8 digits	M	When the number of feeding retry (08-6230 to 08-6235) exceeds the setting value, the feeding retry will not be performed subsequently. In case "0" is set as a setting value, however, the feeding retry continues regardless of the counter setting value.	1	
08	Setting mode	Counter	Paper feeding			6238		Feeding retry counter upper limit value(PFP upper drawer)	0	8 digits	M	When the number of feeding retry (08-6230 to 08-6235) exceeds the setting value, the feeding retry will not be performed subsequently. In case "0" is set as a setting value, however, the feeding retry continues regardless of the counter setting value.	1	
08	Setting mode	Counter	Paper feeding			6239		Feeding retry counter upper limit value(PFP lower drawer)	0	8 digits	M	When the number of feeding retry (08-6230 to 08-6235) exceeds the setting value, the feeding retry will not be performed subsequently. In case "0" is set as a setting value, however, the feeding retry continues regardless of the counter setting value.	1	
08	Setting mode	Counter	Paper feeding			6240		Feeding retry counter upper limit value(Bypass feed)	0	8 digits	M	When the number of feeding retry (08-6230 to 08-6235) exceeds the setting value, the feeding retry will not be performed subsequently. In case "0" is set as a setting value, however, the feeding retry continues regardless of the counter setting value.	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Paper feeding			6241		Feeding retry counter upper limit value(Tandem LCF)	0	8 digits	M	When the number of feeding retry (08-6230 to 08-6235) exceeds the setting value, the feeding retry will not be performed subsequently. In case "0" is set as a setting value, however, the feeding retry continues regardless of the counter setting value.	1	
08	Setting mode	Counter	Counter			6244		Counter for tab paper	0	8 digits	M	Counts up when the registration sensor is ON in the tab paper mode.	1	
08	Setting mode	Counter	Counter			6247		Counter for envelope	0	8 digits	M	Counts up when the registration sensor is ON. When the counter value of the fuser roller is reset, this counter is reset in sync at the PM support mode.	1	Yes
08	Setting mode	Counter	PM counter	Photoconductive drum		6250	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Photoconductive drum		6250	1	Recommended number of output pages for replacement	Refer to contents	8 digits	M	<Default value> e-STUDIO207L: 80,000 e-STUDIO257: 100,000 e-STUDIO307: 120,000 e-STUDIO357: 125,000 e-STUDIO457/507: 150,000	4	
08	Setting mode	Counter	PM counter	Photoconductive drum		6250	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Photoconductive drum		6250	3	Present driving counts	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Photoconductive drum		6250	4	Recommended driving counts to be replaced	Refer to contents	8 digits	M	<Default value> e-STUDIO207L/257/307: 161,000 e-STUDIO357/457/507: 135,000	4	
08	Setting mode	Counter	PM counter	Photoconductive drum		6250	5	Driving counts at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Photoconductive drum		6250	6	Present output pages for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Photoconductive drum		6250	7	Present driving counts for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Photoconductive drum		6250	8	Number of times replaced	0	8 digits	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Photoconductive drum		6251	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Drum cleaning blade		6258	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Drum cleaning blade		6258	1	Recommended number of output pages for replacement	Refer to contents	8 digits	M	<Default value> e-STUDIO207L: 80,000 e-STUDIO257: 100,000 e-STUDIO307: 120,000 e-STUDIO357: 125,000 e-STUDIO457/507: 150,000	4	
08	Setting mode	Counter	PM counter	Drum cleaning blade		6258	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Drum cleaning blade		6258	3	Present driving counts	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Drum cleaning blade		6258	4	Recommended driving counts to be replaced	Refer to contents	8 digits	M	<Default value> e-STUDIO207L/257/307: 161,000 e-STUDIO357/457/507: 135,000	4	
08	Setting mode	Counter	PM counter	Drum cleaning blade		6258	5	Driving counts at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Drum cleaning blade		6258	6	Present output pages for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Drum cleaning blade		6258	7	Present driving counts for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Drum cleaning blade		6258	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Drum cleaning blade		6259	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Drum separation finger		6272	0	Present number of output pages	0	8 digits	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Drum separation finger		6272	1	Recommended number of output pages for replacement	Refer to contents	8 digits	M	<Default value> e-STUDIO207L: 80,000 e-STUDIO257: 100,000 e-STUDIO307: 120,000 e-STUDIO357: 125,000 e-STUDIO457/507: 150,000	4	
08	Setting mode	Counter	PM counter	Drum separation finger		6272	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Drum separation finger		6272	3	Present driving counts	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Drum separation finger		6272	4	Recommended driving counts to be replaced	Refer to contents	8 digits	M	<Default value> e-STUDIO207L/257/307: 161,000 e-STUDIO357/457/507: 135,000	4	
08	Setting mode	Counter	PM counter	Drum separation finger		6272	5	Driving counts at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Drum separation finger		6272	6	Present output pages for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Drum separation finger		6272	7	Present driving counts for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Drum separation finger		6272	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Drum separation finger		6273	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Charger grid		6274	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Charger grid		6274	1	Recommended number of output pages for replacement	Refer to contents	8 digits	M	<Default value> e-STUDIO207L: 80,000 e-STUDIO257: 100,000 e-STUDIO307: 120,000 e-STUDIO357: 125,000 e-STUDIO457/507: 150,000	4	
08	Setting mode	Counter	PM counter	Charger grid		6274	2	Number of output pages at the last replacement	0	8 digits	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Charger grid		6274	3	Present driving counts	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Charger grid		6274	4	Recommended driving counts to be replaced	Refer to contents	8 digits	M	<Default value> e-STUDIO207L/257/307: 161,000 e-STUDIO357/457/507: 135,000	4	
08	Setting mode	Counter	PM counter	Charger grid		6274	5	Driving counts at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Charger grid		6274	6	Present output pages for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Charger grid		6274	7	Present driving counts for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Charger grid		6274	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Charger grid		6275	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Charger (Wire)		6282	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Charger (Wire)		6282	1	Recommended number of output pages for replacement	Refer to contents	8 digits	M	<Default value> e-STUDIO207L: 80,000 e-STUDIO257: 100,000 e-STUDIO307: 120,000 e-STUDIO357: 125,000 e-STUDIO457/507: 150,000	4	
08	Setting mode	Counter	PM counter	Charger (Wire)		6282	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Charger (Wire)		6282	3	Present driving counts	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Charger (Wire)		6282	4	Recommended driving counts to be replaced	Refer to contents	8 digits	M	<Default value> e-STUDIO207L/257/307: 161,000 e-STUDIO357/457/507: 135,000	4	
08	Setting mode	Counter	PM counter	Charger (Wire)		6282	5	Driving counts at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Charger (Wire)		6282	6	Present output pages for control	0	8 digits	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Charger (Wire)		6282	7	Present driving counts for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Charger (Wire)		6282	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Charger (Wire)		6283	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Ozone filter		6298	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Ozone filter		6298	1	Recommended number of output pages for replacement	Refer to contents	8 digits	M	\<Default value\> e-STUDIO207L: 240,000 e-STUDIO257: 200,000 e-STUDIO307: 240,000 e-STUDIO357: 250,000 e-STUDIO457/507: 300,000	4	
08	Setting mode	Counter	PM counter	Ozone filter		6298	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Ozone filter		6298	3	Present driving counts	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Ozone filter		6298	4	Recommended driving counts to be replaced	Refer to contents	8 digits	M	\<Default value\> e-STUDIO207L: 483,000 e-STUDIO257/307: 322,000 e-STUDIO357/457/507: 270,000	4	
08	Setting mode	Counter	PM counter	Ozone filter		6298	5	Driving counts at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Ozone filter		6298	6	Present output pages for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Ozone filter		6298	7	Present driving counts for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Ozone filter		6298	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Ozone filter		6299	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Developer material		6300	0	Present number of output pages	0	8 digits	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Developer material		6300	1	Recommended number of output pages for replacement	Refer to contents	8 digits	M	\<Default value> e-STUDIO207L: 80,000 e-STUDIO257: 100,000 e-STUDIO307: 120,000 e-STUDIO357: 125,000 e-STUDIO457/507: 150,000	4	
08	Setting mode	Counter	PM counter	Developer material		6300	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Developer material		6300	3	Present driving counts	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Developer material		6300	4	Recommended driving counts to be replaced	Refer to contents	8 digits	M	\<Default value> e-STUDIO207L/257/307: 161,000 e-STUDIO357/457/507: 135,000	4	
08	Setting mode	Counter	PM counter	Developer material		6300	5	Driving counts at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Developer material		6300	6	Present output pages for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Developer material		6300	7	Present driving counts for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Developer material		6300	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Developer material		6301	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Transfer (wire/belt/ roller)		6314	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Transfer (wire/belt/ roller)		6314	1	Recommended number of output pages for replacement	Refer to contents	8 digits	M	\<Default value> e-STUDIO207L: 80,000 e-STUDIO257: 100,000 e-STUDIO307: 120,000 e-STUDIO357: 125,000 e-STUDIO457/507: 150,000	4	
08	Setting mode	Counter	PM counter	Transfer (wire/belt/ roller)		6314	2	Number of output pages at the last replacement	0	8 digits	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Transfer (wire/belt/roller)		6314	3	Present driving counts	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Transfer (wire/belt/roller)		6314	4	Recommended driving counts to be replaced	Refer to contents	8 digits	M	<Default value> e-STUDIO207L/257/307: 161,000 e-STUDIO357/457/507: 135,000	4	
08	Setting mode	Counter	PM counter	Transfer (wire/belt/roller)		6314	5	Driving counts at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Transfer (wire/belt/roller)		6314	6	Present output pages for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Transfer (wire/belt/roller)		6314	7	Present driving counts for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Transfer (wire/belt/roller)		6314	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Transfer (wire/belt/roller)		6315	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Fuser roller		6346	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Fuser roller		6346	1	Recommended number of output pages for replacement	Refer to contents	8 digits	M	<Default value> e-STUDIO207L: 240,000 e-STUDIO257: 200,000 e-STUDIO307: 240,000 e-STUDIO357: 250,000 e-STUDIO457/507: 300,000	4	
08	Setting mode	Counter	PM counter	Fuser roller		6346	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Fuser roller		6346	3	Present driving counts	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Fuser roller		6346	4	Recommended driving counts to be replaced	Refer to contents	8 digits	M	<Default value> e-STUDIO207L: 483,000 e-STUDIO257/307: 322,000 e-STUDIO357/457/507: 270,000	4	
08	Setting mode	Counter	PM counter	Fuser roller		6346	5	Driving counts at the last replacement	0	8 digits	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Fuser roller		6346	6	Present output pages for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Fuser roller		6346	7	Present driving counts for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Fuser roller		6346	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Fuser roller		6347	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Pressure roller		6350	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pressure roller		6350	1	Recommended number of output pages for replacement	Refer to contents	8 digits	M	<Default value> e-STUDIO207L: 240,000 e-STUDIO257: 200,000 e-STUDIO307: 240,000 e-STUDIO357: 250,000 e-STUDIO457/507: 300,000	4	
08	Setting mode	Counter	PM counter	Pressure roller		6350	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pressure roller		6350	3	Present driving counts	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pressure roller		6350	4	Recommended driving counts to be replaced	Refer to contents	8 digits	M	<Default value> e-STUDIO207L: 483,000 e-STUDIO257/307: 322,000 e-STUDIO357/457/507: 270,000	4	
08	Setting mode	Counter	PM counter	Pressure roller		6350	5	Driving counts at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pressure roller		6350	6	Present output pages for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pressure roller		6350	7	Present driving counts for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pressure roller		6350	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pressure roller		6351	-	Date of previous replacement	0	8 digits	M		2	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Fuser roller separation finger		6368	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Fuser roller separation finger		6368	1	Recommended number of output pages for replacement	Refer to contents	8 digits	M	\<Default value\> e-STUDIO207L: 240,000 e-STUDIO257: 200,000 e-STUDIO307: 240,000 e-STUDIO357: 125,000 e-STUDIO457/507: 150,000	4	
08	Setting mode	Counter	PM counter	Fuser roller separation finger		6368	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Fuser roller separation finger		6368	3	Present driving counts	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Fuser roller separation finger		6368	4	Recommended driving counts to be replaced	Refer to contents	8 digits	M	\<Default value\> e-STUDIO207L: 483,000 e-STUDIO257/307: 322,000 e-STUDIO357/457/507: 135,000	4	
08	Setting mode	Counter	PM counter	Fuser roller separation finger		6368	5	Driving counts at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Fuser roller separation finger		6368	6	Present output pages for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Fuser roller separation finger		6368	7	Present driving counts for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Fuser roller separation finger		6368	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Fuser roller separation finger		6369	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Pickup roller (RADF)		6382	0	Present number of output pages	0	8 digits	SYS		4	
08	Setting mode	Counter	PM counter	Pickup roller (RADF)		6382	1	Recommended number of output pages for replacement	120,000	8 digits	SYS		4	
08	Setting mode	Counter	PM counter	Pickup roller (RADF)		6382	2	Number of output pages at the last replacement	0	8 digits	SYS		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Pickup roller (RADF)		6382	8	Number of times replaced	0	8 digits	SYS		4	
08	Setting mode	Counter	PM counter	Pickup roller (RADF)		6383	-	Date of previous replacement	0	8 digits	SYS		2	
08	Setting mode	Counter	PM counter	Feed roller (RADF)		6384	0	Present number of output pages	0	8 digits	SYS		4	
08	Setting mode	Counter	PM counter	Feed roller (RADF)		6384	1	Recommended number of output pages for replacement	120,000	8 digits	SYS		4	
08	Setting mode	Counter	PM counter	Feed roller (RADF)		6384	2	Number of output pages at the last replacement	0	8 digits	SYS		4	
08	Setting mode	Counter	PM counter	Feed roller (RADF)		6384	8	Number of times replaced	0	8 digits	SYS		4	
08	Setting mode	Counter	PM counter	Feed roller (RADF)		6385	-	Date of previous replacement	0	8 digits	SYS		2	
08	Setting mode	Counter	PM counter	Separation roller (RADF)		6386	0	Present number of output pages	0	8 digits	SYS		4	
08	Setting mode	Counter	PM counter	Separation roller (RADF)		6386	1	Recommended number of output pages for replacement	120,000	8 digits	SYS		4	
08	Setting mode	Counter	PM counter	Separation roller (RADF)		6386	2	Number of output pages at the last replacement	0	8 digits	SYS		4	
08	Setting mode	Counter	PM counter	Separation roller (RADF)		6386	8	Number of times replaced	0	8 digits	SYS		4	
08	Setting mode	Counter	PM counter	Separation roller (RADF)		6387	-	Date of previous replacement	0	8 digits	SYS		2	
08	Setting mode	Counter	PM counter	Pickup roller (Upper drawer of equipment)		6390	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Upper drawer of equipment)		6390	1	Recommended number of output pages for replacement	80,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Upper drawer of equipment)		6390	2	Number of output pages at the last replacement	0	8 digits	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Pickup roller (Upper drawer of equipment)		6390	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Upper drawer of equipment)		6391	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Pickup roller (Lower drawer of equipment)		6392	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Lower drawer of equipment)		6392	1	Recommended number of output pages for replacement	80,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Lower drawer of equipment)		6392	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Lower drawer of equipment)		6392	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Lower drawer of equipment)		6393	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Pickup roller (Optional LCF)		6394	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Optional LCF)		6394	1	Recommended number of output pages for replacement	160,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Optional LCF)		6394	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Optional LCF)		6394	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Optional LCF)		6395	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Feed roller (Upper drawer of equipment)		6398	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Upper drawer of equipment)		6398	1	Recommended number of output pages for replacement	80,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Upper drawer of equipment)		6398	2	Number of output pages at the last replacement	0	8 digits	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Feed roller (Upper drawer of equipment)		6398	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Upper drawer of equipment)		6399	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Feed roller (Lower drawer of equipment)		6400	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Lower drawer of equipment)		6400	1	Recommended number of output pages for replacement	80,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Lower drawer of equipment)		6400	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Lower drawer of equipment)		6400	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Lower drawer of equipment)		6401	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Feed roller (Optional LCF)		6402	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Optional LCF)		6402	1	Recommended number of output pages for replacement	160,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Optional LCF)		6402	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Optional LCF)		6402	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Optional LCF)		6403	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Separation roller (Upper drawer of equipment)		6406	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Upper drawer of equipment)		6406	1	Recommended number of output pages for replacement	80,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Upper drawer of equipment)		6406	2	Number of output pages at the last replacement	0	8 digits	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Separation roller (Upper drawer of equipment)		6406	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Upper drawer of equipment)		6407	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Separation roller (Lower drawer of equipment)		6408	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Lower drawer of equipment)		6408	1	Recommended number of output pages for replacement	80,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Lower drawer of equipment)		6408	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Lower drawer of equipment)		6408	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Lower drawer of equipment)		6409	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Separation roller (Optional LCF)		6410	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Optional LCF)		6410	1	Recommended number of output pages for replacement	160,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Optional LCF)		6410	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Optional LCF)		6410	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Optional LCF)		6411	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Separation roller (Upper drawer of PFP)		6412	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Upper drawer of PFP)		6412	1	Recommended number of output pages for replacement	80,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Upper drawer of PFP)		6412	2	Number of output pages at the last replacement	0	8 digits	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Separation roller (Upper drawer of PFP)		6412	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Upper drawer of PFP)		6413	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Separation roller (Lower drawer of PFP)		6414	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Lower drawer of PFP)		6414	1	Recommended number of output pages for replacement	80,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Lower drawer of PFP)		6414	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Lower drawer of PFP)		6414	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Lower drawer of PFP)		6415	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Separation roller (Bypass unit)		6416	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Bypass unit)		6416	1	Recommended number of output pages for replacement	80,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Bypass unit)		6416	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Bypass unit)		6416	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Separation roller (Bypass unit)		6417	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Feed roller (Upper drawer of PFP)		6420	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Upper drawer of PFP)		6420	1	Recommended number of output pages for replacement	80,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Upper drawer of PFP)		6420	2	Number of output pages at the last replacement	0	8 digits	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Feed roller (Upper drawer of PFP)		6420	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Upper drawer of PFP)		6421	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Feed roller (Lower drawer of PFP)		6422	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Lower drawer of PFP)		6422	1	Recommended number of output pages for replacement	80,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Lower drawer of PFP)		6422	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Lower drawer of PFP)		6422	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Lower drawer of PFP)		6423	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Feed roller (Bypass unit)		6424	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Bypass unit)		6424	1	Recommended number of output pages for replacement	80,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Bypass unit)		6424	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Bypass unit)		6424	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Feed roller (Bypass unit)		6425	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Pickup roller (Upper drawer of PFP)		6428	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Upper drawer of PFP)		6428	1	Recommended number of output pages for replacement	80,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Upper drawer of PFP)		6428	2	Number of output pages at the last replacement	0	8 digits	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Pickup roller (Upper drawer of PFP)		6428	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Upper drawer of PFP)		6429	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Pickup roller (Lower drawer of PFP)		6430	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Lower drawer of PFP)		6430	1	Recommended number of output pages for replacement	80,000	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Lower drawer of PFP)		6430	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Lower drawer of PFP)		6430	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Pickup roller (Lower drawer of PFP)		6431	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	PM counter	Recovery blade		6436	0	Present number of output pages	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Recovery blade		6436	1	Recommended number of output pages for replacement	Refer to contents	8 digits	M	<Default value> e-STUDIO207L: 80,000 e-STUDIO257: 100,000 e-STUDIO307: 120,000 e-STUDIO357: 125,000 e-STUDIO457/507: 150,000	4	
08	Setting mode	Counter	PM counter	Recovery blade		6436	2	Number of output pages at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Recovery blade		6436	3	Present driving counts	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Recovery blade		6436	4	Recommended driving counts to be replaced	Refer to contents	8 digits	M	<Default value> e-STUDIO207L/257/307: 161,000 e-STUDIO357/457/507: 135,000	4	
08	Setting mode	Counter	PM counter	Recovery blade		6436	5	Driving counts at the last replacement	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Recovery blade		6436	6	Present output pages for control	0	8 digits	M		4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	PM counter	Recovery blade		6436	7	Present driving counts for control	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Recovery blade		6436	8	Number of times replaced	0	8 digits	M		4	
08	Setting mode	Counter	PM counter	Recovery blade		6437	-	Date of previous replacement	0	8 digits	M		2	
08	Setting mode	Counter	Pixel counter			6500		Standard paper size setting	Refer to contents	0~1	SYS	Selects the standard paper size to convert it into the pixel count (%). 0: A4 1: LT <Default value> NAD: 1 Other: 0	1	
08	Setting mode	Counter	Pixel counter			6501		Pixel counter all clearing	-	-	SYS	Clears all information related to the pixel counter.	3	
08	Setting mode	Counter	Pixel counter			6502		Service technician reference counter clearing	-	-	SYS	Clears all information related to the service technician reference pixel counter.	3	
08	Setting mode	Counter	Pixel counter			6503		Toner cartridge reference counter clearing	-	-	SYS	Clears all information related to the toner cartridge reference pixel counter.	3	
08	Setting mode	Counter	Pixel counter			6504		Pixel counter display setting	1	0~1	SYS	Selects whether or not to display the pixel counter on the LCD screen. 0: Displayed 1: Not displayed	1	
08	Setting mode	Counter	Pixel counter			6505		Displayed reference setting	0	0~1	SYS	Selects the reference when displaying the pixel counter on the LCD screen. 0: Service technician reference 1: Toner cartridge reference	1	
08	Setting mode	Counter	Pixel counter			6506		Counter setting for toner empty	0	0~1	SYS	0: Number of sheets 1: Value of pixel counter	1	
08	Setting mode	Counter	Pixel counter			6507		Number of sheets for toner empty	800	0~999	SYS	Sets the number of sheets for toner empty.	1	
08	Setting mode	Counter	Pixel counter			6508		Pixel counter value for toner empty	35100	0~60000	SYS	Sets the pixel counter value for toner empty.	1	
08	Setting mode	Counter	Pixel counter			6509		Pixel counter clear flag/Service technician reference	0	0~1	SYS	Becomes "1" when 08-6502 is performed.	2	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Pixel counter			6510		Service technician reference cleared date	-	0~99999999	SYS	Displays the date on which 08-6502 was performed.	2	
08	Setting mode	Counter	Pixel counter			6514		Toner cartridge reference cleared date	-	0~99999999	SYS	Displays the date on which 08-6503 was performed.	2	
08	Setting mode	Counter	Pixel counter			6522		Toner cartridge reference count started date	-	0~99999999	SYS	Displays the date on which 08-6503 was performed.	2	
08	Setting mode	Counter	Pixel counter	Number of output pages(Service technician reference)		6558		PPC	0	8 digits	SYS	Counts the number of output pages converted to the standard paper size in the copy function and service technician reference. [Unit. page]	2	
08	Setting mode	Counter	Pixel counter	Number of output pages(Service technician reference)		6560		PRT	0	8 digits	SYS	Counts the number of output pages converted to the standard paper size in the printer function and service technician reference. [Unit. page]	2	
08	Setting mode	Counter	Pixel counter	Number of output pages(Service technician reference)		6561		FAX	0	8 digits	SYS	Counts the number of output pages converted to the standard paper size in the FAX function and service technician reference. [Unit. page]	2	
08	Setting mode	Counter	Pixel counter	Number of output pages(Toner cartridge reference)		6563		PPC	0	8 digits	SYS	Counts the number of output pages converted to the standard paper size in the copy function and toner cartridge reference. [Unit. page]	2	
08	Setting mode	Counter	Pixel counter	Number of output pages(Toner cartridge reference)		6565		PRT	0	8 digits	SYS	Counts the number of output pages converted to the standard paper size in the printer function and toner cartridge reference. [Unit. page]	2	
08	Setting mode	Counter	Pixel counter	Number of output pages(Toner cartridge reference)		6566		FAX	0	8 digits	SYS	Counts the number of output pages converted to the standard paper size in the FAX function and toner cartridge reference. [Unit. page]	2	
08	Setting mode	Counter	Pixel counter			6576		Toner cartridge replacement counter	0	3 digits	SYS	Counts the number of time of the toner cartridge replacement.	2	
08	Setting mode	Counter	Pixel counter	Average pixel count(Service technician reference)		6602		PPC	0	0~10000	SYS	Displays the average pixel count in the copy function and service technician reference. [Unit: 0.01%]	2	
08	Setting mode	Counter	Pixel counter	Average pixel count(Service technician reference)		6603		PRT	0	0~10000	SYS	Displays the average pixel count in the printer function and service technician reference. [Unit: 0.01%]	2	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Pixel counter	Average pixel count(Service technician reference)		6604		FAX	0	0~10000	SYS	Displays the average pixel count in the FAX function and service technician reference. [Unit: 0.01%]	2	
08	Setting mode	Counter	Pixel counter	Average pixel count(Service technician reference)		6605		PPC/PRT/FAX	0	0~10000	SYS	Displays the average pixel count in the copy/printer/FAX function and service technician reference. [Unit: 0.01%]	2	
08	Setting mode	Counter	Pixel counter	Latest pixel count(Service technician reference)		6616		PPC	0	0~10000	SYS	Displays the latest pixel count in the copy function and service technician reference. [Unit: 0.01%]	2	
08	Setting mode	Counter	Pixel counter	Latest pixel count(Service technician reference)		6617		PRT	0	0~10000	SYS	Displays the latest pixel count in the printer function and service technician reference. [Unit: 0.01%]	2	
08	Setting mode	Counter	Pixel counter	Latest pixel count(Service technician reference)		6618		FAX	0	0~10000	SYS	Displays the latest pixel count in the FAX function and service technician reference. [Unit: 0.01%]	2	
08	Setting mode	Counter	Pixel counter	Average pixel count(Toner cartridge reference)		6623		PPC	0	0~10000	SYS	Displays the average pixel count in the copy function and toner cartridge reference. [Unit: 0.01%]	2	
08	Setting mode	Counter	Pixel counter	Average pixel count(Toner cartridge reference)		6629		PRT	0	0~10000	SYS	Displays the average pixel count in the printer function, and toner cartridge reference. [Unit: 0.01%]	2	
08	Setting mode	Counter	Pixel counter	Average pixel count(Toner cartridge reference)		6634		PPC/PRT/FAX	0	0~10000	SYS	Displays the average pixel count in the copy/printer/FAX function and toner cartridge reference. [Unit: 0.01%]	2	
08	Setting mode	Counter	Pixel counter	Average pixel count(Toner cartridge reference)		6635		FAX	0	0~10000	SYS	Displays the average pixel count in the FAX function and toner cartridge reference. [Unit: 0.01%]	2	
08	Setting mode	Counter	Pixel counter	Latest pixel count(Toner cartridge reference)		6644		FAX	0	0~10000	SYS	Displays the latest pixel count in the FAX function and toner cartridge reference. [Unit: 0.01%]	2	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PPC	6721	0	0-5%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the copy function are displayed. [Unit: page]	14	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PPC	6721	1	5.1-10%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the copy function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PPC	6721	2	10.1-15%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the copy function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PPC	6721	3	15.1-20%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the copy function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PPC	6721	4	20.1-25%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the copy function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PPC	6721	5	25.1-30%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the copy function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PPC	6721	6	30.1-40%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the copy function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PPC	6721	7	40.1-60%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the copy function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PPC	6721	8	60.1-80%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the copy function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PPC	6721	9	80.1-100%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the copy function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PRT	6722	0	0-5%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the printer function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PRT	6722	1	5.1-10%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the printer function are displayed. [Unit: page]	14	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PRT	6722	2	10.1-15%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the printer function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PRT	6722	3	15.1-20%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the printer function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PRT	6722	4	20.1-25%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the printer function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PRT	6722	5	25.1-30%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the printer function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PRT	6722	6	30.1-40%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the printer function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PRT	6722	7	40.1-60%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the printer function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PRT	6722	8	60.1-80%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the printer function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	PRT	6722	9	80.1-100%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the printer function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	FAX	6723	0	0-5%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the FAX function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	FAX	6723	1	5.1-10%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the FAX function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	FAX	6723	2	10.1-15%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the FAX function are displayed. [Unit: page]	14	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Pixel counter	Pixel count distribution	FAX	6723	3	15.1-20%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the FAX function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	FAX	6723	4	20.1-25%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the FAX function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	FAX	6723	5	25.1-30%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the FAX function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	FAX	6723	6	30.1-40%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the FAX function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	FAX	6723	7	40.1-60%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the FAX function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	FAX	6723	8	60.1-80%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the FAX function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Pixel count distribution	FAX	6723	9	80.1-100%	0	8 digits	SYS	The pixel count data are divided into 10 ranges. The number of output pages in each range is displayed. In this code, the distributions in the FAX function are displayed. [Unit: page]	14	
08	Setting mode	Counter	Pixel counter	Latest pixel count/black(Toner cartridge reference)		6724		PPC	0	0~10000	SYS	Displays the latest pixel count in the copy function and toner cartridge reference. [Unit: 0.01%]	2	
08	Setting mode	Counter	Pixel counter	Latest pixel count/black(Toner cartridge reference)		6725		PRT	0	0~10000	SYS	Displays the latest pixel count in the printer function and toner cartridge reference. [Unit: 0.01%]	2	
08	Setting mode	Counter	Counter for toner-save mode	Print in toner-save mode		6820	0	Small size/black	0	8 digits	SYS	Number of printed sheets in the toner-save mode.	4	
08	Setting mode	Counter	Counter for toner-save mode	Print in non-toner-save mode		6820	1	Small size/black	0	8 digits	SYS	Number of printed sheets in the non-toner-save mode.	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Counter for toner-save mode	Print in toner-save mode		6823	0	Large size/black	0	8 digits	SYS	Number of printed sheets in the toner-save mode.	4	
08	Setting mode	Counter	Counter for toner-save mode	Print in non-toner-save mode		6823	1	Large size/black	0	8 digits	SYS	Number of printed sheets in the non-toner-save mode.	4	
08	Setting mode	Counter	Black job counter			6852	0	PPC	0	8 digits	SYS	Counter for monochrome copy job.	4	
08	Setting mode	Counter	Black job counter			6852	1	PRT	0	8 digits	SYS	Counter for monochrome print job.	4	
08	Setting mode	Counter	Black job counter			6852	2	PPC/PRT	0	8 digits	SYS	Total counter for monochrome copy and print job.	4	
08	Setting mode	Counter	Counter	Toner cartridge usage history (Lot. No.)		6977	0	Latest	0	1 digit or 8digits	M	1 digit: Production location indicated. -0: Cartridge not installed -1: TESS cartridge -2: TABS cartridge -3: TEIS cartridge -6: Cartridge not detected (when the IC chip information cannot be detected) 8 digits: Lot No. indicated	4	Yes
08	Setting mode	Counter	Counter	Toner cartridge usage history (Lot. No.)		6977	1	1 cartridge earlier	0	1 digit or 8digits	M	1 digit: Production location indicated. -0: Cartridge not installed -1: TESS cartridge -2: TABS cartridge -3: TEIS cartridge -6: Cartridge not detected (when the IC chip information cannot be detected) 8 digits: Lot No. indicated	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Counter	Counter	Toner cartridge usage history (Lot. No.)		6977	2	2 cartridges earlier	0	1 digit or 8digits	M	1 digit: Production location indicated. -0: Cartridge not installed -1: TESS cartridge -2: TABS cartridge -3: TEIS cartridge -6: Cartridge not detected (when the IC chip information cannot be detected) 8 digits: Lot No. indicated	4	Yes
08	Setting mode	Counter	Counter	Toner cartridge usage history (Lot. No.)		6977	3	3 cartridges earlier	0	1 digit or 8digits	M	1 digit: Production location indicated. -0: Cartridge not installed -1: TESS cartridge -2: TABS cartridge -3: TEIS cartridge -6: Cartridge not detected (when the IC chip information cannot be detected) 8 digits: Lot No. indicated	4	Yes
08	Setting mode	Counter	Counter	Toner cartridge usage history (Lot. No.)		6977	4	4 cartridges earlier	0	1 digit or 8digits	M	1 digit: Production location indicated. -0: Cartridge not installed -1: TESS cartridge -2: TABS cartridge -3: TEIS cartridge -6: Cartridge not detected (when the IC chip information cannot be detected) 8 digits: Lot No. indicated	4	Yes
08	Setting mode	Image Processing	Image	Clearing of adjustment values of all image process (PPC) related 05/08 codes		7000		PPC	-	-	SYSclear	Clears the gamma correction table values and the setting values of 05/08 codes related to image processing (PPC).	3	
08	Setting mode	Image Processing	Image	Clearing of all gamma correction table values (PPC related areas only)		7001		PPC	-	-	SYS	Clears all the gamma correction table values in the PPC related areas of the HDD.	3	
08	Setting mode	Image Processing	Image	Error diffusion and dither setting		7014		Photo mode	1	0~1	SYS	Sets the image reproduction method at photo mode. 0: Error diffusion 1: Dither	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Image Processing	Image	Error diffusion and dither setting		7015		Photo mode (Custom Mode)	1	0~1	SYS	Switches the image processing method when Custom Mode 3 is set. 0: Error diffusion 1: Dither	1	
08	Setting mode	Image Processing	User interface	User mode setting		7034		PPC	0	0~3	SYS	0: Not used 1: Text/Photo is set as a base 2: Text is set as a base 3: Photo is set as a base	1	Yes
08	Setting mode	Image Processing	Automatic tone correction data	Last updated date and time		7051		Monochrome PPC	0	0-4212312359	SYS	Last updated date and time of automatic tone correction data. YYMMDDHHMM YY: year, MM: month, DD: day, HH: hour, MM: minute	2	Yes
08	Setting Mode	Image Processing	Image			7300		Clearing of adjustment values of all image process (network print) related 05/08 codes	-		M/SYS clear	Clears the setting values of 05/08 codes related to image processing (NW PRT).	3	
08	Setting Mode	Image Processing	Image			7400		Clearing of adjustment values of all image process (network scan) related 05/08 codes	-		SYS clear	Clears the setting values of 05/08 codes related to image processing (NW SCN).	3	
08	Setting mode	Image Processing	User interface	User mode setting	SCN	7401		Black	0	0~3	SYS	0: Unused 1: Text/Photo base 2: Text base 3: Photo base	1	Yes
08	Setting Mode	Image Processing	Image			7500		Clearing of adjustment values of all image process (Fax) related 05/08 codes	-		M/SYS clear	Clears the setting values of 05/08 codes related to image processing (NW FAX).	3	
08	Setting mode	Image Processing	Image	PPC		7617		ADF scan noise reduction	3	0-3	SYS	Sets the adjustment level for reducing color streaks when the RADF is used. 3: Disabled (default) 2: Noise reduction level - Low 1: Noise reduction level - Middle (recommended) 0: Noise reduction level - High	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	Image Processing	Image	SCN		8300		ADF scan noise reduction	3	0~3	SYS	Sets the adjustment level for reducing color streaks when the RADF is used. 3: Disabled (default) 2: Noise reduction level - Low 1: Noise reduction level - Middle (recommended) 0: Noise reduction level - High	1	
08	Setting mode	Image Processing	User interface	User mode setting	SCN	8303		Color	0	0~4	SYS	0: Unused 1: Text/Photo base 2: Text base 3: Photo base 4: e-document base * e-document: This is the mode that corresponds to the law in Japan. This mode is used to clarify area where changes were made with such as a correction fluid.	1	Yes
08	Setting mode	System	General			8504		Feeding method of odd page number in duplex printing(Raw print)	0	0~1	SYS	0: One side 1: Both sides	1	
08	Setting mode	System	General			8506		Forcible mode change in cartridge empty status	1	0~2	SYS	0: SLEEP MODE 1: AUTO POWER SAVE 2: READY	1	
08	Setting mode	System	General	Wide A4 Mode (for PCL)		8511		PRT	0	0~1	SYS	0: Disable 1: Enable	1	
08	Setting mode	System	General			8512		Number of jobs in batch processing	10	2~10	SYS	2-10: From 2 to jobs can be specified	1	
08	Setting mode	System	General			8514		Threshold value setting for RIP standard paper judgment	20	5~30	SYS	This code is used for changing the range in which the non-standard paper size is judged as standard paper size. If the page size information is within standard paper size ± setting value, the page size is judged as standard paper size when PS/PDF printing. If the page size information is out of the range, the page size is judged as non-standard paper size. The unit of setting value is PS point. 1 PS point is approx. 0.35 mm.	1	Yes
08	Setting mode	System	General	Outside erase judgment threshold (Default)	PPC	8515		PPC	0	-3~3	SYS	The larger the value is, area to be erased increases. The smaller the value is, area to be erased decreases.	1	
08	Setting mode	System	General	Outside erase judgment threshold (Default)	SCN	8516		SCN	0	-3~3	SYS	The larger the value is, area to be erased increases. The smaller the value is, area to be erased decreases.	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	General			8517		Remote Scan User authentication automatic login	1	0~1	SYS	0: OFF (A user always enters manually (current method)) 1: ON (Previous authentication information will be used)	1	
08	Setting mode	System	General			8518		Overwriting mode for scanned files	0	0~3	SYS	0: Always OFF 1: Meta Scan function ON / Normal scan function OFF 2: Meta Scan function OFF / Normal scan function ON 3: Always ON	1	
08	Setting mode	System	General			8519		Scan PDF file Paper size	1	0~1	SYS	0: Equivalent to scan image size 1: Fitted into any standard size	1	
08	Setting mode	System	General			8520		Underscore conversion of prohibited character in filename	1	0-1	SYS	Sets the prohibited characters in filename to covert to underscore. 0: \ / > < , " | ? * : ; = [ ] + 1: \ / > < " | ? * : * 0: Existing model standard 1: Windows standard Since setting the value to "1" allows some prohibited characters, filename might not be processed in external application or server.	1	
08	Setting mode	System	General			8521		Switchover of output format of Service Notification attachment	Refer to contents	0-1	SYS	Switches the output format of date in attachment of Service Notification. 0: YYYY.MM.DD 1: YYYY-MM-DDTHH:MM:SS <Default value> NAD: 1 Others: 0	1	
08	Setting mode	System	User interface	Screen setting		8523		Toner near-empty status Message	Refer to contents	0~1	SYS	0: ON 1: OFF <Default value> JPD/NAD/MJD/AUD/ARD: 1 Others: 0	1	Yes
08	Setting mode	System	General			8524		No paper Message display	0	0~1	SYS	0: ON 1: OFF	1	
08	Setting mode	System	General			8525		No paper in the left tray of tandem LCF message	0	0~1	SYS	0: ON 1: OFF	1	
08	Setting mode	System	Scanning	Scanning preview		8526		Default setting	0	0-1	SYS	0: Disabled 1: Enabled	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Scanning	Scanning preview		8527		Default display type	0	0-1	SYS	0: Fit page 1: Fit width	1	
08	Setting mode	System	General			8532		Control panel Brightness level adjustment	4	1~7	SYS	1-7: Brightness level	1	
08	Setting mode	System	General	Sorting method for displaying private print jobs		8537		PRT	0	0~1	SYS	Changes the sorting order for print jobs on the private print list. 0: Descending order 1: Ascending order	1	
08	Setting mode	System	Maintenan ce (Remote)			8538		Notification setting for toner nearly empty	0	0~1	SYS	0: Disabled 1: Enabled	1	
08	Setting mode	System	Scanner	Date/time format in the Meta Scan XML file		8540		SCN	1	0~1	SYS	0: YYYY/MM/DDhh:mm:ss.mmm 1: YYYY-MM-DDThh:mm:ss.mmmTZD	1	
08	Setting mode	System	User interface			8543		Transition to the energy saving mode when in the Sleep mode	1	0~1	SYS	0: Disabled 1: Enabled (depending on conditions)	1	Yes
08	Setting mode	System	User interface			8544		Tolerance for switching to Super Sleep mode	5	5~600	SYS	The interval between recovering from the Super Sleep mode and making the transition to the Super Sleep mode again. Unit: seconds.	1	Yes
08	Setting mode	System	User interface			8546		Input setting of minus value for image shift when copying	0	0~1	SYS	0: Inputting minus value is disabled. 1: Inputting minus value is enabled.	1	Yes
08	Setting mode	System	Paper feeding	Change of the paper size setting on the touch panel when printing is interrupted by size mismatch		8548		PRT	0	0~1	SYS	0: Change of the paper size setting on the touch panel is disabled. 1: Change of the paper size setting on the touch panel is enabled.	1	
08	Setting mode	System	Counter			8549		Hardware key control when external counter is installed	0	0~1	SYS	0: No control 1: Mode switch key is disabled.	1	
08	Setting mode	System	Maintenan ce			8584		Selects whether or not to transmit the Subject.	1	0~1	SYS	0: Disabled 1: Enabled	1	
08	Setting mode	System	Maintenan ce			8585		Selects the edit setting of the Subject.	1	0~1	SYS	0: Disabled 1: Enabled	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Maintenan ce			8586		Selects whether or not to add the date and time to the Subject.	1	0~1	SYS	0: Not added 1: Added	1	
08	Setting mode	System	Maintenan ce			8587		Selects the setting of the Subject, by using the fixed string or inputting the specified one.	0	0~1	SYS	0: Fixed string (Default) 1: Specified string	1	
08	Setting mode	System	LDAP user authenticat ion	Attribute value setting		8592		Sender address	mail	-	SYS	Sets the default attribute value of sender address. Maximum 32 characters (ASCII).	11	
08	Setting mode	System	LDAP user authenticat ion	Attribute value setting		8593		Sender name	uid	-	SYS	Sets the default attribute value of sender name. Maximum 32 characters (ASCII).	11	
08	Setting mode	System	Maintenan ce			8597		Updates the Private/Hold Print job list automatically	0	0~1	SYS	0: Disabled 1: Enabled	1	
08	Setting mode	System	Maintenan ce			8598		Selects the template icon layout on the touch panel	0	0~1	SYS	0: Pattern 1 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) 1: Pattern 2 (1) (2) (9) (10) (3) (4) (11) (12) (5) (6) (13) (14) (7) (8) (15) (16)	1	
08	Setting mode	System	General	Outside erase		8600		Change of default value	0	0~1	SYS	0: Disabled 1: Enabled	1	Yes
08	Setting mode	System	Maintenan ce			8603		Special usage of external options I/F	0	0~2	SYS	0: None (Default) 1: Usage 1 2: Usage 2	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network	Prioritized authentication server		8608		Windows	0	0-100	SYS	Sets the prioritized authentication server to be searched (0 to 100). The servers displayed on the screen accessed by TopAccess -> Administration -> Maintenance -> Directory Service are numbered beginning at the top (0 to 100).	1	
08	Setting mode	System	Network	Prioritized authentication server		8609		LDAP	0	0-100	SYS	Sets the prioritized authentication server to be searched (0 to 100). The servers displayed on the screen accessed by TopAccess -> Administration -> Maintenance -> Directory Service are numbered beginning at the top (0 to 100).	1	
08	Setting mode	System	Network	Prioritized authentication server		8610		Card	0	0-100	SYS	Sets the prioritized authentication server to be searched (0 to 100). The servers displayed on the screen accessed by TopAccess -> Administration -> Maintenance -> Directory Service are numbered beginning at the top (0 to 100).	1	
08	Setting mode	System	User interface			8622		Date and time addition setting to file name of scan to file/e-mail	1	0-1	SYS	0: Not added 1: Added	1	
08	Setting Mode	System	General			8623	0	RIP function setting	1	0-1	SYS	Enables/Disables the function related to Excel boarder rendering of PCL6. The function is to prevent missing lines when scaling down and inconsistent line width when scaling up. 0: Disabled (No correction. Compliant with PCL6 language) 1: Enabled	4	
08	Setting mode	System	User interface			8624		Switchover of display method of filename	3	0-3	SYS	Switches the display method of filename. 0: Displays the filename from the beginning 1: Displays the trailing characters 2: Displays the beginning and trailing characters 3: Displays the filename without abbreviation	1	Yes
08	Setting mode	System	User interface			8628		Job operation on the COPY screen when the coin controller is connected	0	0-1	SYS	This setting enables user to move from the COPY screen to JOB STATUS screen, and then operate jobs during printing when the coin controller is connected. This code is valid when the value of 08-9016 is "1". 0: Disabled 1: Enabled	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting Mode	System	FAX			8631		Filename creation at fax reception and forwarding	0	0-1	SYS	0: Use address name (family-name/first-name) as filename if multiple names are found by address book search of TSI (sender information). 1: Use address name (family-name/first-name) as filename only when single name is found by address book search of TSI (sender information).	1	
08	Setting mode	System	User interface			8640		Job build operation when the coin controller is connected	0	0-1	SYS	This setting enables user to use the job build function when the coin controller is connected. This code is valid when the value of 08-9016 is "1". 0: Disabled 1: Enabled	1	
08	Setting Mode	System	General			8641		Notification setting for job cancel	1	0-1	SYS	Sets the notification setting for job cancel. This setting is effective for the following error codes: 1CC0, 2BB0, 2CC0, 2DC0, 2EC0 0: Disabled (Not notified) 1: Enabled (Notified)	1	
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8642		LDAP attribute name settings 2	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8643		LDAP attribute name settings 3	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8644		LDAP attribute name settings 4	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8645		LDAP attribute name settings 5	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8646		LDAP attribute name settings 6	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8647		LDAP attribute name settings 7	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8648		LDAP attribute name settings 8	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8649		LDAP attribute name settings 9	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8650		LDAP attribute name settings 10	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8651		LDAP attribute name settings 11	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8652		LDAP attribute name settings 12	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8653		LDAP attribute name settings 13	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8654		LDAP attribute name settings 14	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8655		LDAP attribute name settings 15	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Card reading device	LDAP authentication	8656		LDAP attribute name settings 16	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting Mode	System	User interface	Sound		8657		Placing original	0	0-1	SYS	0: OFF 1: ON	1	Yes
08	Setting Mode	System	User interface	Sound		8658		Pressing [INTERRUPT] button	0	0-1	SYS	0: OFF 1: ON	1	Yes
08	Setting Mode	System	User interface	Sound		8659		Switchover of function	0	0-1	SYS	0: OFF 1: ON	1	Yes
08	Setting Mode	System	User interface	Sound		8660		Completion of job (except for FAX)	0	0-1	SYS	0: OFF 1: ON	1	Yes
08	Setting Mode	System	User interface	Sound		8661		End of warming-up/prewarming/sleep	0	0-1	SYS	0: OFF 1: ON	1	Yes
08	Setting Mode	System	User interface	Sound		8662		Job interrupt (out of paper)	0	0-1	SYS	0: OFF 1: ON	1	Yes
08	Setting Mode	System	User interface	Sound		8663		Fax transmission error	0	0-1	SYS	0: OFF 1: ON	1	Yes
08	Setting Mode	System	User interface	Sound	Hours for mute	8664	0	Enable/Disable setting of mute	0	0-1	SYS	0: Mute is disabled 1: Mute is enabled	4	Yes
08	Setting Mode	System	User interface	Sound	Hours for mute	8664	1	Starting time	0	0-2359	SYS	(Hour/Hour/Minute/Minute)	4	Yes
08	Setting Mode	System	User interface	Sound	Hours for mute	8664	2	Ending time	0	0-2359	SYS	(Hour/Hour/Minute/Minute)	4	Yes
08	Setting Mode	System	General			8667		Saving image log	0	0-1	SSDK	0: Disabled 1: Enabled	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting Mode	System	General			8668		Number of pages saved as image log	1	0-1	SSDK	0: First page 1: All pages	1	
08	Setting Mode	System	General			8670		e-Filing print setting when key counter/totalizer is installed	0	0-1	SYS	0: Not allowed 1: Allowed	1	
08	Setting Mode	System	Network	Number of retry for file transfer		8671	0	FTP	3	0-10	SYS	The transmission may succeed when the number of retry increases. However, it takes longer time to complete the job.	4	
08	Setting Mode	System	Network	Number of retry for file transfer		8671	1	SMB	3	0-10	SYS	The transmission may succeed when the number of retry increases. However, it takes longer time to complete the job.	4	
08	Setting Mode	System	Network	Number of retry for file transfer		8671	2	NetWare	3	0-10	SYS	The transmission may succeed when the number of retry increases. However, it takes longer time to complete the job.	4	
08	Setting Mode	System	Network	Retry interval for file transfer		8672	0	FTP	180	0-999	SYS	The transmission may succeed when the retry interval becomes longer. However, it takes longer time to complete the job. (Unit: sec.)	4	
08	Setting Mode	System	Network	Retry interval for file transfer		8672	1	SMB	180	0-999	SYS	The transmission may succeed when the retry interval becomes longer. However, it takes longer time to complete the job. (Unit: sec.)	4	
08	Setting Mode	System	Network	Retry interval for file transfer		8672	2	NetWare	180	0-999	SYS	The transmission may succeed when the retry interval becomes longer. However, it takes longer time to complete the job. (Unit: sec.)	4	
08	Setting Mode	System	General			8673		Disclosure of image log function	0	0-1	SSDK	0: Not opened to public 1: Opened to public	1	
08	Setting Mode	System	General			8674		Prohibition of transition to sleep mode during network initialization	0	0-1	SYS	0: Allowed 1: Prohibited	1	
08	Setting mode	System	FAX			8700		Secret reception setting	0	0-2	SYS	When the value of 08-8924 is "0", the value of this code can be set to "1" or "2". 0: Always Off 1: Always On 2. Scheduled reception	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface			8704		Restriction of Email/FAX address	0	0~1	SYS	This code is used to restrict Email/FAX Address to LDAP server specified via TopAccess. When the value of this code is set to "1", the address cannot be input directly and registered from the local address book. 0: No restriction 1: Looking up in external LDAP only	1	
08	Setting mode	System	User interface			8709		Service notification (equipment information)	Refer to contents	0-1	SYS	Sets whether the [SERVICE NOTIFICATION] (Equipment Information) button accessed by [USER FUNCTIONS] -> [ADMIN] -> [SERVICE] is displayed or not. 0: Disabled 1: Enabled <Default value> JPC/NAD/MJD: 1 Others: 0	1	Yes
08	Setting mode	System	Scanning			8710		Setting of character code for Scan to FTP	0	0-2	SYS	0: Automatic selection 1: UTF8 2: Shift-JIS	1	
08	Setting mode	System	User interface			8712		Display setting of the drawer setting button	1	0-1	SYS	Sets whether the drawer button in USER FUNCTIONS is displayed or not. 0: Not displayed 1: Displayed	1	
08	Setting mode	System	User interface			8713		Setting of web upload/web printing	0	0-1	SYS	Sets whether the web upload and web printing function is enabled or disabled. - Web upload is a function which uploads the image data created on the equipment to the web page displayed on EWB. - Web printing is a function which prints the web page displayed on EWB or the PDF file included in the web page displayed on EWB. 0: Disabled 1: Enabled	1	
08	Setting mode	System	User interface	Service notification information		8715		Password for zip file with password	#1048109	-	SYS	Password for zip file with password of service notification information. Minimum number of digits: 0, maximum number of digits: 20 Available character: alphanumeric characters and symbols	11	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface			8717		Shutdown operation when Super Sleep is enabled	0	0-1	SYS	Sets the operation when the power button on the control panel is press for a few seconds if Super Sleep is enabled. 0: Hibernation 1: Super Sleep	1	Yes
08	Setting mode	System	User interface			8718		Selection for caching the screen of control panel at start-up	0	0-17	SYS	Use this code to shorten the time to switch the function on the control panel for the first time immediately after start-up. However, the start-up time becomes longer (about 1 to 3 seconds per screen). When selecting multiple screens, enter the total value. 0: Disabled 1: Copy 16: Fax	1	
08	Setting mode	System	Network			8719		MTU setting of network communication	1500	576-1500	NIC	Normally there's no need to change the MTU value. Set the proper MTU value when MFP is connected to the Internet using broadband router and so on.	12	
08	Setting mode	System	User interface			8720		Department code display with asterisk	0	0-1	SYS	0: Displays department code with asterisk when inputting it. 1: Displays department code as it is when inputting it.	1	Yes
08	Setting mode	System	FAX			8721		Automatic FAX sending at AutoClear when scanning original put on the glass	0	0-1	SYS	Sets whether the job is sent or canceled when AutoClear is executed on the interruption screen to confirm the next original displayed after scanning the original put on the glass. Use this code to cancel job when the equipment is left unattended while the interruption screen is displayed. 0: Sends job 1: Cancels job	1	Yes
08	Setting mode	System	User interface			8722		Display method of "Cannot find the Home Directory" on the control panel	0	0-1	SYS	Sets the display method of error if the Home Directory for user cannot be obtained from the server when setting the Home Directory for scanning. Use this code to disable the pop-up display when the Home Directory cannot be obtained depending on the user. 0: Displays the pop-up dialogue when user logs in 1: Displays the message in the guidance area when the Scan to File screen is displayed	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface			8723		Pop-up display of logging out of user authentication and department management on the control panel	1	0-1	SYS	Sets whether the pop-up dialog of confirmation for logging out is displayed when user or department logs out by pressing [FUNCTION CLEAR] button twice or pressing [ACCESS] button. 0: Logs out without displaying pop-up dialog 1: Displays pop-up dialog when logging out	1	Yes
08	Setting mode	System	User interface			8724		Display setting of Edit From Address button for Scan to email	1	0-1	SYS	0: Not displayed (From Address cannot be edited) 1: Displayed (From Address can be edited)	1	Yes
08	Setting mode	System	User interface			8725		Display setting of [USER FUNCTIONS]-> CHANGE LANGUAGE button	1	0-1	SYS	Sets whether the [CHANGE LANGUAGE] button accessed from [USER FUNCTIONS] button is displayed or not. Use this code to prohibit users from changing the language displayed on the control panel. Administrators can change the language. 0: Not displayed 1: Displayed	1	Yes
08	Setting mode	System	General			8726		Job deletion on the Job Status screen	0	0-1	SYS	Use this code to enable the job deletion on the [Job Status] screen. When "3: High level" is set for code 08-8911, be sure to disable this setting. 0: Disabled 1: Enabled	1	Yes
08	Setting Mode	System	User interface	Card reading device		8727		Display of dedicated screen for card authentication	0	0-1	SYS	Switches whether the message to hold a card over the card reader is displayed on the login screen when the card authentication is enabled. 0: Disabled 1: Enabled	1	
08	Setting Mode	System	Forced printing of user name			8728	0	Display/Non-display setting in TopAccess	0	0-1	SYS	0: Disabled 1: Enabled	4	
08	Setting Mode	System	Forced printing of user name			8728	1	Enable/Disable setting of forced printing	0	0-1	SYS	Normally this setting is made in TopAccess. 0: Disabled 1: Enabled	4	
08	Setting Mode	System	Forced printing of user name			8728	2	Prioritizing printer driver setting	1	0-1	SYS	Normally this setting is made in TopAccess. 0: Disabled 1: Enabled	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting Mode	System	Forced printing of user name			8728	3	Application to network fax job	0	0-1	SYS	Normally this setting is made in TopAccess. 0: Disabled 1: Enabled	4	
08	Setting Mode	System	Forced printing of user name			8728	4	Enable/Disable setting of prefix/suffix	0	0-1	SYS	Normally this setting is made in TopAccess. 0: Disabled 1: Enabled	4	
08	Setting Mode	System	Forced printing of user name			8728	6	White background setting	1	0-1	SYS	Normally this setting is made in TopAccess. 0: Disabled 1: Enabled	4	
08	Setting Mode	System	Forced printing of user name			8728	7	Print position	0	0-3	SYS	Normally this setting is made in TopAccess. 0: Bottom left 1: Top left 2: Bottom right 3: Top right	4	
08	Setting Mode	System	Forced printing of user name			8728	8	Fine adjustment of print position (X)	3	0-100	SYS	Adjusts the print position in X direction. The print position shifts toward inside of original when the value increases. Unit: pt. 1pt = 0.35mm.	4	
08	Setting Mode	System	Forced printing of user name			8728	9	Fine adjustment of print position (Y)	3	0-100	SYS	Adjusts the print position in Y direction. The print position shifts toward inside of original when the value increases. Unit: pt. 1pt = 0.35mm.	4	
08	Setting Mode	System	Forced printing of user name			8728	10	Font setting	0	0-9	SYS	Normally this setting is made in TopAccess. 0: Helvetica 1: AlbertusMT 2: Chicago 3: Eurostile 4: Geneva 5: GillSans 6: LetterGothic 7: Monaco 8: Taffy 9: TimesNewRomanPSMT	4	
08	Setting Mode	System	Forced printing of user name			8728	11	Font size setting	8	6-16	SYS	Normally this setting is made in TopAccess. 6-16pt.	4	
08	Setting Mode	System	Forced printing of user name			8728	12	Font color setting	0	0-1	SYS	Normally this setting is made in TopAccess. 0: Black 1: Gray	4	
08	Setting Mode	System	Forced printing of user name			8728	13	Density setting of light font color	40	10-90	SYS	Sets the density when the font color is set to gray.	4	
08	Setting Mode	System	Forced printing of user name			8729		Prefix setting	Printed by	-	SYS	Normally this setting is made in TopAccess. Maximum 64 characters.	11	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting Mode	System	Forced printing of user name			8730		Suffix setting	-	-	SYS	Normally this setting is made in TopAccess. Maximum 64 characters.	11	
08	Setting mode	System	User interface			8732		Default Menu Screen Setting	0	0-1	SYS	Switches the default screen of MENU 0: User 1: Public	1	
08	Setting Mode	System	Scanning			8735		Sending setting of ScanToURL	0	0-1	SYS	0: Disabled 1: Enabled	1	
08	Setting Mode	System	Scanning			8736		Maximum size for ScanToURL attachment	5	0-100	SYS	Sets the maximum size of attachment that can be sent with ScanToURL. 0: Always sends URL 1-100: Maximum size (MB)	1	
08	Setting Mode	System	User interface	Screen setting		8738		E-mail address direct input button	1	0-1	SYS	Switches the display setting of the [INPUT @] button. 0: Not displayed 1: Displayed	1	Yes
08	Setting mode	System	User interface	Screen setting		8744		Switchover of pop-up display during scanning	1	0-1	SYS	Switches the pop-up display during scanning 0: Not displayed 1: Displayed	1	
08	Setting mode	System	User interface			8745		Enable/Disable setting of EWB history	0	0-1	SYS	Sets whether part of the cookie, password, and form data of user who logs in to EWB is saved or not. 0: Disabled 1: Enabled	1	
08	Setting mode	System	User interface			8746		Port number setting of destination 10 for sending trap	162	1-65535	NIC	Sets the port number of destination 10 for sending SNMP trap. If the port is used when using the real time log notification function, change the port number.	12	
08	Setting Mode	System	User interface			8748		Input of department code at user authentication	0	0-1	SYS	0: Not required 1: Required	1	
08	Setting Mode	System	Network			8749		User authentication by logon information to domain (external authentication)	0	0-1	SYS	0: Disabled 1: Enabled	1	
08	Setting Mode	System	User interface			8754		Error sheet output at reception of non-supported PDL	1	0-1	SYS	0: Error sheet is not output 1: Error sheet is output	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting Mode	System	Maintenance	Notification of remaining amount of toner		8755		Enable/Disable setting	0	0-1	SYS	0: Disabled 1: Enabled	1	Yes
08	Setting Mode	System	Maintenance	Notification of remaining amount of toner		8756	0	Remaining amount at first notification	25	0-100	SYS	0 to 100%	4	Yes
08	Setting Mode	System	Maintenance	Notification of remaining amount of toner		8756	1	Notification interval	10	1-25	SYS	1 to 25%	4	Yes
08	Setting Mode	System	User interface	Card reading device		8758		Overwriting of login at authentication	0	0-1	SYS	Switches the enable/disable setting for the function to overwrite the login information at the card authentication. 0: Disabled 1: Enabled	1	
08	Setting Mode	System	General			8761		Retention of print (spooling) data	0	0-1	SYS	Use this code to retain and obtain the print data (spooling data) if problem occurs. After obtaining the data, be sure to disable the setting. 0: Disabled (print data is deleted) 1: Enabled (print data is retained)	1	Yes
08	Setting Mode	System	Maintenance	Display of remaining amount of toner (for RDMS/MMDT)		8762	0	K	0	0-100	SYS	0 to 100%	14	
08	Setting mode	System	Network			8771		Account setting for access to Home Directory	0	0-1	SYS	0: Setting of Remote1 is used 1: Setting of Remote1 and Remote2 is used	1	
08	Setting mode	System	Network			8774		Password authentication for print job	0	0-1	SYS	Sets whether the user authentication for network printing/FAX/InternetFAX using the user information and password input on the printer driver is enabled or disabled. When this setting is enabled, the setting of 08-8749 is automatically disabled. 0: Disabled 1: Enabled	1	
08	Setting mode	System	Network	PIN code		8775		PIN code authentication setting at user authentication	0	0-2	SYS	0: Disabled 1: PIN code 2: Card+PIN code	1	
08	Setting mode	System	Network	PIN code		8776		Logging setting of PIN code	0	0-1	SYS	0: Disabled 1: Enabled	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network	PIN code		8777		Attribute value setting of LDAP PIN authentication server 1	eBMUse rPIN	-	SYS	Attribute name of PIN code	11	
08	Setting mode	System	Network	PIN code		8778		Attribute value setting of LDAP PIN authentication server 2	eBMUse rPIN	-	SYS	Attribute name of PIN code	11	
08	Setting mode	System	Network	PIN code		8779		Attribute value setting of LDAP PIN authentication server 3	eBMUse rPIN	-	SYS	Attribute name of PIN code	11	
08	Setting mode	System	Network	PIN code		8780		Prioritized authentication server	1	1-3	SYS	Sets the prioritized authentication server to be searched.	1	
08	Setting mode	System	User interface	Display setting		8781		Default setting of print screen when USB is inserted	0	0-1	SYS	0: Disabled (The setting of 08-9236 is used) 1: USB print screen	1	
08	Setting mode	System	General	Interval setting	Transition to Super Sleep	8782		For fax	15	15-600	SYS	Sets the interval to shift to Super Sleep again after recovery from Super Sleep. (Unit: seconds)	1	Yes
08	Setting mode	System	General			8783		Switchover of document sorting order of e-Filing Box	1	0-1	SYS	0: Sorted by saved date 1: Sorted by document name	1	
08	Setting mode	System	User interface			8785		Display/Non-display of pop-up for card authentication	Refer to contents	0-1	SYS	Sets whether the pop-up is displayed or not after the success of card authentication. This code is effective when the value of 08-8727 is "1" (Enabled). 0: Does not display pop-up 1: Displays pop-up <Default value> JPD: 0 Others: 1	1	
08	Setting mode	System	User interface	Default keyboard setting		8786	0	Japanese	3	0-4	SYS	Sets the default keyboard for inputting user name. 0: Romaji 1: Hiragana 2: Katakana (one-byte) 3: Alphabetical character (one-byte) 4: Symbol (one-byte)	4	Yes
08	Setting mode	System	User interface	Default keyboard setting		8786	1	Chinese	0	0-2	SYS	Sets the default keyboard for inputting user name. 0: Alphabetical character (one-byte) 1: Pinyin 2: Symbol (one-byte)	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting Mode	System	Network			8788		Detection interval when authentication server is down	60	1-1440	SSDK	Sets the interval to access the authentication server again after the detection of server down. 1-1440 (min.)	1	
08	Setting mode	System	User interface			8789		Display/Non-display of pop-up for automatic output of jobs	0	0-1	SYS	Sets whether the pop-up is displayed or not when jobs are automatically released after user authentication. This code is effective when the value of 08-8915 is "1" (Enabled). 0: Pop-up is not displayed 1: Pop-up is displayed	1	
08	Setting Mode	System	Network			8790		Switchover of server when authentication server is down	0	0-1	SSDK	Enables/disables the function that switches the access to another authentication server when it is detected that the authentication server is down. 0: Disabled 1: Enabled	1	
08	Setting Mode	System	Network			8791		Transition to sleep mode after printing	1	0-1	SYS	This code sets whether the equipment shifts to the sleep mode again immediately after completion of printing when the equipment recovers from the super-sleep mode for network printing. 0: Disabled 1: Enabled	1	Yes
08	Setting Mode	System	Network			8792		Format of host name used for Scan To URL	0	0-2	SYS	0: IP address 1: Host name (FQDN) 2: NetBIOS name	1	
08	Setting Mode	System	User interface			8795		Default setting of duplex mode for printer driver	Refer to contents	0-1	SYS	0: Single-sided 1: Duplex <Default value> JPD: 0 Others: 1	1	
08	Setting mode	System	Maintenance	General		8796		Method of scheduled automatic reboot	0	0-1	SYS	0:Normal reboot 1:Silent reboot	1	
08	Setting mode	System	Maintenance	General		8797		Reboot setting for resource check	0	0-1	SYS	0: OFF 1: ON * This code is valid only when the value of 08-8796 is "1".	1	
08	Setting mode	System	Network			8800		Enabling / Disabling of 802.1X	2	1~2	NIC	1: Enabled 2: Disabled	12	
08	Setting mode	System	Network			8802		Enabling / Disabling of IPsec	2	1~2	NIC	1: Enabled2: Disabled	12	
08	Setting mode	System	Network			8803		Enabling / Disabling of SNMPv3	2	1~2	NIC	1: Enabled2: Disabled	12	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			8804		Enabling / Disabling of IP filtering	2	1~2	SYS	1: Enabled 2: Disabled	1	
08	Setting mode	System	Network			8805		Enabling / Disabling of MAC address filtering	2	1~2	SYS	1: Enabled 2: Disabled	1	
08	Setting mode	System	Network			8820		IPsec NAT-Traversal setting	1	1~3	NIC	1: Default (IKEv1: Disabled, IKEv2: Enabled) 2: Enable IKEv1 & IKEv2 3: Disable IKEv1 & IKEv2	12	
08	Setting mode	System	Network			8821		IPsec CRL setting	2	1~2	NIC	1: Enable CRL 2: Disable CRL	12	
08	Setting mode	System	Network			8824		FTP client mode	0	0-2	NIC	Sets the FTP transfer mode when FTP is selected for "FILE" to save the scanned data. 0: Automatic 1: Passive mode 2: Active mode	12	
08	Setting mode	System	Network			8825		Sending of host announcement in Super Sleep mode	1	1-2	NIC	Since MFP is deleted from the master browser of Windows network if MFP is in the Super Sleep mode for 36 minutes or more, enable this setting to always display MFP in the browse list. 1: Enabled 2: Disabled	12	
08	Setting mode	System	Network	Dynamic update of DNS server		8826		Enable/Disable setting	1	1-2	NIC	Sets whether the function that gets the secondary DNS server to work as the primary DNS server temporarily is enabled or not when the primary DNS server is not available. 1: Enabled 2: Disabled	12	Yes
08	Setting mode	System	Network	Dynamic update of DNS server		8827		Operating interval	60	1-1440	NIC	Sets the operating interval of dynamic update. 1-1440 (min.)	12	Yes
08	Setting mode	System	Network			8830	0	Beep setting to identify printer for AirPrint IPP	1	0-1	SYS	Sets whether the beep for identifying printer is emitted or not when IPP is used for AirPrint. 0: Emits beep 1: No beep	4	
08	Setting mode	System	Network			8830	1	Blinking setting to identify printer for AirPrint IPP	1	0-1	SYS	Sets whether the blinking for identifying printer is enabled or not when IPP is used for AirPrint. 0: Disabled (No blinking) 1: Enabled	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			8830	2	Switchover of PDF print size with AirPrint	1	1-2	SYS	1: A4/LT size 2: Original size	4	
08	Setting mode	System	Network			8831		Time-out period for EWB network connection	60	1-300	SYS	1 to 300 (sec.)	1	
08	Setting mode	System	Network			8833		SMB server protocol	1	1-2	NIC	1: SMB1.0 2: SMB2.0	12	
08	Setting mode	System	Network			8835		Link down detection of network cable	1	0-1	NIC	0: Disabled 1: Enabled	12	
08	Setting mode	System	General	Registration number for workflow		8900	0	Total	2000	1000-2000	SYS	Changes the maximum number for workflow that is registrable.	4	
08	Setting mode	System	General	Registration number for workflow		8900	1	Number of interrupt copy	1	1	SYS	Changes the maximum number for workflow that is registrable.	4	
08	Setting mode	System	General	Registration number for workflow		8900	2	Number of transmission and calling of Fax/InternetFax	100	10-100	SYS	Changes the maximum number for workflow that is registrable.	4	
08	Setting mode	System	General	Registration number for workflow		8900	3	Number of printing	1000	150-1000	SYS	Changes the maximum number for workflow that is registrable.	4	
08	Setting mode	System	Fax preview			8901		Default setting	0	0-1	SYS	0: Disabled 1: Enabled	1	
08	Setting mode	System	Fax preview			8902		Default display type	0	0-1	SYS	0: Fit page 1: Fit width	1	
08	Setting mode	System				8904		Job jump instruction setting	0	0-1	SYS	Sets whether waiting job is executed or not if print job in process is interrupted. 0: Disabled 1: Enabled	1	
08	Setting mode	System				8905		Forcible printing against unacceptable paper error	0	0-1	SYS	0: OFF (printing not continued) 1: ON (printing continued by automatically selecting the available exit tray)	1	
08	Setting mode	System	Continuous print setting when punching dust box is full			8906		Copy	0	0-1	SYS	0: OFF (copying not continued) 1: ON (copying continued by canceling punching setting)	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Continuou s print setting when punching dust box is full			8907		Printer/e-Filing	1	0-1	SYS	0: OFF (copying not continued) 1: ON (copying continued by canceling punching setting)	1	
08	Setting mode	System	General			8910		Time to auto-clearing when in the self-diagnostic mode	0	0-5	SYS	0: None 1: 1 min. 2: 5 min. 3: 10 min. 4: 30 min. 5: 99 min.	1	
08	Setting mode	System	General			8911		Security mode (level) setting	1	1-4	SYS	Level setting for security function 1: Low level 2: - 3: High level 4: -	1	
08	Setting mode	System	Maintenan ce	General		8912		Serial number display of finisher	-	-	-	FIN S/N: XXXXXXXXX	2	
08	Setting mode	System	Maintenan ce	General		8913		Warning display for password expiration	15	0-30	SYS	0: None 1-30: Remaining days until the password expiration for warning start.	1	
08	Setting mode	System	MFP function setting			8914	0	Copy	1	0-1	SYS	Sets whether the Copier function is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	1	e-Filing	1	0-1	SYS	Sets whether the filing function is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	2	Fax	1	0-1	SYS	Sets whether the Fax function is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	3	InternetFAX	1	0-1	SYS	Sets whether the InternetFAX function is enabled or disabled. 0: Disabled 1: Enabled	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	MFP function setting			8914	4	Email	1	0-1	SYS	Sets whether the email function is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	5	Save as Local HDD	1	0-1	SYS	Sets whether the function that saves data to HDD in the equipment is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	6	Save as Local HDD from Print	1	0-1	SYS	Sets whether the function that saves data to HDD in the equipment using print function is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	7	Save as Local HDD from Fax	1	0-1	SYS	Sets whether the function that saves data to HDD in the equipment using Fax function is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	8	Save to USB Media	1	0-1	SYS	Sets whether the function that saves scanned data of originals to USB media is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	9	Save as FTP	1	0-1	SYS	Sets whether the function that saves scanned data of originals to FTP server is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	10	Save as FTPS	1	0-1	SYS	Sets whether the function that saves scanned data of originals to FTP server using SSL is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	11	Save as SMB	1	0-1	SYS	Sets whether the function that saves scanned data of originals to the SMB server is enabled or disabled. 0: Disabled 1: Enabled	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	MFP function setting			8914	12	Save as Netware	1	0-1	SYS	Sets whether the function that saves scanned data of originals to the Netware server is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	13	Web Service Scanning (WS Scan)	1	0-1	SYS	Sets whether the WS scanning function is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	14	Twain Scanning (Remote Scan)	1	0-1	SYS	Sets whether the remote scanning function is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	15	Send to External Controller	1	0-1	SYS	Sets whether the function that saves data to the external server is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	16	Network Fax	1	0-1	SYS	Sets whether the Network Fax function is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	MFP function setting			8914	17	Network InternetFAX	1	0-1	SYS	Sets whether the Network InternetFAX function is enabled or disabled. 0: Disabled 1: Enabled	4	
08	Setting mode	System	Network			8915		Automatic output of jobs at login	0	0-1	SYS	Sets whether jobs registered in the hold queue of user are automatically output or not when the user logs in. 0: Disabled 1: Enabled	1	
08	Setting mode	System	General			8919		Service password	-	-	SYS	Sets the password to log into the self-diagnostic mode and Service UI.	11	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Option	FAX		8920		Output tray for FAX/InternetFAX/e-mail printing	0	0-2	SYS	Sets the output tray of the equipment or options. <When no options are installed (equipment only)> 0: Inner tray 1: Inner tray 2: Inner tray <MJ-1032 is installed> 0: Stationary tray 1: Movable tray 2: Movable tray <MJ-1033 is installed> 0: Inner tray 1: Movable tray 2: Movable tray <MJ-1101 or MJ-1106 is installed> 0: Inner tray 1: Stationary tray 2: Movable tray <When MJ-5004 or MJ-5006 is installed> 0: Upper tray 1: Lower tray 2: Upper tray <When MJ-5005 is installed> 0: OCT tray 1: OCT tray 2: OCT tray	1	Yes
08	Setting mode	System	Department management			8921		Clearing of the user/department counter	1	0-1	SYS	0: Not allowed 1: Allowed	1	Yes
08	Setting mode	System	User interface			8922		Email header print setting	0	0-1	SYS	Sets whether the header of an Email or an Internet Fax is printed or not as they are received. 0: Not printed 1: Printed	1	
08	Setting mode	System	User interface			8923		Email body print setting	1	0-1	SYS	Sets whether the body of an Email or an Internet Fax is printed or not as they are received. 0: Not printed 1: Printed	1	
08	Setting mode	System	User interface			8924		Registration of the received Fax / Internet Fax / Email jobs to hold queue	0	0-1	SYS	Registers the received Fax / Internet Fax / Email jobs to the hold queue instead of printing immediately. Data in the hold queue are not printed unless the user allows printing by means of the control panel. 0: Not registered (normal printing) 1: Register	1	
08	Setting mode	System	General			8925		Data tampering checking at startup	0	0-1	SYS	Sets whether data tampering is checked or not at startup. 0: Not checked 1: Checked	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Department management			8926		Clearing of all department counters	-	-	SYS	In cases when the administrator has prohibited the clearing of department counter data using code 08-8921, a service technician can clear the data using this code.	3	Yes
08	Setting mode	System	Department management			8927		Clearing of all user counter	-	-	SYS	In cases when the administrator has prohibited the clearing of user counter data using code 08-8921, a service technician can clear the data using this code.	3	Yes
08	Setting mode	System	Finisher	Upper limit number of sheets of center fold		8928	0	Plain / Recycled paper	0	-25-25	SYS	-25 to 25	4	
08	Setting mode	System	Finisher	Upper limit number of sheets of center fold		8928	1	Thick paper 1	0	-25-25	SYS	-25 to 25	4	
08	Setting mode	System	Finisher	Upper limit number of sheets of center fold		8928	2	Thick paper 2	0	-25-25	SYS	-25 to 25	4	
08	Setting mode	System	Finisher	Upper limit number of sheets of center fold		8928	3	Thick paper 3	0	-25-25	SYS	-25 to 25	4	
08	Setting mode	System	Password			8929		Administrator password reset	-	-	SYS	The default password is set. When "3: High level" is set for code 08-8911, the default password is set as a temporary password.	3	Yes
08	Setting mode	System	User interface	Off Device Customization Architecture		8931		Output Management Service setting	1	0-1	SYS	0: Disabled 1: Enabled	1	
08	Setting mode	System	User interface			8932		Availability of Netware	2	1-2	NIC	1: Enabled 2: Disabled	12	
08	Setting mode	System	User interface			8933		SSL setting (SSL SMTP Client Off/on)	2	1-3	NIC	1: Enabled (accepts all server certificates) 2: Disabled 3: Enabled (uses the imported CA certificate)	12	
08	Setting mode	System	User interface			8934		SSL setting (SMTP Client SSL/TLS)	1	1-2	NIC	1:STARTTLS 2:Over SSL	12	
08	Setting mode	System	User interface			8935		Remote Scanning	1	0-1	NIC	0: Disabled 1: Enabled	12	
08	Setting mode	System	User interface			8936		Remote Scanning with SSL	0	0-1	NIC	0: Disabled 1: Enabled	12	
08	Setting mode	System	User interface			8937		Remote Scanning port number	20080	0-65535	NIC		12	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface			8938		Remote Scanning SSL port number	20443	0-65535	NIC		12	
08	Setting mode	System				8942		Debug level setting	2	0, 2	-	Sets the output volume of debug log. When the value is set to "0", the performance may decrease. 0: Debug log level - high 2: Debug log level - normal	1	
08	Setting mode	System	Maintenan ce	Remote service		8946	0	Acquisition starting time for RDMS	0	0-99999999	SYS	Month/day/hour/minute of starting time	14	
08	Setting mode	System	Maintenan ce	Remote service		8946	1	Acquisition ending time for RDMS	0	0-99999999	SYS	Month/day/hour/minute of ending time	14	
08	Setting mode	System	User interface	Card reader		8947		Automatic user registration for card authentication	0	0-1	SSDK	0: Disabled 1: Enabled	1	
08	Setting mode	System	User interface	General		8948		Language package information	-	-	-	Displays the information of the installed language package.	2	Yes
08	Setting mode	System				8952		External version of HDD data	-	-	-	External version of file system for system software.	2	
08	Setting mode	Printer	Feeding system / Paper transport			8967		Rotation printing by guides width of bypass feed tray	1	0-1	SYS	If the printing size and the guides width of the bypass feed tray are different, it is judged that paper is set in the wrong direction. The occurrence frequency of interruption by the error of the guides width may be decreased. However, this code does not work depending on the conditions, such as when stapling is selected. Set this code when requested by user or the guides width sensor is broken. Related code: 08-4621. 0: Invalid 1: Valid	1	
08	Setting mode	System	User interface	General		8968		Language package information (Panel Help)	-	-	-	Displays the language package information of the installed Panel Help.	2	Yes
08	Setting mode	System	User interface	General		8969		Language package information (WebHelp)	-	-	-	Displays the language package information of the installed WebHelp.	2	Yes
08	Setting mode	System	User interface	General		8970		Language package information (Service UI)	-	-	-	Displays the language package information of the installed Service UI.	2	Yes
08	Setting mode	System	User interface	General		8971		Installation of language package	-	-	-	Installs the language package.	3	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	General	Self-certificate		8973		Length of public key	1	0-1	SYS	0: 1024 bit 1: 2048 bit	1	
08	Setting mode	System	General	Self-certificate		8974		Signature algorithm	0	0-4	SYS	0: SHA1 1: SHA224 2: SHA256 3: SHA384 4: SHA512	1	
08	Setting mode	System	Network			8975		Data clearing of Point and Print	-	-	SYS	Point and Print in the equipment is deleted when this code is performed. Perform this code when a trouble occurs such as when uploading Point and Print is not possible. After performing this code, upload Point and Print from [Maintenance] menu in the [Administration] menu of TopAccess.	3	
08	Setting Mode	System	General	Detection of originals prohibited from duplication		8977	0	Copy	0	0-1	SYS	Sets whether the originals that are prohibited from duplication are detected or not. 0: Detection disabled 1: Detection enabled	4	
08	Setting Mode	System	General	Detection of originals prohibited from duplication		8977	1	Scan	0	0-1	SYS	Sets whether the originals that are prohibited from duplication are detected or not. 0: Detection disabled 1: Detection enabled	4	
08	Setting Mode	System	General	Detection of originals prohibited from duplication		8977	2	FAX	0	0-1	SYS	Sets whether the originals that are prohibited from duplication are detected or not. 0: Detection disabled 1: Detection enabled	4	
08	Setting mode	System	Scanning			8980		Execution of Remote Scan while control panel is operated	0	0-1	NIC	Sets whether the remote scanning is enabled or disabled if the user is logged in using the control panel when user authentication or department management is enabled. 0: Disabled 1: Enabled	12	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	General	Scheduled automatic reboot		8981		Day of the week	0	0-255	SYS	Sets the condition and day of the week for scheduled automatic reboot. The condition and day of the week are assigned to each bit as follows. Input the sum of each bit as setting value. <Input value> bit1: Monday 0: Disabled 1: Enabled bit2: Tuesday 0: Disabled 2: Enabled bit3: Wednesday 0: Disabled 4: Enabled bit4: Thursday 0: Disabled 8: Enabled bit5: Friday 0: Disabled 16: Enabled bit6: Saturday 0: Disabled 32: Enabled bit7: Sunday 0: Disabled 64: Enabled bit8: Set the condition of reboot 0: Reboots only when in the sleep or super sleep mode 128: Reboots regardless of the sleep mode <Example> - Reboots every day regardless of the sleep mode: 255 (1+2+4+8+16+32+64+128=255) - Reboots on Sundays: 192 (0+0+0+0+0+0+64+128=192) - Reboots every day only when in the sleep or super sleep mode: 127 (1+2+4+8+16+32+64+0=127) - Reboots on Sundays only when in the sleep or super sleep mode: 64 (0+0+0+0+0+0+64+0=64)	1	
08	Setting mode	System	General	Scheduled automatic reboot		8982		Time (Hour)	0	0-23	SYS	Sets time (hour) for scheduled automatic reboot.	1	
08	Setting mode	System	General	Scheduled automatic reboot		8983		Time (Minute)	0	0-59	SYS	Sets time (minute) for scheduled automatic reboot.	1	
08	Setting mode	System	User interface	NFC reader		8986		Usage type	0	0-4294967295	SYS	0011ZZZZ (First 4 digits are fixed) -ZZZZ: Sub code 0000: No authentication using card 0001: IDm (Felica/NFC-FeliCa) and (or) UID (Mifare/NFC-Mifare) are used 0002: Data (Felica/NFC-FeliCa/Mifare/NFC-Mifare) 0003: SSFC mode	5	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface	NFC reader		8987		Format information 1	0	0-4294967295	SYS	000ASSSS (hexadecimal, first 3 digits are fixed) -A: 0: A key 1: B key -SSSS: Sector number (first 2 digits are fixed to "0")	5	Yes
08	Setting mode	System	User interface	NFC reader		8988		Format information 2	0	0-4294967295	SYS	00BSEbse (hexadecimal, first 2 digits are fixed) -B: Block number of first block -S: Starting offset of first block -E: Ending offset of first block -b: Block number of second block -s: Starting offset of second block -e: Ending offset of second block	5	Yes
08	Setting mode	System	User interface	NFC reader		8989		Format information 3	0	0-0xFFFFFFFFFFFFFFFF	SYS	0000KKKKKKKKKKKK (hexadecimal, first 4 digits are fixed) -KKKKKKKKKKKK: key (12 digits)	5	Yes
08	Setting mode	System	Maintenance	Notification of equipment information	Notification setting	8991		Notification setting	0	0~1	SYS	0: Disabled 1: Enabled	2	Yes
08	Setting mode	System	Maintenance	Notification of equipment information	Notification day 1	8992		Notification day 1	0	0-31	SYS	1st to 31th. Input "0" to disable this setting.	1	Yes
08	Setting mode	System	Maintenance	Notification of equipment information	Notification day 2	8993		Notification day 2	0	0-31	SYS	1st to 31th. Input "0" to disable this setting.	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Maintenan ce	Notification of equipment information	Notification day of the week	8994		Notification day of the week	0	0-127	SYS	Input the value which corresponds to the day of the week. Input "0" to disable this setting. Sunday: 64 Monday: 32 Tuesday: 16 Wednesday: 8 Thursday: 4 Friday: 2 Saturday: 1 e.g.) Monday: 32 Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday: 127 (64+32+16+8+4+2+1=127)	1	Yes
08	Setting mode	System	Maintenan ce	Notification of equipment information	Notification time	8995		Notification time	300	0-2359	SYS	(Hour/Hour/Minute/Minute)	1	Yes
08	Setting mode	System	Maintenan ce	Notification of equipment information	Email address 1 for notification	8996		Email address 1 for notification	-	-	SYS	Maximum 192 characters.	11	Yes
08	Setting mode	System	Maintenan ce	Notification of equipment information	Email address 2 for notification	8997		Email address 2 for notification	-	-	SYS	Maximum 192 characters.	11	Yes
08	Setting mode	System	Maintenan ce	Notification of equipment information	Email address 3 for notification	8998		Email address 3 for notification	-	-	SYS	Maximum 192 characters.	11	Yes
08	Setting mode	System	Maintenan ce	Notification of equipment information	Adjustment mode (05) data list	8999	1	Adjustment mode (05) data list	0	0-1	SYS	0: Disabled 1: Enabled	4	Yes
08	Setting mode	System	Maintenan ce	Notification of equipment information	Setting mode (08) data list	8999	2	Setting mode (08) data list	0	0-1	SYS	0: Disabled 1: Enabled	4	Yes
08	Setting mode	System	Maintenan ce	Notification of equipment information	PM support mode data list	8999	3	PM support mode data list	0	0-1	SYS	0: Disabled 1: Enabled	4	Yes
08	Setting mode	System	Maintenan ce	Notification of equipment information	Pixel counter list	8999	4	Toner cartridge reference	0	0-1	SYS	0: Disabled 1: Enabled	4	Yes
08	Setting mode	System	Maintenan ce	Notification of equipment information	Pixel counter list	8999	5	Service engineer reference	0	0-1	SYS	0: Disabled 1: Enabled	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Maintenan ce	Notification of equipment information	Error history list	8999	6	Maximum 1000 items	0	0-1	SYS	0: Disabled 1: Enabled	4	Yes
08	Setting mode	System	Maintenan ce	Notification of equipment information	Error history list	8999	7	Latest 80 items	0	0-1	SYS	0: Disabled 1: Enabled	4	Yes
08	Setting mode	System	Maintenan ce	Notification of equipment information	Firmware upgrade log	8999	8	Maximum 200 items	0	0-1	SYS	0: Disabled 1: Enabled	4	Yes
08	Setting mode	System	Maintenan ce	Notification of equipment information	Power ON/OFF log	8999	9	Power ON/OFF log	0	0-1	SYS	0: Disabled 1: Enabled	4	Yes
08	Setting mode	System	Maintenan ce	Notification of equipment information	Version list	8999	10	Version list	0	0-1	SYS	0: Disabled 1: Enabled	4	Yes
08	Setting mode	System	Maintenan ce	Notification of equipment information	Engine firmware log	8999	11	Engine firmware log	0	0-1	SYS	0: Disabled 1: Enabled	4	Yes
08	Setting mode	System	Maintenan ce	Notification of equipment information	Total counter list	8999	12	Total counter list	0	0-1	SYS	0: Disabled 1: Enabled	4	Yes
08	Setting mode	System	General			9000		Destination selection	EUR: 0 UC: 1 JPN: 2	0~2	M	0: EUR 1: UC 2: JPN	1	
08	Setting mode	System	Option	FAX		9001		Destination setting	Refer to contents	0~25	SYS	0: Japan 1: Asia 2: TAP 3: Hong Kong 4: U.S.A./Canada 5: Germany 6: U.K. 7: Italy 8: Belgium 9: Netherlands 10: Finland 11: Spain 12: Austria 13: Switzerland 14: Sweden 15: Denmark 16: Norway 17: Portugal 18: France 19: Greece 20: Poland 21: Hungary 22: Czech 23: Turkey 24: South Africa 25: Taiwan <Default value> EUR: 5 UC: 4 JPN: 0 Other: 1	1	Yes
08	Setting mode	System	General			9010		Line adjustment mode	0	0~1	M	0: For factory shipment 1: For line Field: "0" must be selected	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface			9012		Language displayed at power-ON	Refer to contents	-	SYS	<Default value> JPD: Japanese TWD: Traditional Chinese CND: Simplified Chinese KRD: Korean Others: English	11	
08	Setting mode	System	User interface			9016		Counter installed externally	0	0-5	M	0: No external counter 1: Coin controller (If the value of 08-9979 is "0" (ACS), it is changed to "2" (Full color).) 2: Totalizer/Key card (This value is valid only when "2" is set for 08-9000.) 3: Key counter 5: Coin controller supporting ACS/mixed-size (The value of 08-4131 is set to "1") * "4" cannot be set.	1	
08	Setting mode	System	Counter			9017		Setting for counter installed externally	1	0-7	M	Selects the job to count up for the external counter. 0: Not selected 1: Copier 2: Fax 3: Copier/Fax 4: Printer 5: Copier/Printer 6: Fax/Printer 7: Copier/Fax/Printer	1	
08	Setting mode	System	General			9022		Easy setup production process flag	99	0~99	SYS	Perform this code when an error occurs during the easy setup (unpacking manual adjustment) and you want to finish the easy setup, or when the error is canceled and you want to restart the unpacking manual adjustment. 0: Packing mode finished (before unpacking is started) 1: Auto-toner adjustment finished (The message prompting the installation of the toner cartridge is displayed.) 2: Toner cartridge is installed 3: Automatic gamma adjustment finished 99: All the unpacking adjustments finished	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	General			9023		Trial period setting	254	1~60	SYS	Sets the trial period from 1 to 60 days. This setting is effective only when the default value is "254". Once the default value is set, this value is only used for a reference.	1	Yes
08	Setting mode	System	General			9025		Notifying condition of trial period end	3	0~255	SYS	Sets when the end of trial period is notified.0: On the day it ends 1 to 255: n days before	1	Yes
08	Setting mode	System	General			9026		Notifying address of trial period end	3	0~3	SYS	Sets where the end of the trial period is to be notified. 0: OFF 1: User 2: Service center 3: User and service center	1	Yes
08	Setting mode	System	General			9027		Forcible end of trial period	-	-	SYS	[CANCEL]: Cancel [INITIALIZE]: Forcible end When the "Forcible end of trial period" is performed, "0" is set in the code (08-9023) to end up the trial period forcibly.	3	Yes
08	Setting mode	System	Initializatio n			9030		Initialization after software version up	-	-	SYS	Perform this code when the software in this equipment has been upgraded.	3	Yes
08	Setting mode	System	User interface	Counter installed externally		9037		Job handling-short paid-coin controller	1	0~1	SYS	Sets whether pause or stop the printing job when it is short paid using a coin controller.0: Pause the job 1: Stop the job	1	
08	Setting mode	System	Maintenan ce	General		9050		Performing panel calibration	-	-	SYS	Performs the calibration of the pressing position on the touch panel (LCD screen). The calibration is performed by pressing 4 reference positions after this code is started up.	1	Yes
08	Setting mode	System	User interface	Screen setting		9051		Panel calibration setting value	0	0~1	SYS	Switches whether the screen for displaying panel calibration setting values is displayed or not.0: Disabled (screen not displayed) 1: Enabled (screen displayed)	1	Yes
08	Setting mode	System				9060		Destination display at SRAM initialization	Refer to contents	0-255	SYS	0: MJD 1: NAD 2: JPD 3: AUD 4: CND 5: KRD 6: TWD 7: Not used 8: ASU 9: ASD 10: ARD 11: Not used 12: CNS <Default value> MJD: 0 NAD: 1 JPD: 2 AUD: 3 CND: 4 KRD: 5 TWD: 6 SAD: 7 ASU: 8 ASD: 9 ARD: 10 CNS: 12	2	
08	Setting mode	System	HDD			9065		HDD diagnostic menu display	-	-	SYS	Display the HDD information	2	Yes
08	Setting mode	System	HDD			9072		Performing HDD testing	-	-	SYS	Checks the bad sector. It may take more than 30 minutes to finish the checking.	3	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	General			9081		Initialization of department management information	-	-	SYS	Initializing of the department management information * Key in the code and press the [INITIALIZE] button to perform the initialization. If the area storing the department management information is destroyed for some reason, "Enter Department Code" is displayed on the control panel even if the department management function is not set on. In this case, initialize the area with this code. This area is normally initialized at the factory.	3	
08	Setting mode	System	Initializatio n	Initialization of NIC information		9083		Initialization of NIC information	-	-	SYS	Returns the value to the factory shipping default value.	3	Yes
08	Setting mode	System	All clearing			9090		Printer all clear	-	-	M	If the data of the self-diagnosis 05/08 code become abnormal, performing 08-4582 can restore them. If not, perform this code. All data of the self-diagnosis 05/08 code with "M" in the "RAM" field are initialized, except the destination setting data. Perform this code if the above problem occurs or the data of the self-diagnosis 05/08 code and the backup data are damaged after replacing the LGC board and performing 08-4582. Procedure: 1. Set 08-9000. 2. Perform 08-9090. 3. Perform 08-4581. 4. Set 08-9080 to "0". If you have got the order wrong, repeat the procedure from step 1. After this code is performed, it is necessary to replace the developer material and to adjust the autotoner sensor. Since the information of the PM counter is initialized, enter it again as required.	3	Yes
08	Setting mode	System	General			9100		Date and time setting	-	13 digits	-	Year/month/date/day/hour/minute/second Example:03 07 0 13 13 27 48 "Day" - "0" is for "Sunday". Proceeds Monday through Saturday from "1" to "6".	5	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface			9102		Date display format	Refer to contents	0~2	SYS	0: YYYY.MM.DD. 1: DD.MM.YYYY 2: MM.DD.YYYY <Default value> EUR: 1 UC: 2 JPN: 0	1	
08	Setting mode	System	General			9103		Time differences	EUR: 24 UC: 40 JPN: 6	0~47	SYS	0: +12.0h 1: +11.5h2: +11.0h 3: +10.5h 4: +10.0h 5: +9.5h 6: +9.0h 7: +8.5h 8: +8.0h 9: +7.5h 10: +7.0h 11: +6.5h 12: +6.0h 13: +5.5h 14: +5.0h 15: +4.5h 16: +4.0h 17: +3.5h 18: +3.0h 19: +2.5h 20: +2.0h 21: +1.5h 22: +1.0h 23: +0.5h 24: 0.0h 25: -0.5h 26: -1.0h 27: -1.5h 28: -2.0h 29: -2.5h 30: -3.0h 31: -3.5h 32: -4.0h 33: -4.5h 34: -5.0h 35: -5.5h 36: -6.0h 37: -6.5h 38: -7.0h 39: -7.5h 40: -8.0h 41: -8.5h	1	
08	Setting mode	System	User interface			9110		Auto-clear timer setting	3	0~10	SYS	Timer to return the equipment to the default settings when the [START] button is not pressed after the function and the mode are set 0: Not cleared 1 to 10: Set number x 15 sec.	1	
08	Setting mode	System	User interface			9111		Auto power save mode timer setting	4	0~15	SYS	Timer to automatically switch to the Auto power save mode when the equipment has not been used. 0: Invalid 4: 1 min. 6: 3 min. 7: 4 min. 8: 5 min. 9: 7 min. 10: 10 min. 11: 15 min. 12: 20 min. 13: 30 min. 14: 45 min. 15: 60 min.	1	Yes
08	Setting mode	System	User interface			9112		Auto Shut Off timer setting (Sleep Mode)	21	0~21	SYS	Timer to turn OFF the power or to enter the Sleep Mode automatically when the equipment has not been used. 0: 3 min. 1: 5 min. 2: 10 min. 3: 15 min. 4: 20 min. 5: 25 min. 6: 30 min. 7: 40 min. 8: 50 min. 9: 60 min. 10: 70 min. 11: 80 min. 12: 90 min. 13: 100 min. 14: 110 min. 15: 120 min. 16: 150 min. 17: 180 min. 18: 210 min. 19: 240 min. 20: Disabled 21: 1 min.	1	Yes
08	Setting mode	System	User interface	Energy save		9113		Screen setting for automatic energy saver / automatic power OFF	Refer to contents	0~1	SYS	0: OFF 1: ON <Default value> JPD/NAD: 1 Others: 0	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface	Energy save		9114		Mode after the time [Sleep Timer] has passed	1	0~1	SYS	0: OFF 1: Sleep/Super Sleep	1	
08	Setting mode	System	General			9117		Raw printing job(Blank page will not be printed)	0	0~1	SYS	0: OFF 1: ON	1	
08	Setting mode	System	User interface	Department setting		9120		Department setting	0	0~1	SYS	0: Invalid 1: Valid	1	Yes
08	Setting mode	System	User interface	Department setting		9121		Print setting without department/registratio n code	1	0~2	SYS	0: Printed 1: Not printed (pooled in the invalid queue) 2: Deleted forcibly	1	Yes
08	Setting mode	System	User interface	Department setting		9122		Copy	1	0~1	SYS	0: Invalid 1: Valid	1	Yes
08	Setting mode	System	User interface	Department setting		9123		FAX	1	0~1	SYS	0: Invalid 1: Valid	1	Yes
08	Setting mode	System	User interface	Department setting		9124		Printer	1	0~1	SYS	0: Invalid 1: Valid	1	Yes
08	Setting mode	System	User interface	Department setting		9125		Scanning	1	0~1	SYS	0: Invalid 1: Valid	1	Yes
08	Setting mode	System	User interface	Department setting		9126		List print	1	0~1	SYS	0: Invalid 1: Valid	1	Yes
08	Setting mode	System	User interface	External counter		9129		Duplex print setting when coin controller is used	1	0~1	SYS	When the duplex printing is short paid with a coin controller, reverse side of the original is not printed and is considered as a defect (printing job may be cleared). To solve this problem, the selection of printing method is enabled with this setting .0: Invalid (Only one side printed) 1: Valid (Both sides printed/One side printed)	1	
08	Setting mode	System	User interface			9130		Highlighting display on LCD	0	0~1	SYS	0: Black letter on white background 1: White letter on black background	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface	Default mode setting	Default setting	9132		Default setting of screen (Function)	0	0-7, 99	SYS	Sets the screen to be displayed after the auto-clear time has passed or it has recovered from the energy saving mode or sleep mode. 0: COPY 1: FAX 2: SCAN 3: BOX 4: PRINT 5: TEMPLATE 6: MENU 7: JOB STATUS 99: EWB * Only 0 to 7, and 99 can be entered.	1	Yes
08	Setting mode	System	User interface			9133		Default setting for APS/AMS	0	0~2	SYS	0: APS (Automatic Paper Selection) 1: AMS (Automatic Magnification Selection) 2: Not selected	1	
08	Setting mode	System	User interface	Default setting of RADF mode		9134		Default setting	0	0~1	SYS	0: Continuous feeding (by pressing the [START] button) 1: Single feeding (by setting original on the tray)	1	Yes
08	Setting mode	System	User interface			9135		Book type original priority	0	0~1	SYS	0: Left page to right page 1: Right page to left page	1	
08	Setting mode	System	User interface			9136		Maximum number of copy volume (MAX9)	1	1~3	SYS	1: 999 2: 99 3: 9	1	
08	Setting mode	System	User interface	Default mode setting	Default setting	9137		Setting for automatic duplexing mode	0	0~3	SYS	0: Invalid 1: Single-sided to duplex copying 2: Double-sided to duplex copying 3: User selection	1	Yes
08	Setting mode	System	User interface			9140		Paper size selection for [OTHER] button	Refer to contents	0-255	SYS	Press the button on the LCD to select the size. <Default value> EUR: FOLIO UC: COMP JPN: A5-R	9	
08	Setting mode	System	User interface	Default setting of RADF mode		9142		Default setting of RADF original size	0	0~1	SYS	0: Scanned as all in same size 1: Scanned as each original size	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Paper feeding			9143		Time lag before Auto Job Start of bypass feeding	10	0~10	SYS	Sets the time taken to add paper feeding when paper in the bypass tray has run out during the bypass feed copying. 0: Paper is not drawn in unless the [START] button is pressed. 1-10: Setting value x 0.5 sec.	1	
08	Setting mode	System	User interface			9144		Blank copying prevention mode during RADF jamming	0	0~1	SYS	0: OFF 1: ON (Start printing when the scanning of each page is finished)	1	
08	Setting mode	System	User interface	Rotation printing		9146		Rotation printing at the non-sorting	0	0~1	SYS	0: Not rotating 1: Rotating	1	Yes
08	Setting mode	System	User interface			9147		Direction priority of original image	0	0~1	SYS	0: Automatic 1: Portrait	1	
08	Setting mode	System	User interface			9148		Inner receiving tray priority at Non-sort Mode	0	0~1	SYS	0: Normal 1: Inner receiving tray	1	
08	Setting mode	System	User interface			9149		Width setting for image shift copying (linkage of front side and back side)	0	0~1	SYS	0: ON 1: OFF	1	
08	Setting mode	System	User interface			9150		Automatic Sorting Mode setting (RADF)	2	0~4	SYS	0: Invalid 1: STAPLE 2: SORT 3: GROUP 4: ROTATE SORT	1	
08	Setting mode	System	User interface			9151		Default setting of Sorter Mode	0	0~4	SYS	0: NON-SORT 1: STAPLE 2: SORT 3: GROUP 4: ROTATE SORT	1	
08	Setting mode	System	User interface			9152		Correction of reproduction ratio in editing copy	10	0~10	SYS	Sets the reproduction ratio for the "X in 1" printing (including magazine sort) to the "Reproduction ratio x Correction ratio". 0: 90% 1: 91% 2: 92% 3: 93% 4: 94% 5: 95% 6: 96% 7: 97% 8: 98% 9: 99% 10: 100%	1	
08	Setting mode	System	User interface			9153		Image position in editing	2	0~3	SYS	Sets the page pasted position for "X in 1" to the upper left corner/center. 0: PPC:Cornering/PRT:Cornering 1: PPC:Centering/PRT:Cornering 2: PPC:Cornering/PRT:Centering 3: PPC:Centering/PRT:Centering	1	
08	Setting mode	System	User interface			9155		Magazine sort setting	0	0~1	SYS	0: Left page to right page 1: Right page to left page	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface			9156		2 in 1/4 in 1 page allocating order setting	0	0~1	SYS	0: Horizontal 1: Vertical	1	
08	Setting mode	System	User interface			9157		Printing format setting for Time stamp and Page Number	2	0~3	SYS	Hyphen (with page number) /Dropout (with date, time and page number) 0: OFF/OFF 1: ON/OFF 2: OFF/ON 3: ON/ON Note: Hyphen printing format ON: -1- OFF: 1	1	
08	Setting mode	System	User interface	Cascade operation setting	PPC/FAX	9158	0	ON/OFF	0	0~1	SYS	Sets the tray switch operation if the output tray becomes full of paper while printing. 0: OFF 1: ON	4	
08	Setting mode	System	User interface	Cascade operation setting	PPC/FAX	9158	1	Cascade operation	0	0~1	SYS	0: Switches one time 1: Circulation (loop)	4	
08	Setting mode	System	User interface	Cascade operation setting	PRINTER/BOX	9159	0	ON/OFF	0	0~1	SYS	Sets the tray switch operation if the output tray becomes full of paper while printing. 0: OFF 1: ON	4	
08	Setting mode	System	User interface	Cascade operation setting	PRINTER/BOX	9159	1	Cascade operation	0	0~1	SYS	0: Switches one time 1: Circulation (loop)	4	
08	Setting mode	System	User interface			9163		Direction priority for date and time stamp printing	0	0~1	SYS	0: Short edge 1: Long edge	1	
08	Setting mode	System	User interface	Paper Feed		9164		Auto-start setting for bypass feed printing	0	0~1	SYS	Sets whether or not feeding a paper automatically into the equipment when it is placed on the bypass tray. 0: OFF (Press the [START] button to start feeding.) 1: ON (Automatic feeding)	1	Yes
08	Setting mode	System	User interface			9165		Auto Job start setting for bypass feed printing	1	0~1	SYS	Sets whether or not feeding a paper automatically into the equipment when it is placed on the bypass tray. 0: OFF (Press the [START] button to start feeding.) 1: ON (Automatic feeding)	1	
08	Setting mode	System	Option	FAX		9183		Adaptation of paper source	0	0~1	SYS	0: Not subjected for APS judgment 1: Subjected for APS judgment	1	Yes
08	Setting mode	System	User interface			9184		Centering printing of primary/secondary direction at AMS	1	0~1	SYS	0: Invalid 1: Valid	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface	Feeding paper media		9185	0	Copier	1	1, 16, 17	SYS	Sets a media type for APS drawer searching in the copier functions. Each bit 0: Excluded from feeding target media Each bit 1: Feeding target media bit 0: Plain paper bit 1: N/A (Always set "0") bit 2: N/A (Always set "0") bit 3: N/A (Always set "0") bit 4: Thick paper 1	4	
08	Setting mode	System	User interface	Feeding paper media		9185	1	Printer/Box	1	1	SYS	Sets a media type to print on plain paper in the printer/box functions. This setting is used for drawer searching or media type inconsistency judgment. The setting result does not affect other media types, other than plain paper. Each bit 0: Excluded from feeding target media Each bit 1: Feeding target media bit 0: Plain paper bit 1: N/A (Always set "0") bit 2: N/A (Always set "0") bit 3: N/A (Always set "0") bit 4: N/A (Always set "0")	4	
08	Setting mode	System	Network	Retention period		9193		Web data retention period	10	3 digits	SYS	When a certain period of time has passed without operation after accessing TopAccess, the data being registered is automatically reset. This period is set at this code. (Unit: Minute)	1	Yes
08	Setting mode	System	General			9199		Automatic interruption page setting during printing	0	0~100	SYS	Sets the number of pages to interrupt the printing automatically. If the setting value is one or more, printing is interrupted when the setting value x 10 is reached, then printing is resumed. 0-100: 0 to 100 pages	1	
08	Setting mode	System	Network	Retention period		9200		File retention period	30	0~999	SYS	0: No limits 1 to 999: 1 to 999 days	1	Yes
08	Setting mode	System	Network	E-mail		9201		Max. size in email transmission	30	2~100	SYS	2 to 100 M bytes	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Electronic Filing			9203		Full guarantee of documents in Electronic Filing when HDD is full	1	0~1	SYS	Sets the file retention level when editing the files in the Electronic Filing (at CutDoc/SaveDoc command execution). 0: Not full retained 1: Fully retained - Retains the source file until CutDoc/SaveDoc command is completed. * The file is not deleted even if the HDD has become full during the execution of command when "1" is set.	1	
08	Setting mode	System	User interface			9204		Binarizing level selection (When judging as black in the ACS Mode)	3	1-5	SYS	0: Step -2 1: Step -1 2: Step 0 (center) 3: Step 1 4: Step 2 The binarizing level of each step is set at 08-9230.	1	
08	Setting mode	System	Electronic Filing			9207		Default value for user box retention period	0	0~999	SYS	Sets the data retention period when creating a user box. 0: Not deleted 1 to 999: Retention period (Unit: Day)	1	
08	Setting mode	System	HDD			9208		Warning notification-File Share/e-Filling	90	0~100	SYS	Sets the percentage of HDD partition filled when warning notification is sent. 0 to 100: 0 to 100% * Related code 08-9225	1	Yes
08	Setting mode	System	Scanning			9209		Notification setting of E-mail saving time limit	3	0~99	SYS	Sets the days left the notification of E-mail saving time limit appears 0 to 99: 0 to 99 days	1	
08	Setting mode	System	Scanning			9210		Default setting of partial size when transmitting E-mail	0	0~6	SYS	Sets the default value for the partial size of E-mail to be transmitted when creating a template. 0: Not divided 1: 64 2: 128 3: 256 4: 512 5: 1024 6: 2048 (Unit: KB)	1	
08	Setting mode	System	Option	FAX		9211		Default setting of page by page-I FAX	0	0~4	SYS	Sets the default value for the page by page of Internet FAX to be transmitted when creating a template. 0: Not divide 1: 256 2: 512 3: 1024 4: 2048 (Unit: KB)	1	Yes
08	Setting mode	System	User interface	Default mode setting	Default setting (SCN)	9213		Default setting for density adjustment	0	0~11	SYS	0: Automatic density 1: Step -5 2: Step -4 3: Step -3 4: Step -2 5: Step -1 6: Step 0 (center) 7: Step +1 8: Step +2 9: Step +3 10: Step +4 11: Step +5 (1 to 11: Manual density)	1	Yes
08	Setting mode	System	User interface			9214		Default setting of background adjustment(Full Color)	5	1~9	SYS	1: Step -4 2: Step -3 3: Step -2 4: Step -1 5: Step 0 (center) 6: Step +1 7: Step +2 8: Step +3 9: Step +4	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface	Default mode setting	Default setting (SCN)	9215		Color mode	0	0~4	SYS	0: Black 1: Gray Scale 2: Unused 3: Full Color 4: Auto Color	1	Yes
08	Setting mode	System	User interface	Default mode setting	Default setting of resolution (SCN)	9216		Full Color	2	0~5	SYS	0: 100 dpi 1: 150 dpi 2: 200 dpi 3: 300dpi 4: 400 dpi 5: 600dpi	1	Yes
08	Setting mode	System	User interface	Default mode setting	Default setting of resolution (SCN)	9217		Gray Scale	2	0~5	SYS	0: 100 dpi 1: 150 dpi 2: 200 dpi 3: 300dpi 4: 400 dpi 5: 600dpi	1	Yes
08	Setting mode	System	User interface	Default mode setting	Default setting of resolution (SCN)	9218		Black	1	0~5	SYS	0: 150 dpi 1: 200 dpi 2: 300 dpi 3: 400dpi 4: 600dpi 5: 100dp	1	Yes
08	Setting mode	System	User interface	Default mode setting	Default setting (SCN)	9219		Original mode (Full color)	0	0~3	SYS	0: Text 1: Text/Photo 2: Photo 3: Custom (Valid only when a setting other than "0" is set for 08-8303)	1	Yes
08	Setting mode	System	User interface	Default mode setting	Default setting (SCN)	9220		Original mode (Black)	0	0~3	SYS	0: Text 1: Text/Photo 2: Photo 3: Custom The value other than "0" needs to be set for 08-7401 to select "3: Custom."	1	Yes
08	Setting mode	System	User interface			9221		Default setting of duplex mode	0	0~2	SYS	0: Single 1: Book 2: Tablet	1	
08	Setting mode	System	User interface			9222		Default setting of rotation angle of original	0	0~3	SYS	0: 0 degree 1: 90 degrees 2: 180 degrees 3: 270 degrees	1	
08	Setting mode	System	User interface			9223		Default setting of original paper size	0	0~22	SYS	0: Automatic 1: A3 2: A4 3: LD 4: LT 5: A4-R 6: A5-R 7: LT-R 8: LG 9: B4 10: B5 11: ST-R 12: COMP 13: B5-R 14: FOLIO 15: 13"LG 16: 8.5" x 8.5" 18: A6-R 19: Size mixed 20: 8K 21: 16K 22: 16K-R	1	
08	Setting mode	System	General			9225		Searching interval of deleting expired flies and checking capacity of HDD partitions	12	1~24	SYS	Sets the search interval of deleting expired files and checking capacity of HDD partition. (Unit: Hour) * Related code 08-9208	1	
08	Setting mode	System	User interface			9226		Default setting of background adjustment(Gray Scale)	5	1~9	SYS	1: Step -4 2: Step -3 3: Step -2 4: Step -1 5: Step 0 (center) 6: Step +1 7: Step +2 8: Step +3 9: Step +4	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface	Default setting of filing format	E-mail	9227		Black	1	0~6	SYS	0: TIFF (Multi) 1: PDF (Multi) 3: TIFF (Single) 4: PDF (Single) 5: XPS (Multi) 6: XPS (Single)	1	Yes
08	Setting mode	System	User interface	Default setting of filing format	Storing files	9228		Color/ACS	1	0~8	SYS	0: TIFF (Multi) 1: PDF (Multi) 2: JPG 3: TIFF (Single) 4: PDF (Single) 5: SLIM PDF (Multi) 6: SLIM PDF (Single) 7: XPS (Multi) 8: XPS (Single)	1	Yes
08	Setting mode	System	User interface	Default setting of filing format	Storing files	9229		Black	Refer to contents	0~6	SYS	0: TIFF (Multi) 1: PDF (Multi) 3: TIFF (Single) 4: PDF (Single) 5: XPS (Multi) 6: XPS (Single) <Default value> MJD: 1 Others: 0	1	Yes
08	Setting mode	System	Image	Binarizing level setting (When judging as black in the ACS Mode)		9230	0	Step -2	88	0-255	SYS	Sets the binarizing level of each step. When the value increases, the image becomes darker. When the value decreases, the image becomes lighter. Refer to 08-9204.	4	
08	Setting mode	System	Image	Binarizing level setting (When judging as black in the ACS Mode)		9230	1	Step -1	108	0-255	SYS	Sets the binarizing level of each step. When the value increases, the image becomes darker. When the value decreases, the image becomes lighter. Refer to 08-9204.	4	
08	Setting mode	System	Image	Binarizing level setting (When judging as black in the ACS Mode)		9230	2	Step 0 (center)	148	0-255	SYS	Sets the binarizing level of each step. When the value increases, the image becomes darker. When the value decreases, the image becomes lighter. Refer to 08-9204.	4	
08	Setting mode	System	Image	Binarizing level setting (When judging as black in the ACS Mode)		9230	3	Step +1	178	0-255	SYS	Sets the binarizing level of each step. When the value increases, the image becomes darker. When the value decreases, the image becomes lighter. Refer to 08-9204.	4	
08	Setting mode	System	Image	Binarizing level setting (When judging as black in the ACS Mode)		9230	4	Step +2	208	0-255	SYS	Sets the binarizing level of each step. When the value increases, the image becomes darker. When the value decreases, the image becomes lighter. Refer to 08-9204.	4	
08	Setting mode	System	Electronic Filing			9233		Equipment name and user name setting to a folder when saving files	0	0~2	SYS	Sets whether or not adding the equipment name and user name to the folder when saving files. 0: Not add 1: Add the equipment name 2: Add the user name	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface			9236		Default setting of print menu	1	1~4	SYS	1: Private print screen (Job list of log-in user is displayed if user authentication is enabled.) 2: Hold print screen (Job list of log-in user is displayed if user authentication is enabled.) 3: Private print screen (If the private print screen is displayed when user authentication is enabled, user list is displayed if user logs in as GUEST, and job list of log-in user is displayed if user logs in as general user.) 4: Hold print screen (If the private print screen is displayed when user authentication is enabled, user list is displayed if user logs in as GUEST, and job list of log-in user is displayed if user logs in as general user.) * If user data department management (08-9264) is changed from OFF to ON, the value in this code changes from "1" to "2", and "3" to "4". The value does not change if it is "2" or"4". Reset this value as necessary when changing user data department management (08-9264) from OFF to ON.	1	
08	Setting mode	System	Data overwrite kit			9240		HDD data overwriting type setting	3	0-3	SYS	Select the type of the overwriting level for deleting HDD data. (This setting is enabled only when the GP-1070 is installed.) 0: LOW Standard overwriting method. 1: MEDIUM More secure overwriting method than LOW. The overwriting time is between LOW and HIGH. 2: HIGH The most secure overwriting method. The overwriting time is the longest. 3: SIMPLE Simple overwriting method. The time for overwriting is the shortest.	1	
08	Setting mode	System	Paper feeding			9248		Automatic feed setting of tab paper and insertion sheet(Remote)	1	0~1	SYS	0: Disabled 1: Enabled	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface			9251		Access code entry for Electronic Filing printing	0	0~1	SYS	0: Renewed automatically 1: Enter every time	1	
08	Setting mode	System	User interface			9252		Clearing timing for files and Electronic Filing Agent	1	0~1	SYS	0: Immediately after the completion of scanning 1: Cleared by Auto Clear	1	
08	Setting mode	System	Paper feeding			9253		Setting of paper size switching to 13" LG	0	0~2	SYS	0: Not switched 1: LG → 13"LG 2: FOLIO → 13"LG	1	
08	Setting Mode	System	Option	FAX		9255		FOLIO/A4-R judgment when width of paper is mixed	0	0-1	SYS	When the value of this code is "0", the paper size is judged by performing switchback. When the value of this code is "1" and the paper size is AB-series, FOLIO is judged as A4-R and switchback is not performed. When the paper size is LT-series, the switchback is always performed. When the value of this code is set to "1", the scanning performance increases at fax transmission. However, the whole image cannot be output since FOLIO is judged as A4-R. 0: Judgment is enabled 1: Judgment is disabled	1	
08	Setting mode	System	User interface			9261		Maximum number of time job build performed	1000	5~1000	SYS	Sets the maximum number of time a job build has been performed. 5-1000: 5 to 1000 times	1	
08	Setting mode	System	General			9264		User data department management	0	0~1	SYS	0: Invalid 1: Valid * When this code is set to "1" (Valid), the department management setting (08-9120) should be "1" (Valid).	1	
08	Setting mode	System	Paper feeding			9267		Detection method of 13" LG for single-size document	0	0~1	SYS	0: Disabled 1: Enabled	1	
08	Setting mode	System	Option	FAX		9268		Inbound FAX function (Forwarding by TSI)	1	0~1	SYS	0: OFF(Function disabled) 1: ON(Function enabled)	1	Yes
08	Setting mode	System	Option	FAX		9269		Tab/cover sheet-FAX Printing stop function	0	0~1	SYS	Sets on or off of the printing function of special sheets such as tab or cover sheet of FAX, Email or list print. 0: Function off 1: Function on	1	Yes
08	Setting mode	System	Network			9271		Authentication method of "Scan to Email"	0	0~2	SYS	0: Disable 1: SMTP authentication 2: LDAP authentication	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			9272		Setting whether use of Internet FAX is permitted or not when it is given an authentication	0	0~1	SYS	0: Not permitted 1: Permitted	1	
08	Setting mode	System	Network			9274		"From" address assignment method when it is given an authentication	0	0~2	SYS	0: "User name" + @ + "Domain name"1: LDAP search 2: Use the address registered in "From" field of E-mail setting	1	
08	Setting mode	System	Network			9276		Setting for "From" address edit at "Scan to Email"	0	0~1	SYS	0: Not permitted 1: Permitted	1	
08	Setting mode	System	Network			9278		E-mail domain name	-	-	SYS	96+2 (delimiter) character ASCII sequence only	11	
08	Setting mode	System	User interface	Sound		9280		Error sound	1	0~1	SYS	0: OFF 1: ON	1	Yes
08	Setting mode	System	User interface	Sound		9281		Sound setting -- Energy Saving	Refer to contents	0~1	SYS	0: OFF 1: ON <Default value> JPD: 0 Other: 1	1	Yes
08	Setting mode	System	General			9293		User authentication method	0	0~2	SYS	0: Local 1: NTLM (NT Domain) 2: LDAP	1	
08	Setting Mode	System	General			9294		Automatic user registration for external authentication	1	0-1	SYS	0: Disabled 1: Enabled	1	
08	Setting mode	System	General			9295		User data management limitation setting	0	0~1	SYS	0: Disabled 1: Enabled	1	
08	Setting mode	System	General			9296		User data management limitation Setting by number of printouts	0	7 digits	SYS	0-9,999,999: 0-9,999,999 sheets	1	
08	Setting mode	System	Network			9298		Restriction on Address book operation by administrator	0	0~1	SYS	Some restrictions can be given on the administrator for operating the Address book. 0: No restriction 1: Can be operated only under the administrator's authorization	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			9299		Restriction on "To" ("cc") address	0	0~3	SYS	0: No restriction 1: Can be set from both of the Address book and LDAP server 2: Can be set only from the Address book 3: Can be set only from the LDAP server	1	
08	Setting mode	System	Paper feeding			9300		Drawer 1Paper information	0	0~1	SYS	0: Plain paper 1: Thick paper 1	1	
08	Setting mode	System	Paper feeding			9301		Drawer 2Paper information	0	0~1	SYS	0: Plain paper 1: Thick paper 1	1	
08	Setting mode	System	Paper feeding			9302		PFP 1 Paper information	0	0~1	SYS	0: Plain paper 1: Thick paper 1	1	
08	Setting mode	System	Paper feeding			9303		PFP 2 Paper information	0	0~1	SYS	0: Plain paper 1: Thick paper 1	1	
08	Setting mode	System	Paper feeding			9304		LCF Paper information	0	0~1	SYS	0: Plain paper 1: Thick paper 1	1	
08	Setting mode	System	Paper feeding			9305		Bypass tray Paper information	0	0~3, 11, 16, 32	SYS	0: Plain paper 1: Thick paper 1 2: Thick paper 2 3: Thick paper 3 11: Thin paper 16: OHP film 32: Envelope	1	
08	Setting mode	System	Paper feeding			9306		LT <-> A4/LD <-> A3	0	0~1	SYS	Sets whether the data is printed on the different but similar size paper or not when the paper of corresponding size is not available. 0: Valid (The data is printed on A4/A3 when LT/LD is selected or vice versa.) 1: Invalid (The message to use the selected paper size is displayed.)	1	
08	Setting mode	System	Network	Retention period		9307		Storage period at trail and private	14	0-53	SYS	0: No limits 1 to 30: 1 to 30 days 31: 1 hour 32: 2 hours 33: 4 hours 34: 8 hours 35: 12 hours 50: 5 min. 51: 10 min. 52: 15 min. 53: 30 min.	1	Yes
08	Setting mode	System	Network			9308		Raw printing job (Duplex)	1	0~1	SYS	0: Valid 1: Invalid	1	
08	Setting mode	System	Network			9309		Raw printing job(Paper size)	EUR: 6 UC: 2 JPN: 6	0 ~13	SYS	0: LD 1: LG 2: LT 3: COMP 4: ST 5: A3 6: A4 7: A5 8: A6 9: B4 10: B5 11: FOLIO 12: 13"LG 13: 8.5" x 8.5"	1	
08	Setting mode	System	Network			9310		Raw printing job(Paper type)	0	0~6	SYS	0: Plain paper 1: Thick paper 1 2: Thick paper 2 3: Thick paper 3 4: OHP film 6: Thin paper	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			9311		Raw printing job(Paper direction)	0	0~1	SYS	0: Portrait 1: Landscape	1	
08	Setting mode	System	Network			9312		Raw printing job (Staple)	1	0~1	SYS	0: Valid 1: Invalid	1	
08	Setting mode	System	Network			9313		Raw printing job(receiving tray)	0	0~6	SYS	0: Inner tray 1: Finisher tray 1 2: Finisher tray 2 3: Not used 4: Job Separator upper tray 5: Job Separator lower tray * The settings 4 and 5 are effective only when the Job Separator (MJ- 5004) is installed.	1	
08	Setting mode	System	Network			9314		Raw printing job(Number of form lines)	1200	500~12800	SYS	Sets the number of form lines from 5 to 128. (A hundredfold of the number of form lines is defined as the setting value.)	1	
08	Setting mode	System	Network			9315		Raw printing job(PCL font pitch)	1000	44~9999	SYS	Sets the font pitch from 0.44 to 99.99. (A hundredfold of the font pitch is defined as the setting value.)	1	
08	Setting mode	System	Network			9316		Raw printing job(PCL font size)	1200	400~99975	SYS	Sets the font size from 4 to 999.75. (A hundredfold of the font size is defined as the setting value.)	1	
08	Setting mode	System	Network			9317		Raw printing job(PCL font number)	0	0~9999	SYS	Sets the PCL font number.	1	
08	Setting mode	System	Paper feeding			9318		Memory 1 Paper size (bypass feeding/non-standard type) feeding/widthwise direction	148/100	148~432/100~297	SYS	Registers the paper size of bypass feed (non-standard type) into [MEMORY 1].	10	
08	Setting mode	System	Paper feeding			9319		Memory 2 Paper size (bypass feeding/non-standard type) feeding/widthwise direction	148/100	148~432/100~297	SYS	Registers the paper size of bypass feed (non-standard type) into [MEMORY 2].	10	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Paper feeding			9320		Memory 3 Paper size (bypass feeding/non-standard type) feeding/widthwise direction	148/100	148~432/1 00~297	SYS	Registers the paper size of bypass feed (non-standard type) into [MEMORY 3].	10	
08	Setting mode	System	Paper feeding			9321		Memory 4 Paper size (bypass feeding/non-standard type) feeding/widthwise direction	148/100	148~432/1 00~297	SYS	Registers the paper size of bypass feed (non-standard type) into [MEMORY 4].	10	
08	Setting mode	System	User interface	Sound		9325		Key touch sound of control panel	1	0~1	SYS	0: OFF 1: ON	1	Yes
08	Setting mode	System	User interface	Screen setting		9326		Size indicator	0	0~1	SYS	0: Invalid 1: Valid	1	Yes
08	Setting mode	System	General			9327		Setting of banner advertising display	0	0~1	SYS	Sets whether or not displaying the banner advertising. The setting contents of 08-9328 and 08-9329 are displayed at the time display section on the right top of the screen. When both are set, each content is displayed alternately. 0: Not displayed 1: Displayed	1	
08	Setting mode	System	General			9328		Banner advertising display 1	-	-	SYS	Maximum 27 letters (one-byte character)	11	
08	Setting mode	System	General			9329		Banner advertising display 2	-	-	SYS	Maximum 27 letters (one-byte character)	11	
08	Setting mode	System	General			9330		Display of [BANNER MESSAGE] button	0	0~1	SYS	0: Not displayed 1: Displayed * This button enables the entry of "Banner advertising display 1 (08-9328)" and "Banner advertising display 2 (08-9329)" on the control panel.	1	
08	Setting mode	System	Network			9331		Local I/F time-out period	6	1~50	SYS	Sets the period of time when the job is judged as completed in local I/F printing (USB or parallel). 1: 1.0 sec. 2: 1.5 sec. - 50: 25.5 sec. (in increments of 0.5 sec.)	1	
08	Setting mode	System	User interface			9332		Original counter display	MJD: 2 Other: 0	0,2,4	SYS	Sets whether the original counter is displayed or not. 0: Not displayed 2: Displayed 4: Displayed (Double sized original is counted as 2.)	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			9334		PCL line feed code setting	0	0~3	SYS	Sets the PCL line feed code.0: Automatic setting 1: CR=CR, LF=LF 2: CR=CR+LF, LF=LF 3: CR=CR, LF=CR+LF	1	
08	Setting mode	System	Feeding system/Pa per transport			9335		Feeding direction setting of envelope	0	0~1	SYS	Sets the feeding direction of envelopes. 0: Envelope flap comes on its trailing edge (front side of the equipment) 1: Envelope flap comes on its leading edge (rear side of the equipment)	1	Yes
08	Setting mode	System	Paper feeding			9336		Default setting of drawers(Printer/BOX)	1	1~5	SYS	1: LCF 2: Upper drawer 3: Lower drawer 4: PFP upper drawer 5: PFP lower drawer	1	
08	Setting mode	System	User interface			9337		Restriction of the template function with the administrator privilege	0	0~1	SYS	Selects the restriction of the template function usage setting. 0: No restriction 1: Only available with the administrator privilege.	1	
08	Setting mode	System	Network			9338		Raw printing job(Paper feeding drawer)	0	0~5	SYS	0: AUTO1: Upper drawer 2: Lower drawer 3: PFP upper drawer 4: PFP lower drawer 5: LCF	1	
08	Setting mode	System	Network			9339		Raw printing job(PCL symbol set)	0	0~39	SYS	0: Roman-8 1: ISO 8859/1 Latin 1 2: ISO 8859/2 Latin 2 3: ISO 8859/9 Latin 5 4: PC-8,Code Page 437 5: PC-8 D/N, Danish/ Norwegian 6: PC-850,Multilingual 7: PC-852, Latin2 8: PC-8 Turkish 9: Windows 3.1 Latin 1 10: Windows 3.1 Latin 2 11: Windows 3.1 Latin 5 12: DeskTop 13: PS Text 14: Ventura International 15: Ventura US 16: Microsoft Publishing 17: Math-8 18: PS Math 19: Ventura Math 20: Pi Font 21: Legal 22: ISO 4: United Kingdom 23: ISO 6: ASCII 24: ISO 11 25: ISO 15: Italian 26: ISO 17 27: ISO 21: German 28: ISO 60: Danish/Norwegian 29: ISO 69: French 30: Windows 3.0 Latin 1 31: MC Text 32: PC Cyrillic 33: ITC Zapf Dingbats 34: ISO 8859/10 Latin 6 35: PC-775 36: PC-1004 37: Symbol 38: Windows Baltic 39: Wingdings	1	
08	Setting mode	System	User interface	Binding margin setting		9341	0	Left binding front (Right binding back)	7	0-100	SYS	Sets the binding margin displayed as default on the setting screen for the top/bottom/left/right binding function when copying. (Unit: mm)	4	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface	Binding margin setting		9341	1	Left binding back (Right binding front)	7	0-100	SYS	Sets the binding margin displayed as default on the setting screen for the top/bottom/left/right binding function when copying. (Unit: mm)	4	Yes
08	Setting mode	System	User interface	Binding margin setting		9341	2	Top binding front (Bottom binding back)	7	0-100	SYS	Sets the binding margin displayed as default on the setting screen for the top/bottom/left/right binding function when copying. (Unit: mm)	4	Yes
08	Setting mode	System	User interface	Binding margin setting		9341	3	Top binding back (Bottom binding front)	7	0-100	SYS	Sets the binding margin displayed as default on the setting screen for the top/bottom/left/right binding function when copying. (Unit: mm)	4	Yes
08	Setting mode	System	User interface	Binding margin setting		9342		Book binding	14	0~30	SYS	Sets the binding margin displayed as default on the setting screen for the book binding function when copying.	1	Yes
08	Setting mode	Printer	Paper feeding	Automatic change of paper source	Auto	9343		Printing/BOX printing	1	1~2	SYS	1: Only in the same paper direction 2: In both the same and different paper directions	1	Yes
08	Setting mode	System	Network			9344		Restriction mode of network printing	0	0~3	SYS	0: Normal mode 1: Mode for Private Print 2: Mode for Hold Print 3: Mode for Private / Hold Print * When "1" (valid) is set for the code 08-9264 "User data department management", the setting value of this code is automatically set to "2" except for the case "0" is set for this code. Only "0" and "2" are selectable for this code unless "0" (invalid) is set for the code 08-9264.	1	
08	Setting mode	System	User interface			9352		Display of paper size setting by installation operation of drawers	Refer to contents	0~1	SYS	0: Not displayed 1: Displayed <Default value> JPD/MJD: 0 Other: 1	1	
08	Setting mode	System	General			9357		Enhanced bold for PCL6	0	0~1	SYS	0:OFF 1:ON	1	
08	Setting mode	System	User interface	Paper Feed		9359		Printing resume after jam releasing	1	0~1	SYS	0: Auto resume 1: Resume by users	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface			9379		HD data scramble function setting	0	0~2	SYS	0: Encryption invalid 1: Encryption valid (Security priority) Encrypts all of the user's data. 2: Encryption valid (Performance priority) Encrypts the user's data except the files temporarily created and deleted in the image processing such as copying or printing.	1	
08	Setting mode	System	User interface			9380		Converting 1-byte katakana into 2 byte-katakana at e-mail transmission	0	0~1	SYS	0: Non-conversion 1: With conversion	1	
08	Setting mode	System	User interface	Default setting of filing format	E-mail	9384		Color/ACS	1	0~8	SYS	0: TIFF (Multi) 1: PDF (Multi) 2: JPG 3: TIFF (Single) 4: PDF (Single) 5: SLIM PDF (Multi) 6: SLIM PDF (Single) 7: XPS (Multi) 8: XPS (Single)	1	Yes
08	Setting mode	System	Network	Notification of scan job		9386	0	When job completed	0	0~1	SYS	Sets the notification method of scan job completion. 0: Invalid 1: Valid	4	
08	Setting mode	System	Network	Notification of scan job		9386	1	On error	0	0~1	SYS	Sets the notification method of scan job completion. 0: Invalid 1: Valid	4	
08	Setting mode	System	Network			9387		File name format of "Save as file" and Email transmission	0	0~6	SYS	Sets the naming method of the file of "Save as file" and Email transmission. 0: [FileName]-[Data]-[Page] 1: [FileName]-[Page]-[Data] 2: [Data]-[FileName]-[Page] 3: [Data]-[Page]-[FileName] 4: [Page]-[FileName]-[Data] 5: [Page]-[Data]-[FileName] 6: [HostName]_[Data]-[Page]	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			9388		Date display format of the file name of "Save as file" and Email transmission	0	0~5	SYS	Sets the data display format of the file of "Save as file" and Email transmission. 0: [YYYY][MM][DD] [HH][mm][SS] 1: [YY][MM][DD] [HH][mm][SS] 2: [YYYY][MM][DD] 3: [YY][MM][DD] 4: [HH][mm][SS] 5: [YYYY][MM][DD] [HH][mm][SS][mm0] The order of [YY], [MM] and [DD] varies depending on the setting of the code 08-9102 (Data display format).	1	
08	Setting mode	System	Network			9389		Single page data saving directory at "Save as file"	0	0~1	SYS	Sets the directory where the file of "Save as file" is saved. 0: Save it under a subfolder 1: Save it without creating a subfolder	1	
08	Setting mode	System	Network			9390		Page number display format of the file of "Save as file" and Email transmission	4	3~6	SYS	Sets the digit of a page number attached on the file. 3-6: 3-6 digits	1	
08	Setting mode	System	Network			9391		Extension (suffix) format of the file of "Save as file"	3	3~6	SYS	Sets the extension digits of the file to be saved. 3: Auto 4: 4 digits 5: 5 digits 6: 6 digits	1	
08	Setting mode	System	Network			9394		Single-page option for storing File and sending Email	0	0~1	SYS	0: Sets 1 page as 1 file 1: Makes a file based on the original	1	
08	Setting mode	System	Network			9397		Execution of user authentication when the user ID is not entered	2	0~2	SYS	0: Forcible execution 1: Execution impossible (pooled in the invalid queue) 2: Forcible deletion	1	
08	Setting mode	System	User interface	Card reader	LDAP authentication	9398		LDAP attribute name settings 1	eBMUse rCard	-	SYS	Maximum 32 characters (ASCII).	11	
08	Setting mode	System	Network			9399		Role Based Access DAP search index	0	Refer to contents	SYS	This code is used to specify the ID for the LDAP server to implement Role-Based Access Control. <Acceptable value> 0~4294967295	5	
08	Setting mode	System	Network			9403		Communication speed and settings of Ethernet	1	Refer to contents	NIC	1: Auto(100MBPS) 3: 10MBPS Full Duplex 5: 100MBPS Full Duplex 6: Auto(1000MBPS) 7: 1000MBPS Full Duplex	12	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			9406		Method for acquiring IP address	2	1~3	NIC	1: Static IP address 2: Dynamic IP address (DHCP) 3: Dynamic IP address (DHCP) without AutoIP	12	
08	Setting mode	System	Network	Address		9408		IP address	Refer to contents	Refer to contents	NIC	<Default value> 0.0.0.0 <Acceptable value> 0.0.0.0-255.255.255.255	12	Yes
08	Setting mode	System	Network	Address		9409		Subnet mask	Refer to contents	Refer to contents	NIC	<Default value> 0.0.0.0 <Acceptable value> 0.0.0.0-255.255.255.255	12	Yes
08	Setting mode	System	Network	Address		9410		Gateway	Refer to contents	Refer to contents	NIC	<Default value> 0.0.0.0 <Acceptable value> 0.0.0.0-255.255.255.255	12	Yes
08	Setting mode	System	Network			9411		Availability of IPX/SPX	2	1~2	NIC	1: Available 2: Not available	12	
08	Setting mode	System	Network			9414		Availability of AppleTalk	2	1~2	NIC	1: Available 2: Not available	12	
08	Setting mode	System	Network			9416		Availability of LDAP	1	1~2	NIC	1: Available 2: Not available	12	
08	Setting mode	System	Network	DNS		9417		Availability of DNS	1	1~2	NIC	1: Available 2: Not available	12	Yes
08	Setting mode	System	Network	Address		9418		IP address to DNS server (Primary)	Refer to contents	Refer to contents	NIC	000.000.000.000-255.255.255.255 <Default value> 000.000.000.000 <Acceptable value> 0.0.0.0~255.255.255.255	12	Yes
08	Setting mode	System	Network	Address		9419		IP address to DNS server (Secondary)	Refer to contents	Refer to contents	NIC	000.000.000.000-255.255.255.255 <Default value> 000.000.000.000 <Acceptable value> 0.0.0.0~255.255.255.255	12	Yes
08	Setting mode	System	Network			9421		Availability of SLP	1	1~2	NIC	Sets the availability of SLP on NetWare. 1: Enabled 2: Disabled	12	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			9426		Availability of Bindery	1	1~2	NIC	1: Available 2: Not available	12	
08	Setting mode	System	Network			9427		Availability of NDS	1	1~2	NIC	1: Available 2: Not available	12	
08	Setting mode	System	Network			9430		Availability of HTTP server	1	1~2	NIC	1: Available 2: Not available	12	
08	Setting mode	System	Network			9437		Availability of SMTP client	1	1~2	NIC	1: Available 2: Not available	12	
08	Setting mode	System	Network			9440		Availability of SMTP server	1	1~2	UTY	1: Available 2: Not available	12	
08	Setting mode	System	Network			9446		Availability of POP3 clients	1	1~2	NIC	1: Available 2: Not available	12	
08	Setting mode	System	Network			9459		Availability of FTP server	1	1~2	NIC	1: Available 2: Not available	12	
08	Setting mode	System	Network			9463		MIB function	1	1~2	NIC	1: Valid 2: Invalid	12	
08	Setting mode	System	Network			9473		Availability of Raw/TCP	1	1~2	NIC	1: Valid 2: Invalid	12	
08	Setting mode	System	Network			9475		Availability of LPD client	1	1~2	NIC	1: Valid 2: Invalid	12	
08	Setting mode	System	Network			9478		Availability of IPP	1	1~2	NIC	1: Valid 2: Invalid	12	
08	Setting mode	System	Network			9481		IPP printer name	MFPserial	-	NIC	Maximum 127 letters The Network-related serial number of the equipment appears on "serial"	12	
08	Setting mode	System	Network			9486		IPP printer "Make and Model"	mfp model name	-	NIC	Maximum 127 letters	12	
08	Setting mode	System	Network			9487		IPP printer information (more) MFGR	-	-	NIC	Maximum 127 letters	12	
08	Setting mode	System	Network			9488		IPP message from operator	-	-	NIC	Maximum 127 letters	12	
08	Setting mode	System	Network			9489		Availability of FTP print	1	1~2	NIC	1: Available 2: Not available	12	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			9499		Page number limitation for printing text of received E-mail	5	1~99	SYS		1	
08	Setting mode	System	Network			9505		Bonjour setting	1	1~2	NIC	1: Valid 2: Invalid	12	
08	Setting mode	System	Network			9515		Windows domain No.1 of user authentication	-	-	UTY	Maximum 128 letters	12	
08	Setting mode	System	Network			9516		PDC (Primary Domain Controller) name	-	-	UTY	Maximum 128 letters	12	
08	Setting mode	System	Network			9517		BDC (Backup Domain Controller) name	-	-	UTY	Maximum 128 letters	12	
08	Setting mode	System	Network	Address		9525		Display of MAC address	-	-	-	(**:**:**:**:**:**) The address is displayed as above. 6-byte data is divided by colon.	2	Yes
08	Setting mode	System	Network			9548		SSL setting HTTP server OFF/ON setting	2	1~2	-	1: Enabled 2: Disabled	12	
08	Setting mode	System	Network			9550		SSL setting IPP server OFF/ON setting	2	1~2	-	1: Enabled 2: Disabled	12	
08	Setting mode	System	Network			9552		SSL setting SSL ftp server OFF/ON	2	1~2	-	OFF/ON 1: Valid 2: Invalid	12	
08	Setting mode	System	Network			9556		SSL setting SSL POP3 Client OFF/ON	2	1~3	-	OFF/ON 1: Valid 2: Invalid 3: Use imported certificate	12	
08	Setting mode	System	Network			9563		IP Conflict Detect	1	1~2	-	OFF/ON 1: Valid 2: Invalid	12	
08	Setting mode	System	Network			9564		SNTP Enable	2	1~2	-	OFF/ON 1: Valid 2: Invalid	12	
08	Setting mode	System	Network	Enabling server's IP address acquired by DHCP		9580		Domain Name Server option (6)	1	1~2	-	1: Enabled 2: Disabled * This value is used only when DHCP is enabled.	12	
08	Setting mode	System	Network	Enabling server's IP address acquired by DHCP		9581		NetBIOS over TCP/IP Name Server option (44) = Primary and Secondary Wins NAME	1	1~2	-	1: Enabled 2: Disabled * This value is used only when DHCP is enabled	12	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network	Enabling server's IP address acquired by DHCP		9584		SMTP Server Option (69) Simple Mail Server Address	2	1~2	-	1: Enabled 2: Disabled * This value is used only when DHCP is enabled.	12	
08	Setting mode	System	Network	Enabling server's IP address acquired by DHCP		9585		POP3 Server Option (70) Post Office Server Address	2	1~2	-	1: Enabled 2: Disabled * This value is used only when DHCP is enabled.	12	
08	Setting mode	System	Network	Enabling server's IP address acquired by DHCP		9587		SNTP Server Option (42) NTP Server Address	2	1~2	-	1: Enabled 2: Disabled * This value is used only when DHCP is enabled.	12	
08	Setting Mode	System	Network			9599		Samba server ON/OFF setting	1	1-4	NIC	1: Samba enabled 2: Samba disabled 3: Print Share disabled 4: File Share disabled	12	
08	Setting mode	System	Maintenan ce	General		9601		Equipment number (serial number) display	0	9 digits	SYS	This code can be also keyed in from the adjustment mode (05-9043). 9 digits	11	Yes
08	Setting mode	System	Maintenan ce			9602		Dealer's name	-	-	SYS	Maximum 100 letters Needed at initial registration	11	
08	Setting mode	System	Maintenan ce	Remote-controlled service	General	9603		Login name	-	-	SYS	Maximum 20 letters Needed at initial registration	11	Yes
08	Setting mode	System	Maintenan ce	Remote-controlled service	Call /Display function	9604		Display set of [Service Notification] button	Refer to contents	0~1	SYS	0: Not displayed 1: displayed <Default value> NAD: 1 MJD: 1 Other: 0	1	Yes
08	Setting mode	System	Maintenan ce (Remote)			9605		Sending error history of equipment	0	0~1	SYS	0: Invalid 1: Valid	1	
08	Setting mode	System	Maintenan ce (Remote)			9606		Setting total counter transmission interval	-	-	SYS	(Hour/Hour/Minute/Minute)	1	
08	Setting mode	System	Maintenan ce (Remote)			9607		Destination E-mail address 2	-	-	SYS	Maximum 192 letters	11	
08	Setting mode	System	Maintenan ce (Remote)			9608		Destination E-mail address 3	-	-	SYS	Maximum 192 letters	11	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Maintenance			9610		Remote-controlled service polling day selection Day-1	0	0~31	SYS	0: OFF 1 to 31: 1st to 31st of a month	1	
08	Setting mode	System	Maintenance			9611		Remote-controlled service polling day selection Day-2	0	0~31	SYS	0: OFF 1 to 31: 1st to 31st of a month	1	
08	Setting mode	System	Maintenance			9612		Remote-controlled service polling day selection Day-3	0	0~31	SYS	0: OFF 1 to 31: 1st to 31st of a month	1	
08	Setting mode	System	Maintenance			9613		Remote-controlled service polling day selection Day-4	0	0~31	SYS	0: OFF 1 to 31: 1st to 31st of a month	1	
08	Setting Mode	System	Maintenance	RDMS	Remote-controlled service polling day	9614		Sunday	1	0-1	SYS	0: Invalid 1: Valid	1	Yes
08	Setting Mode	System	Maintenance	RDMS	Remote-controlled service polling day	9615		Monday	1	0-1	SYS	0: Invalid 1: Valid	1	Yes
08	Setting Mode	System	Maintenance	RDMS	Remote-controlled service polling day	9616		Tuesday	1	0-1	SYS	0: Invalid 1: Valid	1	Yes
08	Setting Mode	System	Maintenance	RDMS	Remote-controlled service polling day	9617		Wednesday	1	0-1	SYS	0: Invalid 1: Valid	1	Yes
08	Setting Mode	System	Maintenance	RDMS	Remote-controlled service polling day	9618		Thursday	1	0-1	SYS	0: Invalid 1: Valid	1	Yes
08	Setting Mode	System	Maintenance	RDMS	Remote-controlled service polling day	9619		Friday	1	0-1	SYS	0: Invalid 1: Valid	1	Yes
08	Setting Mode	System	Maintenance	RDMS	Remote-controlled service polling day	9620		Saturday	1	0-1	SYS	0: Invalid 1: Valid	1	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Maintenan ce			9624		Information of supplies setting of toner cartridge K	0	0~1	SYS	0: Invalid 1: Valid	1	
08	Setting mode	System	Maintenan ce	Remote-controlled service	Remote-controlled service polling	9626		End of month	0	0-1	SYS	0: Invalid 1: Valid	1	Yes
08	Setting mode	System	Network			9627		Sending mail text of InternetFAX	1	0-1	SYS	0: Invalid (Not sending the mail text) 1: Valid (Sending the mail text)	1	
08	Setting mode	System	Network			9628		From Name Creation setting in SMTP authentication	0	0-2	SYS	0: Not edited 1: Account name of FROM ADDRESS and Device name 2: LDAP searching	1	
08	Setting mode	System	Wireless LAN			9649		Wireless LAN supplicant Wireless LAN setting	2	1~2	NIC	This setting is whether the wireless LAN connection is enabled or disabled. 1: Enabled 2: Disabled	12	
08	Setting mode	System	Bluetooth			9680		Bluetooth ON/OFF setting	1	0~1	SYS	0: OFF 1: ON	1	
08	Setting mode	System	Bluetooth			9681		Bluetooth Device name	MFPseri al	-	SYS	Maximum 32 letters	11	
08	Setting mode	System	Bluetooth			9682		Bluetooth Discovery	1	0~1	SYS	0: Not allowed 1: Allowed	1	
08	Setting mode	System	Bluetooth			9683		Bluetooth Security	1	0~1	SYS	0: Security function OFF 1: Security function ON	1	
08	Setting mode	System	Bluetooth			9684		Bluetooth PIN	0000	-	SYS	Maximum 8 digits (8-digit sequence) This setting is valid only when the bluetooth security function is ON.	11	
08	Setting mode	System	Bluetooth			9685		Bluetooth Data encryption	1	0~1	SYS	0: Not encrypted 1: Encrypted This setting is valid only when the bluetooth security function is ON.	1	
08	Setting mode	System	Network	Enabling server's IP address acquired by DHCP		9694		DNS domain name Option (15) DNS domain name of the client	1	1~2	-	1: Enabled 2: Disabled * This value is used only when DHCP is enabled.	12	
08	Setting mode	System	Maintenan ce	General		9700		Service technician telephone number	0	32 digits	SYS	A telephone number can be entered up to 32 digits. Use the [Pause] button to enter a hyphen (-).	11	Yes
08	Setting mode	System	User interface			9702		Automatic calibration disclosure level	1	0-2	SYS	Sets the disclosing level of automatic calibration. 0: Service technician 1: Administrator 2: User	1	
08	Setting mode	Counter	Maintenan ce			9703		Error history display	-	-	SYS	Displaying of the latest 20 errors data	2	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			9709		Default data saving directory of "Scan to File"	0	0~2	SYS	0: Local directory 1: REMOTE 1 2: REMOTE 2	1	
08	Setting mode	System	Maintenan ce	Remote-controlled service	General	9710		Remote-controlled service function	2	0~2	SYS	0: Valid (Remote-controlled server) 1: Valid (L2) 2: Invalid	1	Yes
08	Setting mode	System	Maintenan ce	Remote-controlled service	HTTP	9711		Remote-controlled service URL setting	NULL	-	SYS	Maximum 256 Bytes	11	Yes
08	Setting mode	System	Maintenan ce	Remote-controlled service	HTTP	9715		Initially-registered server URL setting	Refer to contents	-	SYS	Maximum 256 letters <Default value> https://device.mfp-support.com:443/device/firstregist.ashx	11	Yes
08	Setting mode	System	Maintenan ce	Short time interval of emergency mode		9718		Recovery time setting	24	1~48	SYS	Sets the time interval to recover from the emergency mode to the normal mode. (Unit: Hour)	1	Yes
08	Setting mode	System	Maintenan ce	Short time interval of emergency mode		9719		Interval setting	60	30~360	SYS	(Unit: Minute)	1	Yes
08	Setting mode	System	Maintenan ce	Remote-controlled service	General	9723		Periodical polling timing	1700	0~2359	SYS	0 (0:00) to 2359 (23:59)	1	Yes
08	Setting mode	System	Maintenan ce	Remote-controlled service	General	9724		Writing data of self-diagnostic code	0	0~1	SYS	0: Prohibited 1: Accepted	1	Yes
08	Setting mode	System	Maintenan ce	Remote-controlled service	General	9726		Remote-service initial registration	0	0~3	SYS	0: OFF 1: Start 2: Only certification is scanned 3: RDMS communication starts	1	Yes
08	Setting mode	System	Maintenan ce	Remote-controlled service	General	9727		Remote-controlled service tentative password	NULL	-	SYS	Maximum 10 letters	11	Yes
08	Setting mode	System	Maintenan ce	Remote-controlled service	General	9729		Status of remote-service initial regist	0	0~1	SYS	0: Not registered 1: Registered	2	Yes
08	Setting Mode	System	Maintenan ce	RDMS	Call /Display function	9730		Service center call function	1	0-2	SYS	0: OFF 1: Notifies all service calls 2: Notifies all but paper jams	1	Yes
08	Setting mode	System	Maintenan ce	Remote-controlled service	HTTP	9732		Service center call HTTP server URL setting	NULL	-	SYS	Maximum 256 letters	11	Yes
08	Setting mode	System	Counter			9736		Validity of interrupt copying when external counters are installed	0	0~1	SYS	0: Invalid1: Valid	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Maintenan ce	Remote-controlled service	Call /Display function	9739		Toner-end notification	0	0~2	SYS	0: RDMS toner empty notified immediately 1: RDMS toner empty notified once a day 2: RDMS toner empty not notified	1	Yes
08	Setting mode	System	Maintenan ce	Remote-controlled service	HTTP	9740		HTTP proxy setting	1	0~1	SYS	0: Valid 1: Invalid	1	Yes
08	Setting mode	System	Maintenan ce	Remote-controlled service	HTTP	9741		HTTP proxy IP address setting	Refer to contents	-	SYS	Input IP address or FQDN. <Default value> 0.0.0.0	11	Yes
08	Setting mode	System	Maintenan ce	Remote-controlled service	HTTP	9742		HTTP proxy port number setting	0	0~65535	SYS		1	Yes
08	Setting mode	System	Maintenan ce	Remote-controlled service	HTTP	9743		HTTP proxy ID setting	NULL	-	SYS	Maximum 30 letters	11	Yes
08	Setting mode	System	Maintenan ce	Remote-controlled service	HTTP	9744		HTTP proxy password setting	NULL	-	SYS	Maximum 30 letters	11	Yes
08	Setting mode	System	Maintenan ce	Remote-controlled service	HTTP	9745		HTTP proxy panel display	1	0~1	SYS	0: Valid 1: Invalid	1	Yes
08	Setting mode	System	Network			9746		802.1X/Dynamic WEP selecting button display	1	0~1	SYS	Switches whether a selecting button for Security mode 802.1X/Dynamic WEP is displayed or not. 0: Not displayed 1: Displayed	1	
08	Setting mode	System	Network			9749		WIA Scan Driver	1	1~2	NIC	Selects WIA Scan Driver. 1: TTEC 2: Microsoft	12	
08	Setting mode	System	Maintenan ce			9750		Automatic ordering function of supplies	3	0~3	SYS	0: Ordered by FAX 1: Ordered by E-mail 2: Ordered by HTTP 3: OFF	1	
08	Setting mode	System	Maintenan ce			9751		Automatic ordering function of supplies FAX number	-		SYS	Maximum 32 digits Enter hyphen with the [Pause] button	11	
08	Setting mode	System	Maintenan ce			9752		Automatic ordering function of supplies E-mail address	-		SYS	Maximum 192 letters List: 256 digits	11	
08	Setting mode	System	Maintenan ce (Remote)			9756		Automatic ordering function of supplies User's name	-		SYS	Maximum 50 letters	11	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Maintenance (Remote)			9757		Automatic ordering function of supplies User's telephone number	-		SYS	Maximum 32 digits Enter hyphen with the [Pause] button	11	
08	Setting mode	System	Maintenance (Remote)			9758		Automatic ordering function of supplies User's E-mail address	-		SYS	Maximum 192 letters List: 256 digits	11	
08	Setting mode	System	Maintenance (Remote)			9759		Automatic ordering function of supplies User's address	-		SYS	Maximum 100 letters	11	
08	Setting mode	System	Maintenance (Remote)			9760		Automatic ordering function of supplies Service number	-		SYS	Maximum 5 digits	11	
08	Setting mode	System	Maintenance (Remote)			9761		Automatic ordering function of supplies Service technician's name	-		SYS	Maximum 50 letters	11	
08	Setting mode	System	Maintenance (Remote)			9762		Automatic ordering function of supplies Service technician's telephone number	-		SYS	Maximum 32 digits Enter hyphen with the [Pause] button	11	
08	Setting mode	System	Maintenance (Remote)			9763		Automatic ordering function of supplies Service technician's E-mail address	-		SYS	Maximum 192 letters List: 256 digits	11	
08	Setting mode	System	Maintenance (Remote)			9764		Automatic ordering function of supplies Supplier's name	-		SYS	Maximum 50 letters	11	
08	Setting mode	System	Maintenance (Remote)			9765		Automatic ordering function of supplies Supplier's address	-		SYS	Maximum 100 letters	11	
08	Setting mode	System	Maintenance (Remote)			9766		Automatic ordering function of supplies Notes	-		SYS	Maximum 128 letters	11	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Maintenance (Remote)			9776		Information about supplies Part number of toner cartridge	-		SYS	Maximum 20 digits	11	
08	Setting mode	System	Maintenance (Remote)			9777		Information about supplies Order quantity of toner cartridge	1	1~99	SYS		1	
08	Setting mode	System	Maintenance (Remote)			9778		Information about supplies Condition number of toner cartridge	1	1~99	SYS		1	
08	Setting mode	System	Maintenance	Remote-controlled service	Call /Display function	9783		Automatic supply ordering display	Refer to contents	0~2	SYS	0: Valid (FAX/Internet FAX) 1: Valid (FAX/Internet FAX/HTTP) 2: Invalid <Default value> NAD: 0 Others: 2	1	Yes
08	Setting mode	System	Maintenance (Remote)			9784		Counter notification Remote FAX setting	-		SYS	Maximum 32 digits Enter hyphen with the [PAUSE] button.	11	
08	Setting mode	System	General			9787		Suspend when quota is empty	0	0-1	SYS	Sets whether the process is suspended immediately or suspended after the job is completed if quota is used up. 0: Suspended immediately 1: Suspended after the job is finished	1	
08	Setting mode	System	Maintenance			9788		Service call checking period setting	6	0~12	SYS	0: No checking period specified (= Calls service technician immediately) 1: 10 minutes 2: 30 minutes 3: 1 hour 4: 6 hours 5: 12 hours 6: 24 hours 7: 48 hours 8: 7 days 9: 1 month 10: 1 year 11: 5 years 12: Not limited (= Calls service technician if such error has occurred in the past even once or more)	1	
08	Setting mode	System	Maintenance (Remote)			9793		Service Notification setting	0	0~2	SYS	Enables to set up to 3 E-mail addresses to be sent. (08-9793, 9794, 9795) 0: Invalid 1: Valid (E-mail) 2: Valid (FAX)	1	
08	Setting mode	System	Maintenance (Remote)			9794		Destination E-mail address 1	-		SYS	Maximum 192 letters	11	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Maintenance (Remote)			9795		Total counter information transmission setting	0	0~1	SYS	0: Invalid 1: Valid	1	
08	Setting mode	System	Maintenance (Remote)			9796		Total counter transmission date setting	0	0~31	SYS	0 to 31	1	
08	Setting mode	System	Maintenance (Remote)			9797		PM counter notification setting	0	0~1	SYS	0: Invalid 1: Valid	1	
08	Setting mode	System	Network			9798		Temporary communication password setting	99999	-	SYS	Sets a temporary communication password. The password can be entered in alphanumeric characters (A to Z, a to z, 0 to 9) up to 10 digits. The entered password is displayed with "*" on the touch panel and the self-diagnostic lists. (Maximum 10 digits, minimum 5 digits)	11	
08	Setting mode	System	General			9799		Local authentication mode switchover	0	0~1	SYS	Sets the authentication mode when "0: (Internal authentication)" is selected in the code 08-9293. 0: Card ID differs from the User ID 1: Card ID is the same as the User ID	1	
08	Setting mode	System	Process			9804		Forcible mode change in toner empty status	1	0~2	SYS	0: SLEEP MODE 1: AUTO POWER SAVE 2: READY	1	
08	Setting mode	System	Laser			9805		Polygonal motor standby rotation Shift waiting time at job end	3	0~9	SYS	0: 0 sec. (current setting) (Polygonal motor ready rotation at job end) 1 to 9:Setting value x 5sec.	1	
08	Setting mode	System	User interface	Interruption of stapling operation (no staple)		9810	0	Copying	1	0~1	SYS	0: Continues printing by switching sort setting 1: Interrupts printing	4	
08	Setting mode	System	User interface	Interruption of stapling operation (no staple)		9810	1	Printing / BOX printing	0	0~1	SYS	0: Continues printing by switching sort setting 1: Interrupts printing	4	
08	Setting mode	System	Finisher	Stapling setting Maximum number of sheets acceptable exceeding upper limit / Long size		9811	0	Plain/Recycled	0	-50~50	SYS	-50 to 50	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Finisher	Stapling setting Maximum number of sheets acceptable exceeding upper limit / Long size		9811	1	Thick1	0	-50~50	SYS	-50 to 50	4	
08	Setting mode	System	Finisher	Stapling setting Maximum number of sheets acceptable exceeding upper limit / Long size		9811	2	Thick2	0	-50~50	SYS	-50 to 50	4	
08	Setting mode	System	Finisher	Stapling setting Maximum number of sheets acceptable exceeding upper limit / Long size		9811	3	Thick3	0	-50~50	SYS	-50 to 50	4	
08	Setting mode	System	General			9816		Addition of the page number to the multi-page file name of File	0	0~1	SYS	Only when job is executed with TimeStamp enabled for file storage, page number is added with the format set at 08-9387. 0: Invalid (Page number not added) 1: Valid (Page number added)	1	
08	Setting mode	System	General			9817		Maximum number of decimals in extension fields	2	0~6	SYS	0: 0 digit 1: 1 digit 2: 2 digits 3: 3 digits 4: 4 digits 5: 5 digits 6: 6 digits	1	
08	Setting mode	System	General			9818		Default saving/attachment files of "File/Email"	0	0~1	SYS	0: DOCYYMMDD 1: NetBios name	1	
08	Setting mode	System	User interface	Off Device Customization Architecture		9819		STAGE SSL	0	0-1	SYS	Sets whether SSL communication is enabled or disabled for remote scanning. 0: Disabled 1: Enabled	1	
08	Setting mode	System	User interface	Off Device Customization Architecture		9820		STAGE I/F	1	0-1	SYS	Sets whether interface is enabled or disabled for remote scanning. 0: Disabled 1: Enabled	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	User interface	Off Device Customization Architecture		9821		Port number	49629	0-65535	SYS	Sets a port number for the remote scanning.	1	
08	Setting mode	System	User interface	Off Device Customization Architecture		9822		SSL port number	49630	0-65535	SYS	Sets an SSL port number for remote scanning using SSL communication.	1	
08	Setting mode	System	Network			9823		User name and password at user authentication or "Save as file"	0	0~2	SYS	0: User name and password of the device 1: User name and password at the user authentication (Template registration information comes first when a template is retrieved.) 2: User name and password at the user authentication (User information of the authentication comes first when a template is retrieved.)	1	
08	Setting mode	System	Image			9825		Image quality of the black part in the ACS mode	0	0~1	SYS	0: Black 1: Gray scale	1	
08	Setting mode	System	General			9829		Department management limitation setting	0	0~1	SYS	Decide the default limitation setting when the new department code is created. 0: No limit 1: Limited	1	
08	Setting mode	System	Bluetooth			9841		Bluetooth BIP Paper type	0	0~3	SYS	0: Fit page 1: 1/2 size 2: 1/4 size 3: 1/8 size	1	
08	Setting mode	System	Bluetooth			9846		Bluetooth BIP Paper size	Refer to contents	0~13	SYS	0: Ledger 1: Legal 2: Letter 3: Computer 4: Statement 5: A3 6: A4 7: A5 9: B4 10: B5 11: Folio 12: Legal13" 13: LetterSquare <Default value> NAD: 2 Others: 6	1	
08	Setting mode	System	Finisher			9847		Hole punching setting	0	0~1	SYS	0: Invalid 1: Valid	1	
08	Setting mode	System	General			9880		Total counter transmission date setting (2)	0	0~31	SYS	0 to 31	1	
08	Setting mode	System	General			9881		Day of total counter data transmission	0	0~127	SYS	1 byte 00000000(0)-01111111(127) From the 2nd bit - Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	General			9883		Hardcopy security printing	0	0~1	SYS	0: Disable1 1: Enable	1	
08	Setting mode	System	Counter			9884		Count switching of hardcopy security printing level 1	0	0~1	SYS	Sets the way of counting for hardcopy security printing. 0: Counted as 1 1: Counted as 2	2	
08	Setting mode	System	Scanning			9886		Decimal point indication for Enhanced Scan Template	Refer to contents	0~1	SYS	0: Comma 1: Period <Default value> MJD: 0 Others: 1	1	
08	Setting mode	System	Scanner			9888		Permission setting for changing the scan parameter when recalling an extension	0	0~1	SYS	0: Prohibited 1: Permitted	1	
08	Setting mode	System	General	Data cloning		9889		Status display for USB cloning	0	0~1	SYS	Acceptance of the usage of the USB data cloning tool 0: Accepted 1: Not accepted	1	Yes
08	Setting mode	System	User interface	Screen setting		9891		Warning message when PM time has come	1	0~1	SYS	0: No warning notification 1: Display warning notification	1	Yes
08	Setting mode	System	General			9894		Calibration chart charging method	0	0-1	SYS	Decides whether the calibration chart printing is charged or not 0: No charge 1: Charge	1	
08	Setting mode	System	Image			9897		Default value setting of background peak adjustment (Black)	5	1~9	SYS	1: -4 2: -3 3: -2 4: -1 5: 0 6: +1 7: +2 8: +3 9: +4	1	
08	Setting mode	System	Image			9898		Default value setting of density in the scan mode (Color)	6	0~11	SYS	0: Auto 1: -5 2: -4 3: -3 4: -2 5: -1 6: 0 7: +1 8: +2 9: +3 10: +4 11: +5	1	
08	Setting mode	System	Image			9899		Default value setting of density in the scan mode (Gray)	6	0~11	SYS	0: Auto 1: -5 2: -4 3: -3 4: -2 5: -1 6: 0 7: +1 8: +2 9: +3 10: +4 11: +5	1	
08	Setting mode	System	Version	System		9900		System software ROM version	-	-	-	T330SYXXXXXX	2	Yes
08	Setting mode	System	Version	Engine		9901		Engine ROM version	-		-	33xM-XXX	2	Yes
08	Setting mode	System	Version	Engine		9902		Scanner ROM version	-		-	330S-XXX	2	Yes

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Version	Engine		9903		RADF ROM version	-		-	DF-XXXX	2	Yes
08	Setting mode	System	Version	Finisher		9904		Finisher ROM version	-		-	SDL-XXX FIN-XXX	2	Yes
08	Setting mode	System	Version	FAX		9905		Fax board ROM version	-		-	F670-XXX	2	Yes
08	Setting mode	System	Version	HDD		9930		System software OS version	-		-	T160SF0WXXXX	2	Yes
08	Setting mode	System	Network			9933		Domain participation confirmation of printing when LDAP authentication is used	1	0~1	SYS	When LDAP is selected as authentication method for user authentication, checking of domain participation of client computer for print job authentication is set. This function is available only when department management is enabled. 0: Disabled 1: Enabled	1	
08	Setting mode	System	Finisher	Stapling setting Acceptable number of sheets exceeding upper limit / Short size		9937	0	Plain/Recycled	0	-100~100	SYS	-100 to 100	4	
08	Setting mode	System	Finisher	Stapling setting Acceptable number of sheets exceeding upper limit / Short size		9937	1	Thick1	0	-100~100	SYS	-100 to 100	4	
08	Setting mode	System	Finisher	Stapling setting Acceptable number of sheets exceeding upper limit / Short size		9937	2	Thick2	0	-100~100	SYS	-100 to 100	4	
08	Setting mode	System	Finisher	Stapling setting Acceptable number of sheets exceeding upper limit / Short size		9937	3	Thick3	0	-100~100	SYS	-100 to 100	4	
08	Setting mode	System	Finisher	Stapling Acceptable number of sheets exceeding upper limit / Saddle stitch		9938	0	Plain/Recycled	0	-15~15	SYS	-15 to 15	4	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Finisher	Stapling Acceptable number of sheets exceeding upper limit / Saddle stitch		9938	1	Thick1	0	-15~15	SYS	-15 to 15	4	
08	Setting mode	System	Finisher	Stapling Acceptable number of sheets exceeding upper limit / Saddle stitch		9938	2	Thick2	0	-15~15	SYS	-15 to 15	4	
08	Setting mode	System	Finisher	Stapling Acceptable number of sheets exceeding upper limit / Saddle stitch		9938	3	Thick3	0	-15~15	SYS	-15 to 15	4	
08	Setting mode	System	Version	Finisher		9944		Finisher punch ROM version	-	-	-	PUN-XXX FIN-XXX	2	Yes
08	Setting mode	System	Version			9945		Finisher Converter ROM version	-	-	-	CNV-XXX	2	
08	Setting mode	System	Network	E-mail		9946		Number of Email transmission retries	3	0~14	SYS	The number of times of E-mail communication retry for Scan to E-mail and Internet Fax is set.	1	Yes
08	Setting mode	System	Network	E-mail		9947		E-mail transmission retry interval	1	0~15	SYS	When E-mail transmission retry for Scan to E-mail and Internet Fax is performed, the interval is set. 0 min - 15 min	1	Yes
08	Setting mode	System	General			9954		Control box counter / job list printing operation	0	0-1	SYS	0: Invalid 1: Valid	1	
08	Setting mode	System	User interface			9955		Name of [EXTENSION] button	EXTENS ION		SYS	Sets the name of " EXTENSION" button displayed on the MENU screen. Maximum 10 characters with alphameric characters and symbols.	11	
08	Setting mode	System	Network			9958		Bcc address display ON/OFF setting (Job Log / Job Status)	0	0~1	SYS	Sets whether the Bcc address is displayed or not on the Job Log or Job Status. 0: OFF (Bcc address not displayed) 1: ON (Bcc address displayed)	1	
08	Setting mode	System	Network			9959		Bcc address display ON/OFF setting (Job Notification)	1	0~1	SYS	Sets whether the Bcc address is displayed or not on all the Job Notifications except for the administrator. 0: OFF (Bcc address not displayed) 1: ON (Bcc address displayed)	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	General			9960		Equipment information (SRAM)	Refer to contents	0~2	SYS	Displays the equipment information in SRAM. 0: Not set 1: Destinations other than NAD 2: NAD <Default value> NAD: 2 Others: 1	2	
08	Setting Mode	System	User interface			9963		Display of receiving job on PRINT/JOB STATUS screen	2	0-2	SYS	0: Disabled 1: Enabled (Other user's receiving job can be deleted) 2: Enabled (Other user's receiving job cannot be deleted) * This setting is automatically disabled in the high security mode.	1	
08	Setting mode	System	User interface	Default mode setting	Default setting (PPC)	9970		Original mode (Black)	0	0~4	SYS	0: Text/Photo 1: Text 2: Photo 3: Not used 4: Custom	1	Yes
08	Setting mode	System	General			9971		Image quality density adjustment at power-ON Default setting	0	0~1	SYS	0: Automatic 1: Manual (Center)	1	
08	Setting mode	System	User interface	Blank page judgment Default setting	PPC	9972		Blank page judgment Default setting	0	-3~3	SYS	The larger the value is, the more the paper is judged as a blank page. The smaller the value is, the less the paper is judged as a blank page.	1	
08	Setting mode	System	User interface	Blank page judgment Default setting	SCN	9973		Blank page judgment Default setting	0	-3~3	SYS	The larger the value is, the more the paper is judged as a blank page. The smaller the value is, the less the paper is judged as a blank page.	1	
08	Setting mode	System	User interface	ACS judgment adjustment Default setting	SCN	9975		ACS judgment adjustment Default setting	0	-3~3	SYS	The larger the value is, the more the original is judged as color data. The smaller the value is, the less the original is judged as black data.	1	

05/08	Mode	Element	Sub element	Item	Subitem	Code	Sub-code	Details	Default value	Acceptable value	RAM	Contents	Proc edure	Service UI
08	Setting mode	System	Network			9980		Address setting for TO/CC/BCC at authentication	0	0-4	SYS	Sets address of TO/CC/BCC when the user authentication and E-mail authentication are enabled. When the value of this code is set to "1", the address specified as From Address is input to TO destination field. TO/CC/BCC field cannot be edited. When the value of this code is set to "2 to 4", the address specified as From Address is input to each field. TO/CC/BCC field can be edited by pressing the TO/CC/BCC button. 0: Disabled 1: Fixed to TO field. 2: Added to TO field. 3: Added to CC field. 4: Added to BCC field.	1	
08	Setting mode	System	Network			9981		Sending body text of email	1	0~1	SYS	Sets whether the job information is output in the body of e-mail when executing e-mail send job. 0: Disabled 1: Enabled	1	
08	Setting mode	System	User interface			9982		Switch of display attribute of [EXTENSION] icon	0	0~1	SYS	0: Touch is invalid when authentication is not completed. 1: Touch is valid when authentication is not completed.	1	
08	Setting mode	System	Maintenance			9984		Document name in printing/scanning	0	0~1	SYS	0: Not confidential name (default) 1: Confidential name	1	
08	Setting Mode	System	User interface			9985		Screen displayed by pressing MENU button	0	0-1	SYS	0: MENU screen 1: EWB screen	1	
08	Setting mode	System	Maintenance			9987		Retention of fax sending settings	0	0~3	SYS	Sets whether the fax sending settings are retained or not. 0: Clears all settings (The authentication screen is displayed if user authentication or department management is enabled.) 1: Clears all 2: Clears only addresses 3: Retains all settings * When the value of this code is set to "3", the value of 08-3847 (FAX mistransmission prevention) is automatically set to "1" (Enabled).	1	

e-STUDIO206L/256/306/356/456/506

MAINTENANCE CHECK LIST /
LISTE DE VERIFICATIÓN DENTRETIEN /
LISTE DER WARTUNQSPRÜFUNG /
LISTA DE CONTROL DE MANTENIMIENTO

e-STUDIO256/306/356/456/506

DATE	TECHNICIAN	COUNTER

REPLACEMENT PARTS AND SUPPLIES

	256 / 306 / 356 / 456 / 506	80k	160k	240k	320k	400k	480k	560k	640k	720k	800k
1.PICK UP ROLLER (1st CST.)											
2.FEED ROLLER (1st CST.)											
3.SEP ROLLER (1st CST.)											
4.PICK UP ROLLER (2nd CST.)											
5.FEED ROLLER (2nd CST.)											
6.SEP ROLLER (2nd CST.)											
7.PICK UP ROLLER (SFB)											
8.FEED ROLLER (SFB)											
9.SEP ROLLER (SFB)											
10.PICK UP ROLLER (LCF)											
11.FEED ROLLER (LCF)											
12.SEP ROLLER (LCF)											
13.PICK UP ROLLER (3rd CST.)											
14.FEED ROLLER (3rd CST.)											
15.SEP ROLLER (3rd CST.)											
16.PICK UP ROLLER (4th CST.)											
17.FEED ROLLER (4th CST.)											
18.SEP ROLLER (4th CST.)											

	256 / 306 / 356 / 456 / 506	120k	240k	360k	480k	600k	720k	840k	960k	1080k	1200k
1.PICK UP ROLLER (RADF)											
2.FEED ROLLER (RADF)											
3.SEP ROLLER (RADF)											

REPLACEMENT PARTS AND SUPPLIES

	256	306	356	456 / 506
1.MAIN BLADE (CLEANER)	100k	120k	125k	150k
2.SEPARATION FINGER (DRUM)	200k	240k	250k	300k
3.RECOVERY BLADE	300k	360k	375k	450k
4.DRUM	400k	480k	500k	600k
5.OZON FILTER	500k	600k	625k	750k
6.MAIN CHARGER NEEDLE	600k	720k	750k	900k
7.MAIN CHARGER GRID	700k	840k	875k	1050k
8.DEVELOPER MATERIAL	800k	960k	1000k	1200k
9.FUSER ROLLER	900k	1080k	1125k	1350k
10.PRESS ROLLER	1000k	1200k	1250k	1500k
11.SEPARATION FINGER (FUSER)				
12.TRANSFER ROLLER				

REPLACEMENT UNIT / CLEANING UNIT

	256	306	356	456 / 506
1.PROCESS UNIT	100k	120k	125k	150k
2.FUSER UNIT	200k	240k	250k	300k
1.CLEANER	300k	360k	375k	450k
2.SCANNER	400k	480k	500k	600k
3.BYPASS	500k	600k	625k	750k
4.ADU	600k	720k	750k	900k
5.CHARGER	700k	840k	875k	1050k
6.SLIT GLASS	800k	960k	1000k	1200k
7.FUSER	900k	1080k	1125k	1350k
8.DEVELOPER	1000k	1200k	1250k	1500k
9.PAPER FEED SECTION				
10.PFP				
11.ADF				
12.LCF				

e-STUDIO207L/257/307/357/457/507

MAINTENANCE CHECK LIST /
LISTE DE VERIFICATIÓN DENTRETIEN /
LISTE DER WARTUNQSPRÜFUNG /
LISTA DE CONTROL DE MANTENIMIENTO

e-STUDIO257/307/357/457/507

DATE	TECHNICIAN	COUNTER

REPLACEMENT PARTS AND SUPPLIES

Item	257 / 307 / 357 / 457 / 507									
	80k	160k	240k	320k	400k	480k	560k	640k	720k	800k
1.PICK UP ROLLER (1st CST.)										
2.FEED ROLLER (1st CST.)										
3.SEP ROLLER (1st CST.)										
4.PICK UP ROLLER (2nd CST.)										
5.FEED ROLLER (2nd CST.)										
6.SEP ROLLER (2nd CST.)										
7.PICK UP ROLLER (SFB)										
8.FEED ROLLER (SFB)										
9.SEP ROLLER (SFB)										
10.PICK UP ROLLER (LCF)										
11.FEED ROLLER (LCF)										
12.SEP ROLLER (LCF)										
13.PICK UP ROLLER (3rd CST.)										
14.FEED ROLLER (3rd CST.)										
15.SEP ROLLER (3rd CST.)										
16.PICK UP ROLLER (4th CST.)										
17.FEED ROLLER (4th CST.)										
18.SEP ROLLER (4th CST.)										

Item	257 / 307 / 357 / 457 / 507									
	120k	240k	360k	480k	600k	720k	840k	960k	1080k	1200k
1.PICK UP ROLLER (RADF)										
2.FEED ROLLER (RADF)										
3.SEP ROLLER (RADF)										

REPLACEMENT PARTS AND SUPPLIES

Item	257										307										357										457 / 507									
	100k	200k	300k	400k	500k	600k	700k	800k	900k	1000k	120k	240k	360k	480k	600k	720k	840k	960k	1080k	1200k	125k	250k	375k	500k	625k	750k	875k	1000k	1125k	1250k	150k	300k	450k	600k	750k	900k	1050k	1200k	1350k	1500k
1.MAIN BLADE (CLEANER)																																								
2.SEPARATION FINGER (DRUM)																																								
3.RECOVERY BLADE																																								
4.DRUM																																								
5.OZON FILTER																																								
6.MAIN CHARGER NEEDLE																																								
7.MAIN CHARGER GRID																																								
8.DEVELOPER MATERIAL																																								
9.FUSER ROLLER																																								
10.PRESS ROLLER																																								
11.SEPARATION FINGER (FUSER)																																								
12.TRANSFER ROLLER																																								

REPLACEMENT UNIT | CLEANING UNIT

Item	257										307										357										457 / 507									
	100k	200k	300k	400k	500k	600k	700k	800k	900k	1000k	120k	240k	360k	480k	600k	720k	840k	960k	1080k	1200k	125k	250k	375k	500k	625k	750k	875k	1000k	1125k	1250k	150k	300k	450k	600k	750k	900k	1050k	1200k	1350k	1500k
REPLACEMENT UNIT: 1.PROCESS UNIT																																								
2.FUSER UNIT																																								
CLEANING UNIT: 1.CLEANER																																								
2.SCANNER																																								
3.BYPASS																																								
4.ADU																																								
5.CHARGER																																								
6.SLIT GLASS																																								
7.FUSER																																								
8.DEVELOPER																																								
9.PAPER FEED SECTION																																								
10.PFP																																								
11.ADF																																								
12.LCF																																								

REVISION RECORD

Ver.06

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<tr><td>2-1 to 2-11</td><td>Specifications for the new models have been added.</td></tr>
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<tr><td>2-20</td><td>New options have been added.</td></tr>
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<tr><td>3-7</td><td>An electric parts layout for the new models has been added.</td></tr>
<tr><td>3-10</td><td>An electric parts layout for the new models has been added.</td></tr>
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<tr><td>3-65 to 3-67</td><td>A model information has been added.</td></tr>
<tr><td>3-69</td><td>A model information has been added.</td></tr>
<tr><td>3-71 to 3-79</td><td>A model information has been added.</td></tr>
<tr><td>3-80</td><td>A model information has been added.</td></tr>
<tr><td>3-81</td><td>A model information has been added.</td></tr>
<tr><td>3-83</td><td>A model information has been added.</td></tr>
<tr><td>3-86</td><td>A model information has been added.</td></tr>
<tr><td>3-88</td><td>An information for the new models has been added.</td></tr>
<tr><td>3-89</td><td>An information for the new models has been added.</td></tr>
<tr><td>3-90</td><td>A model information has been added.</td></tr>
<tr><td>3-91</td><td>An information for the new models has been added.</td></tr>
<tr><td>4-1</td><td>A model information has been added.</td></tr>
<tr><td>4-8 to 4-17</td><td>Procedures of disassembly and replacement of the covers for the new models have been added.</td></tr>
<tr><td>4-18</td><td>A model information has been added.</td></tr>
<tr><td>4-22 to 4-25</td><td>Procedures of disassembly and replacement of the control panel for the new models have been added.</td></tr>
<tr><td>4-26</td><td>A model information has been added.</td></tr>
<tr><td>4-45 to 4-57</td><td>Procedures of disassembly and replacement of the scanner for the new models have been added.</td></tr>
<tr><td>4-58</td><td>A model information has been added.</td></tr>
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4-78	New model names have been added.
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4-87	Procedures of disassembly and replacement of the process unit fan for the new models have been added.
4-91	New model names have been added.
4-93	New model names have been added.
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4-119	"Note" has been moved.
4-124	New model names have been added.
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4-178 to 4-190	Procedures of disassembly and replacement of the damp heater have been added.
5-1	An information for the new models has been added.
5-14	Notes have been added.
5-15	"Note" has been added.
5-23	A note has been added.
5-27	"Note" has been added.
6-9 to 6-11	Descriptions for the new models have been added.
6-13	Descriptions for the new models have been added.
6-15 to 6-18	Descriptions for the new models have been added.
6-23	A model information has been added.
6-25	Descriptions for the new models have been added.
6-26	Descriptions for the new models have been added.
6-27	A model information has been added.
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6-29	An adjustment procedure has been added.
6-31	A model information has been added.
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6-37	Descriptions for the new models have been added.
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6-41	Descriptions for the new models have been added.
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6-60	A model information has been added.
6-61	A model information has been added.
6-71	A model information has been added.
6-72	A model information has been added.
6-73	A model information has been added.
6-74	A model information has been added.
6-77	A model information has been added.
6-85	A model information has been added.
6-95	New model names have been added.
6-108	New model names have been added.
7-4	New model names have been added.
7-5	The illustration of the operational flow has been changed.
7-16	New model names have been added. The symbols given in the Replacement column have been changed.
7-17	Descriptions for the new models have been added. The symbols given in the Replacement column have been changed.
7-18	Descriptions for the new models have been added.
7-19	The symbols given in the Replacement column have been changed.
7-22	The symbols given in the Replacement column have been changed.
7-24	The symbols given in the Replacement column have been changed.
7-26	The symbols given in the Replacement column have been changed.
7-27	Notes have been added.
7-28	New model names have been added. The symbols given in the Replacement column have been changed.
7-29	The symbols given in the Replacement column have been changed.
7-30	The symbols given in the Replacement column have been changed.
7-31	The symbols given in the Replacement column have been changed.
7-34	New model names have been added. The symbols given in the Replacement column have been changed.
7-36	New model names have been added. The symbols given in the Replacement column have been changed.
7-40	Model names have been added. The symbols given in the Replacement column have been changed.
7-45	Model names have been added. The symbols given in the Replacement column have been changed.
7-50	PM kits for the new models have been added.
7-51	An information for the new models has been added.
7-53	A model information has been added.
7-54	"7.13 Machine Refreshing Checklist (e-STUDIO207L/257/307/357/457/507)" has been added.
8-9	Model names have been added.
8-10	Model names have been added.
8-11	Model names have been added.
8-12	Model names have been added.
8-13	Model names have been added.
8-14	Error codes C261 and C262 have been added.
8-15	Error codes C443, C445, C447, C449, C452 and C4B0 have been added. Model names have been added.
8-16	An error code C911 has been added. Model names have been added.
8-17	Model names have been added.
8-18	Model names have been added.

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Page	**Contents**
8-19	Model names have been added.
8-33	The title for chapter 8.2.5 has been changed from "TopAccess related error" to "TOSHIBA Remote monitoring system error".
8-35	An error code 6014 has been added.
8-50	Model names have been added.
8-51	Model names have been added.
8-72	Model names have been added.
8-90	Model names have been added.
8-92	Model names have been added.
8-93	Model names have been added.
8-95	Model names have been added.
8-96	Model names have been added.
8-98	Model names have been added.
8-99	Model names have been added.
8-100	Model names have been added.
8-101	Model names have been added.
8-102	Model names have been added.
8-103	Model names have been added.
8-104	Model names have been added.
8-105	Model names have been added.
8-107	Model names have been added.
8-109	Model names have been added.
8-110	Model names have been added.
8-111	Model names have been added.
8-112	Model names have been added.
8-113	Model names have been added.
8-114	Model names have been added.
8-115	Model names have been added.
8-116	Model names have been added.
8-117	Model names have been added.
8-118	Model names have been added.
8-119	Model names have been added.
8-120	Model names have been added.
8-128	The troubleshooting for C260 has been changed.
8-129	A troubleshooting for C260 for the new models has been added.
8-130	A troubleshooting for C261 have been added.
8-131	A troubleshooting for C262 have been added. Model names have been added.
8-133	A troubleshooting for C270 for the new models has been added.
8-134	A troubleshooting for C280 for the new models has been added. Model names have been added.
8-136	Model names have been added.
8-137	A troubleshooting for C290 for the new models has been added.
8-140	A troubleshooting for C911 for the new models has been added.
8-141	A troubleshooting for C411 has been added. A troubleshooting for C412 has been added.
8-144	A troubleshooting for C443 has been added. A troubleshooting for C445 has been added. A troubleshooting for C447 has been added.
8-145	A troubleshooting for C449 has been added.
8-146	A troubleshooting for C452 has been added.

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Page	**Contents**
8-147	A troubleshooting for C4B0 has been added.
8-149	Model names have been added.
8-150	Model names have been added.
8-152	Model names have been added.
8-153	Model names have been added.
8-155	Model names have been added.
8-156	Model names have been added.
8-157	Model names have been added.
8-158	Model names have been added.
8-160	Model names have been added.
8-161	Model names have been added.
8-162	Model names have been added.
8-163	Model names have been added.
8-165	Model names have been added.
8-166	Model names have been added.
8-167	Model names have been added.
8-168	Model names have been added.
8-169	Model names have been added.
8-170	Model names have been added.
8-171	Model names have been added.
8-172	Model names have been added.
8-173	Model names have been added.
8-174	Model names have been added.
8-176	Model names have been added.
8-178	Model names have been added.
8-179	Model names have been added.
8-180	Model names have been added.
8-181	Model names have been added.
8-185	Model names have been added.
8-186	Model names have been added.
8-187	Model names have been added.
8-189	Model names have been added.
8-190	Model names have been added.
8-191	Model names have been added.
8-218	Model names have been added.
8-264	A troubleshooting for 6014 has been added.
8-292	The troubleshooting of "Background fogging" has been changed.
8-294	Model names have been added.
8-297	Model names have been added.
8-299	Model names have been added.
8-312	Model names have been added.
8-316	"8.5.3 Error code ÅgM00Åh is displayed while updating firmware" has been added.
9-1	Model names have been added.
9-8 to 9-15	Procedures of disassembly and replacement of the PC boards for the new models have been added.
9-16	An explanation of the difference between the current and new models has been added.
9-19	Notes have been added.
9-28	A model information has been added.
9-29	A model information has been added.
9-31	A note has been added.

Ver. 06 <2014.04.17>	
Page	**Contents**
9-32	A model information has been added.
9-33	A model information has been added. A note has been added.
9-36	A model information has been added.
11-1	Model names have been added.
11-7 to 11-10	Procedures of firmware upgrading for the new models have been added.
11-11	Model names have been added.
11-13 to 11-14	Procedures of firmware upgrading for the new models have been added.
11-15	Model names have been added.
11-17	Procedures of firmware upgrading for the new models have been added.
11-18	Explanations have been added.
11-20	An explanation for the M00 error has been added.
11-21	Descriptions for the punch firmware update errors have been added.
11-22	Descriptions for the finisher firmware update errors have been added. Descriptions for the saddle firmware update errors have been added.
11-23	The explanation about the change of the LCD screen has been altered.
11-24	The explanation about the change of the LCD screen has been altered.
11-25	Model names have been added.
11-27	Procedures of firmware upgrading for the new models have been added.
11-30	Procedures of firmware upgrading for the new models have been added.
11-34	Explanations for the firmware upgrading jig have been added.
11-35	Explanations for the firmware upgrading jig have been added.
11-38	Procedures of firmware upgrading for the new models have been added.
11-39	Procedures of firmware upgrading for the new models have been added.
11-44	A model information has been added.
11-46	A model information has been added.
11-77	A model information has been added.
11-78 to 11-80	Procedures of firmware upgrading for the new models have been added.
11-82	A model information has been added.
12-1	The note has been deleted.
12-2	The explanation about the filename has been changed.
14-1	Model names have been added.
14-2	An AC wire harness diagram for the new models has been added.
14-7 to 14-10	A DC wire harness diagram for the new models has been added.
1068	A model information has been added.
1131	Descriptions for the 08-2002 have been changeed.
1287 to 1341	05 codes for the new models have been added.
1342 to 1503	05 codes for the new models have been added.
1505	The maintenance check list of a model has been added.

Ver.05

<table>
<tr><td colspan="2">Ver. 05 <2014.01.10></td></tr>
<tr><td>Page</td><td>Contents</td></tr>
<tr><td>Trademarks</td><td>Windows 8, Windows Server 2003, Windows Server 2008, and Windows Server 2012 have been added.
The trademark sentence for Microsoft has been changed.
The official company name of "Apple" has been corrected.</td></tr>
<tr><td>2-9</td><td>The supported OS has been corrected.</td></tr>
<tr><td>5-1</td><td>The reference chapter for the self-diagnosis code has been corrected.</td></tr>
<tr><td>5-5</td><td>The reference chapter for the self-diagnosis code has been corrected.</td></tr>
<tr><td>5-30</td><td>The descriptions for (05) adjustment value difference, (08) setting value difference, and Job log/Message log have been added.</td></tr>
<tr><td>5-31</td><td>The CSV file names for (05) adjustment value difference, (08) setting value difference, and Job log/Message log have been added.</td></tr>
<tr><td>5-32</td><td>The descriptions for (05) adjustment value difference, (08) setting value difference, and Job log/Message log have been added.</td></tr>
<tr><td>5-33</td><td>The reference chapter for the self-diagnosis code has been corrected.</td></tr>
<tr><td>5-34</td><td>The reference chapter for the self-diagnosis code has been corrected.</td></tr>
<tr><td>5-35</td><td>The format of "PM SUPPORT CODE LIST" has been corrected.</td></tr>
<tr><td>5-36</td><td>The format of "PIXEL COUNTER CODE LIST (TONER CARTRIDGE)" has been corrected.</td></tr>
<tr><td>5-37</td><td>The format of "PIXEL COUNTER CODE LIST (SERVICEMAN)" has been corrected.</td></tr>
<tr><td>5-41</td><td>The format of "VERSION LIST" has been corrected.</td></tr>
<tr><td>5-42</td><td>The format of "TOTAL COUNTER LIST" has been corrected.</td></tr>
<tr><td>5-43</td><td>The list for (05) adjustment value/(08) setting value difference has been added.</td></tr>
<tr><td>5-52</td><td>08-6588 has been deleted.</td></tr>
<tr><td>6-27</td><td>The description has been changed.</td></tr>
<tr><td>6-40</td><td>05-9107 has been deleted.</td></tr>
<tr><td>7-5</td><td>The format of "PM SUPPORT CODE LIST" has been corrected.</td></tr>
<tr><td>7-16</td><td>08-6212, 08-6218, 08-6220, and 08-6222 have been deleted.</td></tr>
<tr><td>8-36</td><td>5C22 has been deleted.</td></tr>
<tr><td>8-37</td><td>Error code 6013 has been added.</td></tr>
<tr><td>8-255</td><td>5C22 has been deleted.</td></tr>
<tr><td>8-256</td><td>The troubleshooting for 6013 has been added.</td></tr>
<tr><td>8-286</td><td>08-2172 is changed to 08-2142.</td></tr>
<tr><td>8-307</td><td>The troubleshooting for H04 has been added.</td></tr>
<tr><td>9-17</td><td>The contents of "Precautions and Procedures when replacing the SYS board" has been changed.</td></tr>
<tr><td>9-18</td><td>The contents of "Precautions and Procedures when replacing the SYS board" has been changed.</td></tr>
<tr><td>9-19</td><td>The contents of "Precautions and Procedures when replacing the SYS board" has been changed.</td></tr>
<tr><td>9-20</td><td>The contents of "Precautions and Procedures when replacing the SYS board" has been changed.</td></tr>
<tr><td>9-22</td><td>The reference chapter for the self-diagnosis code has been corrected.</td></tr>
<tr><td>10-1</td><td>The description has been changed.</td></tr>
<tr><td>10-11</td><td>The description has been changed.</td></tr>
<tr><td>10-13</td><td>The toner remaining information has been added.</td></tr>
<tr><td>10-15</td><td>The toner remaining information has been added.</td></tr>
<tr><td>10-16</td><td>The toner remaining information has been added.</td></tr>
<tr><td>10-26</td><td>The toner remaining information has been added.</td></tr>
<tr><td>10-28</td><td>The toner remaining information has been added.</td></tr>
<tr><td>10-29</td><td>The toner remaining information has been added.</td></tr>
<tr><td>10-31</td><td>The toner remaining information has been added.</td></tr>
</table>

Ver. 05 <2014.01.10>	
Page	**Contents**
10-32	The toner remaining information has been added.
10-37	The toner remaining information has been added.
10-38	The toner remaining information has been added.
11-13	Note for the "Invalid Signature" error has been added. Error code H04 has been added.
11-29	Error code H04 has been added.
13-4	The value "5" has been added for 08-9016.
Chapter 15	05-3009 and 9149 have been added. The acceptable value of 08-3623 has been changed. 08-3637, 3638, 3639, 3644, 6088-0, -1, 6089-0, -1, 6090, 6091, 8642, 8643, 8644, 8645, 8646, 8647, 8648, 8649, 8650, 8651, 8652, 8653, 8654, 8655, 8656, 8657, 8658, 8659, 8660, 8661, 8662, 8663, 8664-0, -1, -2, 8667, 8668, 8671-0, -1, -2, 8672-0, -1, -2, 8673, 8674, 8727, 8728-0, -1, -2, -3, -4, -6, -7, -8, -9, -10, -11, -12, -13, 8729, 8730, 8735, 8736, 8754, 8755, 8756-0, -1, 8758, 8762-0, 8771, 8774, 8781, 8785, 8786-0, -1, 8788, 8789, 8790, 8791, 8792, 8826, 8827, 8831, 9255, and 9963 have been added. The contents of 08-3864, 4105, 4131, 8981, 9022 have been changed. The item, details, and contents of 08-6080 have been changed. The sub element, item, subitem, and details of 08-6081-0, -1, 6084, 6085-0, -1 have been changed. The default values of 08-8520 and 8745 have been changed. The acceptable values and contents of 08-9016 and 9017 have been changed. The details of 08-9398 have been changed.

Ver.04

Ver. 04 <2013.10.3>	
Page	**Contents**
GENERAL PRECAUTIONS	"General operations" has been added.
2-3	The description of warm-up time has been added.
3-31	The descriptions of the hibernation function have been added.
5-19	The descriptions of operations have been changed.
5-22	The descriptions of operations have been changed.
5-24	The step has been changed. The image has been changed.
5-25	The note has been added.
5-35	The illustration has been changed.
5-36	The illustration has been changed.
5-37	The illustration has been changed.
5-38	The illustration has been changed.
5-39	The illustration has been changed.
5-40	The illustration has been changed.
5-41	The illustration has been changed.
5-42	The illustration has been changed.
5-50	The illustration has been changed.
5-51	The illustration has been changed.
6-33	The table has been changed.
6-72	The step has been changed.
6-75	The step has been changed.
7-4	The codes have been added.
7-6	The illustration has been changed.
7-11	The illustration has been changed.
7-14	The codes have been changed.
7-51	The PM kits have been added. The column of Part name has been deleted.
8-3	The description has been added.

Ver. 04 <2013.10.3>	
Page	**Contents**
8-21	Error code of F101_4 to F101_9 have been added
8-22	Error code of F106_6 and F106_UNDEF have been added.
8-33	The error code 4242 has been added.
8-35	Error code of 5010 to 50FF have been added
8-44	The example and code have been changed.
8-45	The example and code have been changed.
8-130	Descriptions of C260 have been changed.
8-131	Descriptions of C270 and C280 have been changed.
8-132	Descriptions of C290 have been changed.
8-133	Descriptions of C290 have been changed.
8-138	The illustration has been changed.
8-140	The measures for C550 have been changed.
8-186	The descriptions of F101_0 to F101_3 have been changed.
8-187	F101_4 has been added..
8-188	F101_5 has been added.
8-189	F101_6 has been added.
8-190	F101_7 has been added.
8-191	F101_8 has been added.
8-192	F101_9 has been added.
8-195	F106_6 to F106_UNDEF have been added.
8-196	F106_6 to F106_UNDEF have been added.
8-247	The troubleshooting for 4241 and 4242 has been added.
8-251	The troubleshooting for 5010 and 5014 has been added.
8-252	The troubleshooting for 5015 and 5019 has been added.
8-253	The troubleshooting for 501A and 50FF has been added.
9-14	The step has been changed.
Appendix	The default value of 05-2382 has been changed. 05-4150-0, -1, -2, and 9107 have been deleted. The contents of 05-9043 have been changed. The default values of 08-2847, 2848, 6368-1, -4, 8523, and 9486 have been changed. The contents of 08-3500, 3501, 3502, 4016-0, -1, and 9987 have been changed. 08-3509, 3636, 5000, 6023-2, 6024-8, 6025-0, 6026-1, 6043-7, 6044-8, 6045-0, 6050-1, 6051-1Å`25, 8737, 9482, 9483, 9484, and 9485 have been deleted. The acceptable value and contents of 08-3724, 5155, and 9307 have been changed. 08-5156-3, 5810, 5811, 6820-0, -1, 6823-0, -1, 6852-0Å`2, 8521, 8623-0, 8628, 8640, 8641, 8761, 8775, 8776, 8777, 8778, 8779, 8780, 8782, 8783, 8825, 8942, and 9599 have been added. The details of 08-9398 have been changed.

Ver.03

Ver. 03 <2012.07.06>	
Page	**Contents**
2-13	"2.3 System List" has been corrected.
3-33	The part name has been changed from "LED driving PC board" to "LED board". (Uniform terminology)
3-34	The part name has been changed from "LED driving PC board" to "LED board". (Uniform terminology)
3-37	The part name has been changed from "LED driving PC board" to "LED board". (Uniform terminology)
4-31	The part name has been changed from "LED driving PC board" to "LED board". (Uniform terminology)
5-52	"5.15 PM support mode related code" has been deleted.
7-51	The part name of the ozone filter has been corrected.

Ver. 03 <2012.07.06>	
Page	**Contents**
8-3	"8.1.2 Collection of debug logs with a USB device" has been added.
8-19	F101_0 to F101_3 have been added and the description of F101 has been corrected. The descriptions of F100_0 to F100_2 have been corrected.
8-20	F109_5 and F109_6 have been added. The descriptions of F121 and F122 have been corrected. F901_1 has been added. F131 has been added.
8-31	4F10 has been added.
8-181	Descriptions of F101_0 and F101_1 have been added. Descriptions of F101_2 and F101_3 have been added. F101 has been added.
8-182	F101 has been removed.
8-187	The descriptions of F109_3 and F109_4 have been corrected.
8-189	Descriptions of F109_5 and F109_6 have been added.
8-193	The descriptions of F121 and F122 have been corrected.
8-194	A description of F131 has been added.
8-199	F901_1 has been added.
8-238	A description of 4F10 has been added.
9-1	"9.1.2 Hard disk (HDD)" has been corrected.
9-4	A note has been added to 9.1.3. A note has been added to 9.1.4.
9-9	Steps 6 and 7 have been added to 9.2.1.
9-12	A note has been added to 9.2.3.
9-17	"9.2.4 Precautions and Procedures when replacing the SYS board" has been changed.
9-18	"[E] Restore ADI key" has been added.
9-20	"Note" has been added to "[I] Check ROM versions".
9-21	The notes in 9.2.5 have been changed.
9-22	"9.2.7 Procedures when replacing the SLG board" has been corrected.
9-23	The figure in 9.2.8 has been corrected and a "Note" has been added.
9-25	"[G] Backup ADI key" has been added.
9-26	The procedures of "[J] Initialize SRAM board" have been changed.
9-33	The description of 9.3.1 has been corrected and a description of 9.3.2 has been added.
11-34	The procedures of "11.4.2 System ROM" have been corrected.
11-35	"947" has been changed to "9030".
Appendix	08-6087, 6250-0 to 8, 6251, 6258-0 to 8, 6259, 6272-0 to 8, 6273, 6274-0 to 8, 6275, 6282-0 to 8, 6283, 6298-0 to 8, 6299, 6300-0 to 8, 6301, 6314-0 to 8, 6315, 6346-0 to 8, 6347, 6350-0 to 8, 6351, 6368-0 to 8, 6369, 6382-0 to 2,-8, 6383, 6384-0 to 2,-8, 6385, 6386-0 to 2,-8, 6387, 6390-0 to 2,-8, 6391, 6392-0 to 2,-8, 6393, 6394-0 to 2,-8, 6395, 6398-0 to 2,-8, 6399, 6400-0 to 2,-8, 6401, 6402-0 to 2,-8, 6403, 6406-0 to 2,-8, 6407, 6408-0 to 2,-8, 6409, 6410-0 to 2,-8, 6411, 6412-0 to 2,-8, 6413, 6414-0 to 2,-8, 6415, 6416-0 to 2,-8, 6417, 6420-0 to 2,-8, 6421, 6422-0 to 2,-8, 6423, 6424-0 to 2,-8, 6425, 6428-0 to 2,-8, 6429, 6430-0 to 2,-8, 6431, 6436-0 to 8, 6437, 8303, 8624, 8631, 8713, 8738, 8744, 8745, 8746, 8748, 8749, 8824, 8952, 9294, 9954, 9985 have been added. The default values of 08-9484, 9485, 9487, 9614, 9615, 9616, 9617, 9618, 9619, 9620, 9730, 3631 have been changed. The acceptable value and contents of 08-9132 have been changed. The acceptable values of 08-3500, 3501, 3502, 3503 have been changed. The contents of 08-4548 have been changed.

Ver.02

Ver. 02 <2012.04.20>	
Page	**Contents**
Cover	e-STUDIO506 has been added.
GENERAL PRECAUTIONS	e-STUDIO506 has been added.
1-1	e-STUDIO506 has been added.

Ver. 02 <2012.04.20>	
Page	**Contents**
2-1	The notes text for "2.1 Specifications" has been deleted. The information for the scanning light source has been changed.
2-2	e-STUDIO506 has been added.
2-3	e-STUDIO506 has been added.
2-4	The first copy time for the e-STUDIO506 has been added.
2-5	The copy speed table for the e-STUDIO506 has been added.
2-6	The copy speed for thick paper for the e-STUDIO506 has been added to the tables.
2-9	The system copy speed for the e-STUDIO506 has been added to the tables. "Black mode" has been added.
2-12	"Control panel stopper" has been deleted from the table in "2.2 Accessories".
2-14	e-STUDIO506 has been added. "Bluetooth module GN-2020" has been deleted from the system list.
2-16	e-STUDIO506 has been added.
3-3	In A16, "Inverter board" has been changed to "Inverter board / LED board".
3-4	In Fig. 3-3, "INV" has been changed to "INV / LEDB".
3-8	e-STUDIO506 has been added.
3-10	e-STUDIO506 has been added.
3-13	e-STUDIO506 has been added.
3-14	e-STUDIO506 has been added. "Main switch" has been changed to "Main power switch".
3-15	e-STUDIO506 has been added.
3-16	e-STUDIO506 has been added. The description of the function of the EXP has been changed.
3-17	e-STUDIO506 has been added.
3-18	The description of the function of the INV has been changed. In "3.3.9 Others", the item for LEDB has been added.
3-19	In Fig. 3-12, "Xenon lamp" has been changed to "Xenon lamp / LED".
3-20	e-STUDIO506 has been added.
3-21	e-STUDIO506 has been added.
3-26	"Main switch" has been changed to "Main power switch".
3-29	e-STUDIO506 has been added.
3-33	In "3.8.1 General Description", the contents have been changed.
3-34	"Xenon lamp (17W)" has been changed to "Xenon lamp / LED". "Lamp inverter board (INV)" has been changed to "Lamp inverter board (INV) / LED board (LEDB)". In "3.8.2 Construction", the table for "CCD sensor and exposure lamp combinations" has been added.
3-35	The description of the exposure lamp (EXP) and reflector have been changed.
3-37	"8. Lamp inverter board (INV)" has been changed to "8. Lamp inverter board (INV) / LED board (LEDB)".
3-38	The description of the scanning speed has been added.
3-56	e-STUDIO506 has been added.
3-57	e-STUDIO506 has been added.
3-58	e-STUDIO506 has been added.
3-61	e-STUDIO506 has been added.
3-63	e-STUDIO506 has been added.
3-64	e-STUDIO506 has been added.
3-65	e-STUDIO506 has been added.
3-67	"Main switch" has been changed to "Main power switch". e-STUDIO506 has been added.
3-68	e-STUDIO506 has been added.
3-69	e-STUDIO506 has been added.

Ver. 02 <2012.04.20>	
Page	**Contents**
3-70	e-STUDIO506 has been added.
3-71	e-STUDIO506 has been added.
3-72	e-STUDIO506 has been added.
3-74	e-STUDIO506 has been added.
3-76	"Main switch" has been changed to "Main power switch".
3-77	"Main switch" has been changed to "Main power switch".
3-78	"Main switch" has been changed to "Main power switch".
3-81	"Main switch" has been changed to "Main power switch". The description of the parts for the SLG has been changed. e-STUDIO506 has been added.
4-6	e-STUDIO506 has been added.
4-16	"[A] Xenon lamp" has been added.
4-18	"[B] LED" and the disassembly and replacement procedures have been added.
4-19	"[A] 4-line CCD" has been added.
4-21	The contents of Note 2 have been changed.
4-22	"[B] 3-line CCD" and the disassembly and replacement procedures have been added.
4-26	The contents of step (7) in the disassembly and replacement procedures for the carriage-1 have been changed.
4-31	The disassembly and replacement procedures in "4.3.10 LED driving PC board (LEDB)" have been added.
4-39	e-STUDIO506 has been added.
4-50	e-STUDIO506 has been added.
4-58	e-STUDIO506 has been added.
4-62	e-STUDIO506 has been added.
4-64	e-STUDIO506 has been added.
4-76	"(Refer to Service Handbook Chap. 3)" has been deleted from the Notes. e-STUDIO506 has been added.
4-87	The contents of Note 2 have been changed.
4-90	The note has been added. The Fig.4-256 have been changed.
4-95	e-STUDIO506 has been added.
4-99	e-STUDIO506 has been added.
4-100	e-STUDIO506 has been added.
4-101	e-STUDIO506 has been added.
4-102	e-STUDIO506 has been added.
4-103	e-STUDIO506 has been added.
4-134	e-STUDIO506 has been added.
5-1	In [A], "Refer to "Appendix" for the codes in Test mode (03), Test print mode (04), Adjustment mode (05), and Setting mode (08)." has been added.
5-40	"Main switch" has been changed to "Main power switch".
5-53	In the Remarks, the default values for the e-STUDIO506 have been added.
5-54	In the Remarks, the default values for the e-STUDIO506 have been added.
5-55	In the Remarks, the default values for the e-STUDIO506 have been added.
5-56	In the Remarks, the default values for the e-STUDIO506 have been added.
6-48	e-STUDIO506 has been added.
6-55	The contents of "[A] Replacing the lens unit" have been changed.
7-5	The preventive maintenance timing for the e-STUDIO506 has been added.
7-6	In Fig. 7-2, the operational flow has been changed. "* When the authentication screen appears, press [OK]. (Enter the password, if one has been set.)" has been added.
7-17	The cleaning and lubricating timing for the e-STUDIO506 has been added to the Notes. e-STUDIO506 has been added.
7-20	The replacement cycle for the e-STUDIO506 has been added.

Ver. 02 <2012.04.20>	
Page	**Contents**
7-23	The replacement cycle for the e-STUDIO506 has been added.
7-25	The replacement cycle for the e-STUDIO506 has been added.
7-27	The replacement cycle for the e-STUDIO506 has been added.
7-29	e-STUDIO506 has been added.
7-31	The replacement cycle for the e-STUDIO506 has been added.
7-32	The replacement cycle for the e-STUDIO506 has been added.
7-51	e-STUDIO506 has been added. "FR-KIT-4530" has been changed to "FR-KIT-4590". "SCRAPER-470" has been changed to "SCRAPER-16X". "FR-KIT-3000" has been changed to "FR-KIT-3020".
7-52	e-STUDIO506 has been added.
7-54	The overhaul timing for the e-STUDIO506 has been added.
8-19	The error code F140 has been added.
8-47	e-STUDIO506 has been added.
8-54	"CN305" has been changed to "CN316".
8-69	e-STUDIO506 has been added.
8-125	"Inverter" has been changed to "Inverter / LED board".
8-177	e-STUDIO506 has been added.
8-183	The contents of the troubleshooting for [F109_0] have been changed.
8-188	The troubleshooting for [F140] has been added.
8-265	e-STUDIO506 has been added.
8-267	e-STUDIO506 has been added.
8-269	"inverter" has been changed to "inverter / LED board".
8-282	e-STUDIO506 has been added.
9-3	e-STUDIO506 has been added.
9-4	"Main switch" has been changed to "Main power switch". e-STUDIO506 has been added.
9-5	e-STUDIO506 has been added.
9-25	In "[L] Enable HDD encryption", the contents of step (3) have been changed.
11-1	"Engine ROM" has been added.
11-2	"Engine ROM" has been added.
11-7	e-STUDIO506 has been added.
11-11	e-STUDIO506 has been added.
11-15	"Main switch" has been changed to "Main power switch".
11-30	"Engine ROM" has been added.
11-33	"Engine ROM" has been added.
11-35	"Main switch" has been changed to "Main power switch".
11-36	"Engine ROM" has been added.
11-39	The Notes text has been deleted. "* When the authentication screen appears, press [OK]. (Enter the password, if one has been set.)" has been added.
11-41	"Since the update data for the MR-3021 and the MR-3022 differ, be sure to install the correct." has been added.
11-43	The illustration for step (1) has been deleted.
11-45	The illustration for step (1) has been deleted.
11-49	In "[A] Update Procedure", the illustration for step (1) has been deleted.
11-51	In "[A] Checking the hole punch position", the illustrations for step (2) have been changed.
11-52	In "[B] Update Procedure", the contents and the illustrations for step (3) have been changed.
11-57	The illustration for step (1) has been deleted.
11-62	In "[A] Update Procedure", the contents of step (16) have been changed.

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Page	**Contents**
11-63	In "[A] Update Procedure", the illustration for step (1) has been deleted. In "[A] Update Procedure", the contents of step (2) have been changed.
11-64	In "[A] Update Procedure", the illustration for step (5) has been changed.
11-65	In "[A] Update Procedure", the contents and the illustration for step (6) have been changed.
11-66	In "[A] Update Procedure", the contents of step (11) have been changed. In "[A] Update Procedure", the contents of step (16) have been changed.
11-67	In "[A] Update Procedure", the illustration for step (1) has been deleted.
11-72	"Main switch" has been changed to "Main power switch".
14-1	"Main switch" has been changed to "Main power switch". e-STUDIO506 has been added.
14-4	In "[A] Scanner unit, control panel", the illustration has been changed. "Main switch" has been changed to "Main power switch". In "Others", the item for LEDB has been added.
14-5	e-STUDIO506 has been added.
14-6	e-STUDIO506 has been added. In "[A] Scanner unit, control panel", the illustration has been changed. "Main switch" has been changed to "Main power switch". In "Others", the item for LEDB has been added.
Appendix	e-STUDIO506 has been added. The default values of 05-4100-0 to 2, 4101-0 to 2, 4108-0 to 2, 4109-0 to 2, 4111, 4115-0 to 5, 4116-0 to 2, 4117-0 to 2, 4118-0 to 2, and 4119 have been changed. 08-8900-0 to 3 have been added.

TOSHIBA