

SERVICE HANDBOOK

MULTIFUNCTIONAL DIGITAL SYSTEMS e-Studio2001/230/2301/280 e-Studio2021/232/282 e-Studio2031/233/283



Model: DP-2020/2050/2320/2330/2340/2820/2830/2840 Publish Date: June 2004 File No. SHE040003U0 R04022143002-TTEC Ver21_2010-06

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GENERAL PRECAUTIONS REGARDING THE SERVICE FOR e-STUDIO200L/202L/203L/230/230L/232/233/280/282/283 SERIES

The installation and service should 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 75 kg (165.34 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.

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, 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) 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 burnout. Do not allow a short-circuit or do not use the parts not recommended by Toshiba TEC Corporation.

4) 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.

5) Disposal of the Equipment, Supplies, Packing Materials, Used Batteries and IC-RAMs

- 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.

CONTENTS

1.1 Specifications. 1-1 1.2 Accessories 1-6 1.3 Options 1-7 1.3.1 e-STUDIO20L/230/230L/280/280S 1-7 1.3.2 e-STUDIO20L/230/230L/280/280S 1-10 1.4.1 e-STUDIO202L/232/232S/282/282S 1-10 1.4.1 e-STUDIO202L/230/230L/280/280S 1-10 1.4.3 STUDIO200L/230/230L/280/280S 1-11 1.5 System List 1-11 1.5 e-STUDIO20L/230/230L/280/280S 1-11 1.5 e-STUDIO20L/230/230L/280/283S 1-17 2.1 Error in Internet FAX / Scanning Function 2-1 2.1 Iror Code List. 2-1 2.1 Prior in Internet FAX / Scanning Function 2-20 2.2 Self-diagnosis Modes 2-23 2.2.1 Iput check (Test mode 03) (e-STUDIO200L/230/230L/280) 2-44	1.	SPE	ECIFICATIONS / ACCESSORIES / OPTIONS / SUPPLIES	
1.2 Accessories 1-6 1.3 Options 1-7 1.3.1 e-STUDIO200L/230/230L/280/280S 1-7 1.3.2 e-STUDIO200L/230/230L/280/280S 1-10 1.4 supplies 1-10 1.4.1 e-STUDIO200L/230/230L/280/280S 1-10 1.4.2 e-STUDIO200L/230/230L/280/280S 1-10 1.4.3 STUDIO200L/230/230L/280/280S 1-11 1.5 System List 1-11 1.5.2 e-STUDIO200L/230/232/232/232/282/282/283/283S 1-11 1.5.2 e-STUDIO202L/203/232/232/232/282/282/283/283S 1-11 1.5.2 e-STUDIO202L/203/232/232/232/282/282/283/283S 1-17 2.1 Error Code List 2-1 2-1 2.1.1 Jam 2-1 2-1 2.1.2 Service call 2-1 2-1 2.1.3 Error in Internet FAX / Scanning Function 2-10 2.1.4 Printer function error 2-23 2.2.5 Erd(riagnosis Modes 2-23 2.2.1 Input check (Test mode 03) (e-STUDIO200L/230/230L/280) 2-44 2.2.4 Test print mode (test mode 03) </td <td></td> <td>1.1</td> <td>Specifications</td> <td> 1-1</td>		1.1	Specifications	1-1
1.3 Options. 1.7 1.3.1 e-STUDIO200L/230/230L/280/280S 1.7 1.3.2 e-STUDIO200L/230/230L/280/280S 1.4 1.4 Supplies 1.10 1.4.1 e-STUDIO200L/230/230L/280/280S 1.10 1.4.1 e-STUDIO200L/230/230L/280/280S 1.10 1.4.2 e-STUDIO200L/230/230L/280/280S 1.11 1.5.5 System List 1.11 1.5.6 System List 1.11 1.5.7 e-STUDIO200L/230/230L/280/280S 1.11 1.5 System List 1.11 1.5 e-STUDIO200L/230/230L/280/280S 1.11 1.5 e-STUDIO200L/230/230L/280/280S 1.11 1.5 System List 2.1 2.1 Error Code List 2.1 2.1.1 Jam 2.1 2.7 2.1.2 Service call 2.7 2.1.3 Error in Internet FAX / Scanning Function 2.20 2.2 Self-diagnosis Modes 2.32 2.2.1 Input check (Test mode 03) (e-STUDIO200L/230/230L/280) 2.32 2.2.3 Output check (Test mode 03)		1.2	Accessories	1-6
1.3.1 e-STUDIO2001/230/230/280/280S 1-7 1.3.2 e-STUDIO2021/230/230/280/280S 1-10 1.4.1 e-STUDIO201/230/230/280/280S 1-10 1.4.2 e-STUDIO2021/233/283/283S 1-10 1.4.3 STUDIO2021/233/283/283S 1-10 1.5.5 ystem List 1-11 1.5.1 e-STUDIO2021/233/283/283S 1-11 1.5.2 e-STUDIO2021/233/283/283/283/283 1-11 1.5.2 e-STUDIO2021/233/283/283/282/2825/283/283/283 1-11 1.5.2 e-STUDIO2021/233/283/283/283/283/283/283 1-11 1.5.2 e-STUDIO2021/233/283/283/283/283/283/283/283/283/283		1.3	Options	
1.3.2 e-STUDIO2021/203L/232/232S/233/282/2825/283/2835 1-10 1.4.1 e-STUDIO200L/230/230L/280/280S 1-10 1.4.2 e-STUDIO200L/232/232S/282/282/282 1-10 1.4.3 STUDIO200L/230/230L/280/280S 1-11 1.5 System List 1-11 1.5.2 e-STUDIO200L/230/230L/280/280S 1-11 1.5.2 e-STUDIO200L/230/230L/280/280S 1-11 1.5.2 e-STUDIO200L/230/230L/280/280S 1-11 1.5.2 e-STUDIO200L/230/230L/280/280S 1-11 1.5.2 e-STUDIO200L/230/230L/280/283S 1-17 2.1 Error code List 2-1 2.1.1 Jam 2-1 2.1 2.1.2 Service call 2-7 2.1.3 Error in Internet FAX / Scanning Function 2-10 2.1.4 Printer function error 2-20 2.2.1 Input check (Test mode 03) (e-STUDIO200L/230/230L/280) 2-25 2.2.2 Input check (Test mode 03) (e-STUDIO200L/230/230L/280) 2-44 2.2.5 Adjustment mode (05) (e-STUDIO200L/230/230L/280) 2-44 2.2.6 Adjustment mode (06) (e-STUDIO200L/230/230L/280) 2			1.3.1 e-STUDIO200L/230/230L/280/280S	1-7
1.4 Supplies 1-10 1.4.1 e-STUDIO2001/230/2301/280/280S 1-10 1.4.2 e-STUDIO2031/233/283/283S 1-10 1.4.3 STUDIO2031/233/283/283S 1-10 1.5 System List 1-11 1.5.1 e-STUDIO2001/230/2301/280/280S 1-11 1.5.2 e-STUDIO2001/230/2301/280/280S 1-11 1.5.2 e-STUDIO2001/230/2301/280/280S 1-11 1.5.2 e-STUDIO2001/230/2301/280/280S 1-11 2.1 Error Code List 2-1 2.1 Error Code List 2-1 2.1.3 Error in Internet FAX / Scanning Function 2-10 2.1.4 Printer function error 2-23 2.2.1 Input check (Test mode 03) (e-STUDIO2001/230/2301/280) 2-24 2.2.3 Output check (Test mode 03) (e-STUDIO2001/230/2301/280) 2-44 2.2.4 Test print mode (05) (e-STUDIO2001/230/2301/280) 2-44 2.2.5 Adjustment mode (05) (e-STUDIO2001/230/2301/280) 2-44 2.2.6 Adjustment mode (05) (e-STUDIO2001/230/2301/280) 2-44 2.2.7 Setting mode (08) (e-STUDIO2001/230/2301/280) 2-244			1.3.2 e-STUDIO202L/203L/232/232S/233/282/282S/283/283S	1-8
1.4.1 e-STUDIO200L/230/23S/282/282 1-10 1.4.3 STUDIO202L/230/23S/282/282 1-10 1.4.3 STUDIO203L/233/283/283S 1-10 1.5 System List 1-11 1.5.1 e-STUDIO200L/230/230L/280/280S 1-11 1.5.2 e-STUDIO202L/203L/232/232/232/282S/283/283S 1-17 2.5 ERROR CODE AND SELF-DIAGNOSTIC MODE 2-1 2.1 Error Code List 2-1 2.1.1 Jam 2-1 2.1.2 Service call 2-7 2.1.3 Error in Internet FAX / Scanning Function 2-10 2.1.4 Printer function error 2-20 2.2 Self-diagnosis Modes 2-23 2.2.1 Input check (Test mode 03) (e-STUDIO200L/230/230L/280) 2-24 2.2.1 Input check (Test mode 04) 2-43 2.2.2 Selting mode (05) (e-STUDIO200L/230/230L/280) 2-44 2.2.6 Adjustment mode (05) (e-STUDIO200L/230/230L/280) 2-44 2.2.6 Adjustment mode (05) (e-STUDIO200L/230/230L/280) 2-44 2.2.6 Adjustment mode (05) (e-STUDIO202L/230L/232/232/282/283) 2-64 <		1.4	Supplies	
1.4.2 e-STUDIO202L/232/232/282/282S 1-10 1.4.3 STUDIO202L/230/230L/280/280S 1-11 1.5.1 e-STUDIO202L/230/232/232/232/232/282/282/283/283S 1-17 2.5 e-STUDIO202L/203L/232/232/232/232/282/282/283/283S 1-17 2.5 e-STUDIO202L/203L/232/232/232/232/282/283/283S 1-17 2.1 ErROR CODE AND SELF-DIAGNOSTIC MODE 2-1 2.1 Jam. 2-1 2.1.1 Jam. 2-1 2.1.2 Service call 2-7 2.1.3 Error in Internet FAX / Scanning Function. 2-10 2.1.4 Printer function error. 2-20 2.2 Set/fediagnosis Modes 2-23 2.2.1 Input check (Test mode 03) (e-STUDIO200L/230/230L/280) 2-44 2.2.3 Output check (test mode 04) 2-43 2.2.4 Edity ment mode (05) (e-STUDIO200L/230/230L/280) 2-44 2.2.5 Adjustment mode (05) (e-STUDIO200L/230/230L/280) 2-44 2.2.6 Adjustment mode (05) (e-STUDIO200L/230/230L/280) 2-44 2.2.7 Setting mode (08) (e-STUDIO202L/203L/232/233/282/283) 2-64 2.2.9 Pixel counter.			1.4.1 e-STUDIO200L/230/230L/280/280S	
1.4.3 STUDIO203L/233/283/2835 1-10 1.5 System List 1-11 1.5.1 e-STUDIO200L/230/230L/280/2805 1-11 1.5.2 e-STUDIO200L/230/232/232/232/282/282/283/2835 1-17 2.1 ERROR CODE AND SELF-DIAGNOSTIC MODE 2-1 2.1.1 Jam. 2-1 2.1.2 Service call 2-7 2.1.3 Error in Internet FAX / Scanning Function. 2-10 2.1.4 Printer function error. 2-20 2.2 Self-diagnosis Modes 2-23 2.2.1 Input check (Test mode 03) (e-STUDIO200L/230/230L/280). 2-25 2.2.2 Input check (Test mode 03) (e-STUDIO200L/230/230L/280). 2-44 2.2.6 Adjustment mode (05) (e-STUDIO200L/230/230L/280). 2-44 2.2.6 Adjustment mode (05) (e-STUDIO200L/230/230L/280). 2-44 2.2.6 Adjustment mode (06) (e-STUDIO202L/232/233/282/283). 2-64 2.2.7 Setting mode (08) (e-STUDIO202L/233/282/283). 2-64 2.2.8 Setting mode (08) (e-STUDIO202L/233/282/283). 2-764 2.1.1 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO202L/230/230/230/280).			1.4.2 e-STUDIO202L/232/232S/282/282S	
1.5 System List 1-11 1.5.1 e-STUDIO200L/230/230L/280/280S 1-11 1.5.2 e-STUDIO202L/203L/232/232S/233/282/283/283S 1-17 2. ERROR CODE AND SELF-DIAGNOSTIC MODE 2-1 2.1 Error code List. 2-1 2.1.1 Jam. 2-1 2.1.2 Service call 2-7 2.1.3 Error in Internet FAX / Scanning Function. 2-10 2.1.4 Printer function error. 2-20 2.2 Self-diagnosis Modes 2-23 2.2.1 Input check (Test mode 03) (e-STUDIO200L/230/230L/280) 2-24 2.2.3 Output check (test mode 04) 2-43 2.2.4 Test print mode (test mode 04) 2-44 2.2.6 Adjustment mode (05) (e-STUDIO200L/230/230L/280) 2-44 2.2.6 Adjustment mode (05) (e-STUDIO202L/203L/232/233/282/283) 2-16 2.2.9 Pixel counter 2-264 2.2.9 Pixel counter 2-264 2.2.9 Pixel counter 2-274 2.10 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO200L/230/230L/280) (e-STU			1.4.3 STUDIO203L/233/283/283S	1-10
1.5.1 e-STUDIO200L/230/230/280/280/282/283/283/283 1-11 1.5.2 e-STUDIO200L/230/232/232/233/282/283/283/283/283 1-17 2.1 ERROR CODE AND SELF-DIAGNOSTIC MODE 2-1 2.1 Image Control (Control (Contro (Control (Control (Cont)))) 2-44		1.5	System List	1-11
1.5.2 e-STUDIO202L/2031/232/232/232/282S/2835/2835 1.17 2. ERROR CODE AND SELF-DIAGNOSTIC MODE 2-1 2.1 Error Code List. 2-1 2.1.1 Jam 2-1 2.1.2 Service call 2-7 2.1.3 Error in Internet FAX / Scanning Function 2-10 2.2 Self-diagnosis Modes 2-23 2.2.1 Input check (Test mode 03) (e-STUDIO20L/230/230L/280) 2-25 2.2.2 Self-diagnosis Modes 2-32 2.2.3 Output check (Test mode 03) (e-STUDIO20L/230/230L/280) 2-40 2.2.4 Test print mode (test mode 04) 2-43 2.2.5 Adjustment mode (05) (e-STUDIO200L/230/230L/280) 2-44 2.2.6 Adjustment mode (05) (e-STUDIO200L/230/230L/280) 2-44 2.2.6 Adjustment mode (08) (e-STUDIO200L/230/230L/280) 2-44 2.2.6 Adjustment Mode (08) (e-STUDIO200L/230/230L/280) 2-44 2.2.7 Setting mode (08) (e-STUDIO202L/203L/232/233/282/283) 2-153 2.2.9 Pixel counter 2-264 2.10 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO202L/203L/203/2L/203/2L/203/2L/203) <td></td> <td></td> <td>1.5.1 e-STUDIO200L/230/230L/280/280S</td> <td></td>			1.5.1 e-STUDIO200L/230/230L/280/280S	
2. ERROR CODE AND SELF-DIAGNOSTIC MODE. 2-1 2.1 Error Code List. 2-1 2.1.1 Jam 2-1 2.1.2 Service call 2-7 2.1.3 Error in Internet FAX / Scanning Function 2-10 2.1.4 Printer function error 2-20 2.2 Self-diagnosis Modes 2-23 2.2.1 Input check (Test mode 03) (e-STUDIO200L/230/230L/280). 2-24 2.2.2 Input check (Test mode 03) (e-STUDIO202L/203L/232/233/282/283). 2-40 2.2.4 Test print mode (test mode 04). 2-43 2.2.5 Adjustment mode (05) (e-STUDIO200L/230/230L/280). 2-44 2.2.6 Adjustment mode (05) (e-STUDIO200L/230/230L/280). 2-44 2.2.6 Adjustment mode (06) (e-STUDIO200L/230/230L/280). 2-44 2.2.7 Setting mode (08) (e-STUDIO200L/230/230L/280). 2-44 2.2.8 Setting mode (08) (e-STUDIO200L/230/230L/280). 2-454 2.2.1 D/DLO20U2/203L/232/233/282/283). 2-153 2.2.9 Pixel counter. 2-264 2.10 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO200L/203L/203/20L/280). (e-STUDIO2002L/203L/232/233/282/283). 2-278 3. Adjustment of Auto-Toner Sensor 3-1 <t< th=""><th></th><th></th><th>1.5.2 e-STUDIO202L/203L/232/232S/233/282/282S/283/283S</th><th> 1-17</th></t<>			1.5.2 e-STUDIO202L/203L/232/232S/233/282/282S/283/283S	1-17
2.1 Error Code List. 2-1 2.1.1 Jam 2-1 2.1.2 Service call 2-7 2.1.3 Error in Internet FAX / Scanning Function 2-10 2.1.4 Printer function error. 2-20 2.2.5 Self-diagnosis Modes 2-23 2.2.1 Input check (Test mode 03) (e-STUDIO200L/230/230L/280). 2-25 2.2.2 Input check (Test mode 03) 2-40 2.2.4 Test print mode (test mode 04) 2-43 2.2.5 Adjustment mode (05) (e-STUDIO200L/230/230L/280) 2-44 2.2.6 Adjustment mode (05) (e-STUDIO201L/230/230L/280) 2-44 2.2.6 Adjustment mode (05) (e-STUDIO202L/203L/232/233/282/283) 2-64 2.2.7 Setting mode (08) (e-STUDIO202L/203L/232/233/282/283) 2-64 2.2.8 Setting mode (08) (e-STUDIO202L/203L/232/233/282/283) 2-153 2.2.9 Pixel counter 2-26 2.10 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO202L/203L/232/233/282/283) 2.2.11 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO202L/203L/232/233/282/283) 2.2.11 Classification List	2.	ERF	ROR CODE AND SELF-DIAGNOSTIC MODE	
21.1 Jam. 2-1 21.2 Service call 2-7 21.3 Error in Internet FAX / Scanning Function. 2-10 21.4 Printer function error. 2-20 22.5 Self-diagnosis Modes 2-23 22.1 Input check (Test mode 03) (e-STUDIO200L/230/230L/280). 2-25 22.2 Input check (Test mode 03) (e-STUDIO202L/203L/232/233/282/283). 2-32 2.3 Output check (test mode 04) 2-43 2.4.4 Test print mode (test mode 04) 2-43 2.2.5 Adjustment mode (05) (e-STUDIO200L/230/230L/280) 2-44 2.2.6 Adjustment mode (05) (e-STUDIO202L/203L/282/283) 2-64 2.7 Setting mode (08) (e-STUDIO202L/203L/282/283) 2-153 2.2.9 Pixel counter 2-264 2.10 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO200L/230/230L/280) (e-STUDIO202L/203L/232/233/282/283) 2-274 2.2.11 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO202L/203L/232/233/282/283) (e-STUDIO202L/203L/232/233/282/283) 2-274 2.278 3.1 Adjustment of Auto-Toner Sensor 3-1 <td></td> <td>2.1</td> <td>Error Code List</td> <td></td>		2.1	Error Code List	
21.2 Service call 2-10 2.1.3 Error in Internet FAX / Scanning Function 2-10 2.1.4 Printer function error 2-20 2.2 Self-diagnosis Modes 2-23 2.2.1 Input check (Test mode 03) (e-STUDIO200L/230/230L/280) 2-25 2.2.3 Output check (test mode 03) 2-40 2.2.4 Test print mode (test mode 04) 2-44 2.2.6 Adjustment mode (05) (e-STUDIO200L/230/230L/280) 2-44 2.2.6 Adjustment mode (05) (e-STUDIO200L/230/230L/280) 2-44 2.2.6 Adjustment mode (05) (e-STUDIO200L/230/230L/280) 2-44 2.2.7 Setting mode (08) (e-STUDIO200L/230/230L/280) 2-84 2.2.8 Setting mode (08) (e-STUDIO200L/230/230L/280) 2-264 2.2.10 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO200L/230L/230L/232/233/282/283) (e-STUDIO200L/230L/230L/230L/230L/230) 2-278 3. ADJUSTMENT 3-1 3.1 Adjustment of Auto-Toner Sensor 3-1 3.1 Adjustment at the registration roller 3-3 3.2.1 General description 3-3 3.2.2 <td< td=""><td></td><td></td><td>2.1.1 Jam</td><td></td></td<>			2.1.1 Jam	
2.1.3 Error in Internet PAX / Scanning Function 2-10 2.1.4 Printer function error 2-20 2.2.5 Self-diagnosis Modes 2-23 2.2.1 Input check (Test mode 03) (e-STUDIO200L/230/230L/280) 2-25 2.2.2 Input check (Test mode 03) (e-STUDIO202L/203L/282)/233/282/283) 2-32 2.2.3 Output check (test mode 04) 2-43 2.2.5 Adjustment mode (test mode 04) 2-43 2.2.6 Adjustment mode (05) (e-STUDIO202L/203L/230/230L/280) 2-44 2.2.6 Adjustment mode (05) (e-STUDIO202L/203L/232/233/282/283) 2-64 2.2.7 Setting mode (08) (e-STUDIO202L/203L/232/233/282/283) 2-153 2.2.9 Pixel counter 2-264 2.10 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO202L/203L/232/233/282/283) 2.2.11 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO202L/203L/232/233/282/283) 2.2.11 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO202L/203L/232/233/282/283) 2.2.11 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO202L/203L/232/233/282/283) 2.2.11 Classification List of Adj			2.1.2 Service call	
2.1.4 Printer function error 2-20 2.2.5 Self-diagnosis Modes 2-23 2.2.1 Input check (Test mode 03) (e-STUDIO201/230/230L/280) 2-25 2.2.3 Output check (test mode 03) (e-STUDIO202L/203L/232/233/282/283) 2-32 2.2.4 Test print mode (test mode 04) 2-43 2.2.5 Adjustment mode (05) (e-STUDIO200L/230/230L/280) 2-44 2.2.6 Adjustment mode (05) (e-STUDIO200L/230/230L/280) 2-44 2.2.7 Setting mode (08) (e-STUDIO200L/230/230L/280) 2-64 2.2.7 Setting mode (08) (e-STUDIO202L/203L/232/233/282/283) 2-64 2.2.8 Setting mode (08) (e-STUDIO202L/203L/232/233/282/283) 2-64 2.2.9 Pixel counter 2-264 2.2.10 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO200L/230/230L/280) (e-STUDIO200L/230/230L/280) 2-274 2.2.11 2.11 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO202L/203L/232/233/282/283) (e-STUDIO200L/230/230L/280) 2-278 3-1 3.1 Adjustment of Auto-Toner Sensor -3-1 3.2 Gamma fope adjustment -3-3			2.1.3 Error in Internet FAX / Scanning Function	
2.2 Self-diagnosis Modes 2-23 2.2.1 Input check (Test mode 03) (e-STUDIO200L/230/230L/280) 2-25 2.2.2 Input check (Test mode 03) (e-STUDIO202L/203L/232/233/282/283) 2-32 2.2.3 Output check (test mode 04) 2-44 2.2.4 Test print mode (test mode 04) 2-43 2.2.5 Adjustment mode (05) (e-STUDIO201L/230/230L/280) 2-44 2.2.6 Adjustment mode (05) (e-STUDIO202L/203L/232/233/282/283) 2-64 2.2.7 Setting mode (08) (e-STUDIO202L/203L/232/23/282/283) 2-64 2.2.9 Pixel counter 2-264 2.2.9 Pixel counter 2-264 2.2.10 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO202L/203L/230/280) (e-STUDIO202L/203L/230/230L/280) 2-274 2.2.11 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO202L/203L/232/233/282/283) (e-STUDIO202L/203L/232/233/282/283) 2-278 3. ADJUSTMENT 3-1 3.1 Adjustment of Auto-Toner Sensor 3-1 3.2 Image Dimensional Adjustment 3-3 3.2.1 General description 3-3 3		~ ~	2.1.4 Printer function error	
2.2.1 Input check (Test mode 03) (e-STUDIO200L/230/230/233/282/283). 2-23 2.2.3 Output check (test mode 03) (=-STUDIO202L/203L/232/233/282/283). 2-40 2.2.4 Test print mode (test mode 04) 2-43 2.2.5 Adjustment mode (05) (e-STUDIO200L/230/230L/280) 2-44 2.2.6 Adjustment mode (05) (e-STUDIO202L/203L/232/233/282/283) 2-64 2.2.7 Setting mode (08) (e-STUDIO202L/203L/232/233/282/283) 2-153 2.2.9 Pixel counter 2-264 2.2.10 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO200L/230/2480) 2-274 2.2.11 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO200L/230/240/280) 2-278 3. ADJUSTMENT 3-1 3.1 Adjustment of Auto-Toner Sensor 3-1 3.1 Adjustment of Auto-Toner Sensor 3-3 3.2.2 Paper alignment at the registration roller 3-3 3.2.1 General description 3-3 3.2.2 Paper alignment (Copying Function) 3-12 3.3.1 Jensity adjustment (Copying Function) 3-21 3-12 3.3 3.3.2 Paper alignment at the registration roller		2.2	Self-diagnosis Modes	
2.2.2 Input check (1est mode 03) (e-S1UDIO2021/2031/232/233/282/283) 2-40 2.2.4 Test print mode (test mode 04) 2-43 2.2.5 Adjustment mode (05) (e-STUDIO200L/230/230L/280) 2-44 2.2.6 Adjustment mode (05) (e-STUDIO202L/203L/232/233/282/283) 2-64 2.2.7 Setting mode (08) (e-STUDIO202L/203L/232/233/282/283) 2-64 2.2.8 Setting mode (08) (e-STUDIO202L/203L/232/233/282/283) 2-153 2.2.9 Pixel counter 2-264 2.2.10 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO200L/230/230L/280) (e-STUDIO202L/203L/232/233/282/283) 2-274 2.2.11 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO202L/203L/232/233/282/283) (e-STUDIO202L/203L/232/233/282/283) 2-278 3. ADJUSTMENT 3-1 3.1 Adjustment of Auto-Toner Sensor 3-1 3.1 General description 3-3 3.2.1 General description 3-3 3.2.2 Paper alignment at the registration roller 3-5 3.3 Density adjustment 3-21 3.3.1 Density adjustment 3-21			2.2.1 Input check (Test mode 03) (e-STUDIO200L/230/230L/280)	
2.2.3 Output check (test mode 03) 2-43 2.2.4 Test print mode (test mode 04) 2-43 2.2.5 Adjustment mode (05) (e-STUDIO200L/230/230L/280) 2-44 2.2.6 Adjustment mode (05) (e-STUDIO202L/203L/232/233/282/283) 2-64 2.2.7 Setting mode (08) (e-STUDIO202L/203L/230L/280) 2-84 2.2.8 Setting mode (08) (e-STUDIO202L/203L/232/233/282/283) 2-153 2.2.9 Pixel counter 2-264 2.2.10 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO200L/230/230L/280) (e-STUDIO202L/203L/232/233/282/283) 2-278 3. ADJUSTMENT 3-1 3.1 Adjustment of Auto-Toner Sensor 3-1 3.2 Inage Dimensional Adjustment 3-3 3.2.1 General description 3-3 3.2.2 Paper alignment at the registration roller 3-3 3.2.3 Printer related adjustment 3-12 3.3 Jange Quality Adjustment (Copying Function) 3-21 3.3.1 Density adjustment 3-22 3.3.3 Sharpness adjustment 3-22 3.3.4 Setting range correction 3			2.2.2 Input check (Test mode 03) (e-STUDIO202L/203L/232/233/282/283)	
2.2.4 Test print mode (test mode 04) 2-4.3 2.2.5 Adjustment mode (05) (e-STUDIO200L/230/230L/280) 2-44 2.2.6 Adjustment mode (05) (e-STUDIO202L/203L/232/233/282/283) 2-64 2.2.7 Setting mode (08) (e-STUDIO202L/203L/232/233/282/283) 2-153 2.2.9 Pixel counter 2-264 2.2.10 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO200L/230/230L/280) (e-STUDIO202L/203L/232/233/282/283) 2-274 2.2.11 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO202L/203L/232/233/282/283) (e-STUDIO202L/203L/232/233/282/283) 2-278 3. ADJUSTMENT 3-1 3.1 Adjustment of Auto-Toner Sensor 3-1 3.2 Image Dimensional Adjustment 3-3 3.2.1 General description 3-3 3.2.2 Paper alignment at the registration roller 3-5 3.2.3 Printer related adjustment 3-7 3.2.4 Scanner related adjustment 3-21 3.3.1 Density adjustment (Copying Function) 3-21 3.3.2 Gamma slope adjustment 3-223 3.3.3 <			2.2.3 Output check (test mode 03)	
2.2.5 Adjustment mode (05) (e-STUDIO200L/230/230/280). 2-44 2.2.6 Adjustment mode (05) (e-STUDIO202L/230/230/280). 2-64 2.2.7 Setting mode (08) (e-STUDIO200L/230/230/280). 2-84 2.2.8 Setting mode (08) (e-STUDIO202L/203L/232/233/282/283). 2-153 2.2.9 Pixel counter. 2-264 2.2.10 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO200L/230/230L/280). (e-STUDIO202L/203L/232/233/282/283) 2-278 3. ADJUSTMENT 3-1 3.1 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO202L/203L/232/233/282/283) 2-278 3. ADJUSTMENT 3-1 3.1 Adjustment of Auto-Toner Sensor 3-1 3.2 Image Dimensional Adjustment 3-3 3.2.1 General description 3-3 3.2.2 Paper alignment at the registration roller 3-5 3.2.3 Printer related adjustment 3-7 3.2.4 Scanner related adjustment 3-21 3.3.1 Density adjustment (Copying Function) 3-21 3.3.1 Density adjustment 3-22 3			2.2.4 Lest print mode (test mode 04)	
2.2.6 Adjustment mode (05) (e-STUDIO202L/230/230L/232/233/282/283) 2-64 2.2.7 Setting mode (08) (e-STUDIO202L/230/230L/232/233/282/283) 2-153 2.2.9 Pixel counter 2-264 2.2.10 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO200L/230/230L/280) 2-274 2.2.11 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO202L/203L/232/233/282/283) 2-278 3. ADJUSTMENT 3-1 3.1 Adjustment of Auto-Toner Sensor 3-1 3.2 Image Dimensional Adjustment 3-3 3.2.1 General description 3-3 3.2.2 Paper alignment at the registration roller 3-5 3.2.3 Printer related adjustment 3-7 3.2.4 Scanner related adjustment 3-12 3.3 Image Quality Adjustment (Copying Function) 3-21 3.3.1 Density adjustment 3-22 3.3.3 Sharpness adjustment 3-22 3.3.4 Setting range correction (Adjustment of background peak) 3-24 3.3.4 Setting range correction (Adjustment of background peak) 3-24 3.3.5 Setting range correction (Adjus			2.2.5 Adjustment mode (05) (e-STUDIO200L/230/230L/280)	
 2.2.7 Setting mode (08) (e-STUDIO200L/230/230L/280)			2.2.6 Adjustment mode (05) (e-STUDIO202L/203L/232/233/282/283)	
2.2.8 Setting mode (u8) (e-ST UDIO202L/203L/232/233/282/283) 2-153 2.2.9 Pixel counter 2-264 2.2.10 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO200L/230/230L/280) 2-274 2.2.11 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO202L/203L/232/233/282/283) 2-278 3. ADJUSTMENT 3-1 3.1 Adjustment of Auto-Toner Sensor 3-1 3.2 Image Dimensional Adjustment 3-3 3.2.1 General description 3-3 3.2.2 Paper alignment at the registration roller 3-5 3.2.3 Printer related adjustment 3-7 3.2.4 Scanner related adjustment 3-1 3.3 Image Quality Adjustment (Copying Function) 3-21 3.3.1 Density adjustment 3-22 3.3.3 Sharpness adjustment 3-22 3.3.4 Setting range correction (Adjustment of background peak) 3-24 3.4 Setting range correction (Adjustment of background peak) 3-24 3.4 Setting range correction (Adjustment of background peak) 3-24 3.5 Setting range density 3-26 <td></td> <td></td> <td>2.2.7 Setting mode (08) (e-STUDIO200L/230/230L/280)</td> <td></td>			2.2.7 Setting mode (08) (e-STUDIO200L/230/230L/280)	
2.2.9 Pixer counter			2.2.8 Setting mode (08) (e-510DiO202L/203L/232/233/282/283)	
2.2.10 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO200L/230/230L/280) 2-274 2.2.11 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO202L/203L/232/233/282/283) 2-278 3. ADJUSTMENT 3-1 3.1 Adjustment of Auto-Toner Sensor 3-1 3.2 Image Dimensional Adjustment 3-3 3.2.1 General description 3-3 3.2.2 Paper alignment at the registration roller 3-5 3.2.3 Printer related adjustment 3-7 3.2.4 Scanner related adjustment 3-12 3.3 Image Quality Adjustment (Copying Function) 3-21 3.3.1 Density adjustment 3-22 3.3.3 Sharpness adjustment 3-23 3.3.4 Setting range correction 3-24 3.3.5 Setting range correction (Adjustment of background peak) 3-24 3.3.6 Adjustment of smudged/faint text 3-25 3.3.7 Adjustment of image density 3-26 3.4 Image Quality Adjustment (Printing Function) 3-27 3.4 Adjustment of smudged/faint text 3-27			2.2.9 Pixel counter	
2.2.11 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO202L/203L/232/233/282/283) 2-278 3. ADJUSTMENT 3-1 3.1 Adjustment of Auto-Toner Sensor 3-1 3.2 Image Dimensional Adjustment 3-3 3.2.1 General description 3-3 3.2.2 Paper alignment at the registration roller 3-5 3.2.3 Printer related adjustment 3-7 3.2.4 Scanner related adjustment 3-12 3.3 Image Quality Adjustment (Copying Function) 3-21 3.3.1 Density adjustment 3-22 3.3.2 Gamma slope adjustment 3-23 3.3.4 Setting range correction (Adjustment of background peak) 3-24 3.3.5 Setting range correction (Adjustment of background peak) 3-24 3.3.7 Adjustment of smudged/faint text 3-25 3.3.7 Adjustment of smudged/faint text 3-27 3.4.1 Adjustment of smudged/faint text 3-27 3.4.2 Adjustment of smudged/faint text 3-27 3.4.1 Adjustment of smudged/faint text 3-27 3.4.2 Adjustment of smudged/faint text 3-27 3.4.2 Adjustment of smudged/faint text 3-27 3.4.2 Adjustment of smudged/faint text 3-28			(e-STUDIO200L/230/230L/280)	2-274
(e-STUDIO202L/203L/232/233/282/283)2-2783. ADJUSTMENT3-13.1 Adjustment of Auto-Toner Sensor3-13.2 Image Dimensional Adjustment3-33.2.1 General description3-33.2.2 Paper alignment at the registration roller3-53.2.3 Printer related adjustment3-73.2.4 Scanner related adjustment3-123.3 Image Quality Adjustment (Copying Function)3-213.3.1 Density adjustment3-213.3.2 Gamma slope adjustment3-223.3.3 Sharpness adjustment3-233.3.4 Setting range correction3-243.5.5 Setting range correction (Adjustment of background peak)3-243.3.7 Adjustment of smudged/faint text3-263.4 Image Quality Adjustment (Printing Function)3-273.4.1 Adjustment of smudged/faint text3-273.4.2 Adjustment of image density3-28			2.2.11 Classification List of Adjustment Mode (05) / Setting Mode (08)	
3. ADJUSTMENT 3-1 3.1 Adjustment of Auto-Toner Sensor 3-1 3.2 Image Dimensional Adjustment 3-3 3.2.1 General description 3-3 3.2.2 Paper alignment at the registration roller 3-3 3.2.3 Printer related adjustment 3-7 3.2.4 Scanner related adjustment 3-12 3.3 Image Quality Adjustment (Copying Function) 3-21 3.3.1 Density adjustment 3-21 3.3.2 Gamma slope adjustment 3-22 3.3.3 Sharpness adjustment 3-23 3.4 Setting range correction 3-24 3.5 Setting range correction (Adjustment of background peak) 3-24 3.3.7 Adjustment of smudged/faint text 3-25 3.3.7 Adjustment of image density 3-26 3.4 Image Quality Adjustment (Printing Function) 3-27 3.4.1 Adjustment of smudged/faint text 3-27 3.4.2 Adjustment of smudged/faint text 3-27 3.4.2 Adjustment of image density 3-26			(e-STUDIO202L/203L/232/233/282/283)	2-278
3.1 Adjustment of Auto-Toner Sensor 3-1 3.2 Image Dimensional Adjustment 3-3 3.2.1 General description 3-3 3.2.2 Paper alignment at the registration roller 3-5 3.2.3 Printer related adjustment 3-7 3.2.4 Scanner related adjustment 3-12 3.3 Image Quality Adjustment (Copying Function) 3-21 3.3.1 Density adjustment 3-22 3.3.3 Sharpness adjustment 3-22 3.3.4 Setting range correction 3-24 3.3.5 Setting range correction (Adjustment of background peak) 3-24 3.3.6 Adjustment of smudged/faint text 3-25 3.3.7 Adjustment of image density 3-26 3.4 Image Quality Adjustment (Printing Function) 3-27 3.4.1 Adjustment of smudged/faint text 3-27 3.4.2 Adjustment of smudged/faint text 3-27 3.4.1 Adjustment of smudged/faint text 3-27 3.4.2 Adjustment of smudged/faint text 3-27 3.4.2 Adjustment of smudged/faint text 3-27 <tr< th=""><th>3</th><th>ΔD.</th><th>UISTMENT</th><th>3-1</th></tr<>	3	ΔD.	UISTMENT	3-1
3.1 Adjustment of Adjustment 3-3 3.2 Image Dimensional Adjustment 3-3 3.2.1 General description 3-3 3.2.2 Paper alignment at the registration roller 3-5 3.2.3 Printer related adjustment 3-7 3.2.4 Scanner related adjustment 3-12 3.3 Image Quality Adjustment (Copying Function) 3-21 3.3.1 Density adjustment 3-21 3.3.2 Gamma slope adjustment 3-22 3.3.3 Sharpness adjustment 3-23 3.4 Setting range correction 3-24 3.5 Setting range correction (Adjustment of background peak) 3-24 3.3.6 Adjustment of smudged/faint text 3-25 3.3.7 Adjustment of image density 3-26 3.4 Image Quality Adjustment (Printing Function) 3-27 3.4.1 Adjustment of smudged/faint text 3-27 3.4.1 Adjustment of smudged/faint text 3-27 3.4.2 Adjustment of image density 3-28	υ.	3 1	Adjustment of Auto-Toner Sensor	3_1
3.2.1 General description 3-3 3.2.2 Paper alignment at the registration roller 3-5 3.2.3 Printer related adjustment 3-7 3.2.4 Scanner related adjustment 3-7 3.2.1 Image Quality Adjustment (Copying Function) 3-21 3.3 Image Quality Adjustment (Copying Function) 3-21 3.3.1 Density adjustment 3-22 3.3.2 Gamma slope adjustment 3-22 3.3.3 Sharpness adjustment 3-22 3.3.4 Setting range correction 3-24 3.3.5 Setting range correction (Adjustment of background peak) 3-24 3.3.6 Adjustment of smudged/faint text 3-25 3.3.7 Adjustment of image density 3-26 3.4 Image Quality Adjustment (Printing Function) 3-27 3.4.1 Adjustment of smudged/faint text 3-27 3.4.2 Adjustment of image density 3-27 3.4.2 Adjustment of image density 3-28		3.2	Image Dimensional Adjustment	3_3
3.2.1 Openetial description 3-5 3.2.2 Paper alignment at the registration roller 3-5 3.2.3 Printer related adjustment 3-7 3.2.4 Scanner related adjustment 3-12 3.3 Image Quality Adjustment (Copying Function) 3-21 3.3.1 Density adjustment 3-21 3.3.2 Gamma slope adjustment 3-21 3.3.2 Gamma slope adjustment 3-22 3.3.3 Sharpness adjustment 3-23 3.3.4 Setting range correction 3-24 3.3.5 Setting range correction (Adjustment of background peak) 3-24 3.3.6 Adjustment of smudged/faint text 3-25 3.3.7 Adjustment of image density 3-26 3.4 Image Quality Adjustment (Printing Function) 3-27 3.4.1 Adjustment of smudged/faint text 3-27 3.4.2 Adjustment of image density 3-27 3.4.2 Adjustment of image density 3-27		0.2	3.2.1 General description	
3.2.2 Paper angliment at the registration role? 3-3 3.2.3 Printer related adjustment 3-7 3.2.4 Scanner related adjustment 3-12 3.3 Image Quality Adjustment (Copying Function) 3-21 3.3.1 Density adjustment 3-21 3.3.2 Gamma slope adjustment 3-21 3.3.2 Gamma slope adjustment 3-22 3.3.3 Sharpness adjustment 3-23 3.3.4 Setting range correction 3-24 3.3.5 Setting range correction (Adjustment of background peak) 3-24 3.3.6 Adjustment of smudged/faint text 3-25 3.3.7 Adjustment of image density 3-26 3.4 Image Quality Adjustment (Printing Function) 3-27 3.4.1 Adjustment of smudged/faint text 3-27 3.4.2 Adjustment of image density 3-27 3.4.2 Adjustment of image density 3-27			3.2.2 Paper alignment at the registration roller	
3.2.4 Scanner related adjustment 3-12 3.3 Image Quality Adjustment (Copying Function) 3-21 3.3.1 Density adjustment 3-21 3.3.2 Gamma slope adjustment 3-22 3.3.3 Sharpness adjustment 3-23 3.3.4 Setting range correction 3-24 3.3.5 Setting range correction (Adjustment of background peak) 3-24 3.3.6 Adjustment of smudged/faint text 3-25 3.3.7 Adjustment of image density 3-26 3.4 Image Quality Adjustment (Printing Function) 3-27 3.4.1 Adjustment of smudged/faint text 3-27 3.4.2 Adjustment of image density 3-27 3.4.2 Adjustment of image density 3-27			3.2.2 Printer related adjustment	
3.3 Image Quality Adjustment (Copying Function) 3-21 3.3.1 Density adjustment 3-21 3.3.2 Gamma slope adjustment 3-21 3.3.3 Sharpness adjustment 3-22 3.3.4 Setting range correction 3-24 3.3.5 Setting range correction (Adjustment of background peak) 3-24 3.3.6 Adjustment of smudged/faint text 3-25 3.3.7 Adjustment of image density 3-26 3.4 Image Quality Adjustment (Printing Function) 3-27 3.4.1 Adjustment of smudged/faint text 3-27 3.4.2 Adjustment of image density 3-27 3.4.2 Adjustment of image density 3-28			3.2.4 Scanner related adjustment	3_12
3.3.1 Density adjustment. 3-21 3.3.2 Gamma slope adjustment. 3-22 3.3.3 Sharpness adjustment. 3-23 3.3.4 Setting range correction		33	Image Quality Adjustment (Copying Function)	3_21
3.3.2 Gamma slope adjustment 3-22 3.3.3 Sharpness adjustment 3-23 3.3.4 Setting range correction 3-24 3.3.5 Setting range correction (Adjustment of background peak) 3-24 3.3.6 Adjustment of smudged/faint text 3-25 3.3.7 Adjustment of image density 3-26 3.4 Image Quality Adjustment (Printing Function) 3-27 3.4.1 Adjustment of smudged/faint text 3-27 3.4.2 Adjustment of image density 3-27		0.0	3.3.1 Density adjustment	3-21
3.3.2 Sharpness adjustment 3-23 3.3.3 Sharpness adjustment 3-23 3.3.4 Setting range correction 3-24 3.3.5 Setting range correction (Adjustment of background peak) 3-24 3.3.6 Adjustment of smudged/faint text 3-25 3.3.7 Adjustment of image density 3-26 3.4 Image Quality Adjustment (Printing Function) 3-27 3.4.1 Adjustment of smudged/faint text 3-27 3.4.2 Adjustment of image density 3-28			3.3.2 Gamma slope adjustment	3-22
3.3.4 Setting range correction 3-24 3.3.5 Setting range correction (Adjustment of background peak) 3-24 3.3.6 Adjustment of smudged/faint text 3-25 3.3.7 Adjustment of image density 3-26 3.4 Image Quality Adjustment (Printing Function) 3-27 3.4.1 Adjustment of smudged/faint text 3-27 3.4.2 Adjustment of image density 3-28			3.3.3 Sharpness adjustment	3-23
3.3.5 Setting range correction (Adjustment of background peak) 3-24 3.3.6 Adjustment of smudged/faint text 3-25 3.3.7 Adjustment of image density 3-26 3.4 Image Quality Adjustment (Printing Function) 3-27 3.4.1 Adjustment of smudged/faint text 3-27 3.4.2 Adjustment of image density 3-28			3.3.4 Setting range correction	3-24
3.3.6 Adjustment of smudged/faint text 3-25 3.3.7 Adjustment of image density 3-26 3.4 Image Quality Adjustment (Printing Function) 3-27 3.4.1 Adjustment of smudged/faint text 3-27 3.4.2 Adjustment of image density 3-28			3.3.5 Setting range correction (Adjustment of background neak)	3-24
3.3.7 Adjustment of image density 3-26 3.4 Image Quality Adjustment (Printing Function) 3-27 3.4.1 Adjustment of smudged/faint text 3-27 3.4.2 Adjustment of image density 3-28			3.3.6 Adjustment of smudged/faint text	3-25
3.4 Image Quality Adjustment (Printing Function) 3-27 3.4.1 Adjustment of smudged/faint text 3-27 3.4.2 Adjustment of image density 3-28			3 3 7 Adjustment of image density	
3.4.1 Adjustment of smudged/faint text		34	Image Quality Adjustment (Printing Function)	
3.4.2 Adjustment of image density		.	3.4.1 Adjustment of smudged/faint text	
\cdot			3.4.2 Adjustment of image density	

		3.4.3 Gamma balance adjustment < e-STUDIO 202L/203L/232/233/282/283 >	3-29
	3.5	Image Quality Adjustment (Scanning Function)	3-30
		3.5.1 Density adjustment	3-30
		3.5.2 Sharpness adjustment	3-31
		3.5.3 Setting range correction	3-32
		3.5.4 Setting range correction (Adjustment of background peak)	3-33
		3.5.5 Setting range correction (Adjustment of text peak)	3-33
	3.6	Adjustment of High-Voltage Transformer	3-34
		3.6.1 Adjustment	3-34
		3.6.2 Precautions	3-40
	3.7	Adjustment of the Scanner Section	3-42
	••••	37.1 Carriages	3-42
		372 Lens unit	3-47
	3.8	Adjustment of the Paper Feeding System	3-50
	0.0	3.8.1 Sheet sideways deviation caused by paper feeding	3_50
	30	Adjustment of Developer Linit	3 51
	5.9	3.0.1 Destor to sloove gap	2 51
	2 10	Adjustment of the DADE (MD 2016)	2 54
	5.10	2 10 1 Adjustment of DADE position	2 54
		3.10.1 Adjustment of RADF position	3-54
		3.10.2 Adjustment of RADF neight	3-58
		3.10.3 Adjustment of skew	3-60
		3.10.4 Automatic adjustment of sensors and initialization of EEPROM	3-62
		3.10.5 Adjustment of aligning	3-63
		3.10.6 Adjustment of aligning at reversing	3-64
		3.10.7 Adjustment of reverse solenoid	3-65
		3.10.8 Adjustment of RADF opening/closing switch	3-67
		3.10.9 Adjustment of RADF opening/closing sensor	3-68
		3.10.10Adjustment of tray volume	3-69
	3.11	Adjustment of the RADF (MR-3020)	3-70
		3.11.1 Adjustment of RADF Position	3-70
		3.11.2 Adjustment of RADF Height	3-75
		3.11.3 Adjustment of Skew	3-77
		3.11.4 Adjustment of the Leading Edge Position	3-80
		3.11.5 Adjustment of Horizontal Position	3-81
		3 11 6 Adjustment of Copy Ratio	3-83
		3 11 7 Adjustment of RADE Opening/Closing Sensor	3-84
	3 12	Adjustment of the Finisher (MI-1022)	3-85
	0.12	3 12 1 Adjusting the jogging plate width	3_85
		3 12 2 Adjusting the angle of the logging plate	3 87
		3.12.2 Adjusting the averlap of the consor flag	2 00
		2.12.4 Adjusting the tension of the steak processing meter helt	2 00
		3.12.4 Aujusting the tension of the stack processing motor beit	2 04
		3.12.5 Releasing the stack tray guide lever fixing plate	3-91
		3.12.6 Adjustment of the upper tray angle	3-92
		3.12.7 DIP switch functions	3-94
	3.13	Adjustment of the Finisher (MJ-1025)	3-96
		3.13.1 Adjusting the folding position (Electrical system (Finisher/Saddle unit))	3-96
		3.13.2 Adjusting the sensor output (Electrical system (Puncher unit; option))	3-97
		3.13.3 Registering the number of punch hole (Electrical system (Puncher unit; option))	3-98
		3.13.4 After replacing the EEP-ROM (IC1002) (Electrical system (Puncher unit; option))	3-99
	3.14	Key Copy Counter (MU-8, MU-10)	3-100
	3.15	Adjustment of Dogleg	3-102
٨			/_1
4.		DM Support Mode	۱-+- ۱ ۸ ۸
	4.1	rivi Support vioue	4-1
		4.1.1 General description	4-1
		4.1.2 Operational now and operational screen	4-1

		4.1.3 Work flow of parts replacement	
	4.2	General Descriptions for PM Procedure	
	4.3	Operational Items in Overhauling	
	4.4	Preventive Maintenance Checklist	
	4.5	PM KIT	4-25
	4.6	Jig List	4-26
	4.7	Grease List	4-27
	4.8	Precautions for Storing and Handling Supplies	4-28
		4.8.1 Precautions for storing TOSHIBA supplies	4-28
		4.8.2 Checking and cleaning of photoconductive drum	4-29
		4.8.3 Checking and cleaning of drum cleaning blade	4-30
		4.8.4 Checking and cleaning of fuser roller and pressure roller	
		4.8.5 Checking and replacing the cleaning roller	
5.	TRC	DUBLESHOOTING	5-1
	5.1	Diagnosis and Prescription for Each Error Code	
		5.1.1 Paper transport jam	
		5.1.2 Paper misfeeding	5-15
		5.1.3 Cover open jam	5-22
		5.1.4 Transport jam (RADF)	5-28
		5.1.5 Finisher jam	5-35
		5.1.6 Drive system related service call	5-47
		5.1.7 Paper feeding system related service call	5-48
		5.1.8 Scanning system related service call	5-54
		5.1.9 Fuser unit related service call	5-56
		5.1.10 Communication related service call	
		5.1.11 RADF related service call (MR-3016)	
		5.1.12 RADF related service call (MR-3020)	
		5.1.13 Laser optical unit related service call	
		5.1.14 Finisher related service call	
		5.1.15 Service Call for others	
	F 0	5.1.16 Error in internet FAX / Scanning Function	
	5.Z	Depletement of DC Deprets and UDD	
	5.3	5.2.1 Poplacing HDD	0-110
		5.3.1 Replacing CVS board	0-110
		5.3.2 Caution when Data even write kit (CP 1050/1060) is installed	0-121 5 122
		5.3.4 HDD information display	5 123
		5.3.5 Replacing or clearing NVRAM	5_126
_			
6.	FIR		6-1
	6.1	Firmware Updating with Download Jig (e-STUDIO200L/230/230L/280)	
		6.1.1 PWA-DWNLD-350-JIG2 (48 MB)	
		6.1.2 PWA-DWNLD-350-JIG1 (16 MB)	
		6.1.3 Writing the data to the download jig (PWA-DWNLD-350-JIG)	
	~ ~	6.1.4 K-PWA-DLM-320	
	6.2	Firmware Updating with Download Jig (e-STUDIO202L/203L/232/233/282/283)	
		6.2.1 PWA-DWNLD-350-JIG2 (48 MB)	
		6.2.2 Writing the data to the download jig (PWA-DWNLD-350-JIG)	
	6.0	0.2.3 N-MVA-DLIVI-32U	
	0.3 € 4	Firmware Updating with USB Storage Device (a STUDIO2001/020/230/230L	1200)0-00
	0.4 6 F	Firmware Updating with USB Storage Device (e-51 UDIO200L/230/230L/280)	0-12
	0.0 6.6	Appondix	203)0-00 6 100
	0.0		6 100
		6.6.2 P-STUDIO2001/2001/2001/2001/2001/200	6_110
		0.0.2 6-010D10Z0ZL/200L/202/200/202/200	

7.	PO\	WER S	SUPPLY UNIT	7-1
	7.1	Outpu	t Channel	7-1
	7.2	Fuse.		7-3
	7.3	Config	guration of Power Supply Unit	7-4
8.	RE	моте	SERVICE	8-1
	8.1	Auto S	Supply Order	
		8.1.1	Outline	8-1
		8.1.2	Setting Item	8-2
		8.1.3	Setting procedure	
		8.1.4	Order Sheet Format	
	8.2	Servio	e Notification	
		8.2.1	Outline	
		8.2.2	Setting (e-STUDIO200L/230/230L/280)	
		8.2.3	Items to be notified (e-STUDIO200L/230/230L/280)	
		8.2.4	Setting (e-STUDIO202L/203L/232/233/282/283)	
		8.2.5	Items to be notified (e-STUDIO202L/203L/232/233/282/283)	
•	D 4 7			

9. DATA CLONING with USB STORAGE DEVICE (e-STUDIO202L/203L/232/233/282/283)9-1

10. WIRE HARNESS CONNECTION DIAGRAMS	
10.1 AC Wire Harness	
10.2 DC Wire Harness (e-STUDIO200L/230/230L/280/280S)	Appendix
10.3 Connector Table (e-STUDIO200L/230/230L/280/280S)	Appendix
10.4 DC Wire Harness (e-STUDIO202L/232/282)	Appendix
10.5 Connector Table (e-STUDIO202L/232/282)	Appendix

- 1. SPECIFICATIONS / ACCESSORIES / OPTIONS / SUPPLIES
- 2. ERROR CODE AND SELF-DIAGNOSTIC MODE
- 3. ADJUSTMENT
- 4. PREVENTIVE MAINTENANCE (PM)
- 5. TROUBLESHOOTING
- 6. FIRMWARE UPDATING
- 7. POWER SUPPLY UNIT
- 8. **REMOTE SERVICE**
- 9. DATA CLONING with USB STORAGE DEVICE (e-STUDIO202L/203L/232/233/282/283)
- **10. WIRE HARNESS CONNECTION DIAGRAMS**

2

3

4

7

8

1. SPECIFICATIONS / ACCESSORIES / OPTIONS / SUPPLIES

1.1 Specifications

Values in { } are for e-STUDIO200L/202L/203L and values in [] are for e- STUDIO280/280S/282/ 282S/283/283S in case that the specification is different among e-STUDIO200L/202L/203L, e-STUDIO230/230L/232/232S/233 and e-STUDIO280/280S/282/282S/283/283S.

•Copy process •Type	Indirect electrophotographic process (dry) Desktop type (console type: when paper feed pedestal (PFP) and large capacity feeder (LCF) are installed)
 Original table Accepted originals 	Fixed type (the left rear corner used as guide to place 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
MR-3016	50 ~ 127 g/m ² (13 lb. Bond - 34 lb. Bond)	50 ~ 105 g/m ² (13 lb. Bond - 28 lb. Bond)
MR-3018	35 ~ 157 g/m ² (9.3 lb. Bond - 58 lb. Cover)	50 ~ 157 g/m ² (13 lb. Bond - 58 lb. Cover)

•Copy speed (Copies/min.)

e-STUDIO200L/202L/203L

Paper size	Bypass feed		ss feed	DED	LCE
raper size	Diawei	Size specified	Size not specified	FIF	LOI
A4, LT, B5, A5-R, ST-R	20	20	16	20	20
A4-R, B5-R, LT-R	19	19	16	19	-
B4, LG	18	18	16	18	-
A3, LD	16	16	16	16	_

e-STUDIO230/230L/232/232S/233

Paper size	Drawor	Вура	DED	LCE	
raper size	Diawei	Size specified	Size not specified	FIF	LOI
A4, LT, B5, A5-R, ST-R	23	23	16	23	23
A4-R, B5-R, LT-R	21.5	21.5	16	21.5	-
B4, LG	18	18	16	18	-
A3, LD	16	16	16	16	-

e-STUDIO280/280S/282/282S/283/283S

Papor sizo	Drawor	Вураз	Bypass feed			
raper size	Diawei	Size specified	Size not specified	FIF	LOI	
A4, LT, B5, A5-R, ST-R	28	28	16	28	28	
A4-R, B5-R, LT-R	21.5	21.5	16	21.5	-	
B4, LG	18	18	16	18	-	
A3, LD	16	16	16	16	-	

* "-" means "Not acceptable".

* The copy speed in the above table are available when originals are manually placed for single side, multiple copying.

- * When the RADF is used, the copy speed of {20}23[28] sheets per minute is only available under the following conditions:
 - Original/Mode: Single side original/A4/LT size. APS/automatic density are not selected.
 - Number of sheets: {20}23[28] or more.
 - Reproduction ratio: 100%

Copy speed for thick paper (Copies/min.) e-STUDIO200L/202L/203L/230/230L/232/233/280/282/283 series

Thick 1 (81 g/m² to 105 g/m², 21.3 lb. Bond to 28 lb. Bond)

Papar aiza	Drawer	Bypas	DED		
raper size		Size specified	Size not specified	FFF	LOF
A4, LT, B5, A5-R, ST-R	{20} 23 [27]	{20} 23 [27]	{15} 16 [16]	{20} 23 [27]	{20} 23 [27]
A4-R, B5-R, LT-R	{19} 21 [21]	{19} 21 [21]	{15} 16 [16]	{19} 21 [21]	{-} - [-]
B4, LG	{18} 18 [18]	{18} 18 [18]	{15} 16 [16]	{18} 18 [18]	{-} - [-]
A3, LD	{15} 16 [16]	{15} 16 [16]	{15} 16 [16]	{15} 16 [16]	{-} - [-]

Thick 2 (106 g/m² to 163 g/m², 28 lb. Bond to 90 lb. Index)

Papar aiza	Drowor	Bypass feed		DED		
Paper Size	Diawei	Size specified	Size not specified	FFF	LOF	
A4, LT, B5, A5-R, ST-R	{-} - [-]	{20} 23 [27]	{15} 16 [16]	{-} - [-]	{-} - [-]	
A4-R, B5-R, LT-R	{-} - [-]	{19} 21 [21]	{15} 16 [16]	{-} - [-]	{-} - [-]	
B4, LG	{-} - [-]	{18} 18 [18]	{15} 16 [16]	{-} - [-]	{-} - [-]	
A3, LD	{-} - [-]	{15} 16 [16]	{15} 16 [16]	{-} - [-]	{-} - [-]	

Thick 3 (164 g/m² to 209 g/m², 90 lb. Index to 115.7 lb. Index)

Bapar aiza	Drower	Bypass feed		DED	
Paper Size	Diawei	Size specified	Size not specified	FFF	LOI
A4, LT, B5, A5-R, ST-R	{-} - [-]	{20} 23 [27]	{15} 16 [16]	{-} - [-]	{-} - [-]
A4-R, B5-R, LT-R	{-} - [-]	{19} 21 [21]	{15} 16 [16]	{-} - [-]	{-} - [-]
B4, LG	{-} - [-]	{18} 18 [18]	{15} 16 [16]	{-} - [-]	{-} - [-]
A3, LD	{-} - [-]	{15} 16 [16]	{15} 16 [16]	{-} - [-]	{-} - [-]

* Only A4/LT size is available for the LCF.

* The tolerance is within ±2.

* System copy speed

		Sec.				
Copy mode		e-STUDIO200L/202/ 203L	e-STUDIO230/230L/ 232/232S/233	e-STUDIO280/280S/ 282/282S/283/283S		
Single-sided originals	1 set	34.18	31.5	27.6		
\downarrow	3 sets	95.53	84.8	72.2		
Single-sided copies	5 sets	154.28	136.2	114.0		
Single-sided originals	1 set	37.44	34.5	31.6		
\downarrow	3 sets	96.81	85.9	73.4		
Double-sided copies	5 sets	155.54	137.4	116.4		
Double-sided originals	1 set	70.26	64.8	58.9		
\downarrow	3 sets	188.48	167.7	143.8		
Double-sided copies	5 sets	306.64	270.6	228.5		
Double-sided originals	1 set	64.65	57.8	50.5		
\downarrow	3 sets	184.73	163.1	137.3		
Single-sided copies	5 sets	302.58	266.1	222.1		

* 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.

•Copy paper

	Drawer	ADU	PFP	LCF	Bypass copy	Remarks
Size	A3 to A5-R, LD to ST-R, A4, LT FOLIO, COMPUTER, 13"LG, 8.5" x 8.5", 8K, 16K, 16K-R		A4, LT	A3 to A5-R, LD to ST-R, FOLIO, COMPUTER, 13"LG, 8.5" x 8.5", 8K, 16K, 16K-R (Non-standard or user-specified sizes can be set.)		
Weight	1	64 to 10 7 to 28)5 g/m ² lb. Bond		64 to 209 g/m ² , 17 lb. Bond to 110 lb. Index (Continuous feeding) 50 to 209 g/m ² , 13 lb. Bond to 110 lb. Index (Single paper feeding)	
Special paper	al – r			Tracing paper, labels, OHP film (thickness: 80 μm or thicker), tab paper, envelope (COM10, Monarch, DL, CHO-3, YOU-4)	These special papers rec- ommended by Toshiba Tec CHO-3: 92 mm x 235 mm YOU-4: 105 mm x 235 mm	

•First copy time......Approx. 5.4 sec. or less (A4/LT, upper drawer, 100%, original placed manually)

•Warming-up time Approx. 25 sec. (temperature: 20°C)

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

 Reproduction ratio Actual ratio: 100±0.5% Zooming: 25 to 400% in increments of 1% (25 to 200% when using RADF)
 Resolution/Gradation..... Scanning: 600 dpi x 600 dpi Printing: Equivalent to 2400 dpi x 600 dpi Gradation: 256 steps

•Eliminated portion	Leading edges: 3.0±2.0 mm, Side/trailing edges: 2.0±2.0 mm (copy) Leading / trailing edges: 5.0±2.0 mm, Side edges: 5.0±2.0 mm (print)		
•Paper feeding	. Standard drawers: 1 or 2 drawers (stack height 60.5 mm, equivalent to 550 sheets; 64 to 80 g/m ² (17 to 22 lb. Bond)): Depends on destinations or versions.		
	PFP: Option (One drawer or two: stack height 60.5 mm, equivalent to 550 sheets; 64 to 80 g/m ² (17 to 22 lb. Bond))		
	LCF: Option (Stack height 137.5 mm x 2: equivalent to 2500 sheets; 64 to 80 g/m ² (17 to 22 lb. Bond))		
	Bypass feeding: Stack height 11 mm: equivalent to 100 sheets; 64 to 80 g/m ² (17 to 22 lb. Bond)		
•Capacity of originals in the rev	ersing automatic document feeder (Option) . A3 to A5-R, LD to ST-R:		
•Automatic duplexing unit (ADL	J is available as standard equipment for some destinations or versions.) . Stackless, Switchback type		
•Toner supply	Automatic toner density detection/supply Toner cartridge replacing method (There is a recovered toner supply mechanism.)		
Density control	Automatic density mode and manual density mode selectable in 11 steps		
•Weight	Approximately 75 kg (165.34 lb.): e-STUDIO200L/230/230L/280/280S Approximately 77 kg (169.75 lb.): e-STUDIO202L/203L/232/233/232S/ 282/282S/283 (include the developer material and drum) (The ADU and Drawer module are installed.)		
Power requirements * The acceptable value of a	.AC 110 V / 13.2 A, 115 V or 127 V / 12 A 220-240 V or 240 V / 8 A (50/60 Hz) each voltage is ±10%.		
Power consumption * The electric power is sup LCF through the equipment	. 1.5 kW or less (115 V series, 200 V series) plied to the RADF, (ADU), Finisher, Job Separator, Offset Tray, PFP and ent.		

•Total counter..... Electronical counter

•Dimensions of the equipment...... See the figure below (W 637 x D 719 x H 739 (mm)) * When the tilt angle of the control panel is 45 degrees.



Fig. 1-1

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1 - 5 04/09 1

1.2 Accessories

Unpacking/setup instruction	1 set
Operator's manual	3 pcs. (except for MJD)
Operator's manual pocket	1 pc.
Power cable	1 pc.
Warranty sheet	1 pc. (for NAD)
Setup report	1 set (for NAD and MJD)
Customer satisfaction card	1 pc. (for MJD)
Drum (installed inside of the equipment)	1 pc.
Toner cartridge	1 pc. (except for NAD, MJD)
Developer material	1 pc. (except for NAD, MJD)
Control panel stopper	1 pc.
Blind seal	1 pc.
Rubber plug	5 pcs.
CD-ROM	4 pcs. *2
Transfer charger wire cleaner (installed inside of the transfer cover)	1 pc.
Paper stopper ^{*1}	1 pc.
Stopper bracket *1	1 pc.

Machine version

	11
NAD:	North America
ARD:	Argentina
ASD:	Central and South America / Hong Kong
AUD:	Australia
MJD:	Europe
ASU:	Asia
SAD:	Saudi Arabia
IRD:	Iran
CND:	China
TWD:	Taiwan
JPD:	Japan
KRD:	Korea

*1: e-STUDIO200L/230/230L/280/280S only

*2: In e-STUDIO202L/203L/232/232S/233/282/282S/283, 2 discs are included.

1.3 Options

1.3.1 e-STUDIO200L/230/230L/280/280S

Platen Cover	KA-3511 PC/PC-C
Reversing Automatic Document Feeder (RADF)	MR-3016
Drawer Module	MY-1021/-C
Paper Feed Pedestal (PFP)	KD-1011/-C
Large Capacity Feeder (LCF)	KD-1012 A4/LT/A4-C
Finisher (Hanging type)	MJ-1022/-C
Saddle stitch Finisher	MJ-1025/-C
Hole Punch Unit	MJ-6005 N/E/F/S *1
Staple Cartridge	STAPLE-1600 (for MJ-1022) STAPLE-2000 (for MJ-1025)
Bridge Kit	KN-3520/-C
Job Separator	MJ-5004/-C
Offset Tray	MJ-5005/-C
Key copy Counter, Key copy counter socket	MU-8, MU-10
Work Tray	KK-3511
Damp Heater	MF-2320 U/E
Fax Board	GD-1150 NA/AU/EU/TW/C/AS
2nd Line for Fax Board	GD-1160 NA/EU/TW/C
Wireless LAN Adapter	GN-1010
PCI Slot	GO-1040/C
Scrambler Board	GP-1030
Printer Kit	GM-1020/GM-1030
Printer/Scanner Kit	GM-2020/GM-2030
Scanner upgrade Kit	GM-3020/GM-3030
Parallel interface kit	GF-1140
Desk	MH-1700
Harness kit for coin controller	GQ-1020
Automatic Duplexing Unit (ADU)	MD-0102
Slot cover	KE-2330
NIC board	GF-1150
Data overwrite kit	GP-1050

* 1) N: North America E: Europe F: France S: Sweden

Notes:

- The bridge unit (KN-3520) is necessary for installation of the finisher (MJ-1022, MJ-1025).
- The finisher (MJ-1025) is necessary for installation of the hole punch unit (MJ-6005N/E/F/S).
- The PCI slot (GO-1040) is necessary for installation of the scrambler board (GP-1030) and parallel interface kit (GF-1140).
- GM-1030/GM-2030/GM-3030 are exclusive for e-STUDIO200L. They do not operate with e-STUDIO230/230L/280/280S.

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1.3.2 e-STUDIO202L/203L/232/232S/233/282/282S/283/283S

Platen Cover	KA-3511PC/-C
Reversing Automatic Document Feeder (RADF)	MR-3020
Automatic Duplexing Unit (ADU)	MD-0102
Drawer module	MY-1021/-C
Slot cover	KE-2330
Paper Feed Pedestal (PFP)	KD-1011/-C
Large Capacity Feeder (LCF)	KD-1012LT/A4/A4-C
Finisher (Hanging type)	MJ-1022/-C
Finisher (Console saddle stitcher type)	MJ-1025
Hole punch unit (for MJ-1025)	MJ-6005N/E/F/S *1
Staple cartridge	STAPLE-1600 (for MJ-1022)
	STAPLE-2000 (for MJ-1025)
Bridge kit	KN-3520/-C
Job separator	MJ-5004/-C
Offset tray	MJ-5005/-C
Work tray	KK-3511/-C
Damp heater	MF-2320U/E
Fax board	GD-1150NA/EU/AU/AS/C/TW
	GD-1151NA/EU/AU/AS/C/TW
2nd line for fax board	GD-1160NA/EU-N/C/TW
Drinter kit	GD-1260INA/E0/C/1W
	GM-1070/1071/10800/10810
	GM-2070/2071/20800/20810
	GM-4070/GM-40800
	GM-1130 (8-510DI0232/2325/233/ 282/2825/283/283S)
	GM-1140U (e-STUDIO202L/203L)
Printer/Scanner ELK	GM-2130 (e-STUDIO232/232S/233/
	282/282S/283/283S)
	GM-2140U (e-STUDIO202L/203L)
Scanner ELK	GM-4130 (e-STUDIO232/232S/233/
	282/282S/283/283S)
Momony	GM-41400 (e-ST0DI0202L/203L)
Scrambler board	GC-1230
	GN 1041
Rivetooth module	GN-1041
	GN-2010
Antenna Data ovorurito kit	GR-3010
	GF-1000
	GO-1000
	NH 1700
Lesk	
Harness Kit for coin controller	GQ-1020

* 1) N: North America E: Europe F: France S: Sweden

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Notes:

- The bridge kit (KN-3520) is necessary for installation of the finisher (MJ-1022 or MJ-1025).
- The saddle stitch finisher (MJ-1025) is necessary for installation of the hole punch unit (MJ-6005N/E/F/S).
- The PCI slot (GO-1060) is necessary for installation of the scrambler board (GP-1040).
- The antenna (GN-3010) is necessary to enable the wireless LAN module (GN-1041) and Bluetooth module (GN-2010).
- When the wireless LAN module (GN-1041) and the Bluetooth module (GN-2010) are installed, only 1 antenna (GN-3010) can be connected to each.
- GM-1080U / GM-2080U / GM-4080U are exclusive to e-STUDIO202L. They do not operate with e-STUDIO232/232S/282/282S.
- GM-1081U / GM-2081U / GM-4080U are exclusive to e-STUDIO202L/203L. They do not operate with e-STUDIO232/232S/233/282/282S/283.
- The Printer kit (GM-1070/1080U) or Printer/Scanner kit (GM-2070/2080U) does not have a function for printing an XPS file.
- To enable an XPS file to be printed by the Printer kit (GM-1071/1081U) or Printer/Scanner kit (GM-2071/1081U), the Memory (GC-1230) is required to be installed.
- To enable an XPS file to be printed by the Printer ELK (GM-1130/1140U) or Printer/Scanner ELK (GM-2130/2140U), the Memory (GC-1230) is required to be installed.

1.4 Supplies

1.4.1 e-STUDIO200L/230/230L/280/280S

Drum	OD-1600
Toner cartridge	PS-ZT2320 /T/D/C/E *1
Developer	D-2320 /C

* 1) T: Taiwan D: Asia C: China E: Europe NONE: North America

1.4.2 e-STUDIO202L/232/232S/282/282S

Drum	OD-1600
Toner cartridge	PS-ZT2340 /T/D/C/E *1
Developer	D-2340 /C

* 1) T: Taiwan D: Asia C: China E: Europe NONE: North America

1.4.3 STUDIO203L/233/283/283S

Drum	OD-1600
Toner cartridge	PS-ZT2840 /E ^{*1} PS-ZT2340C ^{*1}
Developer	D-2340 /C

* 1) C: China E: Europe NONE: North America

1.5 System List

1.5.1 e-STUDIO200L/230/230L/280/280S



Fig. 1-2

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e-STUDIO200L/202L/203L/230/230L/232/233/280/282/283 SPECIFICATIONS / ACCESSORIES / OPTIONS / SUPPLIES

e-STUDIO280/280S

Area	North America	Central and South America/ Hong Kong	Australia	Europe	Asia
Machine version (destination)	NAD (115V)	ASD (220-240V)	AUD (220-240V)	MJD (220-240V)	ASU (220-240V)
Model name	e-STUDIO280	e-STUDIO280	e-STUDIO280	e-STUDIO280	e-STUDIO280
Platen cover	KA-3511PC	KA-3511PC	KA-3511PC	KA-3511PC	KA-3511PC
RADF	MR-3016	MR-3016	MR-3016	MR-3016	MR-3016
Drawer module (for Equipment)	Standard	MY-1021	Standard	Standard	MY-1021
Drawer module (for PFP)	MY-1021	MY-1021	MY-1021	MY-1021	MY-1021
Slot cover	-	Standard	-	-	KE-2330
ADU	Standard	MD-0102	Standard	Standard	MD-0102
PFP	KD-1011	KD-1011	KD-1011	KD-1011	KD-1011
LCF	KD-1012LT	KD-1012A4	KD-1012A4	KD-1012A4	KD-1012A4
Finisher (Hanging type)	MJ-1022	MJ-1022	MJ-1022	MJ-1022	MJ-1022
Staple cartridge (for MJ-1022)	STAPLE-1600	STAPLE-1600	STAPLE-1600	STAPLE-1600	STAPLE-1600
Saddle stitch finisher	MJ-1025	MJ-1025	MJ-1025	MJ-1025	MJ-1025
Staple cartridge (for MJ-1025)	STAPLE-2000	STAPLE-2000	STAPLE-2000	STAPLE-2000	STAPLE-2000
Hole punch unit	MJ-6005N	MJ-6005E	MJ-6005E	MJ-6005E/F/S	MJ-6005E
Bridge kit	KN-3520	KN-3520	KN-3520	KN-3520	KN-3520
Job separator	MJ-5004	MJ-5004	MJ-5004	MJ-5004	MJ-5004
Offset tray	MJ-5005	MJ-5005	MJ-5005	MJ-5005	MJ-5005
Key copy counter	MU-8	MU-8	MU-8	MU-8	MU-8
Key copy counter socket	MU-10	MU-10	MU-10	MU-10	MU-10
Work tray	KK-3511	KK-3511	KK-3511	KK-3511	KK-3511
Damp heater	MF-2320U	Standard	Standard	MF-2320E	Standard
Fax board	GD-1150NA	GD-1150AS	GD-1150AU	GD-1150EU	GD-1150AS
2nd line for Fax board	GD-1160NA	GD-1160EU	GD-1160EU	GD-1160EU	GD-1160EU
Wireless LAN adapter	GN-1010	GN-1010	GN-1010	GN-1010	GN-1010
PCI slot	GO-1040	GO-1040	GO-1040	GO-1040	GO-1040
Scrambler board	GP-1030	GP-1030	GP-1030	GP-1030	GP-1030
Parallel interface kit	GF-1140	GF-1140	GF-1140	GF-1140	GF-1140
NIC board	Standard	GF-1150	Standard	Standard	GF-1150
Printer/Scanner kit	GM-2020	GM-2020	GM-2020	GM-2020	GM-2020
Printer kit	GM-1020	GM-1020	GM-1020	GM-1020	GM-1020
Scanner upgrade kit	GM-3020	GM-3020	GM-3020	GM-3020	GM-3020
Desk	MH-1700	MH-1700	MH-1700	MH-1700	MH-1700
Harness kit for coin controller	GQ-1020	GQ-1020	GQ-1020	GQ-1020	GQ-1020

Area	Saudi Arabia	Iran	China		Taiwan
Machine version	SAD	IRD	CN	ND	TWD
(destination)	(127V)	(220-240V)	(220-2	240V)	(110V)
Model name	e-STUDIO280	e-STUDIO280	e-STUDIO280S	e-STUDIO280	e-STUDIO280
Platen cover	KA-3511PC	KA-3511PC	Standard	Standard	KA-3511PC
RADF	MR-3016	MR-3016	MR-3016	MR-3016	MR-3016
Drawer module (for Equipment)	MY-1021	Standard	Standard	Standard	Standard
Drawer module (for PFP)	MY-1021	MY-1021	MY-1021	MY-1021	MY-1021
Slot cover	KE-2330	-	-	-	-
ADU	MD-0102	Standard	MD-0102	Standard	MD-0102
PFP	KD-1011	KD-1011	KD-1011	KD-1011	KD-1011
LCF	KD-1012A4	KD-1012A4	KD-1012-C	KD-1012-C	KD-1012A4
Finisher (Hanging type)	MJ-1022	MJ-1022	MJ-1022-C	MJ-1022-C	MJ-1022
Staple cartridge (for MJ-1022)	STAPLE-1600	STAPLE-1600	STAPLE-1600	STAPLE-1600	STAPLE-1600
Saddle stitch finisher	MJ-1025	MJ-1025	MJ-1025	MJ-1025	MJ-1025
Staple cartridge (for MJ-1025)	STAPLE-2000	STAPLE-2000	STAPLE-2000	STAPLE-2000	STAPLE-2000
Hole punch unit	MJ-6005E	MJ-6005E	MJ-6005E	MJ-6005E	MJ-6005E
Bridge kit	KN-3520	KN-3520	KN-3520-C	KN-3520-C	KN-3520
Job separator	MJ-5004	MJ-5004	MJ-5004-C	MJ-5004-C	MJ-5004
Offset tray	MJ-5005	MJ-5005	MJ-5005-C	MJ-5005-C	MJ-5005
Key copy counter	MU-8	MU-8	MU-8	MU-8	MU-8
Key copy counter socket	MU-10	MU-10	MU-10	MU-10	MU-10
Work tray	KK-3511	KK-3511	KK-3511	KK-3511	KK-3511
Damp heater	Standard	Standard	Standard	Standard	Standard
Fax board	GD-1150NA	N/A	GD-1150C	GD-1150C	GD-1150TW
2nd line for Fax board	GD-1160NA	N/A	GD-1160C	GD-1160C	GD-1160TW
Wireless LAN adapter	GN-1010	GN-1010	GN-1010	GN-1010	GN-1010
PCI slot	GO-1040	GO-1040	GO-1040C	GO-1040C	GO-1040
Scrambler board	GP-1030	GP-1030	GP-1030	GP-1030	GP-1030
Parallel interface kit	GF-1140	GF-1140	GF-1140	GF-1140	GF-1140
NIC board	GF-1150	Standard	GF-1150	Standard	Standard
Printer/Scanner kit	GM-2020	Standard	GM-2020	Standard	GM-2020
Printer kit	GM-1020	GM-1020	GM-1020	GM-1020	GM-1020
Scanner upgrade kit	GM-3020	GM-3020	GM-3020	GM-3020	GM-3020
Desk	MH-1700	MH-1700	MH-1700	MH-1700	MH-1700
Harness kit for coin controller	GQ-1020	GQ-1020	GQ-1020	GQ-1020	GQ-1020

1 - 13 04/09

e-STUDIO230/230L

Area	North America	Central and South America/ Hong Kong	Australia	Europe	
Machine version (destination)	NAD (115V)	ASD (220-240V)	AUD (220-240V)	MJD (220-240V)	
Model name	e-STUDIO230	e-STUDIO230	e-STUDIO230	e-STUDIO230	e-STUDIO230L
Platen cover	KA-3511PC	KA-3511PC	KA-3511PC	KA-3511PC	KA-3511PC
RADF	MR-3016	MR-3016	MR-3016	MR-3016	MR-3016
Drawer module (for Equipment)	Standard	MY-1021	Standard	Standard	MY-1021
Drawer module (for PFP)	MY-1021	MY-1021	MY-1021	MY-1021	MY-1021
Slot cover	-	Standard	-	-	Standard
ADU	Standard	MD-0102	Standard	Standard	MD-0102
PFP	KD-1011	KD-1011	KD-1011	KD-1011	KD-1011
LCF	KD-1012LT	KD-1012A4	KD-1012A4	KD-1012A4	KD-1012A4
Finisher (Hanging type)	MJ-1022	MJ-1022	MJ-1022	MJ-1022	MJ-1022
Staple cartridge (for MJ-1022)	STAPLE-1600	STAPLE-1600	STAPLE-1600	STAPLE-1600	STAPLE-1600
Saddle stitch finisher	MJ-1025	MJ-1025	MJ-1025	MJ-1025	MJ-1025
Staple cartridge (for MJ-1025)	STAPLE-2000	STAPLE-2000	STAPLE-2000	STAPLE-2000	STAPLE-2000
Hole punch unit	MJ-6005N	MJ-6005E	MJ-6005E	MJ-6005E/F/S	MJ-6005E
Bridge kit	KN-3520	KN-3520E	KN-3520	KN-3520	KN-3520
Job separator	MJ-5004	MJ-5004	MJ-5004	MJ-5004	MJ-5004
Offset tray	MJ-5005	MJ-5005	MJ-5005	MJ-5005	MJ-5005
Key copy counter	MU-8	MU-8	MU-8	MU-8	MU-8
Key copy counter socket	MU-10	MU-10	MU-10	MU-10	MU-10
Work tray	KK-3511	KK-3511	KK-3511	KK-3511	KK-3511
Damp heater	MF-2320U	Standard	Standard	MF-2320E	MF-2320E
Fax board	GD-1150NA	GD-1150AS	GD-1150AU	GD-1150EU	GD-1150EU
2nd line for Fax board	GD-1160NA	GD-1160EU	GD-1160EU	GD-1160EU	GD-1160EU
Wireless LAN adapter	GN-1010	GN-1010	GN-1010	GN-1010	GN-1010
PCI slot	GO-1040	GO-1040	GO-1040	GO-1040	GO-1040
Scrambler board	GP-1030	GP-1030	GP-1030	GP-1030	GP-1030
Parallel interface kit	GF-1140	GF-1140	GF-1140	GF-1140	GF-1140
NIC board	Standard	GF-1150	Standard	Standard	GF-1150
Printer/Scanner kit	GM-2020	GM-2020	GM-2020	GM-2020	GM-2020
Printer kit	GM-1020	GM-1020	GM-1020	GM-1020	GM-1020
Scanner upgrade kit	GM-3020	GM-3020	GM-3020	GM-3020	GM-3020
Desk	MH-1700	MH-1700	MH-1700	MH-1700	MH-1700
Harness kit for coin controller	GQ-1020	GQ-1020	GQ-1020	GQ-1020	GQ-1020

Area	Asia	Saudi Arabia	China	Taiwan
Machine version (destination)	ASU (220-240V)	SAD (127V)	CND (220-240V)	TWD (110V)
Model name	e-STUDIO230	e-STUDIO230	e-STUDIO230	e-STUDIO230
Platen cover	KA-3511PC	KA-3511PC	Standard	KA-3511PC
RADF	MR-3016	MR-3016	MR-3016	MR-3016
Drawer module (for Equipment)	MY-1021	MY-1021	Standard	Standard
Drawer module (for PFP)	MY-1021	MY-1021	MY-1021	MY-1021
Slot cover	KE-2330	KE-2330	-	-
ADU	MD-0102	MD-0102	Standard	MD-0102
PFP	KD-1011	KD-1011	KD-1011	KD-1011
LCF	KD-1012A4	KD-1012A4	KD-1012A4	KD-1012A4
Finisher (Hanging type)	MJ-1022	MJ-1022	MJ-1022-C	MJ-1022
Staple cartridge (for MJ-1022)	STAPLE-1600	STAPLE-1600	STAPLE-1600	STAPLE-1600
Saddle stitch finisher	MJ-1025	MJ-1025	MJ-1025	MJ-1025
Staple cartridge (for MJ-1025)	STAPLE-2000	STAPLE-2000	STAPLE-2000	STAPLE-2000
Hole punch unit	MJ-6005E	MJ-6005E	MJ-6005E	MJ-6005E
Bridge kit	KN-3520	KN-3520	KN-3520-C	KN-3520
Job separator	MJ-5004	MJ-5004	MJ-5004-C	MJ-5004
Offset tray	MJ-5005	MJ-5005	MJ-5005-C	MJ-5005
Key copy counter	MU-8	MU-8	MU-8	MU-8
Key copy counter socket	MU-10	MU-10	MU-10	MU-10
Work tray	KK-3511	KK-3511	KK-3511	KK-3511
Damp heater	Standard	Standard	Standard	Standard
Fax board	GD-1150AS	GD-1150NA	GD-1150C	GD-1150TW
2nd line for Fax board	GD-1160EU	GD-1160NA	GD-1160C	GD-1160TW
Wireless LAN adapter	GN-1010	GN-1010	GN-1010	GN-1010
PCI slot	GO-1040	GO-1040	GO-1040C	GO-1040
Scrambler board	GP-1030	GP-1030	GP-1030	GP-1030
Parallel interface kit	GF-1140	GF-1140	GF-1140	GF-1140
NIC board	GF-1150	GF-1150	Standard	Standard
Printer/Scanner kit	GM-2020	GM-2020	Standard	GM-2020
Printer kit	GM-1020	GM-1020	GM-1020	GM-1020
Scanner upgrade kit	GM-3020	GM-3020	GM-3020	GM-3020
Desk	MH-1700	MH-1700	MH-1700	MH-1700
Harness kit for coin controller	GQ-1020	GQ-1020	GQ-1020	GQ-1020

1 - 15 04/09

e-STUDIO200L

Area	North America	Central and South America
Machine version (destination)	NAD (115V)	ASD (220-240V)
Model name	e-STUDIO200L	e-STUDIO200L
Platen cover	KA-3511PC	KA-3511PC
RADF	MR-3016	MR-3016
Drawer module (for Equipment)	MY-1021	MY-1021
Drawer module (for PFP)	MY-1021	MY-1021
Slot cover	Standard	Standard
ADU	MD-0102	MD-0102
PFP	KD-1011	KD-1011
LCF	KD-1012LT	KD-1012A4
Finisher (Hanging type)	MJ-1022	MJ-1022
Staple cartridge (for MJ-1022)	STAPLE-1600	STAPLE-1600
Saddle stitch finisher	MJ-1025	MJ-1025
Staple cartridge (for MJ-1025)	STAPLE-2000	STAPLE-2000
Hole punch unit	MJ-6005N	MJ-6005E
Bridge kit	KN-3520	KN-3520
Job separator	MJ-5004	MJ-5004
Offset tray	MJ-5005	MJ-5005
Key copy counter	MU-8	MU-8
Key copy counter socket	MU-10	MU-10
Work tray	KK-3511	KK-3511
Damp heater	MF-2320	Standard
Fax board	GD-1150NA	GD-1150AS
2nd line for Fax board	GD-1160NA	GD-1160EU
Wireless LAN adapter	GN-1010	GN-1010
PCI slot	GO-1040	GO-1040
Scrambler board	GP-1030	GP-1030
Parallel interface kit	GF-1140	GF-1140
NIC board	GF-1150	GF-1150
Printer/Scanner kit	GM-2030	GM-2030
Printer kit	GM-1030	GM-1030
Scanner upgrade kit	GM-3030	GM-3030
Desk	MH-1700	MH-1700
Harness kit for coin controller	GQ-1020	GQ-1020

1.5.2 e-STUDIO202L/203L/232/232S/233/282/282S/283/283S





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1 - 17 10/01

e-STUDIO282/282S/283/283S

Area	North America	Central and South Amer-	Argentina	Australia	Europe
		ica/Hong Kong	-		-
Machine version (destination)	NAD (115V)	ASD (220-240V)	ARD (220-240V)	AUD (220-240V)	MJD (220-240V)
Model name	e-STUDIO 282/283	e-STUDIO282	e-STUDIO 282/283	e-STUDIO282	e-STUDIO 282/283
Platen cover	KA-3511PC	KA-3511PC	KA-3511PC	KA-3511PC	KA-3511PC
RADF	MR-3020	MR-3020	MR-3020	MR-3020	MR-3020
Drawer module (for Equipment)	Standard	MY-1021	MY-1021	Standard	Standard
Drawer module (for PFP)	MY-1021	MY-1021	MY-1021	MY-1021	MY-1021
Slot cover	-	Standard	Standard	-	-
ADU	Standard	MD-0102	MD-0102	Standard	Standard
PFP	KD-1011	KD-1011-N	KD-1011	KD-1011	KD-1011
LCF	KD-1012LT	KD-1012A4	KD-1012A4	KD-1012A4	KD-1012A4
Finisher (Hanging type)	MJ-1022	MJ-1022	MJ-1022	MJ-1022	MJ-1022
Staple cartridge (for MJ-1022)	STAPLE-1600	STAPLE-1600	STAPLE-1600	STAPLE-1600	STAPLE-1600
Saddle stitch finisher	MJ-1025	MJ-1025	MJ-1025	MJ-1025	MJ-1025
Staple cartridge (for MJ-1025)	STAPLE-2000	STAPLE-2000	STAPLE-2000	STAPLE-2000	STAPLE-2000
Hole punch unit	MJ-6005N	MJ-6005E	MJ-6005E	MJ-6005E	MJ-6005E/F/S
Bridge kit	KN-3520	KN-3520	KN-3520	KN-3520	KN-3520
Job separator	MJ-5004	MJ-5004	MJ-5004	MJ-5004	MJ-5004
Offset tray	MJ-5005	MJ-5005	MJ-5005	MJ-5005	MJ-5005
Work tray	KK-3511	KK-3511	KK-3511	KK-3511	KK-3511
Damp heater	MF-2320U	Standard	Standard	Standard	MF-2320E
Fax board	GD-1150NA GD-1151NA	GD-1150AS GD-1151AS	GD-1150AS GD-1151AS	GD-1150AU GD-1151AU	GD-1150EU GD-1151EU
2nd line for Fax board	GD-1160NA GD-1260NA	GD-1160EU-N GD-1260EU	GD-1160EU-N GD-1260EU	GD-1160EU-N GD-1260EU	GD-1160EU-N GD-1260EU
Wireless LAN module	GN-1041	GN-1041	GN-1041	GN-1041	GN-1041
Bluetooth module	GN-2010	GN-2010	GN-2010	GN-2010	GN-2010
Antenna	GN-3010	GN-3010	GN-3010	GN-3010	GN-3010
PCI slot	GO-1060	GO-1060	GO-1060	GO-1060	GO-1060
Scrambler board	GP-1040	GP-1040	GP-1040	GP-1040	GP-1040
Printer kit	GM-1070/1071	GM-1070/1071	GM-1070/1071	GM-1070/1071	GM-1070/1071
Printer/Scanner kit	GM-2070/2071	GM-2070/2071	GM-2070/2071	GM-2070/2071	GM-2070/2071
Scanner kit	GM-4070	GM-4070	GM-4070	GM-4070	GM-4070
Data overwrite kit	GP-1060	GP-1060	GP-1060	GP-1060	GP-1060
Desk	MH-1700	MH-1700	MH-1700	MH-1700	MH-1700
Harness kit for coin controller	GQ-1020	GQ-1020	GQ-1020	GQ-1020	GQ-1020

Area	Asia	Saudi Arabia	China	
Machine version (destination)	ASU (220-240V)	SAD (127V)	CND (220-240V)	
Model name	e-STUDIO282	e-STUDIO282	e-STUDIO 282/283	e-STUDIO 282S/283S
Platen cover	KA-3511PC	KA-3511PC	Standard	Standard
RADF	MR-3020	MR-3020	MR-3020	MR-3020
Drawer module (for Equipment)	MY-1021	MY-1021	Standard	Standard
Drawer module (for PFP)	MY-1021	MY-1021	MY-1021-C	MY-1021-C
Slot cover	KE-2330	KE-2330	-	-
ADU	MD-0102	MD-0102	Standard	MD-0102-C
PFP	KD-1011	KD-1011	KD-1011-C	KD-1011-C
LCF	KD-1012	KD-1012A4	KD-1012A4-C	KD-1012A4-C
Finisher (Hanging type)	MJ-1022	MJ-1022	MJ-1022-C	MJ-1022-C
Staple cartridge (for MJ-1022)	STAPLE-1600	STAPLE-1600	STAPLE-1600	STAPLE-1600
Saddle stitch finisher	MJ-1025	MJ-1025	MJ-1025	MJ-1025
Staple cartridge (for MJ-1025)	STAPLE-2000	STAPLE-2000	STAPLE-2000	STAPLE-2000
Hole punch unit	MJ-6005E	MJ-6005E	MJ-6005E	MJ-6005E
Bridge kit	KN-3520	KN-3520	KN-3520-C	KN-3520-C
Job separator	MJ-5004	MJ-5004	MJ-5004-C	MJ-5004-C
Offset tray	MJ-5005	MJ-5005	MJ-5005-C	MJ-5005-C
Work tray	KK-3511	KK-3511	KK-3511-C	KK-3511-C
Damp heater	Standard	Standard	Standard	Standard
Fax board	GD-1150AS GD-1151AS	GD-1150NA GD-1151NA	GD-1150C GD-1151C	GD-1150C GD-1151C
2nd line for Fax board	GD-1160EU-N GD-1260EU	GD-1160NA GD-1260NA	GD-1160C GD-1260C	GD-1160C GD-1260C
Wireless LAN module	GN-1041	GN-1041	GN-1041	GN-1041
Bluetooth module	GN-2010	GN-2010	GN-2010	GN-2010
Antenna	GN-3010	GN-3010	GN-3010	GN-3010
PCI slot	GO-1060	GO-1060	GO-1060	GO-1060
Scrambler board	GP-1040	GP-1040	GP-1040	GP-1040
Printer kit	GM-1070/1071	GM-1070/1071	GM-1070/1071	-
Printer/Scanner kit	GM-2070/2071	GM-2070/2071	Standard	-
Scanner kit	GM-4070	GM-4070	GM-4070	-
Data overwrite kit	GP-1060	GP-1060	GP-1060	GP-1060
Desk	MH-1700	MH-1700	MH-1700	MH-1700
Harness kit for coin controller	GQ-1020	GQ-1020	GQ-1020	GQ-1020

Area	Taiwan	Korea
Machine version	TWD	KRD
(destination)	(110V)	(220-240V)
Model name	e-STUDIO282	e-STUDIO282
Platen cover	KA-3511PC	Standard
RADF	MR-3020	MR-3020
Drawer module (for Equipment)	Standard	Standard
Drawer module (for PFP)	MY-1021	MY-1021
Slot cover	-	-
ADU	MD-0102	MD-0102
PFP	KD-1011	KD-1011
LCF	KD-1012A4	KD-1012A
Finisher (Hanging type)	MJ-1022	MJ-1022
Staple cartridge (for MJ-1022)	STAPLE-1600	STAPLE-1600
Saddle stitch finisher	MJ-1025	MJ-1025
Staple cartridge (for MJ-1025)	STAPLE-2000	STAPLE-2000
Hole punch unit	MJ-6005E	MJ-6005E
Bridge kit	KN-3520	KN-3520
Job separator	MJ-5004	MJ-5004
Offset tray	MJ-5005	MJ-5005
Work tray	KK-3511	KK-3511
Damp heater	Standard	Standard
Fax board	GD-1150TW GD-1151TW	GD-1150AS GD-1151AS
2nd line for Fax board	GD-1160TW GD-1260TW	GD-1160EU-N GD-1260EU
Wireless LAN module	GN-1041	GN-1041
Bluetooth module	GN-2010	GN-2010
Antenna	GN-3010	GN-3010
PCI slot	GO-1060	GO-1060
Scrambler board	GP-1040	GP-1040
Printer kit	GM-1070/1071	GM-1070/1071
Printer/Scanner kit	GM-2070/2071	GM-2070/2071
Scanner kit	GM-4070	GM-4070
Data overwrite kit	GP-1060	GP-1060
Desk	MH-1700	MH-1700
Harness kit for coin controller	GQ-1020	GQ-1020

e-STUDIO232/232S/233

Area	North America	Central and South Amer- ica/Hong Kong	Argentina	Australia	Europe
Machine version (destination)	NAD (115V)	ASD (220-240V)	ARD (220-240V)	AUD (220-240V)	MJD (220-240V)
Model name	e-STUDIO 232/233	e-STUDIO232	e-STUDIO 232/233	e-STUDIO232	e-STUDIO 232/233
Platen cover	KA-3511PC	KA-3511PC	KA-3511PC	KA-3511PC	KA-3511PC
RADF	MR-3020	MR-3020	MR-3020	MR-3020	MR-3020
Drawer module (for Equipment)	Standard	MY-1021	MY-1021	Standard	Standard
Drawer module (for PFP)	MY-1021	MY-1021	MY-1021	MY-1021	MY-1021
Slot cover	-	Standard	Standard	-	-
ADU	Standard	MD-0102	MD-0102	Standard	Standard
PFP	KD-1011	KD-1011-N	KD-1011	KD-1011	KD-1011
LCF	KD-1012LT	KD-1012A4	KD-1012A4	KD-1012A4	KD-1012A4
Finisher (Hanging type)	MJ-1022	MJ-1022	MJ-1022	MJ-1022	MJ-1022
Staple cartridge (for MJ-1022)	STAPLE-1600	STAPLE-1600	STAPLE-1600	STAPLE-1600	STAPLE-1600
Saddle stitch finisher	MJ-1025	MJ-1025	MJ-1025	MJ-1025	MJ-1025
Staple cartridge (for MJ-1025)	STAPLE-2000	STAPLE-2000	STAPLE-2000	STAPLE-2000	STAPLE-2000
Hole punch unit	MJ-6005N	MJ-6005E	MJ-6005E	MJ-6005E	MJ-6005E/F/S
Bridge kit	KN-3520	KN-3520	KN-3520	KN-3520	KN-3520
Job separator	MJ-5004	MJ-5004	MJ-5004	MJ-5004	MJ-5004
Offset tray	MJ-5005	MJ-5005	MJ-5005	MJ-5005	MJ-5005
Work tray	KK-3511	KK-3511	KK-3511	KK-3511	KK-3511
Damp heater	MF-2320U	Standard	Standard	Standard	MF-2320E
Fax board	GD-1150NA GD-1151NA	GD-1150AS GD-1151AS	GD-1150AS GD-1151AS	GD-1150AU GD-1151AU	GD-1150EU GD-1151EU
2nd line for Fax board	GD-1160NA GD-1260NA	GD-1160EU-N GD-1260EU	GD-1160EU-N GD-1260EU	GD-1160EU-N GD-1260EU	GD-1160EU-N GD-1260EU
Wireless LAN module	GN-1041	GN-1041	GN-1041	GN-1041	GN-1041
Bluetooth module	GN-2010	GN-2010	GN-2010	GN-2010	GN-2010
Antenna	GN-3010	GN-3010	GN-3010	GN-3010	GN-3010
PCI slot	GO-1060	GO-1060	GO-1060	GO-1060	GO-1060
Scrambler board	GP-1040	GP-1040	GP-1040	GP-1040	GP-1040
Printer kit	GM-1070/1071	GM-1070/1071	GM-1070/1071	GM-1070/1071	GM-1070/1071
Printer/Scanner kit	GM-2070/2071	GM-2070/2071	GM-2070/2071	GM-2070/2071	GM-2070/2071
Scanner kit	GM-4070	GM-4070	GM-4070	GM-4070	GM-4070
Data overwrite kit	GP-1060	GP-1060	GP-1060	GP-1060	GP-1060
Desk	MH-1700	MH-1700	MH-1700	MH-1700	MH-1700
Harness kit for coin controller	GQ-1020	GQ-1020	GQ-1020	GQ-1020	GQ-1020

1 - 21 10/01

Area	Asia	Saudi Arabia	Ch	ina
Machine version (destination)	ASU (220-240V)	SAD (127V)	CND (220-240V)	
Model name	e-STUDIO232	e-STUDIO232	e-STUDIO 232/233	e-STUDIO232S
Platen cover	KA-3511PC	KA-3511PC	Standard	Standard
RADF	MR-3020	MR-3020	MR-3020	MR-3020
Drawer module (for Equipment)	MY-1021	MY-1021	Standard	Standard
Drawer module (for PFP)	MY-1021	MY-1021	MY-1021-C	MY-1021-C
Slot cover	KE-2330	KE-2330	-	-
ADU	MD-0102	MD-0102	Standard	MD-0102-C
PFP	KD-1011	KD-1011	KD-1011-C	KD-1011-C
LCF	KD-1012	KD-1012A4	KD-1012A4-C	KD-1012A4-C
Finisher (Hanging type)	MJ-1022	MJ-1022	MJ-1022-C	MJ-1022-C
Staple cartridge (for MJ-1022)	STAPLE-1600	STAPLE-1600	STAPLE-1600	STAPLE-1600
Saddle stitch finisher	MJ-1025	MJ-1025	MJ-1025	MJ-1025
Staple cartridge (for MJ-1025)	STAPLE-2000	STAPLE-2000	STAPLE-2000	STAPLE-2000
Hole punch unit	MJ-6005E	MJ-6005E	MJ-6005E	MJ-6005E
Bridge kit	KN-3520	KN-3520	KN-3520-C	KN-3520-C
Job separator	MJ-5004	MJ-5004	MJ-5004-C	MJ-5004-C
Offset tray	MJ-5005	MJ-5005	MJ-5005-C	MJ-5005-C
Work tray	KK-3511	KK-3511	KK-3511-C	KK-3511-C
Damp heater	Standard	Standard	Standard	Standard
Fax board	GD-1150AS GD-1151AS	GD-1150NA GD-1151NA	GD-1150C GD-1151C	GD-1150C GD-1151C
2nd line for Fax board	GD-1160EU-N GD-1260EU	GD-1160NA GD-1260NA	GD-1160C GD-1260C	GD-1160C GD-1260C
Wireless LAN module	GN-1041	GN-1041	GN-1041	GN-1041
Bluetooth module	GN-2010	GN-2010	GN-2010	GN-2010
Antenna	GN-3010	GN-3010	GN-3010	GN-3010
PCI slot	GO-1060	GO-1060	GO-1060	GO-1060
Scrambler board	GP-1040	GP-1040	GP-1040	GP-1040
Printer kit	GM-1070/1071	GM-1070/1071	GM-1070/1071	-
Printer/Scanner kit	GM-2070/2071	GM-2070/2071	Standard	-
Scanner kit	GM-4070	GM-4070	GM-4070	-
Data overwrite kit	GP-1060	GP-1060	GP-1060	GP-1060
Desk	MH-1700	MH-1700	MH-1700	MH-1700
Harness kit for coin controller	GQ-1020	GQ-1020	GQ-1020	GQ-1020

Area	Taiwan	Korea
Machine version	TWD	KRD
(destination)	(110V)	(220-240V)
Model name	e-STUDIO232	e-STUDIO232
Platen cover	KA-3511PC	Standard
RADF	MR-3020	MR-3020
Drawer module (for Equipment)	Standard	Standard
Drawer module (for PFP)	MY-1021	MY-1021
Slot cover	-	-
ADU	MD-0102	MD-0102
PFP	KD-1011-TW	KD-1011
LCF	KD-1012A4	KD-1012A4
Finisher (Hanging type)	MJ-1022	MJ-1022
Staple cartridge (for MJ-1022)	STAPLE-1600	STAPLE-1600
Saddle stitch finisher	MJ-1025	MJ-1025
Staple cartridge (for MJ-1025)	STAPLE-2000	STAPLE-2000
Hole punch unit	MJ-6005E	MJ-6005E
Bridge kit	KN-3520	KN-3520
Job separator	MJ-5004	MJ-5004
Offset tray	MJ-5005	MJ-5005
Work tray	KK-3511	KK-3511
Damp heater	Standard	Standard
Fax board	GD-1150TW GD-1151TW	GD-1150AS GD-1151AS
2nd line for Fax board	GD-1160TW GD-1260TW	GD-1160EU-N GD-1260EU
Wireless LAN module	GN-1041	GN-1041
Bluetooth module	GN-2010	GN-2010
Antenna	GN-3010	GN-3010
PCI slot	GO-1060	GO-1060
Scrambler board	GP-1040	GP-1040
Printer kit	GM-1070/1071	GM-1070/1071
Printer/Scanner kit	GM-2070/2071	GM-2070/2071
Scanner kit	GM-4070	GM-4070
Data overwrite kit	GP-1060	GP-1060
Desk	MH-1700	MH-1700
Harness kit for coin controller	GQ-1020	GQ-1020

1 - 23 10/01

e-STUDIO202L/203L

Area	North America	Argentina
Machine version	NAD (115)()	ARD (220-240\/)
Model name		
Model Hame	202L/203L	202L/203L
Platen cover	KA-3511PC	KA-3511PC
RADF	MR-3020	MR-3020
Drawer module (for Equipment)	MY-1021	MY-1021
Drawer module (for PFP)	MY-1021	MY-1021
Slot cover	Standard	Standard
ADU	MD-0102	MD-0102
PFP	KD-1011	KD-1011-N
LCF	KD-1012LT	KD-1012A4
Finisher (Hanging type)	MJ-1022	MJ-1022
Staple cartridge (for MJ-1022)	STAPLE-1600	STAPLE-1600
Saddle stitch finisher	MJ-1025	MJ-1025
Staple cartridge (for MJ-1025)	STAPLE-2000	STAPLE-2000
Hole punch unit	MJ-6005N	MJ-6005E
Bridge kit	KN-3520	KN-3520
Job separator	MJ-5004	MJ-5004
Offset tray	MJ-5005	MJ-5005
Work tray	KK-3511	KK-3511
Damp heater	MF-2320U	Standard
Fax board	GD-1150NA GD-1151NA	GD-1150AS GD-1151AS
2nd line for Fax board	GD-1160NA GD-1260NA	GD-1160EU-N GD-1260EU
Wireless LAN module	GN-1041	GN-1041
Bluetooth module	GN-2010	GN-2010
Antenna	GN-3010	GN-3010
PCI slot	GO-1060	GO-1060
Scrambler board	GP-1040	GP-1040
Printer kit	GM-1080U/ 1081U	GM-1080U/ 1081U
Printer/Scanner kit	GM-2080U/ 2081U	GM-2080U/ 2081U
Scanner kit	GM-4080U	GM-4080U
Data overwrite kit	GP-1060	GP-1060
Desk	MH-1700	MH-1700
Harness kit for coin controller	GQ-1020	GQ-1020
2. ERROR CODE AND SELF-DIAGNOSTIC MODE

2.1 Error Code List

One of the following error codes is displayed at the upper right of the screen while pressing the [CLEAR] button and the digital key [8] simultaneously when the "CLEAR PAPER" or "CALL SER-VICE" symbol is blinking.

2.1.1 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. 5-1
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. 5-1
E030	Other paper jam	Power-ON jam: The paper is remaining on the paper transport path when power is turned ON.	P. 5-2
E061		Incorrect paper size setting for upper drawer: The size of paper in the 1st drawer differs from size set- ting of the equipment.	P. 5-2
E062		Incorrect paper size setting for lower drawer: The size of paper in the 2nd drawer differs from size setting of the equipment.	P. 5-2
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. 5-2
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. 5-2
E065		Incorrect paper size setting for bypass tray: The size of paper in the bypass tray differs from size setting of the equipment.	P. 5-2
E090		HDD abnormality causes jam: Image data to be printed cannot be prepared.	P. 5-3
E110	Paper misfeeding	ADU misfeeding (Paper not reaching the 1st trans- port sensor): The paper which has passed through ADU does not reach the 1st transport sensor during duplex printing.	P. 5-15
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. 5-16
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. 5-17
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. 5-18
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. 5-19

Error code	Classification	Contents	Troubleshooting
E160	Paper misfeeding	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. 5-20
E190		LCF misfeeding (Paper not reaching the LCF feed sensor): The paper fed from the LCF does not reach the LCF feed sensor.	P. 5-21
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. 5-3
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. 5-3
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. 5-4
E270		Bypass transport jam (paper not reaching the regis- tration sensor): The paper does not reach the regis- tration sensor after it has passed the 1st transport sensor.	P. 5-5
E280		ADU transport jam (paper not reaching the registra- tion sensor): The paper which has passed through ADU and the 1st transport sensor does not reach the registration sensor during duplex printing.	P. 5-5
E300		PFP upper drawer transport jam (Paper not reach- ing the registration sensor): The paper does not reach the registration sensor after it has passed the 1st transport sensor.	P. 5-3
E310		PFP upper drawer transport jam (Paper not reach- ing the 1st transport sensor): The paper does not reach the 1st transport sensor after it has passed the 2nd transport sensor.	P. 5-4
E320		PFP upper drawer transport jam (Paper not reach- ing the 2nd transport sensor): The paper does not reach the 2nd transport sensor after it has passed the PFP upper drawer feed sensor.	P. 5-6
E330		PFP lower drawer transport jam (Paper not reach- ing the registration sensor): The paper does not reach the registration sensor after it has passed the 1st transport sensor.	P. 5-3
E340		PFP lower drawer transport jam (Paper not reach- ing the 1st transport sensor): The paper does not reach the 1st transport sensor after it has passed the PFP lower drawer feed sensor.	P. 5-4
E350		PFP lower drawer transport jam (Paper not reach- ing the 2nd transport sensor): The paper does not reach the 2nd transport sensor after it has passed the PFP upper drawer feed sensor.	P. 5-6
E360		PFP lower drawer transport jam (Paper not reach- ing 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 sen- sor.	P. 5-7

Error code	Classification	Contents	Troubleshooting
E3C0	Paper transport jam	LCF transport jam (Paper not reaching the registra- tion sensor): The paper does not reach the registra- tion sensor after it has passed the 1st transport sensor.	P. 5-3
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. 5-4
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. 5-6
E400	Cover open jam	Transfer cover open jam: The transfer cover has opened during printing.	P. 5-22
E410		Front cover open jam: The front cover has opened during printing.	P. 5-23
E420		PFP side cover open jam: The PFP side cover has opened during printing.	P. 5-24
E430		ADU open jam: The ADU has opened during print- ing.	P. 5-25
E440		Side cover open jam: The side cover has opened during printing.	P. 5-25
E450		LCF side cover open jam: The LCF side cover has opened during printing.	P. 5-26
E480		Bridge unit open jam: The bridge unit has opened during printing.	P. 5-26
E490		Job separator cover open jam: The job separator cover has opened during printing.	P. 5-27
E491		Offset tray cover open jam: The offset tray cover has opened during printing.	P. 5-27
E510	Paper transport jam (ADU section)	Stop jam in the ADU: The paper does not reach the ADU exit sensor after it has passed the ADU entrance sensor.	P. 5-8
E520		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. 5-9
E550	Other paper 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. 5-10

Error code	Classification	Contents	Troubleshooting
E711	RADF jam	Jam not reaching the original length sensor: The original fed from the original feeding tray does not reach the original length sensor.	P. 5-28
E712		Jam not reaching the registration sensor: The origi- nal fed from the original feeding tray does not reach the registration sensor.	P. 5-28
E713		Stop jam at the original length sensor: The trailing edge of the original does not pass the original length sensor after its leading edge has reached this sensor.	P. 5-28
E714		Feed signal reception jam: The feed signal is received even no original exists on the original feeding tray.	P. 5-29
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. 5-29
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. 5-30
E723	-	Jam not reaching the reverse sensor (during scan- ning): The original which passed the read sensor does not reach the reverse sensor when it is trans- ported from the scanning section to reverse section.	P. 5-30
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 sen- sor.	P. 5-30
E725		Stop jam at the read sensor: The trailing edge of the original does not pass the read sensor after its lead-ing edge has reached this sensor.	P. 5-31
E726		Transport/exit signal reception jam: RADF receives the transport/exit reception signal from the equip- ment when no original is at the exposure waiting position.	P. 5-31
E731		Stop jam at the exit sensor: The trailing edge of the original does not pass the exit sensor after its lead- ing edge has reached this sensor.	P. 5-32
E741		Stop jam at the reverse sensor: The trailing edge of the original does not pass the reversal sensor after its leading edge has reached this sensor.	P. 5-32
E742		Jam not reaching the reverse sensor (during reverse feeding): The leading edge of the original does not reach the reverse sensor when original is fed from the reverse section.	P. 5-33
E743		Jam not reaching the exit sensor (during reverse feeding): The original does not reach the exit sensor after it has passed the reverse sensor when the original is exited from the reverse section.	P. 5-33
E860		RADF jam access cover open: The RADF jam access cover has opened during RADF operation.	P. 5-34
E870		RADF open jam: RADF has opened during RADF operation.	P. 5-34

Error code	Classification	Contents	Troubleshooting
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. 5-35
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. 5-35
E930		Jam at the bridge unit transport sensor-2: The trail- ing 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. 5-35
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. 5-35
E950	Job separator jam	Jam not reaching the job separator transport sen- sor: The paper has passed through the exit sensor does not reach the job separator transport sensor.	P. 5-11
E951		Stop jam at the job separator transport sensor: The trailing edge of the paper does not pass the job separator transport sensor.	P. 5-11
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. 5-11
E961		Stop jam at the offset tray transport sensor: The trailing edge of the paper does not pass the offset tray transport sensor.	P. 5-11
E9F0	Finisher jam (Puncher unit)	Punching jam: Punching is not performed properly. [MJ-1025 (When MJ-6005 is installed)]	P. 5-36
EA10	Finisher jam (Finisher unit)	Paper transport delay jam: The paper which has passed the bridge unit does not reach the inlet sensor. [MJ-1022/1025]	P. 5-37
EA20		Paper transport stop jam: The paper does not pass through the inlet sensor. [MJ-1022/1025]	P. 5-38
EA30		Power-ON jam: Paper exists at the inlet sensor when power is turned ON. [MJ-1022/1025]	P. 5-39
EA40		Door open jam: The finisher has been released from the equipment during printing. [MJ-1022/1025]	P. 5-40
EA50		Stapling jam: Stapling is not performed properly. [MJ-1022/1025]	P. 5-41
EA60		Early arrival jam: The inlet sensor detects the paper earlier than a specified timing. [MJ-1022]	P. 5-42
EA70		Stack delivery jam: It cannot deliver the stack of paper on the intermediary process tray to the stack tray. [MJ-1022/1025]	P. 5-43
EAB0	Finisher jam (Saddle Stitcher sec- tion)	Saddle paper transport stop jam: The paper which passed through the inlet sensor does not reach or pass through the folding position sensor. [MJ-1025]	P. 5-45
EAC0		Saddle transport delay jam: The paper which has reached the inlet sensor does not pass through this sensor. [MJ-1025]	P. 5-45
EAD0	Other paper jam	Print end command time-out jam: The printing has not finished normally because of the communica- tion error between the SYS board and LGC board at the end of printing.	P. 5-46

Error code	Classification	Contents	Troubleshooting
EAE0	Finisher jam	Receiving time 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 fin- isher.	P. 5-46
EAF0	Finisher jam (Finisher unit)	Stack return jam: It cannot load the paper which passed through the delivery roller on the intermediary process tray. [MJ-1022]	P. 5-44
EB30	Finisher jam	Ready time 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. 5-46
EB50	Paper transport jam	Paper remaining on the transport path: The multiple feeding of preceding paper caused the misfeeding of upcoming paper.	P. 5-12
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. 5-14

2.1.2 Service call

Error code	Classification	Contents	Troubleshooting
C010	Drive system related service call	Main motor abnormality: The main motor is not rotating normally.	P. 5-47
C040	Paper feeding sys- tem related ser-	PFP motor abnormality: The PFP motor is not rotating normally.	P. 5-48
C130	vice call	Upper drawer tray abnormality: The upper drawer tray motor is not rotating or the upper drawer tray is not mov- ing normally.	P. 5-49
C140	-	Lower drawer tray abnormality: The lower drawer tray motor is not rotating or the lower drawer tray is not mov- ing normally.	P. 5-49
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. 5-50
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. 5-50
C180		LCF tray-up motor abnormality: The LCF tray-up motor is not rotating or the LCF tray is not moving normally.	P. 5-51
C1A0		LCF end fence motor abnormality: The LCF end fence motor is not rotating or the LCF end fence is not moving normally.	P. 5-52
C1B0		LCF transport motor abnormality: The LCF transport motor is not rotating normally.	P. 5-53
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. 5-54
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. 5-55
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. 5-55
C410	Fuser unit related service call	Thermistor or heater abnormality at power-ON: Abnor- mality 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.	P. 5-56
C430		Thermistor abnormality after abnormality judgment: Abnormality of the thermistor is detected after a specified period of time has passed from power-ON (including ready state).	P. 5-57
C440		Heater abnormality after abnormality judgment: The tem- perature of the fuser roller has exceeded the range of control (in this case, the main switch turns OFF automati- cally) or does not even reach the range.	P. 5-57
C450		Thermistor abnormality during printing: Abnormality of the thermistor is detected during printing.	P. 5-57
C550 (C780)	Optional communi- cation related ser-	RADF I/F error: Communication error has occurred between the RADF and the scanner.	P. 5-58
C570	vice call	Communication error between Engine-CPU and IPC board	P. 5-58
C580	1	Communication error between IPC board and finisher	P. 5-58

Error code	Classification	Contents	Troubleshooting
C730	RADF related ser- vice call	EEPROM initialization error: EEPROM is not initialized normally when performing the code 05-356.	P. 5-59
C740	-	Reverse sensor adjustment error	P. 5-59
C810		Fan motor abnormality: The fan motor is not rotating nor- mally.	P. 5-59
C820		Read sensor adjustment error: The read sensor cannot be adjusted normally when performing the code 05-356.	P. 5-59
C830		Original length sensor adjustment error: The original length sensor cannot be adjusted normally when per- forming the code 05-356.	P. 5-59
C940	Circuit related ser- vice call	Engine-CPU abnormality	P. 5-76
C970	Process related service call	High-voltage transformer abnormality: Leakage of the main charger is detected.	P. 5-76
CA10	Laser optical unit related service call	Polygonal motor abnormality: The polygonal motor is not rotating normally.	P. 5-60
CA20		H-Sync detection error: H-Sync detection PC board can- not detect laser beams.	P. 5-60
CB10	Finisher related service call	Transport motor abnormality: The transport motor or stack transport roller is not rotating normally. [MJ-1025]	P. 5-61
CB20		Delivery motor abnormality: Delivery motor or delivery roller is not rotating normally. [MJ-1022/1025]	P. 5-62
CB30		Tray lift motor abnormality: The tray lift motor is not rotat- ing normally or the delivery tray is not moving normally. [MJ-1025]	P. 5-63
CB50		Staple motor (staple/fold) abnormality: The staple motor is not rotating normally or the stapler is not moving nor- mally. [MJ-1025]	P. 5-64
CB60		Stapler unit shift motor abnormality: The stapler unit shift motor is not rotating normally or the Stapler Unit is not moving normally. [MJ-1025]	P. 5-66
CB80	-	 Backup RAM data abnormality: 1) Abnormality of checksum value on finisher controller board is detected when the power is turned on. [MJ-1025] 2) Abnormality of checksum value on punch controller board is detected when the power is turned on. [MJ-1025 (when MJ-6005 is installed)] 	P. 5-67
CC30		Stack processing motor abnormality: The stack process- ing motor is not rotating normally or the stack delivery belt is not moving normally. [MJ-1022] Paddle motor abnormality: The paddle motor is not rotat- ing normally or the swing guide is not moving normally. [MJ-1025]	P. 5-67
CC50		Horizontal registration motor abnormality: The horizontal registration motor is not rotating normally or the puncher is not moving normally. [MJ-1025 (when MJ-6005 is installed)]	P. 5-69
CC60	-	Punch motor abnormality: The punch motor is not rotating normally or the puncher is not moving normally. [MJ-1025 (when MJ-6005 is installed)]	P. 5-69
CC80		Front jogging motor abnormality: Front jogging motor is not rotating normally or the front alignment plate is not moving normally. [MJ-1022] Alignment motor (front) abnormality: The alignment motor (front) is not rotating normally or the front alignment plate is not moving normally. [MJ-1025]	P. 5-70
CC90		Upper stack tray lift motor abnormality: The upper stack tray lift motor is not rotating or the upper stack tray is not moving normally. [MJ-1022]	P. 5-71

Error code	Classification	Contents	Troubleshooting
CCA0	Finisher related service call	Lower stack tray lift motor abnormality: The lower stack tray lift motor is not rotating or the lower stack tray is not moving normally. [MJ-1022]	P. 5-72
CCB0		Rear jogging motor abnormality: Rear jogging motor is not rotating normally or the rear alignment plate is not moving normally. [MJ-1022] Alignment motor (rear) abnormality: The alignment motor (rear) is not rotating normally or the rear alignment plate is not moving normally. [MJ-1025]	P. 5-73
CDC0		Punch power failure abnormality: 24 V is not applied to the punch controller board. [MJ-1025 (when MJ-6005 is installed)]	P. 5-74
CDD0		Folding position sensor abnormality: Automatic adjust- ment of the folding position sensor can not be performed properly. [MJ-1025]	P. 5-74
CDE0		Paddle motor abnormality: The paddle motor does not rotate properly. [MJ-1025]	P. 5-75
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. 5-76
CE00	Finisher related service call	Communication error between finisher unit and puncher unit: Communication error between the finisher controller PC board and punch controller PC board. [MJ-1025 (when MJ-6005 is installed)]	P. 5-75
CF60	Other service call	Toner for recycle transport area lock	P. 5-76
F070	Communication related service call	Communication error between System-CPU and Engine- CPU	P. 5-58
F090	Other service call	SRAM abnormality on the SYS board	P. 5-76
F091		NVRAM abnormality on the SYS board	P. 5-77
F092	_	SRAM and NVRAM abnormality on the SYS board	P. 5-78
F100	-	HDD format error: HDD cannot be initialized normally.	P. 5-79
F101		HDD unmounted: Connection of HDD cannot be detected.	P. 5-79
F102	_	HDD start error: HDD cannot become 'Ready' state.	P. 5-79
F103		HDD transfer time-out: Reading/writing cannot be per- formed in the specified period of time.	P. 5-79
F104		HDD data error: Abnormality is detected in the data of HDD.	P. 5-79
F105		HDD other error	P. 5-79
F106		Point and Print partition damage	P. 5-79
F107		/SHR partition damage	P. 5-79
F108		/SHA partition damage	P. 5-79
F110	Communication related service call	Communication error between System-CPU and Scan- ner-CPU	P. 5-58
F111		Scanner response abnormality	P. 5-58
F120	Other service call	Database abnormality: Database is not operating nor- mally.	P. 5-79
F130]	Invaid MAC address	P. 5-79
F200		Data overwrite kit (GP-1050/1060) is taken off	P. 5-80

2.1.3 Error in Internet FAX / Scanning Function

1) Internet FAX related error

Error code	Contents	Troubleshooting
1C10	System access abnormality	P. 5-81
1C11	Insufficient memory	P. 5-81
1C12	Message reception error	P. 5-81
1C13	Message transmission error	P. 5-81
1C14	Invalid parameter	P. 5-81
1C15	Exceeding file capacity	P. 5-81
1C20	System management module access abnormality	P. 5-81
1C21	Job control module access abnormality	P. 5-81
1C22	Job control module access abnormality	P. 5-81
1C30	Directory creation failure	P. 5-82
1C31	File creation failure	P. 5-82
1C32	File deletion failure	P. 5-81
1C33	File access failure	P. 5-82
1C40	Image conversion abnormality	P. 5-82
1C60	HDD full failure during processing	P. 5-82
1C61	Address Book reading failure	P. 5-82
1C62	Memory acquiring failure	P. 5-82
1C63	Terminal IP address unset	P. 5-82
1C64	Terminal mail address unset	P. 5-82
1C65	SMTP address unset	P. 5-82
1C66	Server time time-out error	P. 5-82
1C67	NIC time time-out error	P. 5-82
1C68	NIC access error	P. 5-82
1C69	SMTP server connection error	P. 5-83
1C6A	HOST NAME error	P. 5-83
1C6B	Terminal mail address error	P. 5-83
1C6C	Destination mail address error	P. 5-83
1C6D	System error	P. 5-82
1C70	SMTP client OFF	P. 5-83
1C71	SMTP authentication error	P. 5-83
1C72	POP before SMTP error	P. 5-83
1C80	Internet FAX transmission failure when processing E-mail job received	P. 5-83
1C81	Onramp Gateway transmission failure	P. 5-83
1C82	Internet FAX transmission failure when processing FAX job received	P. 5-83
1CC0	Job canceling	-
1CC1	Power failure	P. 5-83

2) RFC related error

Error code	Message displayed in the TopAccess screen	Contents	Troubleshooting
2500	Syntax error, command unrecog- nized	HOST NAME error (RFC: 500) Destination mail address error (RFC: 500) Terminal mail address error (RFC: 500)	P. 5-84
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. 5-84
2503	Bad sequence of commands	Destination mail address error (RFC: 503)	P. 5-84
2504	Command parameter not imple- mented	HOST NAME error (RFC: 504)	P. 5-84
2550	Mailbox unavailable	Destination mail address error (RFC: 550)	P. 5-84
2551	User not local	Destination mail address error (RFC: 551)	P. 5-84
2552	Insufficient system storage	Terminal/Destination mail address error (RFC: 552)	P. 5-84
2553	Mailbox name not allowed	Destination mail address error (RFC: 553)	P. 5-84

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. 5-85
2B11	Job status failed.	JOB status abnormality	P. 5-85
2B20	Failed to access file.	File library function error	P. 5-85
2B21	Message size exceeded limit or maximum size	Exceeding file capacity	P. 5-85
2B30	Insufficient disk space.	Insufficient disk space in /SHR partition	P. 5-85
2B31	Failed to access Electronic Filing.	Status of specified Electronic Filing or folder is undefined or being created/ deleted	P. 5-85
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. 5-85
2B50	Failed to process image.	Image library error	P. 5-85
2B51	Failed to process print image.	List library error	P. 5-85
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. 5-85
2BA0	Invalid Box password specified.	Invalid Box password	P. 5-86
2BA1	Incorrect paper size	A Paper size not supported in the Elec- tronic Filing function is being selected.	P. 5-86
2BB0	Job canceled	Job canceling	-
2BB1	Power failure occurred	Power failure	P. 5-86
2BC0	System fatal error.	Fatal failure occurred.	P. 5-85
2BC1	Failed to acquire resource.	System management module resource acquiring failure	P. 5-85
2BD0	Power failure occurred during e- Filing restoring.	Power failure occurred during restoring of Electronic Filing	P. 5-86
2BE0	Failed to get machine parameter.	Machine parameter reading failure	P. 5-86
2BF0	Maximum number of pages has been exceeded (list Maximum)	Exceeding maximum number of pages	P. 5-86
2BF1	Maximum number of documents has been exceeded (list Maxi- mum)	Exceeding maximum number of docu- ments	P. 5-86
2BF2	Maximum number of folders has been exceeded (list Maximum)	Exceeding maximum number of folders	P. 5-86

3) Electronic Filing related error

4) E-mail related error

Error code	Message displayed in the	Contents	Troubleshooting
Lifer code	TopAccess screen	Contents	noubleshooting
2C10	Illegal Job status	System access abnormality	P. 5-87
2C11	Not enough memory	Insufficient memory	P. 5-87
2C12	Illegal Job status	Message reception error	P. 5-87
2C13	Illegal Job status	Message transmission error	P. 5-87
2C14	Invalid parameter specified	Invalid parameter	P. 5-87
2C15	Message size exceeded limit or maximum size	Exceeding file capacity	P. 5-87
2C20	Illegal Job status	System management module access abnormality	P. 5-87
2C21	Illegal Job status	Job control module access abnormality	P. 5-87
2C22	Illegal Job status	Job control module access abnormality	P. 5-87
2C30	Failed to create directory	Directory creation failure	P. 5-87
2C31	Failed to create file	File creation failure	P. 5-87
2C32	Failed to delete file	File deletion failure	P. 5-87
2C33	Failed to create file	File access failure	P. 5-87
2C40	Failed to convert image file format	Image conversion abnormality	P. 5-87
2C43	Encryption error. Failed to create file.	Encryption error	P. 5-88
2C44	Creating the image file was not permitted.	Encryption PDF enforced mode error	P. 5-88
2C60	Failed to process your Job. Insufficient disk space.	HDD full failure during processing	P. 5-88
2C61	Failed to read AddressBook	Address Book reading failure	P. 5-88
2C62	Not enough memory	Memory acquiring failure	P. 5-87
2C63	Invalid Domain Address	Terminal IP address unset	P. 5-88
2C64	Invalid Domain Address	Terminal mail address unset	P. 5-88
2C65	Failed to connect to SMTP server	SMTP address unset	P. 5-88
2C66	Failed to connect to SMTP server	Server time time-out error	P. 5-88
2C67	Failed to send E-Mail message	NIC time time-out error	P. 5-88
2C68	Failed to send E-Mail message	NIC access error	P. 5-88
2C69	Failed to connect to SMTP server	SMTP server connection error	P. 5-88
2C6A	Failed to send E-Mail message	HOST NAME error (No RFC error)	P. 5-88
2C6B	Invalid address specified in From: field	Terminal mail address error	P. 5-89
2C6C	Invalid address specified in To: field	Destination mail address error (No RFC error)	P. 5-89
2C6D	NIC system error	System error	P. 5-88
2C70	SMTP service is not available	SMTP client OFF	P. 5-89
2C71	Failed SMTP Authentication	SMTP authentication error	P. 5-89
2C72	POP Before SMTP Authentication Failed	POP before SMTP error	P. 5-89
2C80	Failed to process received E-mail job	E-mail transmission failure when pro- cessing E-mail job received	P. 5-89
2C81	Failed to process received Fax job	Process failure of FAX job received	P. 5-89
2CC0	Job canceled	Job canceling	-
2CC1	Power failure occurred	Power failure	P. 5-89

5) File sharing related error

Error code	Message displayed in the TopAccess screen	Contents	Troubleshooting
2D10	Illegal Job status	System access abnormality	P. 5-90
2D11	Not enough memory	Insufficient memory	P. 5-90
2D12	Illegal Job status	Message reception error	P. 5-90
2D13	Illegal Job status	Message transmission error	P. 5-90
2D14	Invalid parameter specified	Invalid parameter	P. 5-90
2D15	There are too many documents in the folder. Failed in creating new document.	Exceeding document number	P. 5-90
2D20	Illegal Job status	System management module access abnormality	P. 5-90
2D21	Illegal Job status	Job control module access abnormality	P. 5-90
2D22	Illegal Job status	Job control module access abnormality	P. 5-90
2D30	Failed to create directory	Directory creation failure	P. 5-90
2D31	Failed to create file	File creation failure	P. 5-90
2D32	Failed to delete file	File deletion failure	P. 5-90
2D33	Failed to create file	File access failure	P. 5-90
2D40	Failed to convert image file for- mat	Image conversion abnormality	P. 5-91
2D43	Encryption error. Failed to create file.	Encryption error	P. 5-91
2D44	Creating the image file was not permitted.	Encryption PDF enforced mode error	P. 5-91
2D60	Failed to copy file	File library access abnormality	P. 5-90
2D61	Invalid parameter specified	Invalid parameter	P. 5-90
2D62	Failed to connect to network des- tination. Check destination path	File server connection error	P. 5-91
2D63	Specified network path is invalid. Check destination path	Invalid network path	P. 5-91
2D64	Logon to file server failed. Check username and password	Login failure	P. 5-91
2D65	There are too many documents in the folder. Failed in creating new document.	Exceeding documents in folder: Creating new document is failed.	P. 5-91
2D66	Failed to process your Job. Insuf- ficient disk space.	HDD full failure during processing	P. 5-91
2D67	FTP service is not available	FTP service not available	P. 5-91
2D68	File Sharing service is not avail- able	File sharing service not available	P. 5-91
2DA0	Expired scan documents deleted from share folder.	Periodical deletion of scanned docu- ments 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 doc- uments completed properly.	-
2DA3	Scanned documents in shared folder deleted upon user's request.	Manual deletion of scanned documents completed properly.	-

Error code	Message displayed in the TopAccess screen	Contents	Troubleshooting
2DA4	Sent Fax Documents in shared folder deleted upon user's request.	Manual deletion of transmitted FAX doc- uments completed properly.	-
2DA5	Received Fax Documents in shared folder deleted upon user's request.	Manual deletion of received FAX docu- ments completed properly.	-
2DA6	Failed to delete file.	File deletion failure	P. 5-90
2DA7	Failed to acquire resource.	Resource acquiring failure	P. 5-90
2DA8	The HDD is running out of capac- ity 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. 5-91

6) 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. 5-92
3A11	MIME Error has been detected in the received mail. This mail has been transferred to the adminis- trator.		P. 5-92
3A12	MIME Error has been detected in the received mail. This mail could not be transferred to the adminis- trator.		P. 5-92
3A20	Analyze Error has been detected in the received mail.	E-mail analysis error	P. 5-92
3A21	Analyze Error has been detected in the received mail. This mail has been transferred to the administrator.		P. 5-92
3A22	Analyze Error has been detected in the received mail. This mail could not be transferred to the administrator.		P. 5-92
3A30	Whole partial mails were not reached by timeout.	Partial mail time-out error	P. 5-92
3A40	Partial Mail Error has been detected in the received mail.	Partial mail related error	P. 5-92
3A50	HDD Full Error has been occurred in this mail.	Insufficient HDD capacity error	P. 5-92
3A51	HDD Full Error has been occurred in this mail. This mail has been transferred to the administrator.		P. 5-92
3A52	HDD Full Error has been occurred in this mail. This mail could not be transferred to the administrator.		P. 5-92
3A60	HDD Full Warning has been occurred in this mail.	Warning of insufficient HDD capacity	P. 5-92
3A61	HDD Full Warning has been occurred in this mail. This mail could not be transferred to the administrator.		P. 5-92
3A62	HDD Full Warning has been occurred in this mail. This mail could not be transferred to the administrator.		P. 5-92
3A70	Receiving partial mail was aborted since the partial mail set- ting has been changed to Dis- able.	Warning of partial mail interruption	P. 5-92

Error code	Message displayed in the TopAccess screen	Contents	Troubleshooting
3A80	Partial mail was received during the partial mail setting is disabled.	Partial mail reception setting OFF	P. 5-92
3A81	Partial mail was received during the partial mail setting is disabled. This mail has been transferred to the administrator.		P. 5-92
3A82	Partial mail was received during the partial mail setting is disabled. This mail could not be transferred to the administrator.		P. 5-92
3B10	Format Error has been detected in the received mail.	E-mail format error	P. 5-92
3B11	Format Error has been detected in the received mail. This mail has been transferred to the administrator.		P. 5-92
3B12	Format Error has been detected in the received mail. This mail could not be transferred to the administrator.		P. 5-92
3B20	Content-Type Error has been detected in the received mail.	Content-Type error	P. 5-92
3B21	Content-Type Error has been detected in the received mail. This mail has been transferred to the administrator.		P. 5-92
3B22	Content-Type Error has been detected in the received mail. This mail could not be transferred to the administrator.		P. 5-92
3B30	Charset Error has been detected in the received mail.	Charset error	P. 5-93
3B31	Charset Error has been detected in the received mail. This mail has been transferred to the administrator.		P. 5-93
3B32	Charset Error has been detected in the received mail. This mail could not be transferred to the administrator.		P. 5-93
3B40	Decode Error has been detected in the received mail.	E-mail decode error	P. 5-92
3B41	Decode Error has been detected in the received mail. This mail has been transferred to the administrator.	*	P. 5-92
3B42	Decode Error has been detected in the received mail. This mail could not be transferred to the administrator.	*	P. 5-92

Error code	Message displayed in the TopAccess screen	Contents	Troubleshooting
3C10	Tiff Analyze Error has been detected in the received mail.	TIFF analysis error	P. 5-93
3C11	Tiff Analyze Error has been detected in the received mail. This mail has been transferred to the administrator.		P. 5-93
3C12	Tiff Analyze Error has been detected in the received mail. This mail could not be transferred to the administrator.		P. 5-93
3C13	Tiff Analyze Error has been detected in the received mail.	-	P. 5-93
3C20	Tiff Compression Error has been detected in the received mail.	TIFF compression error	P. 5-93
3C21	Tiff Compression Error has been detected in the received mail. This mail has been transferred to the administrator.		P. 5-93
3C22	Tiff Compression Error has been detected in the received mail. This mail could not be transferred to the administrator.		P. 5-93
3C30	Tiff Resolution Error has been detected in the received mail.	TIFF resolution error	P. 5-93
3C31	Tiff Resolution Error has been detected in the received mail. This mail has been transferred to the administrator.		P. 5-93
3C32	Tiff Resolution Error has been detected in the received mail. This mail could not be transferred to the administrator.		P. 5-93
3C40	Tiff Paper Size Error has been detected in the received mail.	TIFF paper size error	P. 5-93
3C41	Tiff Paper Size Error has been detected in the received mail. This mail has been transferred to the administrator.		P. 5-93
3C42	Tiff Paper Size Error has been detected in the received mail. This mail could not be transferred to the administrator.		P. 5-93
3C50	Offramp Destination Error has been detected in the received mail.	Offramp destination error	P. 5-93
3C51	Offramp Destination Error has been detected in the received mail. This mail has been trans- ferred to the administrator.		P. 5-93
3C52	Offramp Destination Error has been detected in the received mail. This mail could not be trans- ferred to the administrator.		P. 5-93

Error code	Message displayed in the TopAccess screen	Contents	Troubleshooting
3C60	Offramp Security Error has been detected in the received mail.	Offramp security error	P. 5-93
3C61	Offramp Security Error has been detected in the received mail. This mail has been transferred to the administrator.		P. 5-93
3C62	Offramp Security Error has been detected in the received mail. This mail could not be transferred to the administrator.		P. 5-93
3C70	Power Failure has been occurred in E-mail receiving.	Power failure error	P. 5-93
3D10	SMTP Destination Error has been detected in the received mail. This mail was deleted.	Destination address error	P. 5-93
3D20	Offramp Destination limitation Error has been detected in the received mail.	Offramp destination limitation error	P. 5-93
3D30	Fax Board Error has been occurred in the received mail.	FAX board error	P. 5-94
3E10	POP3 Connection Error has been occurred in the received mail.	POP3 server connection error	P. 5-94
3E20	POP3 Connection Timeout Error has been occurred in the received mail.	POP3 server connection time-out error	P. 5-94
3E30	POP3 Login Error has been occurred in the received mail.	POP3 login error	P. 5-94
3E40	POP3 Login Error occurred in received mail.	POP3 login method error	P. 5-94
3F00	File I/O Error has been occurred	File I/O error	P. 5-94
3F10	in this mail. The mail could not be		P. 5-94
3F20	ered.		P. 5-94
3F30			P. 5-94
3F40			P. 5-94

2.1.4 Printer function error

Following codes are displayed at the end of the user name on the print job log screen (when GM-1020/3020, GM-1030/3030, GM-2020, GM-2030, GM-1070/4070, GM-1080U/4080U, GM-2070, GM-2080U, GM-1071/4070, GM-1081U/4080U, GM-2071, GM-2081U, GM-1130/4130, GM-1140U/4140U, GM-2130, or GM-2140U is installed)

Error code	Contents	Troubleshooting
4030	No Printer Kit / Printer Kit function disabled: The Printer Kit (GM-1010) or the Printer/Scanner Kit (GM-2010) is not installed. Or network printing of an XPS file is performed without the Expansion Memory (GC-1230), or network printing is performed after the termination of a trial period	P. 5-94
4031	HDD full during print: Large quantity image data by private print or invalid network print are saved in HDD.	P. 5-94
4032	Private-print-only error: Jobs other than Private print jobs cannot be per- formed.	P. 5-94
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. 5-94
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. 5-94
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. 5-94
4036	User authentication error: The user who intended to print a document is not registered as a user.	P. 5-94
4037	Hardcopy security printing error: hardcopy security printing job is performed when the function is restricted.	P. 5-95
A221	Print job cancellation: Print job (copy, list print, network print) is deleted from the print job screen.	P. 5-95
A222	Print job power failure: The power of the equipment is turned OFF during print job (copy, list print, network print).	P. 5-95
A290	Limit over error: The numbers of output pages have exceeded those speci- fied with both of the department code and the user code at the same time.	P. 5-95
A291	Limit over error: The number of output pages has exceeded the one speci- fied with the user code.	P. 5-95
A292	Limit over error: The number of output pages has exceeded the one speci- fied with the department code.	P. 5-95

<<Error history: e-STUDIO200L/230/230L/280>>

In the setting mode (08-253), the latest twenty groups of error data will be displayed. Display example

<u>EA10</u>	<u>04 07 11 17 57 32</u>	<u>064</u>	<u>064</u>	<u>23621000000</u>
Error code	YY MM DD HH MM SS	MMM	NNN	ABCDEFHIJLO
4 digits	12 digits (Year is indicated with its last two digits.)	3 digits	3 digits	11 digits

А	Paper source
	0: Not selected 1: Bypass feed 2: LCF 3: PFP upper drawer 4: Unused 5: PFP lower drawer 6: Unused 7: Upper drawer 8: Lower drawer
В	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: COM10 (Envelope) Q: DL (Envelope) R: Monarch (Envelope) S: CHO-3 (Envelope) T: YOU-4 (Envelope) Z: Not selected
С	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
	0: Not selected 1: Book 2: Double-sided/Single-sided 4: Double-sided/Duplex copying 8: Single-sided/Duplex copying
G	Unused
Н	Image shift
	0: Unused 1: Book 2: Left 4: Right
I	Editing
	0: Unused 1: Masking 2: Trimming 3: Mirror image 4: Negative/Positive Reversal
J	Edge erase/Dual-page
	0: Unused 1: Edge erase 2: Dual-page 3: Edge erase & Dual-page
К	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
NNN	Secondary scanning reproduction ratio (Display in hexadecimal)
	(Nx256)+(Nx16)+N
0	Mode
	0: Unused 1: Unused 2: Black

2

<<Error history: e-STUDIO202L/203L/232/233/282/283>>

In the setting mode (08-253), the latest twenty groups of error data will be displayed. Display example

<u>EA10</u>	99999999	<u>04 07 11 17 57 32</u>	<u>064</u>	<u>064</u>	<u>23621000000</u>
Error code	Total counter	YY MM DD HH MM SS	MMM	NNN	ABCDEFHIJLO
4 digits	8 digits	12 digits (Year is indicated with its last two digits.)	3 digits	3 digits	11 digits

А	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
В	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: COM10 (Envelope) Q: DL (Envelope) R: Monarch (Envelope) S: CHO-3 (Envelope) T: YOU-4 (Envelope) Z: Not selected
С	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
	0: Not selected 1: Book 2: Double-sided/Single-sided 4: Double-sided/Duplex copying 8: Single-sided/Duplex copying
G	Unused
Н	Image shift
	0: Unused 1: Book 2: Left 4: Right
I	Editing
	0: Unused 1: Masking 2: Trimming 3: Mirror image 4: Negative/Positive Reversal
J	Edge erase/Dual-page
	0: Unused 1: Edge erase 2: Dual-page 3: Edge erase & Dual-page
К	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
NNN	Secondary scanning reproduction ratio (Display in hexadecimal)
	(Nx256)+(Nx16)+N
0	Mode
	0: Unused 1: Unused 2: Black

2.2 Self-diagnosis 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 MOD
List print mode	[9]+[START] +[POWER]	Prints out the data lists of the codes 05 and 08, PM support mode and pixel counter.	[POWER] OFF/ON	100% UA A4 LIST PRINT
PM support mode	[6]+[START] +[POWER]	Clears each counter.	[POWER] OFF/ON	100% K TEST MODE
Firmware update mode	[8]+[9]+ [POWER]	Performs updating of the system firmware.	[POWER] OFF/ON	-

Notes:

- 1. To enter the desired mode, turn ON the power while two digital keys designated to each mode (e.g. [0] and [5]) are pressed simultaneously.
- 2. 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.

<Operation procedure>

Control panel check mode (01):



Notes:

- 1. A mode can be canceled by [POWER] OFF/ON when the LED is lit and the LCD is blinking.
- 2. Button Check

Buttons with LED Buttons without LED Button on touch panel (Press to turn OFF the LED.) (Press to display the message on the control panel.)

(Press to display the screen on the control panel at power-ON.)

- Test mode (03): Refer to D P. 2-25 "2.2.1 Input check (Test mode 03) (e-STUDIO200L/230/230L/ 280)"/ P. 2-32 "2.2.2 Input check (Test mode 03) (e-STUDIO202L/203L/232/233/282/283)" and P. 2-40 "2.2.3 Output check (test mode 03)".
- Test print mode (04): Refer to P. 2-43 "2.2.4 Test print mode (test mode 04)".
- Adjustment mode (05): Refer to Decision P. 2-44 "2.2.5 Adjustment mode (05) (e-STUDIO200L/230/230L/ 280)"/ P. 2-64 "2.2.6 Adjustment mode (05) (e-STUDIO202L/203L/232/233/282/283)".
- Setting mode (08): Refer to P. 2-84 "2.2.7 Setting mode (08) (e-STUDIO200L/230/230L/280)"/ P. 2-153 "2.2.8 Setting mode (08) (e-STUDIO202L/203L/232/233/282/283)".

• List print mode (9S): The procedure varies depending on the code.



[6][START]	→ (Code)	→ [START] —	→ [POWER] OFF/ON
[POWER]	1: Auto-toner adjustment 2: PM Support Screen	(Operation started)	(Exit)

• Firmware update mode (89): Refer to "6. FIRMWARE UPDATING".



Fig. 2-1

*1 Turn OFF the power after using the self-diagnosis modes, and leave the equipment to the user.

2.2.1 Input check (Test mode 03) (e-STUDIO200L/230/230L/280)

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>



Note:

Initialization is performed before the equipment enters the test mode.



Fig. 2-2 Example of display during input check

Items to be checked and the condition of the equipment when the buttons [A] to [H] are highlighted are listed in the following pages.

[FAX] button: OFF ([FAX] LED: OFF)

			Con	tents
Digital key	Button	Items to check	Highlighted display	Normal dis- play
			e.g. 🔺	e.g. 🔺
	Α	-	-	-
[1]	В	LCF connection	Not connected	Connected
	С	Bypass unit connection	Not connected	Connected
	D	Bypass paper sensor	No paper	Paper present
	E	ADU connection	Not connected	Connected
	F	ADU opening/closing switch	ADU opened	ADU closed
	G	ADU exit sensor	Paper present	No paper
	Н	ADU entrance sensor	Paper present	No paper
	A	PFP upper drawer detection switch	Drawer not installed	Drawer present
	В	-	-	-
	С	PFP upper drawer paper stock sensor	Paper almost empty	Paper present
[2]	D	PFP upper drawer feed sensor	Paper present	No paper
[4]	E	PFP connection	Not connected	Connected
	F	PFP side cover opening/closing switch	Cover opened	Cover closed
	G	PFP upper drawer empty sensor	No paper	Paper present
	Н	PFP upper drawer tray-up sensor	Tray at upper limit position	Other than upper limit position
	A	LCF tray bottom sensor	Tray at bottom position	Other than bottom posi- tion
	В	LCF standby side paper mis-stacking sensor	Correct stack- ing	Incorrect stacking
	С	-	-	-
[3]	D	-	-	-
	E	LCF drawer detection switch	Drawer not installed	Drawer present
	F	-	-	-
	G	-	-	-
	Н	LCF feed side paper stock sensor	Paper almost empty	Paper present
	A	PFP lower drawer detection sensor	Drawer not installed	Drawer present
	В	-	-	-
	С	PFP lower drawer paper stock sensor	Paper almost empty	Paper present
	D	PFP lower drawer feed sensor	Paper present	No paper
[4]	E	PFP motor rotation status (Motor is rotating at output mode (03))	Abnormal rota- tion	Normal rota- tion
	F	-	-	-
	G	PFP lower drawer empty sensor	No paper	Paper present
	H	PFP lower drawer tray-up sensor	Tray at upper limit position	Other than upper limit position

			Con	tents
Distin			Hiahliahted	Normal dis-
Digital	Button	Items to check	display	play
кеу			alopiay	piay
			e.g. 🔺	e.g. ^
	Α	LCF end fence home position sensor	Fence home	Other than
[5]			position	home position
	В	LCF end fence stop position sensor	Fence stop	Other than
			position	stop position
	C	LCF standby side empty sensor	No paper	Paper present
	D	LCF side cover opening/closing switch	Cover closed	Cover opened
	E	LCF motor rotation status (Motor is rotating at output mode	Abnormal rota-	Normal rota-
			tion	tion
	F	LCF tray-up sensor	Iray at upper	Other than
			limit position	upper limit
	<u> </u>	LCE food concor	No popor	Position Deper present
	6			Paper present
	H	LCF leed side empty sensor	Paper present	No paper
	A	-	-	-
	В	-	-	-
	C	-	-	-
	D	-	-	-
[6]	E	1st transport sensor	Paper present	No paper
	F	-	-	-
	G	Upper drawer empty sensor	No paper	Paper present
	Н	Upper drawer tray-up sensor	Tray at upper	Other than
			limit position	upper limit
				position
	A	-	-	-
	В	-	-	-
	C	-	-	-
	D	-	-	-
[7]	E	2nd transport sensor	Paper present	No paper
	F	-	-	-
	G	Lower drawer empty sensor	No paper	Paper present
	Н	Lower drawer tray-up sensor	Tray at upper	Other than
			limit position	upper limit
	^			position
	A	-	- Defende tekle d	-
	В	Bypass feed paper width sensor-2	Refer to table 1	
		Bypass feed paper width sensor-1	Refer to table 1	
[8]		Bypass feed paper width sensor-U	Refer to table 1	1
	E	-	-	-
	F	-	-	-
	G	-	-	-
	Н	-	-	-
	A	-	-	-
	В	-	-	-
	С	-	-	-
	D	Upper drawer detection switch	Drawer not	Drawer
[9]			installed	present
[0]	E	Upper drawer paper stock sensor	Paper almost	Paper present
			empty	
	F	-	-	-
	G	-	-	-
	Н	-	-	-

			Con	tents
Digital key	Button	Items to check	Highlighted display	Normal dis- play
			e.g. 🔺	e.g. 🔺
	Α	-	-	-
	В	-	-	-
[0]	С	-	-	-
	D	Lower drawer detection switch	Drawer not installed	Drawer present
	E	Lower drawer paper stock sensor	Paper almost empty	Paper present
	F	-	-	-
	G	-	-	-
	Н	-	-	-

Table 1. Relation between the status of the bypass paper width sensor and paper size (width).

Bypass	s paper-width	vidth sensor Bapor-width	
2	1	0	Faper-width Size
1	1	1	A3/A4
1	1	0	B5-R
1	0	1	A5-R
1	0	0	A3/A4
0	1	1	Card size
0	1	0	A4-R/A5
0	0	1	B6-R
0	0	0	B4-R/B5

[FAX] button: ON ([FAX] LED: ON)

			Contents	
Digital key	Button	Items to check	Highlighted display	Normal dis- play
			e.g. 🔺	e.g. 🔺
	Α	-	-	-
[1]	В	-	-	-
	С	24 V power supply	Power ON	Power OFF
	D	IPC board connection	Not connected	Connected
	E	-	-	-
		Mode (03))	tion	tion
	G	Auger lock switch	Lock	Unlock
	Н	Toner cartridge installation switch	OFF	ON
	A	Registration sensor	Paper present	No paper
	В	Exit sensor	Paper present	No paper
	С	Auto-toner sensor connection	Not connected	Connected
101	D	Front cover opening/closing switch	Cover opened	Cover closed
[2]	E	-	-	-
	F	Side cover opening/closing sensor	Cover opened	Cover closed
	G	I ransfer cover opening/closing switch	Cover opened	Cover closed
	н	Main motor rotation status (Motor is rotating at Output Mode (03))	tion	tion
	A	-	-	-
	В	Key copy counter connection	Not connected	Connected
	С	Job Separator upper stack sensor (When Job Separator is installed)	Paper full	Paper not full
		Offset Tray separate sensor (When Offset Tray is installed)	Separator at home position	Other than home position
	D	Fuser unit connection	Fuser unit installed	Fuser unit not installed
	E	Bridge unit transport sensor-2 (When bridge unit is installed)	No paper	Paper present
	F	Bridge unit cover opening/closing detection switch (When Bridge unit is installed)	Cover opened	Cover closed
[3]		Job Separator cover switch (When Job Separator is installed)	Cover opened	Cover closed
		Offset Tray cover switch (When Offset Tray is installed)	Cover opened	Cover closed
	G	Bridge unit paper full detection sensor (When bridge unit is installed)	Paper not full	Paper full
		Job Separator lower stack sensor (When Job Separator is installed)	Paper full	Paper not full
		Offset Tray stack sensor (When Offset Tray is installed)	Paper full	Paper not full
	Н	Bridge unit transport sensor-1 (When bridge unit is installed)	No paper	Paper present
		Job Separator feed sensor (When Job Separator is installed)	Paper present	No paper
		Offset Tray feed sensor (When Offset Tray is installed)	Paper present	No paper
	Α	-	-	-
	В		-	-
	С	-	-	-
	D	-	-	-
[4]	E	-	-	-
	F	Bypass teed sensor	No paper	Paper present
	G		-	-
	Н	tion	inormai	Abnormal

2

			Con	tents
Digital	Button	literne te eheek	Highlighted	Normal dis-
key	Button	items to check	display	play
			e.g. 🔺	e.g. 🔺
	Α	-	-	-
[5]	В	-	-	-
	С	-	-	-
	D	-	-	-
	E	-	-	-
	F	RADF connection	RADF con- nected	Not connected
	G	Platen sensor	Platen cover opened	Platen cover closed
	Н	Carriage home position sensor	Carriage at home position	Other than home position
	Α	-	-	-
	В	-	-	-
	С	-	-	-
	D	APS sensor (APS-R)	No original	Original present
[6]	E	APS sensor (APS-C)	No original	Original present
	F	APS sensor (APS-3)	No original	Original present
	G	APS sensor (APS-2)	No original	Original present
	Н	APS sensor (APS-1)	No original	Original present
	A	RADF tray sensor	Original present	No original
	В	RADF empty sensor	Original present	No original
	С	RADF jam access cover switch	Cover opened	Cover closed
	D	RADF opening/closing sensor	RADF opened	RADF closed
[7]	E	RADF exit sensor	Original present	No original
	F	RADF reverse sensor	Original present	No original
	G	RADF read sensor	Original	No original
	Н	RADF registration sensor	Original	No original
	Α	-	-	-
	В	-	-	-
	С	-	-	-
	D	-	-	-
101	E	RADF original length sensor	Original present	No original
lol	F	RADF original width sensor-1	Original	No original
	G	RADF original width sensor-2	Original	No original
	Н	RADF original width sensor-3	Original present	No original

			Contents		
Digital			Highlighted	Normal dis-	
key	Button	Items to check	display	play	
			e.g. 🔺	e.g. 🔺	
	A	Bridge unit/Job Separator/Offset Tray connection detection- 3	Refer to table 2		
	В	Bridge unit/Job Separator/Offset Tray connection detection- 2	Refer to table 2		
[9]	С	Bridge unit/Job Separator/Offset Tray connection detection- 1	Refer to table 2		
[0]	D	-	-	-	
	E	-	-	-	
	F	-	-	-	
	G	-	-	-	
	Н	-	-	-	
	A	Dongle (for Printer/Scanner kit (GM-2020 or 2030))	Connectable	Not connect- able	
	В	Dongle (for Printer kit (GM-1020 or 1030))	Connectable	Not connect- able	
101	С	Dongle (for Scanner upgrade kit (GM-3020 or 3030))	Connectable	Not connect- able	
[0]	D	Dongles for other equipments/Other USB devices	Connectable	Not connect- able	
	E	-	-	-	
	F	-	-	-	
	G	-	-	-	
	Н	-	-	-	

Table 2. Connecting status of additional options at inner area of the equipment

	Bridge unit	Job Separator	Offset Tray	None
Bridge unit/Job Separator/Offset Tray	Normal display	Highlighting	Highlighting	Highlighting
connection detection-3		display	display	display
Bridge unit/Job Separator/Offset Tray	Highlighting	Highlighting	Normal display	Highlighting
connection detection-2	display	display		display
Bridge unit/Job Separator/Offset Tray connection detection-1	Normal display	Normal display	Normal display	Highlighting display

2

2.2.2 Input check (Test mode 03) (e-STUDIO202L/203L/232/233/282/283)

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>



Note:

Initialization is performed before the equipment enters the test mode.



Fig. 2-3 Example of display during input check

Items to be checked and the condition of the equipment when the buttons [A] to [H] are highlighted are listed in the following pages.

[FAX] button: OFF ([FAX] LED: OFF)

			Contents		
Digital key	Button	Items to check	Highlighted display	Normal dis- play	
			e.g. 🔺	e.g. 🔺	
	Α	-	-	-	
[1]	В	LCF connection	Not connected	Connected	
	С	Bypass unit connection	Not connected	Connected	
	D	Bypass paper sensor	No paper	Paper present	
	E	ADU connection	Not connected	Connected	
	F	ADU opening/closing switch	ADU opened	ADU closed	
	G	ADU exit sensor	Paper present	No paper	
	Н	ADU entrance sensor	Paper present	No paper	
	A	PFP upper drawer detection switch	Drawer not installed	Drawer present	
	В	-	-	-	
	С	PFP upper drawer paper stock sensor	Paper almost empty	Paper present	
[0]	D	PFP upper drawer feed sensor	Paper present	No paper	
[2]	E	PFP connection	Not connected	Connected	
	F	PFP side cover opening/closing switch	Cover opened	Cover closed	
	G	PFP upper drawer empty sensor	No paper	Paper present	
	Н	PFP upper drawer tray-up sensor	Tray at upper limit position	Other than upper limit position	
	A	LCF tray bottom sensor	Tray at bottom position	Other than bottom posi- tion	
	В	LCF standby side paper mis-stacking sensor	Correct stack- ing	Incorrect stacking	
	С	-	-	-	
[3]	D	-	-	-	
	E	LCF drawer detection switch	Drawer not installed	Drawer present	
	F	-	-	-	
	G	-	-	-	
	Н	LCF feed side paper stock sensor	Paper almost empty	Paper present	
	A	PFP lower drawer detection sensor	Drawer not installed	Drawer present	
	В	-	-	-	
	С	PFP lower drawer paper stock sensor	Paper almost empty	Paper present	
_	D	PFP lower drawer feed sensor	Paper present	No paper	
[4]	E	PFP motor rotation status (Motor is rotating at output mode (03))	Abnormal rota- tion	Normal rota- tion	
	F	-	-	-	
	G	PFP lower drawer empty sensor	No paper	Paper present	
	H	PFP lower drawer tray-up sensor	Tray at upper limit position	Other than upper limit position	

2

			Con	tents
Digital			Highlighted	Normal dis-
Digital	Button	Items to check	display	play
кеу				
			e.g.	e.g. ^
[5]	A	LCF end fence home position sensor	Fence home	Other than
			position	home position
	В	LCF end fence stop position sensor	Fence stop	Other than
	<u> </u>	LCE standby side empty senser	No popor	Stop position
		LCF standby side empty sensor	No paper	Paper present
		LCF side cover opening/closing switch	Cover closed	Cover opened
	E	LCF motor rotation status (Motor is rotating at output mode	Abnormal rota-	tion
	F		Trav at upper	Other than
	Г		limit position	upper limit
				position
	G	LCF feed sensor	No paper	Paper present
	н	LCF feed side empty sensor	Paper present	No paper
	A	-	-	-
	В	-	-	-
	С	-	-	-
	D	-	-	-
[6]	E	1st transport sensor	Paper present	No paper
	F	-	-	-
	G	Upper drawer empty sensor	No paper	Paper present
	Н	Upper drawer tray-up sensor	Tray at upper	Other than
			limit position	upper limit
-				position
	A	-	-	-
	В	-	-	-
	C	-	-	-
	D	-	-	-
[7]	E	2nd transport sensor	Paper present	No paper
	F	-	-	-
	G	Lower drawer empty sensor	No paper	Paper present
	Н	Lower drawer tray-up sensor	Tray at upper	Other than
			limit position	upper limit
-	^			position
	A	- Pypage feed paper width concer 2	- Defer to table 1	-
	D C	Bypass feed paper width sensor 1	Relei lo lable 1	
		Bypass feed paper width concer 0	Refer to table 1	
[8]		bypass ieeu papei wiulii seiisoi-u		
		-	-	-
		-	-	-
	G	-	-	-
-	H	-	-	-
	A	-	-	-
	В	-	-	-
	C	-	-	-
	D	Upper drawer detection switch	Drawer not installed	Drawer present
[9]	E	Upper drawer paper stock sensor	Paper almost	Paper present
			empty	
	F	-	-	-
	G	-	-	-
	Н	-	-	-

Digital key	Button	Items to check	Contents	
			Highlighted display	Normal dis- play
			e.g. 🔺	e.g. 🔺
[0]	Α	-	-	-
	В	-	-	-
	С	-	-	-
	D	Lower drawer detection switch	Drawer not installed	Drawer present
	E	Lower drawer paper stock sensor	Paper almost empty	Paper present
	F	-	-	-
	G	-	-	-
	Н	-	-	-

Table 1. Relation between the status of the bypass paper width sensor and paper size (width).

Bypass	s paper-width	Papor-width sizo		
2	1	0	Paper-wiuth Size	
1	1	1	A3/A4	
1	1	0	B5-R	
1	0	1	A5-R	
1	0	0	A3/A4	
0	1	1	Card size	
0	1	0	A4-R/A5	
0	0	1	B6-R	
0	0	0	B4-R/B5	

2

2 - 35 05/11

[FAX] button: ON ([FAX] LED: ON)

	Button		Contents			
Digital key		Items to check	Highlighted display	Normal dis- play		
			e.g. 🔺	e.g. 🔺		
	Α	-	-	-		
	В	-	-	-		
	С	24 V power supply	Power ON	Power OFF		
	D	IPC board connection	Not connected	Connected		
[1]	E	-	-	-		
	F	Polygonal motor rotation status (Motor is rotating at Output	Abnormal rota-	Normal rota-		
	G	Auger lock switch	Lock	Linlock		
	- 0 - н	Toper cartridge installation switch	OFF	ON		
	Λ Λ	Peristration sensor	Daner present	No naner		
		Exit consor	Paper present	No paper		
		Auto topor consor connection	Not connected	Connocted		
		Front cover opening/closing switch	Cover energed	Cover closed		
[2]			Cover opened	Cover closed		
[4]		- Side covor opening/closing consor	- Cover energed	- Cover closed		
		Transfer sover opening/closing sensor	Cover opened	Cover closed		
	U U	Main motor rotation status (Motor is rotating at Output	Abnormal rata	Normal rata		
	П	Main motor rotation status (motor is rotating at Output Mode (03))	tion	tion		
	A	-	-	-		
	В	Key copy counter connection	Not connected	Connected		
	С	Job Separator upper stack sensor (When Job Separator is installed)	Paper full	Paper not full		
		Offset Tray separate sensor (When Offset Tray is installed)	Separator at home position	Other than home position		
	D	Fuser unit connection	Fuser unit installed	Fuser unit not installed		
	E	Bridge unit transport sensor-2 (When bridge unit is installed)	No paper	Paper present		
	F	Bridge unit cover opening/closing detection switch (When Bridge unit is installed)	Cover opened	Cover closed		
[3]		Job Separator cover switch (When Job Separator is installed)	Cover opened	Cover closed		
		Offset Tray cover switch (When Offset Tray is installed)	Cover opened	Cover closed		
	G	Bridge unit paper full detection sensor (When bridge unit is installed)	Paper not full	Paper full		
		Job Separator lower stack sensor	Paper full	Paper not full		
		Offset Tray stack sensor (When Offset Tray is installed)	Paper full	Paper not full		
	Н	Bridge unit transport sensor-1 (When bridge unit is installed)	No paper	Paper present		
		Job Separator feed sensor (When Job Separator is installed)	Paper present	No paper		
		Offset Tray feed sensor (When Offset Tray is installed)	Paper present	No paper		
	Α	-	-	-		
[4]	В	-	-	-		
	С	-	-	-		
	D	-	-	-		
	E	-	-	-		
	F	Bypass feed sensor	No paper	Paper present		
	G	-	-	-		
	Н	High-voltage power supply abnormality (shutdown) detec- tion	Normal	Abnormal		
			Contents			
---	--------	---	---------------------------	--------------------------	--	--
Digital	Button	Items to check	Highlighted display	Normal dis- play		
кеу			e.g.	e.g. A		
	Α	-	-	-		
Digital [5] [6] [7] [8]	В	-	-	-		
	С	-	-	-		
	D	-	-	-		
	E	-	-	-		
[0]	F	RADF connection	RADF con- nected	Not connected		
	G	Platen sensor	Platen cover opened	Platen cover closed		
	Н	Carriage home position sensor	Carriage at home position	Other than home position		
	Α	-	-	-		
	В	-	-	-		
	С	-	-	-		
[6]	D	APS sensor (APS-R)	No original	Original present		
	E	APS sensor (APS-C)	No original	Original present		
	F	APS sensor (APS-3)	No original	Original present		
	G	APS sensor (APS-2)	No original	Original present		
	Н	APS sensor (APS-1)	No original	Original present		
	A	[RADF] Original tray sensor	Original present	No original		
	В	[RADF] Original empty sensor	Original present	No original		
	С	[RADF] Jam access cover sensor	Cover opened	Cover closed		
	D	[RADF] RADF opening/closing sensor	RADF opened	RADF closed		
[7]	E	[RADF] Original exit/reverse sensor	Original present	No original		
	F	[RADF] Original intermediate transport sensor	Original present	No original		
	G	[RADF] Read sensor	Original present	No original		
	Н	[RADF] Original registration sensor	Original present	No original		
	A	[RADF] Original tray width sensor (TWID0S) (Refer to table3)	OFF (H)	ON (L)		
	В	[RADF] Original tray width sensor (TWID1S) (Refer to table3)	OFF (H)	ON (L)		
	С	[RADF] Original tray width sensor (TWID2S) (Refer to table3)	OFF (H)	ON (L)		
[8]	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		
	Н	-	-	-		

2 - 37 08/04

			Contents			
Digital	gital Button Items to check disp			Normal dis-		
key	Button	Items to check	display	play		
			e.g. 🔺	e.g. 🔺		
[9]	A	Bridge unit/Job Separator/Offset Tray connection detection- 3	Refer to table 2			
	В	Bridge unit/Job Separator/Offset Tray connection detection- 2	Refer to table 2			
	С	Bridge unit/Job Separator/Offset Tray connection detection- 1	Refer to table 2			
	D	-	-	-		
	E	-	-	-		
	F	-	-	-		
	G	-	-	-		
	Н	-	-	-		
	A	Dongle (for Printer/Scanner kit (GM-2020 or 2030))	Connectable	Not connect- able		
	В	Dongle (for Printer kit (GM-1020 or 1030))	Connectable	Not connect- able		
	С	Dongle (for Scanner upgrade kit (GM-3020 or 3030))	Connectable	Not connect- able		
[0]	D	Dongles for other equipments/Other USB devices	Connectable	Not connect- able		
	E	-	-	-		
	F	-	-	-		
	G	-	-	-		
	Н	-	-	-		

Table 2. Connecting status of additional options at inner area of the equipment

	Bridge unit	Job Separator	Offset Tray	None
Bridge unit/Job Separator/Offset Tray	Normal display	Highlighting	Highlighting	Highlighting
connection detection-3		display	display	display
Bridge unit/Job Separator/Offset Tray	Highlighting	Highlighting	Normal display	Highlighting
connection detection-2	display	display		display
Bridge unit/Job Separator/Offset Tray connection detection-1	Normal display	Normal display	Normal display	Highlighting display

Table 3. Relation between the status of the original tray width sensor and paper size (width).

Origin	al tray width	sensor	Paper width size	Paper width size		
TWID2S	TWID1S	TWID0S	(LT series)	(A4 series)		
Н	Н	Н	LD/LT	A3/A4		
Н	Н	L	-	B5-R		
Н	L	Н	ST-R	A5-R		
L	Н	Н	LD/LT	A3/A4		
L	Н	L	-	-		
L	L	Н	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	I ([FAX] LED: OFF/	[COPY] LED: ON)
--------------------	-------------------	--------------------	-----------------

			Cont	tents
Digital key	Button	Items to check	Highlighted display	Normal dis- play
-			e.g. 🔺	e.g. 🔺
[0]	A	Dongle (for Printer/Scanner kit (GM-2070 or 2080U)) Con- nected	Connectable	Not connect- able
	В	Dongle (for Printer kit (GM-1070, 1071, 1080U or 1081U)) Connected	Connectable	Not connect- able
	С	Dongle (for Scanner kit (GM-4070 or 4080U)) Connected	Connectable	Not connect- able
	D	Dongles for other equipments/Other USB devices Con- nected	Connectable	Not connect- able
	E	Judgement for acceptable USB storage device (*1)	Acceptable	Not acceptable
	F	-	-	-
	G	-	-	-
	Н	-	-	-

*1

- Be sure to install the USB storage device 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 recording or deleting) of the USB storage device 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 storage device.

2.2.3 Output check (test mode 03)



Code	Function	Code	Function	Procedure		
101	Main motor ON (operational without developer unit)	151	Code No. 101 function OFF	1		
102	Toner motor ON (normal rotation)	152	Code No. 102 function OFF	1		
103	Polygonal motor ON (600 dpi)	153	Code No. 103 function OFF	1		
108	Registration clutch ON	158	Code No. 108 function OFF	1		
109	PFP motor ON	159	Code No. 109 function OFF	1		
110	ADU motor ON (low speed)	160	Code No. 110 function OFF	1		
118	Laser ON	168	Code No. 118 function OFF	1		
120	Exit motor ON (normal rotation)	170	Code No. 120 function OFF	1		
121	Exit motor ON (reverse rotation)	171	Code No. 121 function OFF	1		
122	LCF motor ON	172	Code No. 122 function OFF	1		
177	Offset Tray motor ON (reciprocating m	ovement)		2		
201	Upper drawer feed clutch ON/OFF			3		
202	Lower drawer feed clutch ON/OFF			3		
203	Upper transport clutch ON/OFF			3		
204	Bypass feed clutch ON/OFF			3		
205	Middle transport clutch ON/OFF			3		
206	LCF pickup solenoid ON/OFF					
207	LCF end fence reciprocating movement					
208	LCF end fence motor ON/OFF					
209	LCF feed clutch ON/OFF					
210	LCF transport clutch ON/OFF					
217	Lower transport clutch ON/OFF					
218	Key copy counter count up					
222	ADU clutch ON/OFF			3		
225	PFP transport clutch ON/OFF			3		
226	PFP upper drawer feed clutch ON/OFI	-		3		
228	PFP lower drawer feed clutch ON/OFF	-		3		
232	Bridge unit gate solenoid ON/OFF			3		
234	Bypass pickup solenoid ON/OFF			3		
235	Discharge LED ON/OFF			3		
236	Exhaust fan ON/OFF (low speed)			3		
237	Exhaust fan ON/OFF (high speed)			3		
242	Upper drawer tray-up motor ON (tray u	la)		2		
243	Lower drawer tray-up motor ON (tray u	la)		2		
248	Developer bias [+DC] ON/OFF			3		
249	Developer bias [-DC] ON/OFF			3		
252	Main charger ON/OFF			3		
253	Separation bias ON/OFF			3		
255	Transfer guide bias ON/OFF			3		
256	Transfer transformer ON/OFF			3		
261	Scan motor ON (Automatically stops a [ZOOM] button	t limit posi	tion; speed can be changed with the	2		
264	SLG board cooling fan 1 ON/OFF			3		
265	SLG board cooling fan 2 ON/OFF			3		
267	Scanner exposure lamp ON/OFF			3		

Code	Function	Procedure
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) : MR-3016 RADF original feed motor ON/OFF (normal rotation) : MR-3020	3
282	RADF feed motor ON/OFF (reverse rotation) : MR-3016 RADF original feed motor ON/OFF (reverse rotation) : MR-3020	3
283	RADF read motor ON/OFF (normal rotation)	3
284	RADF reverse motor ON/OFF (normal rotation) : MR-3016 RADF original exit/reverse motor ON/OFF (normal rotation) : MR-3020	3
285	RADF reverse motor ON/OFF (reverse rotation) : MR-3016 RADF original exit/reverse motor ON/OFF (reverse rotation) : MR-3020	3
289	Internal cooling fan 1 ON/OFF (high speed)	3
290	Internal cooling fan 1 ON/OFF (low speed)	3
294	RADF reverse solenoid ON/OFF : MR-3016 RADF gate solenoid ON/OFF : MR-3020	3
295	Power OFF mode (for 200 V series)	4
297	RADF fan motor ON/OFF	3
410	Internal cooling fan 2 ON/OFF (low speed)	3
411	Internal cooling fan 2 ON/OFF (high speed)	3

2.2.4 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>

$$[0][4] \longrightarrow (Code) \longrightarrow [START] \longrightarrow Operation \longrightarrow [CLEAR] \longrightarrow [POWER] OFF/ON$$

$$(Continuous) (Exit)$$

$$(Exit) (Exit)$$

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.

Code	Types of test pattern	Remarks
111	Primary scanning direction 33 gradation steps	Error diffusion
113	Secondary scanning direction 33 gradation steps	Error diffusion
142	Grid pattern	Pattern width: 2 dots, Pitch: 10 mm

2.2.5 Adjustment mode (05) (e-STUDIO200L/230/230L/280)

Items in the adjustment mode list in the following pages can be corrected or changed in the adjustment mode (05). Turn ON the power with pressing the digital keys [0] and [5] simultaneously in order to enter this mode.



Procedure 6



* When the automatic adjustment ends abnormally, error message is displayed.

Procedure 7



* When the automatic adjustment ends abnormally, error message is displayed.

Procedure 10



Procedure 17



* When the "storing is not performed within 2 minutes after pressing the [START] button at the manual adjustment, the "automatic adjustment" starts automatically.

Note:

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.

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 3.2.3 Printer related adjustment
3	Grid pattern (Duplex printing)	Refer to 3.2.3 Printer related adjustment

Notes:

- The digit after the hyphen in "Code" of the following table is a sub code.
- In "RAM", the NVRAM of the board in which the data of each code is stored is indicated. "M" stands for the LGC board and "SYS" stands for the SYS board.

Adjustment mode (05) <e-studio200l 230="" 230l="" 280=""></e-studio200l>									
Code	Classi- fication	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure		
200	Devel- oper	Automatic adjustment of auto-toner sensor (Fuser heater ON)	ALL	-	-	As the value increases, the sensor output increases correspond- ingly. The value starts chang- ing approx. 2 minutes after this adjustment was started and is automati- cally set in the range of 2.35 to 2.45 V. * Selection is disable when developer unit is not installed. (Chap. 3.1)	17		
201	Devel- oper	Correction of auto-toner sensor (Fuser heater ON)	ALL	164 <0-255>	М	Corrects the control value of the auto-toner sensor setup in 05-200. * Selection is disable when developer unit is not installed.	3		
205	Devel- oper	Developer bias DC output adjustment	ALL	135 <0-255>	М	As the value increases, the transformer output	3		
210	Charger	Main charger grid bias out- put adjustment	ALL	90 <0-255>	М	increases correspond- ingly. Remove the devel-	3		
220	Transfer	Transfer transformer DC output adjustment (H)	ALL	165 <0-255>	М	adjustment jig to make	3		
221	Transfer	Transfer transformer DC output adjustment (C)	ALL	179 <0-255>	М	(Chap. 3.6)	3		
222	Transfer	Transfer transformer DC output adjustment (L)	ALL	126 <0-255>	М		3		
233	Separa- tion	Separation transformer DC output adjustment (H)	ALL	64 <0-255>	М		3		
234	Separa- tion	Separation transformer DC output adjustment (C)	ALL	65 <0-255>	М		3		
235	Separa- tion	Separation transformer DC output adjustment (L)	ALL	46 <0-255>	М		3		
280	Process	Forced performing of idling for toner recycle	ALL	-	М	Perform this adjustment before the replacement of the developer mate- rial. (The toner is forcibly removed from the cleaner.)	6		
286	Laser	Laser power adjustment	ALL	63 <0-255>	М	When the value increases, the laser out- put increases corre- spondingly.	3		
305	Scanner	Image location adjustment of secondary scanning direction (scanner section)	ALL	125 <92-164>	SYS	When the value increases by "1", the image shifts by approx. 0.137 mm toward the trailing edge of the paper.	1		

	Adjustment mode (05) <e-studio200l 230="" 230l="" 280=""></e-studio200l>									
Code	Classi- fication	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure		
306	Scanner	Image location adjustment of primary scanning direc- tion (scanner section)		ALL	156 <0-255>	SYS	When the value increases by "1", the image shifts by approx. 0.0846 mm toward the front side of the paper.	1		
308	Scanner	Distortion mode	9	ALL	-	-	Moves carriages to the adjusting position. (Chap. 3.2.4)	6		
340	Scanner	Reproduction ratio adjust- ment of secondary scan- ning direction (scanner section)		ALL	129 <0-255>	SYS	When the value increases by "1", the reproduction ratio in the secondary scanning direction (vertical to paper feeding direction) increases by approx. 0.223%.	1		
354	RADF	Adjustment of RADF paper alignment	for single - sided orig- inal	ALL	10 <0-20>	SYS	When the value increases by "1", the aligning amount	1		
355	-		for double sided orig- inal	ALL	10 <0-20>	SYS	increases by approx. 0.5 mm.	1		
356	RADF	Automatic adjustment of RADF sensor and EEPROM initialization		ALL	-	SYS	Performs the adjustment and initialization when the RADF board or RADF sensor is replaced.	6		
357	RADF	Fine adjustment of RADF transport speed		ALL	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		
358	RADF	RADF sideway adjustment	s deviation	ALL	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. 0.0846 mm.	1		
359	Scanner	Carriage position adjust- ment during scanning from RADF		ALL	128 <0-255>	SYS	When the value increases by "1", the car- riage position when using the RADF shifts by approx. 0.1 mm toward the original feeding side.	1		
365	RADF	RADF lead- ing edge posi- tion	for single - sided orig- inal	ALL	50 <0-100>	SYS	When the value increases by "1", the copied image of original	1		
366		adjustment	for double sided orig- inal	ALL	50 <0-100>	SYS	ted from the RADF shifts toward the trailing edge of paper by approx. 0.1 mm.	1		

		Adjustment mode (0	5) <e-st< th=""><th>UDIO200L/</th><th>230/23</th><th>0L/280></th><th></th></e-st<>	UDIO200L/	230/23	0L/280>	
Code	Classi- fication	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
367	RADF	RADF original guide width adjustment (Minimum)	ALL	-	-	Stores the current width of RADF original guide by keying in this code with the guide set at the minimum width. Perform this adjustment when the RADF board or volume is replaced, or when the code (05-356) is per- formed.	6
368	RADF	RADF original guide width adjustment (Maximum)	ALL	-	-	Stores the current width of RADF original guide by keying in this code with the guide set at the maximum width. Per- form this adjustment when the RADF board or volume is replaced, or when the code (05-356) is performed.	6
401	Laser	Fine adjustment of polygo- nal motor rotation speed (adjustment of primary	PRT	136 <0-255>	М	When the value increases by "1", the reproduction ratio of pri-	1
405	•	scanning direction repro- duction ratio)	PPC	134 <0-255>	М	mary scanning direction increases by approx. 0.07%. (approx. 0.1 mm/ step)	1
410	Laser	Adjustment of primary scanning laser writing start	PPC	128 <0-255>	М	When the value increases by "1", the writ-	1
411		position.	PRT	153 <0-255>	М	ing start position shifts to the front side by approx. 0.0423 mm.	1
421	Drive	Adjustment of secondary scanning direction repro- duction ratio	PPC/ PRT	129 <0-255>	М	When the value increases by "1", the reproduction ratio of sec-	1
422		(fine adjustment of main motor speed)	FAX	139 <0-255>	М	ondary scanning direc- tion increases by approx. 0.04%.	1
424	Drive	Fine adjustment of exit motor speed	PPC/ PRT	160 <0-255>	М	When the value increases by "1", the	1
425			FAX	121 <0-255>	М	rotation becomes faster by approx. 0.05%.	1

		Adjustm	ent mode (0	5) <e-s1< th=""><th>UDIO200L/</th><th>230/23</th><th>0L/280></th><th></th></e-s1<>	UDIO200L/	230/23	0L/280>	
Code	Classi- fication	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
430	Image	Top margin adj (blank area at t edge of the pap	ustment he leading per)	PPC	0 <0-255>	М	When the value increases by "1", the blank area becomes	1
431	Image	Left margin adj (blank area at th paper along the feeding directio	ustment ne left of the e paper n)	PPC	0 <0-255>	М	wider by approx. 0.0423 mm.	1
432	Image	Right margin ac (blank area at t the paper along feeding directio	djustment he right of g the paper n)	PPC	0 <0-255>	М		1
433	Image	Bottom margin (blank area at t edge of the pap	adjustment he trailing per)	PPC	0 <0-255>	М		1
434-0	Image	Bottom margin (blank area at t edge of the pap Reverse side a	adjustment he trailing ber)/ t duplexing	PPC/ PRT	29 <0-255>	М		4
434-1	Image	Right margin ac (blank area at t the paper along feeding directio side at duplexir	djustment he right of the paper n)/Reverse	PPC/ PRT	29 <0-255>	М		4
435	Image	Top margin adj (blank area at t edge of the pap	ustment he leading ber)	PRT	24 <0-255>	М		1
436	Image	Left margin adj (blank area at th paper along the feeding directio	ustment ne left of the e paper n)	PRT	0 <0-255>	М		1
437	Image	Right margin ac (blank area at t the paper along feeding directio	djustment he right of g the paper n)	PRT	0 <0-255>	М		1
438	Image	Bottom margin (blank area at t edge of the pap	adjustment he trailing per)	PRT	0 <0-255>	М		1
440	Laser	Adjustment of secondary scanning	Upper drawer	ALL	8 <refer to<br="">content></refer>	М	When the value increases by "1", the image shifts toward the	1
441		laser writing start position	Lower drawer	ALL	21 <0-40>	М	leading edge of the paper by approx.	1
442			Bypass feeding	ALL	8 <0-15>	М	0.2 mm. <acceptable value=""></acceptable>	1
443			LCF	ALL	8 <0-15>	М	e-STUDIO230, e-STUDIO280: 0-15	1
444			PFP	ALL	8 <0-15>	М	e-STUDIO230L/S, e-STUDIO280S ⁻ 0-40	1
445			Duplex feeding	ALL	8 <0-15>	М		1

e-STUDIO200L/202L/203L/230/230L/232/233/280/282/283 ERROR CODE AND SELF-DIAGNOSTIC MODE

	Adjustment mode (05) <e-studio200l 230="" 230l="" 280=""></e-studio200l>											
Code	Classi- fication	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure				
448-0	Paper feeding	Paperaligning amount	Long size	ALL	10 <0-63>	М	When the value increases by "1", the	4				
448-1		adjustment at the registra-	Middle size	ALL	10 <0-63>	М	aligning amount increases by approx.	4				
448-2		tion section (PFP upper drawer/Plain paper)	Short size	ALL	8 <0-63>	М	 2.8 mm. <paper length=""></paper> Long size: 330 mm or longer 	4				
449-0	Paper feeding	Paperaligning amount	Long size	ALL	10 <0-63>	М	Middle size: 220 mm to 329 mm	4				
449-1		adjustment at the registra-	Middle size	ALL	10 <0-63>	М	219 mm or shorter	4				
449-2		(PFP lower drawer/Plain paper)	Short size	ALL	8 <0-63>	М		4				
450-0	Paper feeding	Paperaligning amount	Long size	ALL	17 <0-63>	М	-	4				
450-1		adjustment at the registra-	Middle size	ALL	17 <0-63>	М		4				
450-2		tion section (Upper drawer/Plain paper)	Short size	ALL	17 <0-63>	М		4				
452-0	Paper feeding	Paperaligning amount	Long size	ALL	12 <0-63>	М		4				
452-1		adjustment at the registra-	Middle size	ALL	10 <0-63>	М		4				
452-2		tion section (Lower drawer/Plain paper)	Short size	ALL	10 <0-63>	М		4				
455-0	Paper feeding	Paperaligning amount	Long size	ALL	20 <0-63>	М		4				
455-1		adjustment at the registra-	Middle size	ALL	20 <0-63>	М		4				
455-2		tion section (Duplex feed- ing/Plain paper)	Short size	ALL	30 <0-63>	М		4				
457	Paper feeding	Paper aligning adjustment at the tion section (LCF/Plain paper	amount ne registra- er)	ALL	8 <0-63>	М		1				

Adjustment mode (05) <e-studio200l 230="" 230l="" 280=""></e-studio200l>										
Code	Classi- fication	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure		
458-0	Paper	Paperaligning	Long size	ALL	26	М	When the value	4		
	feeding	amount			<0-63>		increases by "1", the			
458-1		the registra-	Middle size	ALL	26 <0-63>	M	increases by approx.	4		
458-2		(Bypass feed- ing/Plain paper)	Short size	ALL	25 <0-63>	М	<pre><paper length=""> Long size:</paper></pre>	4		
460-0	Paper feeding	Paperaligning amount	Long size	ALL	26 <0-63>	М	Middle size: 220 mm to 329 mm	4		
460-1		adjustment at the registra-	Middle size	ALL	26 <0-63>	М	219 mm or shorter	4		
460-2	-	tion section (Bypass feed- ing/Thick paper 1)	Short size	ALL	26 <0-63>	М	ported only for JPN model.	4		
461-0	Paper feeding	Paperaligning amount	Long size	ALL	17 <0-63>	М		4		
461-1		adjustment at the registra-	Middle size	ALL	17 <0-63>	М		4		
461-2	-	tion section (Bypass feed- ing/Thick paper 2)	Short size	ALL	17 <0-63>	М		4		
462-0	Paper feeding	Paper aligning amount	Long size	ALL	17 <0-63>	М		4		
462-1	-	adjustment at the registra-	Middle size	ALL	17 <0-63>	М		4		
462-2		tion section (Bypass feed-	Short size	ALL	17 <0-63>	М	-	4		
462-3		paper 3)	Postcard	ALL	14 <0-63>	М		4		
463-0	Paper feeding	Paperaligning amount	Long size	ALL	26 <0-63>	М		4		
463-1		adjustment at the registra-	Middle size	ALL	26 <0-63>	М		4		
463-2		tion section (Bypass feed- ing/OHP film)	Short size	ALL	26 <0-63>	М		4		
464-0	Paper feeding	Paper aligning amount	Long size	ALL	26 <0-63>	М		4		
464-1		adjustment at the registra-	Middle size	ALL	26 <0-63>	М		4		
464-2		(Bypass feed- ing /Envelope)	Short size	ALL	26 <0-63>	М		4		

		Adjustm	ent mode (0	5) <e-s1< th=""><th>UDIO200L</th><th>230/23</th><th>0L/280></th><th></th></e-s1<>	UDIO200L	230/23	0L/280>	
Codo	Classi-	Itom	•	Func-	Default <accept-< th=""><th>DAM</th><th>Contonto</th><th>Proce-</th></accept-<>	DAM	Contonto	Proce-
Code	fication	nem	5	tion	able value>	RAIVI	Contents	dure
466-0	Paper feeding	Adjustment of paper push-	Plain paper	ALL	0 <0-255>	М	When the value increases by "1", the	4
466-1		ing amount/ Bypass feed-	Postcard	ALL	0 <0-255>	М	driving speed of bypass feed roller increases by	4
466-3		ing	Envelope	ALL	0 <0-255>	М	approx. 0.2 ms when the paper transport is started	4
466-4			Thick paper 1	ALL	0 <0-255>	М	tion.	4
466-5			Thick paper 2	ALL	0 <0-255>	М	ported only for JPN model.	4
466-6			Thick paper 3	ALL	0 <0-255>	М		4
466-7			OHP film	ALL	0 <0-255>	М		4
468-0	Finisher	Fine adjust- ment of bind-	A4-R/LT-R	ALL	0 <-14-14>	М	When the value increases by "1", the	4
468-1		ing position/ folding posi-	B4	ALL	0 <-14-14>	М	binding/folding position shifts toward the right	4
468-2		tion	A3/LD	ALL	0 <-14-14>	М	page by 0.25 mm.	4
469-0	Paper feeding	Paperaligning amount adjustment at	Thick paper 1 Long size	ALL	20 <0-63>	М	When the value increases by "1", the aligning amount	4
469-1		the registra- tion section (Upper drawer)	Thick paper 1 Middle size	ALL	20 <0-63>	М	increases by approx. 0.8 mm. <paper length=""> Long size:</paper>	4
469-2			Thick paper 1 Short size	ALL	20 <0-63>	М	Middle size: 220 mm to 329 mm	4
469-3			Thick paper 2 Long size	ALL	20 <0-63>	М	219 mm or shorter	4
469-4			Thick paper 2 Middle size	ALL	22 <0-63>	М		4
469-5			Thick paper 2 Short size	ALL	19 <0-63>	М		4
470-0	Paper feeding	Paperaligning amount	Long size	ALL	20 <0-63>	М		4
470-1		adjustment at the registra-	Middle size	ALL	22 <0-63>	М		4
470-2		(Lower drawer/Thick paper 1)	Short size	ALL	19 <0-63>	М		4
471-0	Paper feeding	Paperaligning amount	Long size	ALL	20 <0-63>	М		4
471-1		adjustment at the registra-	Middle size	ALL	22 <0-63>	М		4
471-2		tion section (PFP upper drawer/Thick paper 1)	Short size	ALL	19 <0-63>	М		4

2

		Adjustm	ent mode (0	5) <e-s1< th=""><th>UDIO200L/</th><th>/230/23</th><th>0L/280></th><th></th></e-s1<>	UDIO200L/	/230/23	0L/280>	
Code	Classi- fication	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
472-0	Paper feeding	Paper aligning amount	Long size	ALL	20 <0-63>	М	When the value increases by "1", the	4
472-1		adjustment at the registra-	Middle size	ALL	22 <0-63>	М	aligning amount increases by approx.	4
472-2		tion section (PFP lower drawer/Thick paper 1)	Short size	ALL	19 <0-63>	М	0.8 mm. <paper length=""> Long size: 330 mm or longer</paper>	4
473	Paper feeding	Paper aligning adjustment at the tion section (LCF/Thick paper)	amount he registra- ber 1)	ALL	8 <0-63>	М	Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	1
474-0	Paper feeding	Paper aligning amount	Long size	ALL	24 <0-63>	М		4
474-1		adjustment at the registra-	Middle size	ALL	24 <0-63>	М		4
474-2		tion section (Duplex feed- ing/Thick paper 1)	Short size	ALL	33 <0-63>	М		4
497-0	Laser	Adjustment of drawer side-	Upper drawer	ALL	128 <0-255>	М	When the value increases by "1", the	4
497-1		ways devia- tion	Lower drawer	ALL	128 <0-255>	М	image shifts toward the front side by 0.0423 mm.	4
497-2	-		PFP upper drawer	ALL	128 <0-255>	М		4
497-3			PFP lower drawer	ALL	128 <0-255>	М		4
497-4			LCF	ALL	128 <0-255>	М		4
497-5	-		Bypass feeding	ALL	128 <0-255>	М		4
498-0	Laser	Adjustment of primary scan-	Long size	ALL	148 <0-255>	М	When the value increases by "1", the	4
498-1		ning laser writing start position at duplex feed- ing	Short size (A4/LT or smaller)	ALL	148 <0-255>	М	image shifts toward the front side by 0.0423 mm.	4
501	Image	Density adjustment	Photo	PPC	128 <0-255>	SYS	When the value increases, the image at	1
503		Fine adjust- ment of "man-	Text/Photo	PPC	128 <0-255>	SYS	the center step becomes darker.	1
504		ual density"/ Center value	Text	PPC	128 <0-255>	SYS		1
505	Image	Density adjustment	Text/Photo	PPC	20 <0-255>	SYS	When the value increases, the image of	1
506		Fine adjust- ment of "man-	Photo	PPC	20 <0-255>	SYS	the "light" steps becomes lighter.	1
507		ual density"/ Light step value	Text	PPC	20 <0-255>	SYS		1

Adjustment mode (05) <e-studio200l 230="" 230l="" 280=""></e-studio200l>										
Code	Classi- fication	ltem	S	Func- tion	Default <accept- able</accept- 	RAM	Contents	Proce- dure		
500		D it	T. UDL L	550	value>	0)/0				
508	Image	Density adjustment Fine adjust- ment of "man-	Text/Photo	PPC	EUR:20 UC:20 JPN:30 <0-255>	515	increases, the image of the "dark" steps becomes darker.	1		
509	-	ual density"/ Dark step value	Photo	PPC	EUR:24 UC:24 JPN:24 <0-255>	SYS		1		
510			Text	PPC	EUR:20 UC:20 JPN:27 <0-255>	SYS		1		
512	Image	Density adjustment	Photo	PPC	128 <0-255>	SYS	When the value increases, the image	1		
514		Fine adjust- ment of "auto-	Text/Photo	PPC	128 <0-255>	SYS	becomes darker.	1		
515		matic density"	Text	PPC	128 <0-255>	SYS		1		
532	Image	Range correc- tion/Back-	Text/Photo	PPC	40 <0-255>	SYS	When the value increases, the back-	1		
533		ground peak adjustment	Photo	PPC	16 <0-255>	SYS	ground becomes more brightened.	1		
534			Text	PPC	64 <0-255>	SYS		1		
570	Image	Range correc- tion on origi- nal manually set on the original glass	Text/Photo	PPC	EUR:12 UC:12 JPN:22 <11-14, 21-24, 31-34, 41-44>	SYS	Sets whether the values of the background peak and text peak are fixed or not. One's place is an adjustment for "auto- matic density" and ten's place is for "manual den-	1		
571			Photo	PPC	12 <11-14, 21-24, 31-34, 41-44>	SYS	sity". Once they are fixed, the range correc- tion is performed with standard values. The values of the background	1		
572			Text	PPC	22 <11-14, 21-24, 31-34, 41-44>	SYS	peak and text peak affect the reproduction of the background density and text density respectively. 1: fixed/fixed 2: varied/fixed 3: fixed/varied 4: varied/varied * Background peak/ Text peak	1		

		Adjustm	ent mode (0	5) <e-s1< th=""><th>UDIO200L/</th><th>230/23</th><th>0L/280></th><th></th></e-s1<>	UDIO200L/	230/23	0L/280>	
Code	Classi- fication	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
593	Image	Gamma data slope adjust-	Text/Photo	PPC	0 <0-99>	SYS	One's place: 0: Equivalent to the set	1
594	Image	ment	Photo	PPC	0 <0-99>	SYS	value 5 1 to 9: Select the slope of	1
595	Image		Text	PPC	0 <0-99>	SYS	Gamma curve (The larger the value is, the larger the slope becomes.) Ten's place: 0: Equivalent to the set value 5 1 to 9: Select the slope of low density (The smaller the value is, the darker the background becomes.) 00: Use default value	1
620	Image	Sharpness adjustment	Text/Photo	PPC	EUR: 1 UC: 1 JPN: 0 <0-99>	SYS	When the value increases, the image becomes sharper. When the value decreases, the image becomes softer. The smaller the value is, the less the moire	1
621	-		Photo	PPC	2 <0-99>	SYS	becomes. One's place: Fixed value (05-620 is "1", 05-621 is "2", 05-622 is "5") Ten's place: Adjustable from 0 to 9 regarding the	1
622	-		Text	PPC	EUR: 45 UC: 45 JPN: 45 <0-99>	SYS	 default value as the stan- dard (The larger the value is, the sharper the image becomes.) * When entering "0" on the ten's place, this value is not displayed on the entry screen. 	1
653	Image	Adjustment of smudged/faint text	Text/Photo	PPC	EUR: 208 UC: 208 JPN: 216 <0-255>	SYS	Adjusts the level of the smudged/faint text. With increasing the value, the faint text is suppressed, and with decreasing it, the smudged text is sup- pressed.	1
654	Image	Adjustment of smudged/faint text	PS	PRT	5 <0-9>	М	Adjustment of the smudged/faint text. With decreasing the value, the faint text is	1
655			PCL	PRT	5 <0-9>	М	suppressed, and with increasing it, the smudged text is sup- pressed.	1

Adjustment mode (05) <e-studio200l 230="" 230l="" 280=""></e-studio200l>										
Code	Classi- fication	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure		
667-0	Image	Density adjustn ied image	nent of cop-	PPC	0 <0-10>	М	Adjusts the density level of copied image.	4		
667-1	-			PPC	4 <0-10>	М	When the value decreases, the text	4		
667-2	-			PPC	5 <0-10>	М	becomes lighter.	4		
667-3	-			PPC	6 <0-10>	М		4		
667-4				PPC	10 <0-10>	М		4		
672-0	Image	Adjustment of printer image	Normal	PRT	0 <0-10>	М	Adjustment of the image density.	4		
672-1		density		PRT	4 <0-10>	М	With decreasing the value, the text becomes	4		
672-2				PRT	5 <0-10>	М	lighter.	4		
672-3	-			PRT	6 <0-10>	М	-	4		
672-4	-			PRT	10 <0-10>	М	-	4		
676-0			Toner sav- ing	PRT	0 <0-10>	М		4		
676-1					PRT	2 <0-10>	М	-	4	
676-2				PRT	3 <0-10>	М	-	4		
676-3	-			PRT	4 <0-10>	М		4		
676-4	-			PRT	5 <0-10>	М	-	4		
693	Image	Range correc- tion on origi- nal set on the RADF	Text/Photo	PPC	EUR:12 UC:12 JPN:22 <11-14, 21-24, 31-34, 41-44>	SYS	Sets whether the values of the background peak and text peak are fixed or not. One's place is an adjustment for "auto- matic density" and ten's place is for "manual den-	1		
694			Photo	PPC	12 <11-14, 21-24, 31-34, 41-44>	SYS	sity". Once they are fixed, the range correc- tion is performed with standard values. The values of the back- ground peak and text	1		
695			Text	PPC	22 <11-14, 21-24, 31-34, 41-44>	SYS	peak affect the reproduc- tion of the background density and text density respectively. 1: fixed/fixed 2: varied/fixed 3: fixed/varied 4: varied/varied * Background peak/ Text peak	1		

		Adjustm	ent mode (0	5) <e-s1< th=""><th>TUDIO200L</th><th>/230/23</th><th>0L/280></th><th></th></e-s1<>	TUDIO200L	/230/23	0L/280>	
Code	Classi- fication	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
700	Image	Adjustment of binarized threshold (Text)	Center value	FAX	120 <0-255>	SYS	When the value increases, the image at the center step becomes lighter.	1
701			Light step value	FAX	20 <0-255>	SYS	When the value increases, the image of "light" side becomes lighter.	1
702			Dark step value	FAX	20 <0-255>	SYS	When the value increases, the image of "dark" side becomes darker.	1
710	Image	Density adjustment Fine adjust-	Photo	FAX	128 <0-255>	SYS	When the value increases, the image at the center step becomes	1
714		ment of "man- ual density"/ Center value	Text/Photo	FAX	128 <0-255>	SYS	darker.	1
715	Image	Density adjustment Fine adjust-	Photo	FAX	20 <0-255>	SYS	When the value increases, the image of the "light" steps becomes	1
719		ment of "man- ual density"/ Light step value	Text/Photo	FAX	20 <0-255>	SYS	lighter.	1
720	Image	Density adjustment Fine adjust-	Photo	FAX	20 <0-255>	SYS	When the value increases, the image of the "dark" steps	1
724		ment of "man- ual density"/ Dark step value	Text/Photo	FAX	20 <0-255>	SYS	becomes darker.	1
725	Image	Density adjustment	Photo	FAX	128 <0-255>	SYS	When the value increases, the image	1
729		Fine adjust- ment of "auto- matic density"	Text/Photo	FAX	128 <0-255>	SYS	becomes darker.	1
820	Image	Range correc- tion/Text peak	Text/Photo	SCN	224 <0-255>	SYS	When the value decreases, the text	1
821		adjustment	Text	SCN	224 <0-255>	SYS	becomes darker.	1
822			Photo	SCN	239 <0-255>	SYS		1

	Adjustment mode (05) <e-studio200l 230="" 230l="" 280=""></e-studio200l>										
Code	Classi- fication	ltem	s	Func- tion	Default <accept- able</accept- 	RAM	Contents	Proce- dure			
					value>						
825	Image	Range correc- tion on origi- nal manually set on the original glass	Text/Photo	SCN	12 <11-14, 21-24, 31-34, 41-44>	SYS	Sets whether the values of the background peak and text peak are fixed or not. One's place is an adjustment for "auto-	1			
826			Text	SCN	12 <11-14, 21-24, 31-34, 41-44>	SYS	matic density" and ten's place is for "manual den- sity". Once they are fixed, the range correc- tion is performed with	1			
827			Photo	SCN	12 <11-14, 21-24, 31-34, 41-44>	SYS	values of the background peak and text peak affect the reproduction of the background density and text density respectively. 1: fixed/fixed 2: varied/fixed 3: fixed/varied 4: varied/varied * Background peak/ Text peak	1			
830	Image	Range correc- tion on origi- nal set on the RADF	Text/Photo	SCN	12 <11-14, 21-24, 31-34, 41-44>	SYS	Sets whether the value of the background peak and text peak are fixed or not. One's place is an adjustment for "auto-	1			
831			Text	SCN	12 <11-14, 21-24, 31-34, 41-44>	SYS	matic density" and ten's place is for "manual den- sity". Once they are fixed, the range correc- tion is performed with	1			
832			Photo	SCN	12 <11-14, 21-24, 31-34, 41-44>	SYS	The values of the back- ground peak and text peak affect the reproduc- tion of the background density and text density respectively. 1: fixed/fixed 2: varied/fixed 3: fixed/varied 4: varied/varied * Background peak/ Text peak	1			
835	Image	Range correc- tion/Back-	Text/Photo	SCN	48 <0-255>	SYS	When the value increases, the back-	1			
836		adjustment	Text	SCN	48 <0-255>	SYS	brightened.	1			
837			Photo	SCN	40 <0-255>	515		1			
845	Image	Density adjustment	Text/Photo	SCN	128 <0-255>	SYS	When the value increases, the image at	1			
846		Fine adjust- ment of "man-	Text	SCN	128 <0-255>	SYS	tne center step becomes darker.	1			
847		Center value	Photo	SCN	128 <0-255>	SYS		1			

		Adjustm	ent mode (0	5) <e-s1< th=""><th>UDIO200L/</th><th>/230/23</th><th>0L/280></th><th></th></e-s1<>	UDIO200L/	/230/23	0L/280>	
Code	Classi- fication	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
850	Image	Density adjustment	Text/Photo	SCN	20 <0-255>	SYS	When the value increases, the image of	1
851		Fine adjust- ment of "man-	Text	SCN	20 <0-255>	SYS	the "light" steps becomes lighter.	1
852		ual density"/ Light step value	Photo	SCN	20 <0-255>	SYS		1
855	Image	Density adjustment	Text/Photo	SCN	20 <0-255>	SYS	When the value increases, the image of	1
856		Fine adjust- ment of "man-	Text	SCN	20 <0-255>	SYS	the "dark" steps becomes darker.	1
857		ual density"/ Dark step value	Photo	SCN	20 <0-255>	SYS		1
860	Image	Density adjustment	Text/Photo	SCN	128 <0-255>	SYS	When the value increases, the image	1
861		Fine adjust- ment of "auto-	Text	SCN	128 <0-255>	SYS	becomes darker.	1
862		matic density"	Photo	SCN	128 <0-255>	SYS		1
865-0	Image	Sharpness adjustment (Text/Photo)	Reproduc- tion ratio 40% or smaller	SCN	1 <0-99>	SYS	When the value increases, the image becomes sharper. When the value decreases, the	4
865-1			Reproduc- tion ratio 41-80%	SCN	1 <0-99>	SYS	image becomes softer. The smaller the value is, the less the moire	4
865-2			Reproduc- tion ratio 81% or larger	SCN	1 <0-99>	SYS	becomes. One's place: Fixed value (05-865 is "1", 05-866 is	4
866-0	Image	Sharpness adjustment (Text)	Reproduc- tion ratio 40% or smaller	SCN	2 <0-99>	SYS	Ten's place: Sharpness intensity (0: Use default value, 1-9: Filter inten- sity)	4
866-1			Reproduc- tion ratio 41-80%	SCN	2 <0-99>	SYS	(interpretation)	4
866-2			Reproduc- tion ratio 81% or larger	SCN	2 <0-99>	SYS		4
867-0	Image	Sharpness adjustment (Photo)	Reproduc- tion ratio 40% or smaller	SCN	5 <0-99>	SYS		4
867-1			Reproduc- tion ratio 41-80%	SCN	5 <0-99>	SYS		4
867-2			Reproduc- tion ratio 81% or larger	SCN	5 <0-99>	SYS		4

		Adjustm	ent mode (0	5) <e-s1< th=""><th>UDIO200L/</th><th>230/23</th><th>0L/280></th><th></th></e-s1<>	UDIO200L/	230/23	0L/280>	
Code	Classi- fication	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
913	Image	Range correc- tion on origi- nal manually set on the original glass	Custom Mode 1	PPC	EUR:12 UC:12 JPN:22 <11-14, 21-24, 31-34, 41-44>	SYS	Set whether the values of the background peak and text peak are fixed or not. One's place is an adjustment for "auto- matic density" and ten's place is for "manual den-	1
914			Custom Mode 2	PPC	22 <11-14, 21-24, 31-34, 41-44>	SYS	sity". Once they are fixed, the range correc- tion is performed with standard values. The values of the background peak and text peak affect	1
915			Custom Mode 3	PPC	12 <11-14, 21-24, 31-34, 41-44>	SYS	the reproduction of the background density and text density respectively. 1: fixed/fixed 2: varied/fixed 3: fixed/varied 4: varied/varied * Background peak/ Text peak	1
916	Image	Range correc- tion on origi- nal set on the RADF	Custom Mode 1	PPC	EUR:12 UC:12 JPN:22 <11-14, 21-24, 31-34, 41-44>	SYS	Set whether the values of the background peak and text peak are fixed or not. One's place is an adjustment for "auto- matic density" and ten's place is for "manual den-	1
917			Custom Mode 2	PPC	22 <11-14, 21-24, 31-34, 41-44>	SYS	sity". Once they are fixed, the range correc- tion is performed with standard values. The values of the background peak and text peak affect the reproduction of the	1
918			Custom Mode 3	PPC	12 <11-14, 21-24, 31-34, 41-44>	SYS	background density and text density respectively. 1: fixed/fixed 2: varied/fixed 3: fixed/varied 4: varied/varied * Background peak/ Text peak	1
919	Image	Range correc- tion	Custom Mode 1	PPC	40 <0-255>	SYS	When the value increases, the back-	1
920		Background peak adjust-	Custom Mode 2	PPC	64 <0-255>	SYS	ground becomes more brightened.	1
921			Custom Mode 3	PPC	16 <0-255>	SYS		1

		Adjustm	ent mode (0)5) <e-s⊺< th=""><th>UDIO200L</th><th>230/23</th><th>0L/280></th><th></th></e-s⊺<>	UDIO200L	230/23	0L/280>	
Code	Classi- fication	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
922	Image	Sharpness adjustment	Custom Mode 1	PPC	1 <0-99>	SYS	When the value increases, the image becomes sharper. When the value decreases, the image becomes softer. The smaller the value is, the less the moire	1
923			Custom Mode 2	PPC	EUR:45 UC:45 JPN:45 <0-99>	SYS	becomes. One's place: Fixed value (05-922 is "1", 05-923 is "5", 05-924 is "2") Ten's place: Adjustable from 0 to 9 regarding the	1
924			Custom Mode 3	PPC	2 <0-99>	SYS	dard (The larger the value is, the sharper the image becomes.) * When entering "0" on the ten's place, this value is not displayed on the entry screen.	1
928	Image	Adjustment of smudged/faint text	Custom Mode 1	PPC	208 <0-255>	SYS	Adjustment of the smudged/faint text. With increasing the value, the faint text is suppressed, and with decreasing it, the smudged text is sup- pressed.	1
931	Image	Density adjustment	Custom Mode 1	PPC	128 <0-255>	SYS	When the value increases, the image of	1
932		Fine adjust- ment of "man-	Custom Mode 2	PPC	128 <0-255>	SYS	the center step becomes darker.	1
933		Center value	Custom Mode 3	PPC	128 <0-255>	SYS		1
934	Image	Density adjustment	Custom Mode 1	PPC	20 <0-255>	SYS	When the value increases, the image of	1
935		Fine adjust- ment of "man-	Custom Mode 2	PPC	20 <0-255>	SYS	the "light" step density becomes lighter.	1
936		Light step value	Custom Mode 3	PPC	20 <0-255>	SYS		1
937	Image	Density adjustment	Custom Mode 1	PPC	20 <0-255>	SYS	When the value increases, the image of	1
938		Fine adjust- ment of "man-	Custom Mode 2	PPC	20 <0-255>	SYS	the "dark" step density becomes darker.	1
939		ual density"/ Dark step value	Custom Mode 3	PPC	20 <0-255>	SYS		1
940	Image	Density adjustment	Custom Mode 1	PPC	128 <0-255>	SYS	When the value increases, the image	1
941		Fine adjust- ment of "auto-	Custom Mode 2	PPC	128 <0-255>	SYS	becomes darker.	1
942		matic density"	Custom Mode 3	PPC	128 <0-255>	SYS		1

		Adjustm	ent mode (0	5) <e-s1< th=""><th>UDIO200L/</th><th>230/23</th><th>0L/280></th><th></th></e-s1<>	UDIO200L/	230/23	0L/280>	
Code	Classi- fication	ltem	IS	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
943	Image	Gamma data slope adjust- ment	Custom Mode 1	PPC	0 <0-99>	SYS	One's place: 0: Equivalent to the set value 5 1 to 9: Select the slope of Gamma curve (The	1
944			Custom Mode 2	PPC	0 <0-99>	SYS	larger the value is, the larger the slope becomes.) Ten's place: 0: Equivalent to the set	1
945			Custom Mode 3	PPC	0 <0-99>	SYS	1 to 9: Select the slope of low density (The smaller the value is, the darker the background becomes.) 00: Use default value	1
976	Mainte- nance	Equipment number (serial number) entry		ALL	-	SYS	When this adjustment is performed with this code, the setting code (08-995) is also performed auto- matically (10 digits).	1

2.2.6 Adjustment mode (05) (e-STUDIO202L/203L/232/233/282/283)

Items in the adjustment mode list in the following pages can be corrected or changed in the adjustment mode (05). Turn ON the power with pressing the digital keys [0] and [5] simultaneously in order to enter this mode.



Procedure 6



* When the automatic adjustment ends abnormally, error message is displayed.

Procedure 7



* When the automatic adjustment ends abnormally, error message is displayed.

Procedure 10



Procedure 17



* When the "storing is not performed within 2 minutes after pressing the [START] button at the manual adjustment, the "automatic adjustment" starts automatically.

Note:

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.

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 3.2.3 Printer related adjustment
3	Grid pattern (Duplex printing)	Refer to 3.2.3 Printer related adjustment

Notes:

- The digit after the hyphen in "Code" of the following table is a sub code.
- In "RAM", the NVRAM of the board in which the data of each code is stored is indicated. "M" stands for the LGC board and "SYS" stands for the SYS board.

		Adjustment mode (05) <	e-STUDI	O202L/203I	/232/2	33/282/283>	
Code	Classi- fication	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
200	Devel- oper	Automatic adjustment of auto-toner sensor (Fuser heater ON)	ALL	-	-	As the value increases, the sensor output increases correspond- ingly. The value starts chang- ing approx. 2 minutes after this adjustment was started and is automati- cally set in the range of 2.35 to 2.45 V. * Selection is disable when developer unit is not installed. (Chap. 3.1)	17
201	Devel- oper	Correction of auto-toner sensor (Fuser heater ON)	ALL	164 <0-255>	М	Corrects the control value of the auto-toner sensor setup in 05-200. * Selection is disable when developer unit is not installed.	3
205	Devel- oper	Developer bias DC output adjustment	ALL	135 <0-255>	М	As the value increases, the transformer output	3
210	Charger	Main charger grid bias out- put adjustment	ALL	90 <0-255>	М	increases correspond- ingly. Remove the devel- oper unit and install the adjustment jig to make	3
220	Transfer	Transfer transformer DC output adjustment (H)	ALL	165 <0-255>	М		3
221	Transfer	Transfer transformer DC output adjustment (C)	ALL	179 <0-255>	М	(Chap. 3.6)	3
222	Transfer	Transfer transformer DC output adjustment (L)	ALL	126 <0-255>	М		3
233	Separa- tion	Separation transformer DC output adjustment (H)	ALL	64 <0-255>	М		3
234	Separa- tion	Separation transformer DC output adjustment (C)	ALL	65 <0-255>	М		3
235	Separa- tion	Separation transformer DC output adjustment (L)	ALL	46 <0-255>	М		3
280	Process	Forced performing of idling for toner recycle	ALL	-	М	Perform this adjustment before the replacement of the developer mate- rial. (The toner is forcibly removed from the cleaner.)	6
286	Laser	Laser power adjustment	ALL	63 <0-255>	М	When the value increases, the laser out- put increases corre- spondingly.	3
305	Scanner	Image location adjustment of secondary scanning direction (scanner section)	ALL	125 <92-164>	SYS	When the value increases by "1", the image shifts by approx. 0.137 mm toward the trailing edge of the paper.	1

		Adjustment	mode (05) <	e-STUDI	O202L/203	L/232/2	33/282/283>	
Code	Classi- fication	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
306	Scanner	Image location of primary scan tion (scanner sectio	adjustment ining direc- n)	ALL	156 <0-255>	SYS	When the value increases by "1", the image shifts by approx. 0.0846 mm toward the front side of the paper.	1
308	Scanner	Distortion mode	e	ALL	-	-	Moves carriages to the adjusting position. (Chap. 3.2.4)	6
340	Scanner	Reproduction ratio adjust- ment of secondary scan- ning direction (scanner section)		ALL	129 <0-255>	SYS	When the value increases by "1", the reproduction ratio in the secondary scanning direction (vertical to paper feeding direction) increases by approx. 0.223%.	1
350	Scanner	Shading posi- tion adjust- ment	Original glass	ALL	128 <118- 138>	SYS	0.1369 mm/step	1
351	-		RADF	ALL	128 <118- 138>	SYS		1
354	RADF	Adjustment of RADF paper alignment	for single - sided orig- inal	ALL	10 <0-20>	SYS	When the value increases by "1", the aligning amount	1
355			for double sided orig- inal	ALL	10 <0-20>	SYS	increases by approx. 0.5 mm.	1
357	RADF	Fine adjustment of RADF transport speed		ALL	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
358	RADF	RADF sideway adjustment	s deviation	ALL	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. 0.0846 mm.	1
359	Scanner	Carriage position ment during sca RADF	ALL	128 <0-255>	SYS	When the value increases by "1", the car- riage position when using the RADF shifts by approx. 0.1 mm toward the original feeding side.	1	
365	RADF	RADF lead- ing edge posi- tion	for single - sided orig- inal	ALL	50 <0-100>	SYS	When the value increases by "1", the copied image of original	1
366		adjustment	for double sided orig- inal	ALL	50 <0-100>	SYS	ted from the RADF shifts toward the trailing edge of paper by approx. 0.1 mm.	1

		Adjustment mode (05) <	e-STUDI	O202L/203I	L/232/2	33/282/283>	
Code	Classi- fication	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
401	Laser	Fine adjustment of polygo- nal motor rotation speed (adjustment of primary	PRT	136 <0-255>	М	When the value increases by "1", the reproduction ratio of pri-	1
405		scanning direction repro- duction ratio)	PPC	134 <0-255>	М	mary scanning direction increases by approx. 0.07%. (approx. 0.1 mm/ step)	1
410	Laser	Adjustment of primary scanning laser writing start	PPC	128 <0-255>	М	When the value increases by "1", the writ-	1
411	-	position.	PRT	153 <0-255>	М	ing start position shifts to the front side by approx. 0.0423 mm.	1
421	Drive	Adjustment of secondary scanning direction repro- duction ratio	PPC/ PRT	129 <0-255>	М	When the value increases by "1", the reproduction ratio of sec-	1
422		(fine adjustment of main motor speed)	FAX	139 <0-255>	М	ondary scanning direc- tion increases by approx. 0.04%.	1
424	Drive	Fine adjustment of exit motor speed	PPC/ PRT	160 <0-255>	М	When the value increases by "1", the	1
425	1		FAX	121 <0-255>	М	rotation becomes faster by approx. 0.05%.	1

2

		Adjustment	mode (05) <	e-STUDI	O202L/203	/232/2	33/282/283>	
Code	Classi- fication	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
430	Image	Top margin adju (blank area at t edge of the pap	ustment he leading per)	PPC	0 <0-255>	М	When the value increases by "1", the blank area becomes	1
431	Image	Left margin adji (blank area at th paper along the feeding directio	ustment ne left of the e paper n)	PPC	0 <0-255>	М	wider by approx. 0.0423 mm.	1
432	Image	Right margin ac (blank area at t the paper along feeding directio	djustment he right of the paper n)	PPC	0 <0-255>	М		1
433	Image	Bottom margin (blank area at t edge of the pap	adjustment he trailing per)	PPC	0 <0-255>	М	-	1
434-0	Image	Bottom margin (blank area at t edge of the pap Reverse side a	adjustment he trailing ber)/ t duplexing	PPC/ PRT	29 <0-255>	М		4
434-1	Image	Right margin ac (blank area at t the paper along feeding directio side at duplexir	djustment he right of the paper n)/Reverse	PPC/ PRT	29 <0-255>	М		4
435	Image	Top margin adju (blank area at t edge of the pap	ustment he leading ber)	PRT	24 <0-255>	М		1
436	Image	Left margin adju (blank area at th paper along the feeding directio	ustment ne left of the e paper n)	PRT	0 <0-255>	М		1
437	Image	Right margin ac (blank area at t the paper along feeding directio	djustment he right of the paper n)	PRT	0 <0-255>	М		1
438	Image	Bottom margin (blank area at t edge of the pap	adjustment he trailing per)	PRT	0 <0-255>	М		1
440	Laser	Adjustment of secondary scanning	Upper drawer	ALL	8 <refer to<br="">content></refer>	М	When the value increases by "1", the image shifts toward the	1
441		laser writing start position	Lower drawer	ALL	21 <0-40>	М	leading edge of the paper by approx.	1
442			Bypass feeding	ALL	8 <0-15>	М	U.∠ mm. <acceptable value=""> e-STUDIO232/233/282/</acceptable>	1
443			LCF	ALL	8 <0-15>	М	283: 0-15 e-STUDIO2021 /2031	1
444			PFP	ALL	8 <0-15>	М	0-40	1
445			Duplex feeding	ALL	8 <0-15>	М		1

		Adjustment	mode (05) <	e-STUDI	O202L/203	L/232/2	33/282/283>	
Code	Classi- fication	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
448-0	Paper feeding	Paperaligning amount	Long size	ALL	10 <0-63>	М	When the value increases by "1", the	4
448-1		adjustment at the registra-	Middle size	ALL	10 <0-63>	М	aligning amount increases by approx.	4
448-2		tion section (PFP upper drawer/Plain paper)	Short size	ALL	8 <0-63>	М	0.8 mm. <paper length=""> Long size: 330 mm or longer</paper>	4
449-0	Paper feeding	Paperaligning amount	Long size	ALL	10 <0-63>	М	Middle size: 220 mm to 329 mm	4
449-1		adjustment at the registra-	Middle size	ALL	10 <0-63>	М	219 mm or shorter	4
449-2		tion section (PFP lower drawer/Plain paper)	Short size	ALL	8 <0-63>	М		4
450-0	Paper feeding	Paperaligning amount	Long size	ALL	17 <0-63>	М		4
450-1		adjustment at the registra-	Middle size	ALL	17 <0-63>	М	-	4
450-2		tion section (Upper drawer/Plain paper)	Short size	ALL	17 <0-63>	М	-	4
452-0	Paper feeding	Paperaligning amount	Long size	ALL	12 <0-63>	М	-	4
452-1		adjustment at the registra-	Middle size	ALL	10 <0-63>	М	-	4
452-2		tion section (Lower drawer/Plain paper)	Short size	ALL	10 <0-63>	М	-	4
455-0	Paper feeding	Paperaligning amount	Long size	ALL	20 <0-63>	М		4
455-1		adjustment at the registra-	Middle size	ALL	20 <0-63>	М		4
455-2	1	tion section (Duplex feed- ing/Plain paper)	Short size	ALL	30 <0-63>	М		4
457	Paper feeding	Paper aligning adjustment at th tion section (LCF/Plain pap	amount he registra- er)	ALL	8 <0-63>	М		1

		Adjustment	mode (05) <	e-STUDI	O202L/203	L/232/2	33/282/283>	
Code	Classi- fication	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
458-0	Paper	Paperaligning	Long size	ALL	26	М	When the value	4
458-1	teeding	amount adjustment at the registra-	Middle	ALL	<0-63> 26	М	aligning amount	4
458-2		tion section (Bypass feed- ing/Plain paper)	Short size	ALL	<0-03> 25 <0-63>	M	0.8 mm. <paper length=""> Long size: 330 mm or longer</paper>	4
460-0	Paper feeding	Paperaligning amount	Long size	ALL	26 <0-63>	М	Middle size: 220 mm to 329 mm	4
460-1		adjustment at the registra-	Middle size	ALL	26 <0-63>	М	Short size: 219 mm or shorter	4
460-2		tion section (Bypass feed- ing/Thick paper 1)	Short size	ALL	26 <0-63>	М	 Postcard is sup- ported only for JPN model. 	4
461-0	Paper feeding	Paperaligning amount	Long size	ALL	17 <0-63>	М		4
461-1		adjustment at the registra-	Middle size	ALL	17 <0-63>	М		4
461-2		tion section (Bypass feed- ing/Thick paper 2)	Short size	ALL	17 <0-63>	М		4
462-0	Paper feeding	Paper aligning amount	Long size	ALL	17 <0-63>	М		4
462-1	_	adjustment at the registra-	Middle size	ALL	17 <0-63>	М		4
462-2		tion section (Bypass feed-	Short size	ALL	17 <0-63>	М		4
462-3		paper 3)	Postcard	ALL	14 <0-63>	М		4
463-0	Paper feeding	Paperaligning amount	Long size	ALL	26 <0-63>	М		4
463-1		adjustment at the registra-	Middle size	ALL	26 <0-63>	М		4
463-2		tion section (Bypass feed- ing/OHP film)	Short size	ALL	26 <0-63>	М		4
464-0	Paper feeding	Paperaligning amount	Long size	ALL	26 <0-63>	М		4
464-1		adjustment at the registra-	Middle size	ALL	26 <0-63>	М		4
464-2		(Bypass feed- ing /Envelope)	Short size	ALL	26 <0-63>	М		4
		Adjustment	mode (05) <	e-STUDI	O202L/203	_/232/2	33/282/283>	
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Code	Classi- fication	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
466-0	Paper feeding	Adjustment of paper push-	Plain paper	ALL	0 <0-255>	М	When the value increases by "1", the	4
466-1	-	ing amount/ Bypass feed-	Postcard	ALL	0 <0-255>	М	driving speed of bypass feed roller increases by	4
466-3		ing	Envelope	ALL	0 <0-255>	М	approx. 0.2 ms when the paper transport is started	4
466-4			Thick paper 1	ALL	0 <0-255>	М	tion.	4
466-5			Thick paper 2	ALL	0 <0-255>	М	ported only for JPN model.	4
466-6			Thick paper 3	ALL	0 <0-255>	М		4
466-7			OHP film	ALL	0 <0-255>	М		4
468-0	Finisher	Fine adjust- ment of bind-	A4-R/LT-R	ALL	0 <-14-14>	М	When the value increases by "1", the	4
468-1		ing position/ folding posi-	B4	ALL	0 <-14-14>	М	binding/folding position shifts toward the right	4
468-2		tion	A3/LD	ALL	0 <-14-14>	М	page by 0.25 mm.	4
469-0	Paper feeding	Paperaligning amount adjustment at	Thick paper 1 Long size	ALL	20 <0-63>	М	When the value increases by "1", the aligning amount	4
469-1		the registra- tion section (Upper drawer)	Thick paper 1 Middle size	ALL	20 <0-63>	М	increases by approx. 0.8 mm. <paper length=""> Long size:</paper>	4
469-2			Thick paper 1 Short size	ALL	20 <0-63>	М	330 mm or longer Middle size: 220 mm to 329 mm	4
469-3			Thick paper 2 Long size	ALL	20 <0-63>	М	219 mm or shorter	4
469-4			Thick paper 2 Middle size	ALL	22 <0-63>	М		4
469-5			Thick paper 2 Short size	ALL	19 <0-63>	М		4
470-0	Paper feeding	Paperaligning amount	Long size	ALL	20 <0-63>	М		4
470-1		adjustment at the registra-	Middle size	ALL	22 <0-63>	М		4
470-2		uon section (Lower drawer/Thick paper 1)	Short size	ALL	19 <0-63>	М		4
471-0	Paper feeding	Paper aligning amount	Long size	ALL	20 <0-63>	М		4
471-1		adjustment at the registra-	Middle size	ALL	22 <0-63>	М		4
471-2		tion section (PFP upper drawer/Thick paper 1)	Short size	ALL	19 <0-63>	М		4

	Adjustment mode (05) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>							
Code	Classi- fication	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
472-0	Paper feeding	Paperaligning amount	Long size	ALL	20 <0-63>	М	When the value increases by "1", the	4
472-1	-	adjustment at the registra-	Middle size	ALL	22 <0-63>	М	aligning amount increases by approx.	4
472-2		tion section (PFP lower drawer/Thick paper 1)	Short size	ALL	19 <0-63>	М	0.8 mm. <paper length=""> Long size: 330 mm or longer</paper>	4
473	Paper feeding	Paper aligning adjustment at the tion section (LCF/Thick paper)	amount he registra- ber 1)	ALL	8 <0-63>	М	Middle size: 220 mm to 329 mm Short size: 219 mm or shorter	1
474-0	Paper feeding	Paper aligning amount	Long size	ALL	24 <0-63>	М		4
474-1		adjustment at the registra-	Middle size	ALL	24 <0-63>	М		4
474-2	-	tion section (Duplex feed- ing/Thick paper 1)	Short size	ALL	33 <0-63>	М		4
497-0	Laser	Adjustment of drawer side-	Upper drawer	ALL	128 <0-255>	М	When the value increases by "1", the	4
497-1		ways devia- tion	Lower drawer	ALL	128 <0-255>	М	image shifts toward the front side by 0.0423 mm.	4
497-2			PFP upper drawer	ALL	128 <0-255>	М		4
497-3			PFP lower drawer	ALL	128 <0-255>	М		4
497-4			LCF	ALL	128 <0-255>	М		4
497-5	-		Bypass feeding	ALL	128 <0-255>	М		4
498-0	Laser	Adjustment of primary scan-	Long size	ALL	148 <0-255>	М	When the value increases by "1", the	4
498-1		ning laser writing start position at duplex feed- ing	Short size (A4/LT or smaller)	ALL	148 <0-255>	М	image shifts toward the front side by 0.0423 mm.	4
501	Image	Density adjustment	Photo	PPC	128 <0-255>	SYS	When the value increases, the image at	1
503		Fine adjust- ment of "man-	Text/Photo	PPC	128 <0-255>	SYS	the center step becomes darker.	1
504		ual density"/ Center value	Text	PPC	128 <0-255>	SYS		1
505	Image	Density adjustment	Text/Photo	PPC	20 <0-255>	SYS	When the value increases, the image of	1
506		Fine adjust- ment of "man-	Photo	PPC	20 <0-255>	SYS	the "light" steps becomes lighter.	1
507		ual density"/ Light step value	Text	PPC	20 <0-255>	SYS		1

		Adjustment	mode (05) <e< th=""><th>e-STUDI</th><th>O202L/203</th><th>_/232/2</th><th>33/282/283></th><th></th></e<>	e-STUDI	O202L/203	_/232/2	33/282/283>	
Code	Classi- fication	ltem	s	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
508	Image	Density adjustment Fine adjust- ment of "man-	Text/Photo	PPC	EUR:20 UC:20 JPN:30 <0-255>	SYS	When the value increases, the image of the "dark" steps becomes darker.	1
509		ual density"/ Dark step value	Photo	PPC	EUR:24 UC:24 JPN:24 <0-255>	SYS		1
510			Text	PPC	EUR:20 UC:20 JPN:27 <0-255>	SYS		1
512	Image	Density adjustment	Photo	PPC	128 <0-255>	SYS	When the value increases, the image	1
514		Fine adjust- ment of "auto-	Text/Photo	PPC	128 <0-255>	SYS	becomes darker.	1
515		matic density"	Text	PPC	128 <0-255>	SYS		1
532	Image	Range correc- tion/Back-	Text/Photo	PPC	40 <0-255>	SYS	When the value increases, the back-	1
533	-	ground peak adjustment	Photo	PPC	16 <0-255>	SYS	ground becomes more brightened.	1
534	-		Text	PPC	64 <0-255>	SYS		1
570	Image	Range correc- tion on origi- nal manually set on the original glass	Text/Photo	PPC	EUR:12 UC:12 JPN:22 <11-14, 21-24, 31-34, 41-44>	SYS	Sets whether the values of the background peak and text peak are fixed or not. One's place is an adjustment for "auto- matic density" and ten's place is for "manual den-	1
571			Photo	PPC	12 <11-14, 21-24, 31-34, 41-44>	SYS	sity". Once they are fixed, the range correc- tion is performed with standard values. The values of the background	1
572			Text	PPC	22 <11-14, 21-24, 31-34, 41-44>	SYS	peak and text peak affect the reproduction of the background density and text density respectively. 1: fixed/fixed 2: varied/fixed 3: fixed/varied 4: varied/varied * Background peak/ Text peak	1

		Adjustment	mode (05) <	e-STUDI	O202L/203	L/232/2	33/282/283>	
Code	Classi- fication	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
593	Image	Gamma data slope adjust-	Text/Photo	PPC	0 <0-99>	SYS	One's place: 0: Equivalent to the set	1
594	Image	ment	Photo	PPC	0 <0-99>	SYS	value 5 1 to 9: Select the slope of	1
595	Image		Text	PPC	0 <0-99>	SYS	Gamma curve (The larger the value is, the larger the slope becomes.) Ten's place: 0: Equivalent to the set value 5 1 to 9: Select the slope of low density (The smaller the value is, the darker the background becomes.) 00: Use default value	1
596-0	Image	Gamma bal- ance adjust-	Low density	PRT	128 <0-255>	SYS	When the value increases, the density in	4
596-1	Image	ment (PS/Photo)	Medium density	PRT	128 <0-255>	SYS	the target area becomes higher.	4
596-2	Image	-	High density	PRT	128 <0-255>	SYS		4
597-0	Image	Gamma bal- ance adjust-	Low density	PRT	128 <0-255>	SYS	When the value increases, the density in	4
597-1	Image	ment (PS/Text)	Medium density	PRT	128 <0-255>	SYS	the target area becomes higher.	4
597-2	Image	-	High density	PRT	128 <0-255>	SYS	-	4
598-0	Image	Gamma bal- ance adjust-	Low density	PRT	128 <0-255>	SYS	When the value increases, the density in	4
598-1	Image	ment (PCL/Photo)	Medium density	PRT	128 <0-255>	SYS	the target area becomes higher.	4
598-2	Image		High density	PRT	128 <0-255>	SYS		4
599-0	Image	Adjustment of gamma bal-	Low density	PRT	128 <0-255>	SYS	When the value increases, the density in	4
599-1	Image	ance (PCL/Detail)	Medium density	PRT	128 <0-255>	SYS	the target area becomes higher.	4
599-2	Image	1	High density	PRT	128 <0-255>	SYS		4

		Adjustment	mode (05) <	e-STUDI	O202L/2031	/232/2	33/282/283>	
Code	Classi- fication	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
620	Image	Sharpness adjustment	Text/Photo	PPC	EUR: 1 UC: 1 JPN: 0 <0-99>	SYS	When the value increases, the image becomes sharper. When the value decreases, the image becomes softer. The smaller the value is, the less the moire	1
621			Photo	PPC	2 <0-99>	SYS	becomes. One's place: Fixed value (05-620 is "1", 05-621 is "2", 05-622 is "5") Ten's place: Adjustable from 0 to 9 regarding the	1
622			Text	PPC	EUR: 45 UC: 45 JPN: 45 <0-99>	SYS	 default value as the stan- dard (The larger the value is, the sharper the image becomes.) * When entering "0" on the ten's place, this value is not displayed on the entry screen. 	1
648	Image	Adjustment of smudged/faint text	Text/Photo	PPC	2 <0-4>	SYS	Adjusts the level of the smudged/faint text. With increasing the value, the faint text is suppressed, and with decreasing it, the smudged text is sup- pressed.	1
654	Image	Adjustment of smudged/faint text	PS	PRT	5 <0-9>	М	Adjustment of the smudged/faint text. With decreasing the value, the faint text is	1
655			PCL	PRT	5 <0-9>	М	suppressed, and with increasing it, the smudged text is sup- pressed.	1
667-0	Image	Density adjustn ied image	nent of cop-	PPC	0 <0-10>	М	Adjusts the density level of copied image.	4
667-1				PPC	4 <0-10>	М	When the value decreases, the text	4
667-2				PPC	5 <0-10>	М	becomes lighter.	4
667-3				PPC	6 <0-10>	М		4
667-4				PPC	10 <0-10>	М		4

		Adjustment	mode (05) <	e-STUD	O202L/203	/232/2	33/282/283>	
Code	Classi- fication	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
672-0	Image	Adjustment of printer image	Normal	PRT	0 <0-10>	М	Adjustment of the image density.	4
672-1		density		PRT	4 <0-10>	М	With decreasing the value, the text becomes	4
672-2	-			PRT	5 <0-10>	М	lighter.	4
672-3				PRT	6 <0-10>	М		4
672-4	-			PRT	10 <0-10>	М		4
676-0			Toner sav- ing	PRT	0 <0-10>	М		4
676-1			-	PRT	2 <0-10>	М		4
676-2	-			PRT	3 <0-10>	М	-	4
676-3				PRT	4 <0-10>	М	+	4
676-4				PRT	5 <0-10>	М	+	4
693	Image	Range correc- tion on origi- nal set on the RADF	Text/Photo	PPC	EUR:12 UC:12 JPN:22 <11-14, 21-24, 31-34, 41-44>	SYS	Sets whether the values of the background peak and text peak are fixed or not. One's place is an adjustment for "auto- matic density" and ten's place is for "manual den- sity" Once they are	1
694			Ρηστο	PPC	12 <11-14, 21-24, 31-34, 41-44>	515	fixed, the range correc- tion is performed with standard values. The values of the back- ground peak and text	1
695			Text	PPC	22 <11-14, 21-24, 31-34, 41-44>	SYS	peak affect the reproduc- tion of the background density and text density respectively. 1: fixed/fixed 2: varied/fixed 3: fixed/varied 4: varied/varied * Background peak/ Text peak	1
700	Image	Adjustment of binarized threshold (Text)	Center value	FAX	120 <0-255>	SYS	When the value increases, the image at the center step becomes lighter.	1
701			Light step value	FAX	20 <0-255>	SYS	When the value increases, the image of "light" side becomes lighter.	1
702			Dark step value	FAX	20 <0-255>	SYS	When the value increases, the image of "dark" side becomes darker.	1

Adjustment mode (05) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>								
Code	Classi- fication	ltem	IS	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
710	Image	Density adjustment Fine adjust-	Photo	FAX	128 <0-255>	SYS	When the value increases, the image at the center step becomes	1
714		ment of "man- ual density"/ Center value	Text/Photo	FAX	128 <0-255>	SYS	darker.	1
715	Image	Density adjustment Fine adjust-	Photo	FAX	20 <0-255>	SYS	When the value increases, the image of the "light" steps becomes	1
719		ment of "man- ual density"/ Light step value	Text/Photo	FAX	20 <0-255>	SYS	lighter.	1
720	Image	Density adjustment Fine adjust-	Photo	FAX	20 <0-255>	SYS	When the value increases, the image of the "dark" steps	1
724		ment of "man- ual density"/ Dark step value	Text/Photo	FAX	20 <0-255>	SYS	becomes darker.	1
725	Image	Density adjustment	Photo	FAX	128 <0-255>	SYS	When the value increases, the image	1
729		Fine adjust- ment of "auto- matic density"	Text/Photo	FAX	128 <0-255>	SYS	becomes darker.	1
820	Image	Range correc- tion/Text peak	Text/Photo	SCN	224 <0-255>	SYS	When the value decreases, the text	1
821		adjustment	Text	SCN	224 <0-255>	SYS	becomes darker.	1
822			Photo	SCN	239 <0-255>	SYS		1
825	Image	Range correc- tion on origi- nal manually set on the original glass	Text/Photo	SCN	12 <11-14, 21-24, 31-34, 41-44>	SYS	Sets whether the values of the background peak and text peak are fixed or not. One's place is an adjustment for "auto-	1
826			Text	SCN	12 <11-14, 21-24, 31-34, 41-44>	SYS	matic density" and ten's place is for "manual den- sity". Once they are fixed, the range correc- tion is performed with	1
827			Photo	SCN	12 <11-14, 21-24, 31-34, 41-44>	SYS	values of the background peak and text peak affect the reproduction of the background density and text density respectively. 1: fixed/fixed 2: varied/fixed 3: fixed/varied 4: varied/varied * Background peak/ Text peak	

2 - 79 07/11

		Adjustment	mode (05) <	e-STUDI	O202L/203	L/232/2	33/282/283>	
Code	Classi- fication	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
830	Image	Range correc- tion on origi- nal set on the RADF	Text/Photo	SCN	12 <11-14, 21-24, 31-34, 41-44>	SYS	Sets whether the value of the background peak and text peak are fixed or not. One's place is an adjustment for "auto-	1
831			Text	SCN	12 <11-14, 21-24, 31-34, 41-44>	SYS	matic density" and ten's place is for "manual den- sity". Once they are fixed, the range correc- tion is performed with	1
832			Photo	SCN	12 <11-14, 21-24, 31-34, 41-44>	SYS	The values of the back- ground peak and text peak affect the reproduc- tion of the background density and text density respectively. 1: fixed/fixed 2: varied/fixed 3: fixed/varied 4: varied/varied * Background peak/ Text peak	1
835	Image	Range correc- tion/Back-	Text/Photo	SCN	48 <0-255>	SYS	When the value increases, the back-	1
836		ground peak adjustment	Text	SCN	48 <0-255>	SYS	ground becomes more brightened.	1
837			Photo	SCN	40 <0-255>	SYS		1
845	Image	Density adjustment	Text/Photo	SCN	128 <0-255>	SYS	When the value increases, the image at	1
846		Fine adjust- ment of "man-	Text	SCN	128 <0-255>	SYS	the center step becomes darker.	1
847		Center value	Photo	SCN	128 <0-255>	SYS		1
850	Image	Density adjustment	Text/Photo	SCN	20 <0-255>	SYS	When the value increases, the image of	1
851		Fine adjust- ment of "man-	Text	SCN	20 <0-255>	SYS	the "light" steps becomes lighter.	1
852	-	Light step	Photo	SCN	20 <0-255>	SYS		1
855	Image	Density adjustment	Text/Photo	SCN	20 <0-255>	SYS	When the value increases, the image of	1
856		Fine adjust- ment of "man-	Text	SCN	20 <0-255>	SYS	the "dark" steps becomes darker.	1
857		ual density"/ Dark step value	Photo	SCN	20 <0-255>	SYS		1
860	Image	Density adjustment	Text/Photo	SCN	128 <0-255>	SYS	When the value increases, the image	1
861		Fine adjust- ment of "auto-	Text	SCN	128 <0-255>	SYS	becomes darker.	1
862		matic density"	Photo	SCN	128 <0-255>	SYS		1

Adjustment mode (05) <e-studio202l 203l="" 232="" 233="" 282="" 283="">CodeClassi- ficationItemsFunc- tionProc able value>RAMContentsProc dur865-0ImageSharpness adjustment (Text/Photo)Reproduc- tion ratio 40% or smallerSCN1 <0-99>SYSWhen the value increases, the image becomes sharper. When the value decreases, the image becomes softer. The smaller the value decreases, the image becomes softer. The smaller the value is, the less the moire becomes.41 softer. 41-80%865-2865-2Reproduc- tion ratio 81% or largerSCN1 <0-99>SYSOne's place: Fixed value (05-865 is "1", 05-866 is "2", 05-867 is "5")41</e-studio202l>								
Code	Classi- fication	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
865-0	Image	Sharpness adjustment (Text/Photo)	Reproduc- tion ratio 40% or smaller	SCN	1 <0-99>	SYS	When the value increases, the image becomes sharper. When the value decreases, the	4
865-1			Reproduc- tion ratio 41-80%	SCN	1 <0-99>	SYS	image becomes softer. The smaller the value is, the less the moire	4
865-2			Reproduc- tion ratio 81% or larger	SCN	1 <0-99>	SYS	One's place: Fixed value (05-865 is "1", 05-866 is "2" 05-867 is "5")	4
866-0	Image	Sharpness adjustment (Text)	Reproduc- tion ratio 40% or smaller	SCN	2 <0-99>	SYS	Ten's place: Sharpness intensity (0: Use default value, 1-9: Filter inten- sity)	4
866-1			Reproduc- tion ratio 41-80%	SCN	2 <0-99>	SYS		4
866-2			Reproduc- tion ratio 81% or larger	SCN	2 <0-99>	SYS		4
867-0	Image	Sharpness adjustment (Photo)	Reproduc- tion ratio 40% or smaller	SCN	5 <0-99>	SYS		4
867-1			Reproduc- tion ratio 41-80%	SCN	5 <0-99>	SYS		4
867-2			Reproduc- tion ratio 81% or larger	SCN	5 <0-99>	SYS		4
913	Image	Range correc- tion on origi- nal manually set on the original glass	Custom Mode 1	PPC	EUR:12 UC:12 JPN:22 <11-14, 21-24, 31-34, 41-44>	SYS	Set whether the values of the background peak and text peak are fixed or not. One's place is an adjustment for "auto- matic density" and ten's place is for "manual den-	1
914			Custom Mode 2	PPC	22 <11-14, 21-24, 31-34, 41-44>	SYS	sity". Once they are fixed, the range correc- tion is performed with standard values. The values of the background peak and text peak affect	1
915			Custom Mode 3	PPC	12 <11-14, 21-24, 31-34, 41-44>	SYS	the reproduction of the background density and text density respectively. 1: fixed/fixed 2: varied/fixed 3: fixed/varied 4: varied/varied * Background peak/ Text peak	1

2

		Adjustment	mode (05) <	e-STUDI	O202L/203	L/232/2	33/282/283>	
Code	Classi- fication	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
916	Image	Range correc- tion on origi- nal set on the RADF	Custom Mode 1	PPC	EUR:12 UC:12 JPN:22 <11-14, 21-24, 31-34, 41-44>	SYS	Set whether the values of the background peak and text peak are fixed or not. One's place is an adjustment for "auto- matic density" and ten's place is for "manual den-	1
917			Custom Mode 2	PPC	22 <11-14, 21-24, 31-34, 41-44>	SYS	sity". Once they are fixed, the range correc- tion is performed with standard values. The values of the background peak and text peak affect the reproduction of the background density and	1
918			Custom Mode 3	PPC	12 <11-14, 21-24, 31-34, 41-44>	SYS	 background density and text density respectively. 1: fixed/fixed 2: varied/fixed 3: fixed/varied 4: varied/varied * Background peak/ Text peak 	1
919	Image	Range correc- tion	Custom Mode 1	PPC	40 <0-255>	SYS	When the value increases, the back-	1
920		Background peak adjust-	Custom Mode 2	PPC	64 <0-255>	SYS	ground becomes more brightened.	1
921		ment	Custom Mode 3	PPC	16 <0-255>	SYS		1
922	Image	Sharpness adjustment	Custom Mode 1	PPC	1 <0-99>	SYS	When the value increases, the image becomes sharper. When the value decreases, the image becomes softer. The smaller the value is, the less the moire	1
923			Custom Mode 2	PPC	EUR:45 UC:45 JPN:45 <0-99>	SYS	becomes. One's place: Fixed value (05-922 is "1", 05-923 is "5", 05-924 is "2") Ten's place: Adjustable from 0 to 9 regarding the	1
924			Custom Mode 3	PPC	2 <0-99>	SYS	 default value as the stan- dard (The larger the value is, the sharper the image becomes.) * When entering "0" on the ten's place, this value is not displayed on the entry screen. 	1
928	Image	Adjustment of smudged/faint text	Custom Mode 1	PPC	2 <0-4>	SYS	Adjustment of the smudged/faint text. With increasing the value, the faint text is suppressed, and with decreasing it, the smudged text is sup- pressed.	1

		Adjustment	mode (05) <	e-STUDI	O202L/2031	_/232/2	33/282/283>	
Code	Classi- fication	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
931	Image	Density adjustment	Custom Mode 1	PPC	128 <0-255>	SYS	When the value increases, the image of	1
932		Fine adjust- ment of "man-	Custom Mode 2	PPC	128 <0-255>	SYS	the center step becomes darker.	1
933		Center value	Custom Mode 3	PPC	128 <0-255>	SYS	-	1
934	Image	Density adjustment	Custom Mode 1	PPC	20 <0-255>	SYS	When the value increases, the image of	1
935		Fine adjust- ment of "man-	Custom Mode 2	PPC	20 <0-255>	SYS	the "light" step density becomes lighter.	1
936		ual density"/ Light step value	Custom Mode 3	PPC	20 <0-255>	SYS	-	1
937	Image	Density adjustment	Custom Mode 1	PPC	20 <0-255>	SYS	When the value increases, the image of	1
938		Fine adjust- ment of "man-	Custom Mode 2	PPC	20 <0-255>	SYS	the "dark" step density becomes darker.	1
939		ual density"/ Dark step value	Custom Mode 3	PPC	20 <0-255>	SYS	-	1
940	Image	Density adjustment	Custom Mode 1	PPC	128 <0-255>	SYS	When the value increases, the image	1
941		Fine adjust- ment of "auto-	Custom Mode 2	PPC	128 <0-255>	SYS	becomes darker.	1
942	-	matic density"	Custom Mode 3	PPC	128 <0-255>	SYS		1
943	Image	Gamma data slope adjust- ment	Custom Mode 1	PPC	0 <0-99>	SYS	One's place: 0: Equivalent to the set value 5 1 to 9: Select the slope of Gamma curve (The	1
944			Custom Mode 2	PPC	0 <0-99>	SYS	larger the value is, the larger the slope becomes.) Ten's place: 0: Equivalent to the set	1
945			Custom Mode 3	PPC	0 <0-99>	SYS	value 5 1 to 9: Select the slope of low density (The smaller the value is, the darker the background becomes.) 00: Use default value	1
976	Mainte- nance	Equipment nun number) entry	nber (serial	ALL	-	SYS	When this adjustment is performed with this code, the setting code (08-995) is also performed auto- matically (10 digits).	1

2.2.7 Setting mode (08) (e-STUDIO200L/230/230L/280)









Notes:

- The digit after the hyphen in "Code" of the following table is a sub code.
- e-STUDIO200L/230/230L/280:In "RAM", the NVRAM of the board in which the data of each code is stored is indicated. "M" stands for the LGC board, "SYS" and "UTY" stands for the SYS board and "NIC" stands for the NIC board.

		Setting mode (08)	<e-stu< th=""><th>DIO200L/230</th><th>0/230L/2</th><th>280></th><th></th></e-stu<>	DIO200L/230	0/230L/2	280>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
200	General	Date and time setting	ALL	- <13 dig- its>	-	Year/month/date/day/ hour/minute/second Example: 03 07 0 13 13 27 48 "Day" - "0" is for "Sunday". Pro- ceeds Monday through Saturday from "1" to "6".	5
201	General	Destination selection	ALL	EUR: 0 UC: 1 JPN: 2 <0-2>	М	0: EUR 1: UC 2: JPN	1
202	User interface	Counter installed externally	ALL	0 <0-3>	М	 No external counter Coin controller Copy key card (This value is valid only when "2" is set to 08-201.) Key copy counter 	1
203	General	Line adjustment mode	ALL	0 <0-1>	М	0: For factory ship- ment 1: For line * Field: "0" must be selected	1
204	User interface	Auto-clear timer setting	ALL	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
205	User interface	Auto power save mode timer setting	ALL	EUR: 11 UC: 11 JPN: 6 Others: 11 <0, 6-15>	SYS	Timer to automatically switch to the Auto power save mode when the equipment has not been used 0: Invalid 6: 3min. 7: 4min. 8: 5min. 9: 7min. 10: 10min. 11: 15min. 12: 20min. 13: 30min. 14: 45min. 15: 60min.	1

		Setting mode (08)	<e-stue< th=""><th>DIO200L/230</th><th>0/230L/2</th><th>280></th><th></th></e-stue<>	DIO200L/230	0/230L/2	280>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
206	User interface	Auto Shut Off Mode timer setting (Auto Shut Off Mode/Sleep Mode)	ALL	Refer to content <0-20>	SYS	Timer to turn OFF the power or to enter the Sleep Mode automati- cally when the equip- ment has not been used (Refer to 08-601) 0: 3min. 1: 5min. 2: 10min. 3: 15min. 4: 20min. 5: 25min. 6: 30min. 7: 40min. 8: 50min. 9: 60min. 10: 70min. 11: 80min. 12: 90min. 13: 100min. 14: 110min. 15: 120min. 15: 120min. 16: 150min. 17: 180min. 18: 210min. 18: 210min. 19: 240min. 20: Not used <default value=""> The models except e-STUDIO200L: EUR: 7 UC: 9 JPN: 0 Others: 9 e-STUDIO200L: EUR: 7 UC: 6 JPN: 0 Others: 6</default>	1
207	User interface	Highlighting display on LCD	ALL	0 <0-1>	SYS	 Black letter on white background White letter on black background 	1
209	User interface	Default setting of filing for- mat when E-mailing	ALL	0 <0-1>	SYS	0: TIFF (Multi) 1: PDF	1
210	Paper feeding	Paper size (A6-R) feeding/ widthwise direction	PRT	148/105 <148- 432/105- 297>	М		10
219	User interface	Default setting of filing for- mat when storing files	SCN	0 <0-3>	SYS	0: TIFF (Multi) 1: PDF 2: Not used 3: TIFF (Single)	1
220	User interface	Language displayed at power-ON	ALL	EUR: 0 UC: 0 JPN: 5 <0-6>	SYS	0: Language 1 1: Language 2 2: Language 3 3: Language 4 4: Language 5 5: Language 6 6: Language 7	1
221	User interface	Language selection in UI data at Web power ON	ALL	EUR: 0 UC: 0 JPN: 5 <0-6>	SYS	0: Language 1 1: Language 2 2: Language 3 3: Language 4 4: Language 5 5: Language 6 6: Language 7	1

2

2 - 87

		Setting mode (08)	<e-stu< th=""><th>DIO200L/23</th><th>0/230L/2</th><th>280></th><th></th></e-stu<>	DIO200L/23	0/230L/2	280>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
224	Paper feeding	Paper size for bypass feed	PPC	UNDEF	SYS	Press the button on the	9
225	Paper feeding	Paper size for upper drawer	ALL	EUR: A4 UC: LT JPN: A4	М	Press the button on the LCD to select the size.	9
226	Paper feeding	Paper size for lower drawer	ALL	EUR: A3 UC: LD JPN: A3	М	Press the button on the LCD to select the size.	9
227	Paper feeding	Paper size for PFP upper drawer	ALL	EUR: A4-R UC: LT-R JPN: A4-R	М	Press the button on the LCD to select the size.	9
228	Paper feeding	Paper size for PFP lower drawer	ALL	EUR: A4 UC: LG JPN: B4	М	Press the button on the LCD to select the size.	9
229	Paper feeding	Paper size (A3) feeding/ widthwise direction	ALL	420/297 <182- 432/140- 297>	М		10
230	Paper feeding	Paper size (A4-R) feeding/ widthwise direction	ALL	297/210 <182- 432/140- 297>	М		10
231	Paper feeding	Paper size (A5-R) feeding/ widthwise direction	ALL	210/148 <182- 432/140- 297>	М		10
232	Paper feeding	Paper size (B4) feeding/ widthwise direction	ALL	364/257 <182- 432/140- 297>	М		10
233	Paper feeding	Paper size (B5-R) feeding/ widthwise direction	ALL	257/182 <182- 432/140- 297>	М		10
234	Paper feeding	Paper size (LT-R) feeding/ widthwise direction	ALL	279/216 <182- 432/140- 297>	М		10
235	Paper feeding	Paper size (LD) feeding/ widthwise direction	ALL	432/279 <182- 432/140- 297>	М		10
236	Paper feeding	Paper size (LG) feeding/ widthwise direction	ALL	356/216 <182- 432/140- 297>	М		10
237	Paper feeding	Paper size (ST-R) feeding/ widthwise direction	ALL	216/140 <182- 432/140- 297>	М		10
238	Paper feeding	Paper size (COMPUTER) feeding/widthwise direction	ALL	356/257 <182- 432/140- 297>	М		10

		Setting mode (08)	<e-stue< th=""><th>DIO200L/230</th><th>)/230L/2</th><th>280></th><th></th></e-stue<>	DIO200L/230)/230L/2	280>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
239	Paper feeding	Paper size (FOLIO) feed- ing/widthwise direction	ALL	330/210 <182- 432/140- 297>	М		10
240	Paper feeding	Paper size (13" LG) feed- ing/widthwise direction	ALL	330/216 <182- 432/140- 297>	М		10
241	Paper feeding	Paper size (8.5"X8.5") feeding/widthwise direction	ALL	216/216 <182- 432/140- 297>	М		10
242	Paper feeding	Paper size (Non-standard) feeding/widthwise direction	ALL	432/279 <148- 432/105- 297>	SYS		10
243	Paper feeding	Memory 1 Paper size (bypass feed- ing/non-standard type) feeding/widthwise direction	ALL	148/100 <148- 432/100- 297>	SYS	Registers the paper size of bypass feed (non-standard type) into [MEMORY 1].	10
244	Paper feeding	Paper size (8K) feeding/ widthwise direction	ALL	390/270 <182- 432/140- 297>	М		10
245	Paper feeding	Paper size (16K-R) feed- ing/widthwise direction	ALL	270/195 <182- 432/140- 297>	М		10
247	Paper feeding	Memory 2 Paper size (bypass feed- ing/non-standard type) feeding/widthwise direction	ALL	148/100 <148- 432/100- 297>	SYS	Registers the paper size of bypass feed (non-standard type) into [MEMORY 2].	10
248	Paper feeding	Memory 3 Paper size (bypass feed- ing/non-standard type) feeding/widthwise direction	ALL	148/100 <148- 432/100- 297>	SYS	Registers the paper size of bypass feed (non-standard type) into [MEMORY 3].	10
249	Paper feeding	Memory 4 Paper size (bypass feed- ing/non-standard type) feeding/widthwise direction	ALL	148/100 <148- 432/100- 297>	SYS	Registers the paper size of bypass feed (non-standard type) into [MEMORY 4].	10
250	Mainte- nance	Service technician tele- phone number	ALL	0 <32 dig- its>	SYS	A telephone number can be entered up to 32 digits. Use the [Monitor/ Pause] button to enter a hyphen (-).	11
251	Mainte- nance	Setting value of PM sheet counter	ALL	Refer to content <8 digits>	Μ	<pre><default> e-STUDIO200L: UC, EUR: 64,000 JPN: 0 e-STUDIO 230/230L: UC, EUR: 74,000 JPN: 0 e-STUDIO 280: UC, EUR: 90,000 JPN: 0</default></pre>	1
252	Mainte- nance	Current value of PM driving counter Display/0 clearing	ALL	0 <8 digits>	М	Counts up when the registration sensor is ON.	1

2 - 89 10/06

		Setting mode (08)	<e-stu< th=""><th>DIO200L/23</th><th>0/230L/2</th><th>280></th><th></th></e-stu<>	DIO200L/23	0/230L/2	280>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
253	Mainte-	Error history display	ALL	-	SYS	Displaying of the latest	2
254	Paper feeding	LT <-> A4/LD <-> A3	PRT	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
255	Paper feeding	PFP/LCF installation	ALL	0 <0-4>	М	 O: Automatic PFP single-drawer type installed PFP dual-drawer type installed LCF installed Not installed 	1
256	Paper feeding	Paper size setting /LCF	ALL	EUR: A4 UC: LT JPN: A4	М	Press the button on the LCD to select the size.	9
257	Counter	Counter copy	ALL	- <1-2>	-	 Electrical counter → Backup counter Backup counter → Electrical counter (P. 2-151 "Fig. 2-4") 	-
258	Mainte- nance	FSMS acceptance	ALL	1 <0-2>	SYS	Sets whether the FSMS connection is accepted or not. 0: Prohibited 1: Accepted (USB nor- mal connection) 2: Accepted (USB forcible connection)	1
259	Network	Storage period trial and private	PRT	14 <0-30>	SYS	0: No limits 1 to 30: 1 to 30 days	1
260	Network	Web data retention period	SCN	10 <3 digits>	SYS	When a certain period of time has passed without operation after accessing TopAccess, the data being regis- tered is automatically reset. This period is set at this code. (Unit: Minute)	1
263	User interface	Administrator's password (Maximum 10 digits)	ALL	123456 <10 digits>	-	The password can be entered in alphabets and figures (A-Z, a-z, 0- 9) within 10 digits.	11
264	Network	File retention period	SCN	30 <0-999>	SYS	0: No limits 1 to 999: 1 to 999 days	1

		Setting mode (08)	<e-stue< th=""><th>01O200L/230</th><th>)/230L/2</th><th>280></th><th></th></e-stue<>	01O200L/230)/230L/2	280>	
				Default			
Code	Classifi-	Itoms	Func-	<accept-< th=""><th>Рлм</th><th>Contonts</th><th>Proce-</th></accept-<>	Рлм	Contonts	Proce-
oouc	cation	hems	tion	able		Contenta	dure
				value>			
265	Network	Maximum data capacity at E-mailing	SCN	30 <2-30>	SYS	2 to 30 M bytes	1
266	Network	Maximum data capacity at Internet FAX	ALL	30 <2-30>	SYS	2 to 30 M bytes	1
267	Elec- tronic Fil- ing	Full guarantee of docu- ments in Electronic Filing when HDD is full	ALL	0 <0-1>	SYS	Sets the file retention level when editing the files in the Electronic Filing (at CutDoc/Save- Doc command execu- tion). 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 exe- cution of command when "1" is set.	1
270	Elec- tronic Fil- ing	Default value for user box retention period	ALL	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
271	General	Warning display of the HDD capacity to be filled	ALL	90 <0-100>	SYS	Sets the percentage of the HDD capacity filled which warning is dis- played 0 to 100: 0 to 100%	1
272	Scanning	Notification setting of E- mail saving time limit	ALL	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
273	Scanning	Default setting of partial size when transmitting E- mail	ALL	0 <0-6>	SYS	Sets the default value for the partial size of E- mail to be transmitted when creating a tem- plate. 0: Not divided 1: 64 2: 128 3: 256 4: 512 5: 1024 6: 2048 (Unit: KB)	1
274	FAX	Default setting of page by page when transmitting Internet FAX	FAX	0 <0-4>	SYS	Sets the default value for the page by page of Internet FAX to be transmitted when creat- ing a template. 0: Not divide 1: 128 2: 512 3: 1024 4: 2048 (Unit: KB)	1

		Setting mode (08)	<e-stu< th=""><th>DIO200L/23</th><th>0/230L/2</th><th>280></th><th></th></e-stu<>	DIO200L/23	0/230L/2	280>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
276	User interface	Default setting for density adjustment	SCN	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 den- sity)	1
281	User interface	Default setting of resolution	SCN	1 <0-4>	SYS	0: 150 dpi 1: 200 dpi 2: 300 dpi 3: 400dpi 4: 600 dpi	1
283	User interface	Default setting of original mode	SCN	0 <0-2>	SYS	0: Text 1: Text/Photo 2: Photo	1
284	User interface	Default setting of scanning mode	SCN	0 <0-2>	SYS	0: Single 1: Book 2: Tablet	1
285	User interface	Default setting of rotation angle of original	SCN	0 <0-3>	SYS	0: 0 degree 1: 90 degrees 2: 180 degrees 3: 270 degrees	1
286	User interface	Default setting of original paper size	SCN	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
288	General	Searching interval of delet- ing expired flies	ALL	12 <1-24>	SYS	Sets the search inter- val of expired files. Deletes if expired file is found. (Unit: Hour)	1
290	Network	Raw printing job (Duplex)	PRT	1 <0-1>	SYS	0: Valid 1: Invalid	1
291	Network	Raw printing job (Paper size)	PRT	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

		Setting mode (08)	<e-stu< th=""><th>DIO200L/230</th><th>0/230L/2</th><th>280></th><th></th></e-stu<>	DIO200L/230	0/230L/2	280>	
Code	Classifi- cation	ltems	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
292	Network	Raw printing job (Paper type)	PRT	0 <0-4>	SYS	0: Plain paper 1: Thick paper 1 2: Thick paper 2 3: Thick paper 3 4: OHP film	1
293	Network	Raw printing job (Paper direction)	PRT	0 <0-1>	SYS	0: Portrait 1: Landscape	1
294	Network	Raw printing job (Staple)	PRT	1 <0-1>	SYS	0: Valid 1: Invalid	1
295	Network	Raw printing job (receiving tray)	PRT	0 <0-5>	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 Sepa- rator (MJ-5004) is installed. 	1
296	Network	Raw printing job (Number of form lines)	PRT	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
297	Network	Raw printing job (PCL font pitch)	PRT	1000 <44- 9999>	SYS	Sets the font pitch from 0.44 to 99.99. (A hun- dredfold of the font pitch is defined as the setting value.)	1
298	Network	Raw printing job (PCL font size)	PRT	1200 <400- 99975>	SYS	Sets the font size from 4 to 999.75. (A hun- dredfold of the font size is defined as the setting value.)	1
299	Network	Raw printing job (PCL font number)	PRT	0 <0-79>	SYS	Sets the PCL font num- ber.	1
300	User interface	Maximum number of copy volume (MAX9)	PPC	0 <0-2>	SYS	0: 999 1: 99 2: 9	1
302	User interface	Original counter display	ALL	EUR: 2 UC: 0 JPN: 0 <0,2>	SYS	Sets whether the origi- nal counter is dis- played or not. 0: Not displayed 2: Displayed	1

		Setting	y mode (08) •	<e-stu< th=""><th>DIO200L/230</th><th>0/230L/2</th><th>280></th><th></th></e-stu<>	DIO200L/230	0/230L/2	280>	
					Default			
Code	Classifi-	ltem	S	Func-	<accept-< th=""><th>RAM</th><th>Contents</th><th>Proce-</th></accept-<>	RAM	Contents	Proce-
	cation		-	tion	able			dure
	a .				value>	01/0		
305-0	Counter	Number of	A3	PPC	0 <9 digita>	SYS	Counts the output	4
305-1	-	in conier func-	A4	-	<o uigits=""></o>		function for each paper	
305-2	-	tion	A5				size according to the	
305-3	-		A6				setting for the count	
305-4	-		B4				setting of large-sized	
305-5	-		B5	-			paper (08-352) and the	
305-6	-		FOLIO				definition setting of large sized paper (08-	
305-7	-		LD				353).	
305-8	-		LG					
305-9	-		LT					
305-10	_		ST	-				
305-11	_		COMP	-				
305-12	-		13"LG					
305-13	-		8.5" x 8.5"					
305-14	_		16K					
305-15	_		8K					
305-16			Others					
306-0	Counter	Number of	A3	PRT	0	SYS	Counts the output	4
306-1	-	output pages	A4		<8 aigits>		pages in the printer	
306-2	-	tion	A5				size according to the	
306-3	-		A6	-			setting for the count	
306-4	-		B4				setting of large-sized	
306-5	-		B5				paper (08-352) and the	
306-6	-		FOLIO				large-sized paper (08-	
306-7	-		LD				353).	
306-8	-		LG					
306-9	-		LT					
306-10	_		ST					
306-11	_		COMP					
306-12			13"LG					
306-13			8.5" x 8.5"					
306-14			16K					
306-15			8K					
306-16			Others					

Setting mode (08) <e-studio200l 230="" 230l="" 280=""></e-studio200l>										
					Default					
Code	Classifi-	Item	IS	Func-	<accept-< th=""><th>RAM</th><th>Contents</th><th>Proce-</th></accept-<>	RAM	Contents	Proce-		
	cation			tion	able			aure		
307.0	Countor	Number of	٨3	DDT	value>	<u>eve</u>	Counts the output	4		
307-0	Counter	output pages	A3		<8 digits>	313	pages at the list print	4		
307-1	-	at list print	A4 A5	-	e signe		mode for each paper			
307-2		mode	A6				size according to the			
307-4			R4				setting for the count			
307-5	-		B5				paper (08-352) and the			
307-6	-		FOLIO	-			definition setting of			
307-7			LD				large-sized paper (08-			
307-8			LG				353).			
307-9			LT	-						
307-10			ST	-						
307-11			COMP	-						
307-12			13"LG	-						
307-13			8.5" x 8.5"							
307-14			16K							
307-15			8K							
307-16			Others							
308-0	Counter	Number of	A3	FAX	0	SYS	Counts the output	4		
308-1		output pages	A4		<8 digits>		pages in the FAX func-			
308-2		tion	A5				according to the setting			
308-3			A6				for the count setting of			
308-4			B4				large-sized paper (08-			
308-5			B5				352) and the definition			
308-6			FOLIO	-			naper (08-353)			
308-7	-		LD	-						
308-8	-		LG	-						
308-9										
308-10			SI							
308-11										
308-12	-		13 LG	-						
308-13			0.0 X 0.5	-						
300-14										
308 16	-		Others							
300-10			others		1	1				

		Setting	g mode (08) •	<e-stu< th=""><th>DIO200L/230</th><th>0/230L/2</th><th>280></th><th></th></e-stu<>	DIO200L/230	0/230L/2	280>	
					Default			
Code	Classifi-	lterr	15	Func-	<accept-< th=""><th>RAM</th><th>Contents</th><th>Proce-</th></accept-<>	RAM	Contents	Proce-
0000	cation			tion	able	1 V MI	Contonito	dure
	-				value>			
312-0	Counter	Number of	A3	PPC	0	SYS	Counts the scanning	4
312-1		scanning	A4		<8 digits>		pages in the copier	
312-2		copier func-	A5				size according to the	
312-3		tion	A6				setting for the count	
312-4			B4				setting of large-sized	
312-5			B5				paper (08-352) and the	
312-6			FOLIO				definition setting of	
312-7			LD				353)	
312-8			LG					
312-9			LT					
312-10			ST					
312-11			COMP					
312-12			13"LG					
312-13			8.5" x 8.5"					
312-14			16K					
312-15			8K					
312-16			Others					
313-0	Counter	Number of	A3	SCN	0	SYS	Counts the scanning	4
313-1		scanning	A4		<8 digits>		pages in the scanning	
313-2		scanning	A5				size according to the	
313-3		function	A6				setting for the count	
313-4			B4				setting of large-sized	
313-5			B5				paper (08-352) and the	
313-6			FOLIO				large-sized paper (08-	
313-7			LD				353).	
313-8			LG					
313-9			LT					
313-10			ST					
313-11			COMP					
313-12			13"LG					
313-13			8.5" x 8.5"					
313-14			16K					
313-15			8K					
313-16			Others					

Setting mode (08) <e-studio200l 230="" 230l="" 280=""></e-studio200l>									
					Default				
Codo	Classifi-	Itom	e	Func-	<accept-< th=""><th>Рлм</th><th>Contonte</th><th>Proce-</th></accept-<>	Рлм	Contonte	Proce-	
Code	cation	iten	15	tion	able		Contents	dure	
					value>				
314-0	Counter	Number of	A3	FAX	0	SYS	Counts the scanning	4	
314-1		scanning	A4		<8 digits>		pages in the FAX func-		
314-2			A5				according to the setting		
314-3		Iditetion	A6				for the count setting of		
314-4			B4				large-sized paper (08-		
314-5			B5				352) and the definition		
314-6			FOLIO				setting of large-sized		
314-7			LD				paper (08-353).		
314-8			LG						
314-9			LT						
314-10			ST						
314-11			COMP						
314-12			13"LG						
314-13			8.5" x 8.5"						
314-14			16K						
314-15			8K						
314-16			Others						
315-0	Counter	Number of	A3	FAX	0	SYS	Counts the transmitted	4	
315-1		transmitted	A4		<8 digits>		pages in the FAX func-		
315-2		function	A5				tion for each paper size		
315-3		Iditetion	A6				for the count setting of		
315-4			B4				large-sized paper (08-		
315-5			B5				352) and the definition		
315-6			FOLIO				setting of large-sized		
315-7			LD				paper (08-353).		
315-8			LG						
315-9			LT						
315-10			ST						
315-11			COMP						
315-12			13"LG						
315-13			8.5" x 8.5"						
315-14	1		16K]					
315-15			8K	1					
315-16			Others	1					

		Setting	y mode (08) •	<e-stu< th=""><th>DIO200L/230</th><th>)/230L/2</th><th>280></th><th></th></e-stu<>	DIO200L/230)/230L/2	280>	
					Default			
Codo	Classifi-	Itom	e	Func-	<accept-< th=""><th>Рлм</th><th>Contonts</th><th>Proce-</th></accept-<>	Рлм	Contonts	Proce-
Coue	cation	item	3	tion	able		Contents	dure
					value>			
316-0	Counter	Number of	A3	FAX	0	SYS	Counts the received	4
316-1		received	A4		<8 digits>		pages in the FAX func-	
316-2		pages in FAX	A5				tion for each paper size	
316-3		TUTICUOT	A6				for the count setting of	
316-4			B4				large-sized paper (08-	
316-5			B5	-			352) and the definition	
316-6			FOLIO	-			setting of large-sized	
316-7			LD				paper (08-353).	
316-8			LG					
316-9			LT					
316-10			ST	-				
316-11			COMP	-				
316-12			13"LG	-				
316-13			8.5" x 8.5"	-				
316-14			16K	-				
316-15			8K	-				
316-16			Others	-				
320-0	Counter	Display of		PPC	0	SYS	Counts the number of	14
020 0	ocumen	number of	Laigo		<8 digits>	0.0	output pages in the	••
		output pages					Copier Function	
		in copier func-					according to its size	
		tion					(large/small).	
000.4	Osustan	-	Oreall	000	0	0)/0	Large:	4.4
320-1	Counter		Small	PPC	U <8 digita>	SYS	pages of large-sized	14
							paper defined at 08-	
							353	
							Small:	
							Number of output	
320-2	Counter		Total	PPC	0	SYS	set as large-sized	14
					<8 digits>		paper	
							Total:	
							Total number out-	
							put pages of all	
004.0	0	Discharge (1	DDT		0)/0	paper sizes.	
321-0	Counter	Display of	Large	PRI	U <8 digite>	SYS	Counts the number of	14
		output pages					Printer Function	
		in printer func-					according to its size	
		tion					(large/small).	
							Large:	
321-1	Counter		Small	PRT	0	SYS	Number of output	14
					<8 digits>		pages of large-sized	
							353	
							Small:	
							Number of output	
321-2	Counter	1	Total	PRT	0	SYS	pages other than	14
					<8 digits>		set as large-sized	
							Total	
							Total number out-	
							put pages of all	
							paper sizes.	

Setting mode (08) <e-studio200l 230="" 230l="" 280=""></e-studio200l>										
Code	Classifi- cation	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure		
322-0	Counter	Display of number of output pages at list print mode	Large	PRT	0 <8 digits>	SYS	Counts the number of output pages at the List Print Mode Function according to its size (large/small). Large:	14		
322-1	Counter		Small	PRT	0 <8 digits>	SYS	Number of output pages of large-sized paper defined at 08- 353 Small: Number of output	14		
322-2	Counter		Total	PRT	0 <8 digits>	SYS	pages other than set as large-sized paper Total: Total number out- put pages of all paper sizes.	14		
323-0	Counter	Display of number of output pages in FAX func- tion	Large	PRT	0 <8 digits>	SYS	Counts the number of output pages in the FAX Function according to its size (large/small). Large: Number of output	14		
323-1	Counter		Small	PRT	0 <8 digits>	SYS	pages of large-sized paper defined at 08- 353 Small: Number of output pages other than	14		
323-2	Counter		Total	PRT	0 <8 digits>	SYS	set as large-sized paper Total: Total number out- put pages of all paper sizes.	14		
327-0	Counter	Display of number of scanning pages in copier func- tion	Large	PPC	0 <8 digits>	SYS	Counts the number of scanning pages in the Copier Function according to its size (large/small). Large:	14		
327-1	Counter		Small	PPC	0 <8 digits>	SYS	Number of output pages of large-sized paper defined at 08- 353 Small: Number of output	14		
327-2	Counter		Total	PPC	0 <8 digits>	SYS	pages other than set as large-sized paper Total: Total number out- put pages of all paper sizes.	14		

Setting mode (08) <e-studio200l 230="" 230l="" 280=""></e-studio200l>											
Code	Classifi- cation	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure			
328-0	Counter	Display of number of scanning pages in FAX function	Large	FAX	0 <8 digits>	SYS	Counts the number of scanning pages in the FAX Function according to its size (large/small). Large: Number of output	14			
328-1	Counter		Small	FAX	0 <8 digits>	SYS	pages of large-sized paper defined at 08- 353 Small: Number of output pages other than	14			
328-2	Counter		Total	FAX	0 <8 digits>	SYS	set as large-sized paper Total: Total number out- put pages of all paper sizes.	14			
329-0	Counter	Display of number of scanning pages in scanning function	Large	SCN	0 <8 digits>	SYS	Counts the number of scanning pages in the Scanning Function according to its size (large/small). Large:	14			
329-1	Counter		Small	SCN	0 <8 digits>	SYS	Number of output pages of large-sized paper defined at 08- 353 Small: Number of output	14			
329-2	Counter		Total	SCN	0 <8 digits>	SYS	pages other than set as large-sized paper Total: Total number out- put pages of all paper sizes.	14			
330-0	Counter	Display of number of transmitted pages in FAX function	Large	FAX	0 <8 digits>	SYS	Counts the number of transmitted pages in the FAX Function according to its size (large/small). Large: Number of output	14			
330-1	Counter		Small	FAX	0 <8 digits>	SYS	pages of large-sized paper defined at 08- 353 Small: Number of output pages other than	14			
330-2	Counter		Total	FAX	0 <8 digits>	SYS	Total: Total number out- put pages of all paper sizes.	14			

Setting mode (08) <e-studio200l 230="" 230l="" 280=""></e-studio200l>											
Code	Classifi-	ltem	S	Func-	Default <accept-< th=""><th>RAM</th><th>Contents</th><th>Proce-</th></accept-<>	RAM	Contents	Proce-			
	cation			tion	able value>			aure			
331	User interface	Default setting of screen		ALL	0 <0-3>	SYS	Sets the screen to be displayed after the auto-clear time has passed or it has recov- ered from the energy saving mode or sleep mode. 0: Copier 1: Fax 2: Scan 3: Box	1			
332-0	Counter	Display of number of received pages in FAX function	Large	FAX	0 <8 digits>	SYS	Counts the number of received pages in the FAX Function according to its size (large/small). Large: Number of output	14			
332-1	Counter		Small	FAX	0 <8 digits>	SYS	pages of large-sized paper defined at 08- 353 Small: Number of output pages other than	14			
332-2	Counter		Total	FAX	0 <8 digits>	SYS	set as large-sized paper Total: Total number out- put pages of all paper sizes.	14			
335-0	Counter	Display of total number	Large	ALL	0 <8 digits>	SYS	Displays the total num- ber of pages in the	14			
335-1	Counter	of pages	Small	ALL	0 <8 diaits>	SYS	copier/printer/scanning/ FAX functions.	14			
335-2	Counter	-	Total	ALL	0 <8 digits>	SYS	-	14			
337	Paper feeding	Paper size (#10 feeding/widthwi	D-R) ise direction	ALL	241/105 <148- 432/105- 297>	М		10			
338	Paper feeding	Paper size (DL feeding/widthwi	-R) ise direction	ALL	220/110 <148- 432/105- 297>	М		10			
339	Paper feeding	Paper size (En Monarch-R) feeding/widthwi	velope: ise direction	ALL	191/98 <148- 432/98- 297>	М		10			
340	Paper feeding	Paper size (En CHO-3-R) feeding/widthwi	velope: ise direction	ALL	235/120 <148- 432/105- 297>	М		10			
341	Paper feeding	Paper size (En YOU-4-R) feeding/widthwi	velope: ise direction	ALL	235/105 <148- 432/105- 297>	М		10			
345	Counter	Count setting o (PM)	f envelope	ALL	1 <0-1>	М	0: Counted as 1 1: Counted as 2	1			
346	Counter	Count setting o sized paper (PI	f large- ⁄I)	ALL	1 <0-1>	М	0: Counted as 1 1: Counted as 2	1			

2 - 101 05/05

Setting mode (08) <e-studio200l 230="" 230l="" 280=""></e-studio200l>											
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure				
347	Counter	Definition setting of large- sized paper (PM)	ALL	1 <0-1>	М	0: A3/LD 1: A3/LD/B4/LG/ FOLIO/COMP	1				
348	Counter	Count setting of thick paper (PM)	ALL	1 <0-1>	М	0: Counted as 1 1: Counted as 2	1				
349	Counter	Count setting of OHP film (PM)	ALL	1 <0-1>	М	0: Counted as 1 1: Counted as 2	1				
352	Counter	Count setting of large- sized paper (Fee charging system counter)	ALL	JPN: 0 OTHER: 1 <0-2>	М	 0: Counted as 1 1: Counted as 2 2: Counted as 1 (Mechanical counter is double counter) 	1				
353	Counter	Definition setting of large- sized paper (Fee charging system counter)	ALL	0 <0-1>	М	0: A3/LD 1: A3/LD/B4/LG/ FOLIO/COMP/8K	1				
356	Counter	Counter for upper drawer feeding	ALL	0 <8 digits>	М	Counts the number of sheets fed from upper drawer	2				
357	Counter	Counter for lower drawer feeding	ALL	0 <8 digits>	М	Counts the number of sheets fed from lower drawer	2				
358	Counter	Counter for bypass feeding	ALL	0 <8 digits>	М	Counts the number of sheets fed from bypass feed	2				
359	Counter	Counter for LCF feeding	ALL	0 <8 digits>	М	Counts the number of sheets fed from LCF	2				
360	Counter	Counter for PFP upper drawer feeding	ALL	0 <8 digits>	М	Counts the number of sheets fed from PFP upper drawer	2				
370	Counter	Counter for PFP lower drawer feeding	ALL	0 <8 digits>	М	Counts the number of sheets fed from PFP lower drawer	2				
372	Counter	Counter for ADU	ALL	0 <8 digits>	М	Counts the number of output pages of duplex printing.	2				
374	Counter	Counter for RADF	ALL	0 <8 digits>	SYS	Counts the number of originals fed from RADF	2				
381	Counter	Setting for counter installed externally	ALL	1 <0-7>	Μ	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: Printer/FAX 7: Copier/Printer/FAX	1				
390	Counter	Number of errors in HDD (Copier)	PPC	0 <8 digits>	SYS	The number of error is reset at HDD format- ting.	2				
391	Counter	Number of errors in HDD (FAX)	FAX	0 <8 digits>	SYS	The number of error is reset at HDD format- ting.	2				
392	Counter	Number of errors in HDD (Scanning)	SCN	0 <8 digits>	SYS	The number of error is reset at HDD format- ting.	2				

Setting mode (08) <e-studio200l 230="" 230l="" 280=""></e-studio200l>											
Code	Classifi- cation	ltem	IS	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure			
393	Counter	Number of erro (Printer)	rs in HDD	PRT	0 <8 digits>	SYS	The number of error is reset at HDD format- ting.	2			
398	Laser	Number of poly rotational spee	gonal motor d switching	ALL	0 <8 digits>	М	Counts the number of time the polygonal motor has switched its rotational speed between normal rota- tion and standby rota- tion.	2			
399	Laser	Accumulated ti onal motor at n tion	ALL	0 <8 digits>	М	Accumulates the time the polygonal motor has rotated at normal rota- tion.	2				
400	Fuser	Fuser unit error status counter		ALL	0 <0-19>	M	0: No error 1: C410 (Once) 2: C410 (consecutively occurred) 3: - 4: C430 5: C440 6: C450 7: C440 8: C450 9: C440 10: C470 11: C470 12: C480 13: C490 14: C470 15: C480 16: C490 17: C470 18: C480 19: C490	1			
404-0	Fuser	Temperature drop setting in	The first drop	ALL	1 <0-10>	М	This code is valid only when "20" is set to 08- 886. Setting value x -5°C: from 0°C to -50°C	4			
404-1		ready status (Center ther-	The sec- ond drop	ALL	1 <0-10>	М		4			
404-2		mistor)	The third drop	ALL	1 <0-10>	М		4			
404-3			The fourth drop	ALL	1 <0-10>	М		4			
405-0	Fuser	Temperature drop setting in	The first drop	ALL	4 <0-10>	М		4			
405-1		ready status (Side ther-	The sec- ond drop	ALL	4 <0-10>	М		4			
405-2		mistor)	The third drop	ALL	4 <0-10>	М		4			
405-3			The fourth drop	ALL	4 <0-10>	М		4			
407	Fuser	Fuser roller ten ready status (Side thermisto	iperature in r)	ALL	8 <0-12>	М	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	1			

2 - 103 07/04

Setting mode (08) <e-studio200l 230="" 230l="" 280=""></e-studio200l>											
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure				
409	Fuser	Fuser roller temperature at energy saver mode (Center thermistor)	ALL	0 <0-13>	Μ	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				
410	Fuser	Fuser roller temperature during printing (Center thermistor/Plain paper)	ALL	8 <0-14>	М	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	1				
411	Fuser	Fuser roller temperature on standby (Center thermistor)	ALL	8 <0-12>	Μ	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	1				
412	Fuser	Fuser roller temperature during printing (Center thermistor/Thick paper 3)	ALL	9 <0-14>	М	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	1				
413	Fuser	Fuser roller temperature during printing (Center thermistor/Thick paper 1)	ALL	8 <0-14>	Μ	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	1				

Setting mode (08) <e-studio200l 230="" 230l="" 280=""></e-studio200l>										
Code	Classifi- cation	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure		
414	Devel- oper	tion switching		ALL	0 <0-7>	M	0: Unchanged (Default) 1: Approx. 0.3 wt% higher 2: Approx. 0.6 wt% higher 3: Approx. 0.9 wt% higher 4: Approx. 0.2 wt% lower 5: Approx. 0.4 wt% lower 6: Approx. 0.6 wt% lower 7: Approx. 0.9 wt% lower	1		
417	Fuser	Pre-running time for first printing (Thick paper 3)		ALL	10 <0-15>	Μ	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		
424-0	Fuser	Temperature drop switching	The first drop	ALL	15 <2-60>	М	This code is valid only when "20" is set to 08- 886. Setting value x 1 min.: from 2 to 60 min. later	4		
424-1		time setting in ready status	The sec- ond drop	ALL	15 <2-60>	М		4		
424-2		mistor)	The third drop	ALL	15 <2-60>	М		4		
424-3			The fourth drop	ALL	15 <2-60>	М	_	4		
425-0	Fuser	Temperature drop switching	The first drop	ALL	15 <2-60>	M		4		
425-1		time setting in ready status	The sec- ond drop	ALL	15 <2-60>	M		4		
425-2		mistor)	The third drop	ALL	15 <2-60>	M		4		
425-3			The fourth drop	ALL	15 <2-60>	М		4		
433-0	Fuser	Temperature control lower limit (Plain paper/	Center thermistor	ALL	7 <0-12>	М	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C	4		
433-1		at ordinary temperature)	Side ther- mistor	ALL	5 <0-12>	М	8: 170°C 9: 175°C 10: 180°C 11: 185°C 12: 120°C	4		

Setting mode (08) <e-studio200l 230="" 230l="" 280=""></e-studio200l>										
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure			
437	Fuser	Fuser roller temperature during printing (Center thermistor /Thick paper 2)	ALL	8 <0-14>	Μ	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	1			
438	Fuser	Fuser roller temperature during printing (Center thermistor/OHP film)	ALL	8 <0-14>	Μ	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	1			
439	Fuser	Pre-running time for first printing (Thick paper 2)	ALL	10 <0-15>	М	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			
440	Fuser	Pre-running time for first printing (Plain paper)	ALL	0 <0-15>	М	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			
441	Fuser	Pre-running time for first printing (Thick paper 1)	ALL	0 <0-15>	М	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			

Setting mode (08) <e-studio200l 230="" 230l="" 280=""></e-studio200l>										
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure			
448	Fuser	Fuser roller temperature in Energy Saving Mode (Side thermistor)	ALL	0 <0-13>	Μ	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			
450	Fuser	Fuser roller temperature during printing (Side thermistor/Plain paper)	ALL	8 <0-14>	Μ	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	1			
451	Fuser	Fuser roller temperature during printing (Side thermistor/Thick paper 1)	ALL	8 <0-14>	М	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	1			
452	Fuser	Fuser roller temperature during printing (Side thermistor/Thick paper 2)	ALL	8 <0-14>	М	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	1			
453	Fuser	Fuser roller temperature during printing (Side thermistor/OHP film)	ALL	8 <0-14>	М	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	1			
455	Image process- ing	Toner supply amount cor- rection/Toner motor control	ALL	0 <0-5>	М	Corrects the supply amount of the fresh toner (driving period of the toner motor) into the developer unit. 0: x1.0 1: x0.75 2: x0.5 3: x0.3 4: x2.0 5: x1.5	1			

Setting mode (08) <e-studio200l 230="" 230l="" 280=""></e-studio200l>											
Code	Classifi- cation	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure			
462	RADF	operation to copy mixed- sized original on RADF		ALL	0 <0-1>	SYS	 Sets whether or not detecting the original length by transporting without scanning in reverse when finding A4-R/FOLIO paper. O: Invalid- Judges as A4-R without trans- porting in reverse with no scanning. 1: Valid- Judges whether it is A4-R or FOLIO size by transporting in reverse with no scanning. * The original is trans- ported in reverse with no scanning when detecting LT- LG size-paper in LT, regardless of this setting. 	1			
463-0	Paper feeding	Feeding retry number set-	Plain paper	ALL	5 <0-5>	М	Sets the number of times of the feeding	4			
463-1		ting (upper drawer)	Others	ALL	5 <0-5>	М	retry from the upper drawer.	4			
464-0	Paper feeding	Feeding retry number set-	Plain paper	ALL	5 <0-5>	М	Sets the number of times of the feeding	4			
464-1		ting (lower drawer)	Others	ALL	5 <0-5>	М	retry from the lower drawer.	4			
465-0	Paper feeding	Feeding retry number set-	Plain paper	ALL	5 <0-5>	М	Sets the number of times of the feeding	4			
465-1		ting (PFP upper drawer)	Others	ALL	5 <0-5>	М	retry from the PFP upper drawer.	4			
466-0	Paper feeding	Feeding retry number set-	Plain paper	ALL	5 <0-5>	М	Sets the number of times of the feeding	4			
466-1		ting (PFP lower drawer)	Others	ALL	5 <0-5>	М	retry from the PFP lower drawer.	4			
467-0	Paper feeding	Feeding retry number set-	Plain paper	ALL	5 <0-5>	М	Sets the number of times of the feeding	4			
467-1		ting (bypass feed)	Others	ALL	5 <0-5>	М	retry from the bypass tray.	4			
468-0	Paper feeding	Feeding retry number set-	Plain paper	ALL	5 <0-5>	М	Sets the number of times of the feeding	4			
468-1		ting (LCF)	Others	ALL	5 <0-5>	М	retry from the LCF.	4			
471	Paper feeding	Paper size (Pos feeding/widthwi	stcard) ise direction	ALL	148/100 <148- 432/100- 297>	M	 Postcard is sup- ported only for JPN model. 	10			
Setting mode (08) <e-studio200l 230="" 230l="" 280=""></e-studio200l>											
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Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure				
477	General	Machine identification information	ALL	Refer to content <0-1>	М	<default value=""> Lower drawer refer- ence: 0 Upper drawer refer- ence: 1</default>	2				
478	Laser	Judged number of polygo- nal motor rotation error (Normal rotation)	ALL	0 <0-1>	Μ	Displays the error [CA10] when the set number of rotation error has been detected. 0: 2 times 1: 12 times	1				
479	Laser	Judged number of polygo- nal motor rotation error (At acceleration/decelera- tion)	ALL	0 <0-1>	М	 Waiting time for polygonal motor rotation overshoot- ing 0.6 sec. Waiting time for polygonal motor rotation overshoot- ing 2.2 sec. 	1				
480	Paper feeding	Default setting of paper source	PPC	0 <0-5>	SYS	0: A4/LT 1: LCF 2: Upper drawer 3: Lower drawer 4: PFP upper drawer 5: PFP lower drawer	1				
481	Paper feeding	Automatic change of paper source	PPC	1 <0-2>	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. OFF ON (Changes to the drawer with the same paper direc- tion and size: ex. A4 to A4) ON (Changes to the drawer with the same paper size. Paper with the dif- ferent direction is acceptable as long as the size is the same: ex., A4 to A4- R, LT-R to LT. "1" is applied when the staple/hole-punch is specified.) 	1				
482	Paper feeding	Feeding retry setting	ALL	0 <0-1>	М	0: ON 1: OFF	1				

		Setting mode (08)	<e-stu< th=""><th>DIO200L/23</th><th>0/230L/2</th><th>280></th><th></th></e-stu<>	DIO200L/23	0/230L/2	280>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
483	Laser	Pre-running rotation of polygonal motor	ALL	0 <0-2>	SYS	 Sets whether or not switching the polygonal motor from the standby rotation to the normal rotation when the origi- nal is set on the RADF or the platen cover is opened. 0: Valid (when using RADF and the origi- nal is set manually) 1: Invalid 2: Valid (when using RADF only) 	1
484	Laser	Polygonal motor rotational status switching at the Auto Clear Mode	ALL	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
485	Laser	Rotational status of polygo- nal motor on standby	ALL	JPN: 1 Others: 0 <0-1>	SYS	 Sets the rotational status of polygonal motor on standby. 0: Rotated (The rotational speed is set at 08-490.) 1: Stopped 	1
486	Laser	Timing of auto-clearing of polygonal motor pre-run- ning rotation	ALL	0 <0-2>	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: 30 sec. 2: 45 sec. * This setting is effec- tive when "0" or "2" is set at 08-483.	1
488	Laser	Setting of polygonal motor type	ALL	0 <0-3>	М	Set the type of polygo- nal motor. 0: 2-clock type 1: 3-clock type 2: 4-clock type 3: 4-clock type	1
489	Laser	Polygonal motor rotation number on standby	ALL	5 <0-5>	М	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
490	Laser	Polygonal motor rotation in the energy saving mode	ALL	0 <0-1>	М	0: Stopped 1: 10,000 rpm	1

		Setting mode (08)	<e-stue< th=""><th>DIO200L/230</th><th>)/230L/2</th><th>280></th><th></th></e-stue<>	DIO200L/230)/230L/2	280>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
491	Transfer	Transfer charger bias cor- rection (H) at duplexing	ALL	149 <0-255>	Μ	Corrects the transfer charger bias output value of the leading edge area of paper at duplexing.	1
492	Transfer	Transfer charger bias cor- rection (C) at duplexing	ALL	139 <0-255>	М	Corrects the transfer charger bias output value of the center area of paper at duplexing.	1
493	Transfer	Transfer charger bias cor- rection (L) at duplexing	ALL	128 <0-255>	Μ	Corrects the transfer charger bias output value of the trailing edge area of paper at duplexing.	1
502	Image	Error diffusion and dither setting at photo mode	PPC	1 <0-1>	SYS	Sets the image repro- duction method at photo mode. 0: Error diffusion 1: Dither	1
503	User interface	Default setting of density adjustment	PPC	0 <0-1>	SYS	0: Automatic 1: Manual (Center)	1
508	Image	Custom Mode setting	PPC	0 <0-3>	SYS	 0: Not used 1: Custom Mode 1 when Text/Photo is set as a base 2: Custom Mode 2 when Text is set as a base 3: Custom Mode 3 when Photo is set as a base 	1
509	Image	Error diffusion and dither setting at a photo mode (Custom Mode)	PPC	1 <0-1>	SYS	Switches the image processing method when Custom Mode 3 is set. 0: Error diffusion 1: Dither	1
515	Fuser	Temperature setting of warming-up (Center thermistor)	ALL	9 <0-14>	Μ	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	1
516	Fuser	Temperature setting of warming-up (Side thermistor)	ALL	9 <0-14>	Μ	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	1

		Setting	mode (08) •	<e-stu< th=""><th>DIO200L/23</th><th>0/230L/2</th><th>280></th><th></th></e-stu<>	DIO200L/23	0/230L/2	280>	
Code	Classifi- cation	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
518	Fuser	Fuser roller ten during printing (Side thermisto paper 3)	nperature r/Thick	ALL	9 <0-14>	М	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	1
520	Fuser	Fuser roller terr during printing (Center thermis lope)	nperature stor/Enve-	ALL	9 <0-14>	М	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	1
521	Fuser	Fuser roller terr during printing (Side thermisto	nperature r/Envelope)	ALL	9 <0-14>	М	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	1
523	Fuser	Pre-running tim printing (Envelope)	e for first	ALL	10 <0-15>	М	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
525-0	Fuser	Temperature drop switching	The first drop	ALL	20 <0-200>	М	This code is valid only when "20" is set to 08-	4
525-1		time setting during printing	The sec- ond drop	ALL	38 <0-200>	М	535. Setting value x 5 sec.:	4
525-2		(Center ther- mistor)	The third drop	ALL	75 <0-200>	М	from 0 to 1,000 sec. later	4
525-3			The fourth drop	ALL	75 <0-200>	М		4

		Setting	y mode (08) ·	<e-stu< th=""><th>DIO200L/23</th><th>0/230L/2</th><th>280></th><th></th></e-stu<>	DIO200L/23	0/230L/2	280>	
Code	Classifi- cation	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
526	Fuser	Pre-running tim printing (OHP f	ie for first ilm)	ALL	0 <0-15>	М	0: Invalid 1: 0 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
527-0	Fuser	Temperature drop switching	The first drop	ALL	20 <0-200>	М	This code is valid only when "20" is set to 08-	4
527-1		during printing	The sec- ond drop	ALL	30 <0-200>	М	Setting value x 5 sec.:	4
527-2		mistor)	The third drop	ALL	48 <0-200>	М	later	4
527-3			The fourth drop	ALL	75 <0-200>	М		4
535	Fuser	Temperature dr setting during p (Temperature/T	rop control printing ime)	ALL	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 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
536-0	Fuser	drop setting during printing	The first drop The sec-	ALL	1 <0-10> 2	M	when "20" is set to 08-	4
536-2	-	(Center ther- mistor)	ond drop		<0-10>	M	Setting value x -5°C: from 0°C to -50°C	А
526.2	-		drop		<0-10>			-
507.0			drop	ALL	ہ <0-10>		-	4
537-0	⊢user	drop setting	drop	ALL	1 <0-10>	M		4
537-1		(Side ther-	The sec- ond drop	ALL	2 <0-10>	M		4
537-2		1115101)	The third drop	ALL	3 <0-10>	М		4
537-3			The fourth drop	ALL	5 <0-10>	М		4

		Setting mode (08)	<e-stu< th=""><th>DIO200L/230</th><th>)/230L/2</th><th>280></th><th></th></e-stu<>	DIO200L/230)/230L/2	280>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
550	Image	Default setting of original mode	PPC	0 <0-3>	SYS	0: Text/Photo 1: Photo 2: Text 3: Custom Mode	1
601	User interface	Setting for the Energy Sav- ing Mode	ALL	0 <0-1>	SYS	0: Auto Shut Off Mode 1: Sleep Mode	1
602	User interface	Screen setting for Auto power Save Mode and Auto Shut OFF Mode	ALL	EUR: 0 UC: 1 JPN: 1 <0-1>	SYS	0: OFF 1: ON	1
603	User interface	Setting for automatic duplexing mode	PPC	0 <0-3>	SYS	 Invalid Single-sided to duplex copying Double-sided to duplex copying User selection 	1
604	User interface	Default setting for APS/ AMS	PPC	0 <0-2>	SYS	 O: APS (Automatic Paper Selection) AMS (Automatic Magnification Selec- tion) 2: Not selected 	1
605	User interface	Centering printing of pri- mary/secondary direction at AMS	PPC	1 <0-1>	SYS	0: Invalid 1: Valid	1
607	User interface	Default setting of RADF mode	PPC	0 <0-1>	SYS	 Continuous feeding (by pressing the [START] button) Single feeding (by setting original on the tray) 	1
610	User interface	Key touch sound of control panel	ALL	1 <0-1>	SYS	0: OFF 1: ON	1
611	User interface	Book type original priority	PPC	0 <0-1>	SYS	0: Left page to right page1: Right page to left page	1
612	General	Summer time mode	ALL	0 <0-1>	SYS	0: Not summer time 1: Summer time	1
613	User interface	Paper size selection for [OTHER] button	PPC	EUR: FOLIO UC: COMP JPN: A5-R	SYS	Press the button on the LCD to select the size.	9
614	Network	Local I/F time-out period	PRT	6 <1-50>	SYS	Sets the period of time when the job is judged as completed in local I/ F printing (USB or par- allel). 1: 1.0 sec. 2: 1.5 sec. -50: 25.5 sec. (in increments of 0.5 sec.)	1

		Setting mode (08)	<e-stu< th=""><th>DIO200L/230</th><th>0/230L/2</th><th>280></th><th></th></e-stu<>	DIO200L/230	0/230L/2	280>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
615	General	Size information of main memory and page memory	ALL	-	SYS	Displays the sizes of the main memory and page memory. Enables to check if each mem- ory is properly recog- nized.	2
617	User interface	Print setting without department code	ALL	0 <0-1>	SYS	0: Printed 1: Not printed	1
618	User interface	Default setting when mixed size originals are set on RADF	PPC	0 <0-1>	SYS	0: Scanned as all in same size1: Scanned as each original size	1
619	Paper feeding	Time lag before Auto Job Start of bypass feeding	ALL	4 <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: No delay 1-10: Setting value x 0.5 sec.	1
620	User interface	Department management setting (Copier)	PPC	1 <0-1>	SYS	0: Invalid 1: Valid	1
621	User interface	Department management setting (FAX)	FAX	1 <0-1>	SYS	0: Invalid 1: Valid	1
622	User interface	Department management setting (Printer)	PRT	1 <0-1>	SYS	0: Invalid 1: Valid	1
623	User interface	Department management setting (Scanner)	SCN	1 <0-1>	SYS	0: Invalid 1: Valid	1
624	User interface	Department management setting (List print)	PRT	1 <0-1>	SYS	0: Invalid 1: Valid	1
625	User interface	Blank copying prevention mode during RADF jam- ming	PPC	0 <0-1>	SYS	 0: OFF 1: ON (Start printing when the scanning of each page is fin- ished) 	1
627	User interface	Rotation printing at the non-sorting	ALL	0 <0-1>	SYS	0: Not rotating 1: Rotating	1
628	User interface	Direction priority of original image	PPC	0 <0-1>	SYS	0: Automatic 1: Portrait	1
629	User interface	Department management setting	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
633	Data overwrite kit	Releasing F200 service call	ALL	0 <0-2>	SYS	 0: Not used 1: Board installed (GP-1050) 2: Service call 	1
634	User interface	Inner receiving tray priority at Non-sort Mode	ALL	0 <0-1>	SYS	0: Normal 1: Inner receiving tray	1
636	User interface	Width setting for image shift copying (linkage of front side and back side)	PPC	0 <0-1>	SYS	0: ON 1: OFF	1

2 - 115 09/01

		Setting mode (08)	<e-stue< th=""><th>DIO200L/230</th><th>)/230L/2</th><th>280></th><th></th></e-stue<>	DIO200L/230)/230L/2	280>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
638	General	Time differences	ALL	EUR: 24 UC: 40 JPN: 6 <0-47>	SYS	0: +12.0h 1: +11.5h 2: +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 42: -9.0h 43: -9.5h 44: -10.0h 45: -10.5h 46: -11.0h 47: -11.5h	1
640	User interface	Date display format	ALL	EUR: 1 UC: 2 JPN: 0 <0-2>	SYS	0: YYYY.MM.DD. 1: DD.MM.YYYY 2: MM.DD.YYYY	1
641	User interface	Automatic Sorting Mode setting (RADF)	PPC	2 <0-4>	SYS	0: Invalid 1: STAPLE 2: SORT 3: GROUP 4: ROTATE SORT	1
642	User interface	Default setting of Sorter Mode	PPC	0 <0-4>	SYS	0: NON-SORT 1: STAPLE 2: SORT 3: GROUP 4: ROTATE SORT	1
645	User interface	Correction of reproduction ratio in editing copy	PPC	10 <0-10>	SYS	Sets the reproduction ratio for the "X in 1" printing (including mag- azine 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
646	User interface	Image position in editing	PPC	0 <0-1>	SYS	Sets the page pasted position for "X in 1" to the upper left corner/ center. 0: Cornering 1: Centering	1
647	User interface	Rotation of paper direction for BOX printing	ALL	1 <0-1>	SYS	0: Rotation OFF 1: Rotation ON	1

		Setting mode (08)	<e-stue< th=""><th>DIO200L/230</th><th>)/230L/2</th><th>280></th><th></th></e-stue<>	DIO200L/230)/230L/2	280>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
648	User interface	Returning finisher tray when printing is finished	ALL	0 <0-1>	SYS	Sets whether or not returning the finisher tray to the bin 1 when printing is finished. 0: Not returned 1: Returned	1
649	User interface	Magazine sort setting	PPC	0 <0-1>	SYS	 Left page to right page Right page to left page 	1
650	User interface	2 in 1/4 in 1 page allocating order setting	PPC	0 <0-1>	SYS	0: Horizontal 1: Vertical	1
651	User interface	Printing format setting for Time stamp and Page Number	PPC	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
652	User interface	Cascade operation setting	PPC	0 <0-1>	SYS	0: OFF 1: ON	1
653	User interface	Cascade operation setting	PRT	0 <0-1>	SYS	0: OFF 1: ON	1
657	User interface	Direction priority for date and time stamp printing	PPC	0 <0-1>	SYS	0: Short edge 1: Long edge	1
658	User interface User interface	Auto Job Start setting for bypass feed printing Auto Job start setting for bypass feed printing	PRT	0 <0-1> 1 <0-1>	SYS	 Sets whether or not feeding a paper auto- matically into the equip- ment when it is placed on the bypass tray. 0: OFF (Press the [START] button to start feeding.) 1: ON (Automatic feeding) Sets whether or not feeding a paper auto- matically into the equip- ment when it is placed on the bypass tray. 0: OFF (Press the [START] button to start feeding.) 1: ON (Automatic feeding.) 	1
660	Network	Auto-forwarding setting of received FAX	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
661	Network	Auto-forwarding setting of received E-mail	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1

Setting mode (08) <e-studio200l 230="" 230l="" 280=""></e-studio200l>									
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure		
662	General	Clearing of SMS partition	ALL	-	SYS	Clears SMS partition. (Performs when the service call [F106] has occurred.)	3		
666	General	/SHR partition clearing	ALL	-	SYS	Initializes the Elec- tronic Filing.	3		
667	General	/SHA partition clearing	ALL	-	SYS	Initializes the shared folder.	3		
670	General	HDD diagnostic menu dis- play	ALL	-	SYS	Display the HDD infor- mation	2		
671	User interface	Size indicator	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1		
672	General	Initialization of department management information	-	-	SYS	Initializing of the depart- ment management information * Key in the code and press the [INITIAL- IZE] button to per- form the initialization. If the area storing the department man- agement informa- tion is destroyed for some reason, "Enter Department Code" is displayed on the control panel even if the department management func- tion is not set on. In this case, initialize the area with this code. This area is normally initialized at the factory.	3		
673	General	Trial period setting	PRT/ SCN	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		
678	General	Setting of banner advertis- ing display	ALL	0 <0-1>	SYS	Sets whether or not dis- playing the banner advertising. The setting contents of 08-679 and 08-680 are displayed at the time display section on the right top of the screen. When both are set, each content is dis- played alternately. 0: Not displayed 1: Displayed	1		
019	General		ALL	-	515	(one-byte character)			

Setting mode (08) <e-studio200l 230l="" 280=""></e-studio200l>									
				Default					
Code	Classifi-	Items	Func-	<accept-< th=""><th>RAM</th><th>Contents</th><th>Proce-</th></accept-<>	RAM	Contents	Proce-		
	cation		tion	value>			uure		
680	General	Banner advertising display 2	ALL	-	SYS	Maximum 27 letters (one-byte character)	11		
681	General	Display of [BANNER MES- SAGE] button	ALL	0 <0-1>	SYS	0: Not displayed 1: Displayed * This button enables the entry of "Banner advertising display 1 (08-679)" and "Ban- ner advertising dis- play 2 (08-680)" on the control panel.	1		
682	User interface	Offsetting between jobs	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1		
683	General	Duplex printing setting when coin controller is used	ALL	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 (Both sides printed) 1: Valid (Only one side printed) 	1		
684	General	Rebuilding all databases	ALL	-	SYS	Rebuilds all databases.	3		
685	General	Rebuilding all databases related to address book	ALL	-	SYS	Rebuilds all databases related to the Address Book.	3		
686	General	Rebuilding all databases related to log	ALL	-	SYS	Rebuilds all databases related to the log.	3		
689	FAX	Adaptation of paper source priority selection	FAX	0 <0-1>	SYS	 0: Not subjected for APS judgment 1: Subjected for APS judgment 	1		
690	General	HDD formatting	ALL	- <2>	SYS	2: Normal formatting	7		
691	General	HDD type display	ALL	- <0-2>	SYS	 0: Not formatted 1: Not used 2: Normal format 	7		
692	Mainte- nance	Performing panel calibra- tion	ALL	-	SYS	Performs the calibration of the pressing position on the touch panel (LCD screen). The cali- bration is performed by pressing 2 reference positions after this code is started up.	1		
693	General	Initialization of NIC infor- mation	ALL	-	SYS	Returns the value to the factory shipping default value.	3		
694	General	Performing HDD testing	ALL	-	SYS	Checks the bad sector.	3		

		Setting mode (08)	<e-stu< th=""><th>DIO200L/230</th><th>0/230L/2</th><th>280></th><th></th></e-stu<>	DIO200L/230	0/230L/2	280>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
695	General	Notifying condition of trial period end	PRT/ SCN	3 <0-59>	SYS	Sets when the end of trial period is notified. 0: On the day it ends 1 to 59: n days before	1
696	Scram- bler board	Installation of scrambler board (Option)	ALL	0 <0-1>	-	0: Not installed 1: Installed	2
697	Paper feeding	Paper type priority	PPC	1 <1-2>	SYS	Sets the paper type pri- ority during copying. 1: Plain paper 2: Thick paper 1	1
698	Scram- bler board	Entering the key code for scrambler board	ALL	-	-	Start up this code and have the user enter the key code. Once the key code has been set, this code can- not be set again on security grounds.	5
699	Scram- bler board	Erasing all data in HDD	ALL	-	-	This setting is effective only when the scram- bler board is installed.	3
701	FAX	Destination setting for FAX	FAX	EUR: 5 UC: 4 JPN: 0 Other: 1 <0-25>	SYS	0: Japan 1: Asia 2: Australia 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	1
702	Mainte- nance	Remote-controlled service function	ALL	2 <0-2>	SYS	 Valid (Remote-con- trolled server) Valid (L2) Invalid 	1
703	Mainte- nance	Remote-controlled service HTTP server URL setting	ALL	-	SYS	Maximum 256 Bytes	11

		Setting mode (08)	<e-stu< th=""><th>DIO200L/230</th><th>)/230L/2</th><th>280></th><th></th></e-stu<>	DIO200L/230)/230L/2	280>	
				Default			
Codo	Classifi-	ltowno	Func-	<accept-< th=""><th>DAM</th><th>Contonto</th><th>Proce-</th></accept-<>	DAM	Contonto	Proce-
Code	cation	items	tion	able	RAW	Contents	dure
				value>			
707	Mainte-	Remote-controlled service	ALL	https://	SYS	Maximum 256 Bytes	11
	nance	HTTP initially-registered		device.	0.0		
		server		mfp-			
		URL setting		support.			
				com:443/			
				device/			
				firstregist.			
				ashx			
710	Mainte-	Short time interval setting	ALL	24	SYS	Sets the time interval to	1
	nance	of recovery from Emer-		<1-48>		recover from the Emer-	
	(Remote)	gency Mode				gency Mode to the Nor-	
						mai Mode.	
744	NA				0)/0	(Unit: Hour)	4
711	Mainte-	Short time interval setting	ALL	60	SYS	Unit: Minute	1
	(Pomoto)	or Emergency Mode		<30-360>			
745	(Neinte)	Demote controlled convice	A 1 1	4000	01/0	0 (0:00) to 2250 (22:50)	4
715	manne-	noriodical polling timing	ALL	1230	515	0 (0.00) 10 2359 (23.59)	I
	nance	(Hour/Hour/Minute/Minute)					
716	Mainto	(notin real/timate/timate)	AL I	0	975	0: Prohibitod	1
710	nance	Writing data of self-diag-	ALL	<0-1>	313	1: Accented	1
	nance	nostic code		10 12		1. Accepted	
717	Mainte-	Remote-controlled service	ΔΗ	3	SYS	Linit: Minute	1
	nance	response waiting time	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<1-30>	010		•
		(Timeout)					
718	Mainte-	Remote-controlled service	ALL	0	SYS	0: OFF	1
	nance	initial registration		<0-2>		1: Start	
		C C				2: Only certification is	
						scanned	
719	Mainte-	Remote-controlled service	ALL	-	SYS	Maximum 10 letters	11
	nance	tentative password					
720	Mainte-	Status of remote-con-	ALL	0	SYS	0: Not registered	2
	nance	trolled service initial regis-		<0-1>		1: Registered	
		(Diaple)(aply)					
704	Mainta			0	0)/0	0.055	
721	Mainte-	Service center call function	ALL	<0.2	515		1
	nance			<0-22			
						2 [·] Notifies all but	
						paper jams	
723	Mainte-	Service center call	ALL	-	SYS	Maximum 256 letters	11
	nance	HTTP server URL setting					
726	Mainte-	HTTP proxy setting	ALL	1	SYS	0: Valid	1
	nance			<0-1>		1: Invalid	
727	Mainte-	HTTP proxy IP address	ALL	-	SYS	000.000.000.000-	11
	nance	setting				255.255.255.255	
						(Default value	
						000.000.000.000)	
728	Mainte-	HTTP proxy port number	ALL	0	SYS		1
	nance	setting		<0-			
700	Mainte			<22500	0)/0	Mariana 00 la tra	44
729	iviainte-	HI IP proxy ID setting	ALL	-	515	waximum 30 letters	11
700	Mainta		A1 1		eve	Maximum 20 latters	11
/ 30	nance	ting	ALL	-	515	waximum so ietters	11
731	Mainte	HTTP provy papel display	ΔΗ	1	975	0: Valid	1
131	nance			<0-1>	010	1: Invalid	
				U 11			

		Setting mode (08)	<e-stue< th=""><th>DIO200L/23</th><th>0/230L/2</th><th>280></th><th></th></e-stue<>	DIO200L/23	0/230L/2	280>	
				Default			
Code	Classifi-	Items	Func-	<accept-< th=""><th>RAM</th><th>Contents</th><th>Proce-</th></accept-<>	RAM	Contents	Proce-
	oution		uon	value>			uuro
732	Mainte- nance (Remote)	Automatic ordering func- tion of supplies	ALL	3 <0-3>	SYS	0: Ordered by FAX 1: Ordered by E-mail 2: Ordered by HTTP 3: OFF	1
733	Mainte- nance (Remote)	Automatic ordering func- tion of supplies FAX number	ALL	-	SYS	Maximum 32 digits Enter hyphen with the [Monitor/Pause] button	11
734	Mainte- nance (Remote)	Automatic ordering func- tion of supplies E-mail address	ALL	-	SYS	Maximum 192 letters List: 256 digits	11
738	Mainte- nance (Remote)	Automatic ordering func- tion of supplies User's name	ALL	-	SYS	Maximum 50 letters	11
739	Mainte- nance (Remote)	Automatic ordering func- tion of supplies User's telephone number	ALL	-	SYS	Maximum 32 digits Enter hyphen with the [Monitor/Pause] button	11
740	Mainte- nance (Remote)	Automatic ordering func- tion of supplies User's E-mail address	ALL	-	SYS	Maximum 192 letters List: 256 digits	11
741	Mainte- nance (Remote)	Automatic ordering func- tion of supplies User's address	ALL	-	SYS	Maximum 100 letters	11
742	Mainte- nance (Remote)	Automatic ordering func- tion of supplies Service number	ALL	0 <5 digits>	SYS	Maximum 5 digits	11
743	Mainte- nance (Remote)	Automatic ordering func- tion of supplies Service technician's name	ALL	-	SYS	Maximum 50 letters	11
744	Mainte- nance (Remote)	Automatic ordering func- tion of supplies Service technician's tele- phone number	ALL	-	SYS	Maximum 32 digits Enter hyphen with the [Monitor/Pause] button	11
745	Mainte- nance (Remote)	Automatic ordering func- tion of supplies Service technician's E-mail address	ALL	-	SYS	Maximum 192 letters List: 256 digits	11
746	Mainte- nance (Remote)	Automatic ordering func- tion of supplies Supplier's name	ALL	-	SYS	Maximum 50 letters	11
747	Mainte- nance (Remote)	Automatic ordering func- tion of supplies Supplier's address	ALL	-	SYS	Maximum 100 letters	11
748	Mainte- nance (Remote)	Automatic ordering func- tion of supplies Notes	ALL	-	SYS	Maximum 128 letters	11
758	Mainte- nance (Remote)	Information about supplies Part number of toner car- tridge	ALL	-	SYS	Maximum 20 digits	11
759	Mainte- nance (Remote)	Information about supplies Order quantity of toner car- tridge	ALL	1 <1-99>	SYS		1
760	Mainte- nance (Remote)	Information about supplies Condition number of toner cartridge	ALL	1 <1-99>	SYS		1

		Setting mode (08)	<e-stue< th=""><th>DIO200L/230</th><th>0/230L/2</th><th>280></th><th></th></e-stue<>	DIO200L/230	0/230L/2	280>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able</accept- 	RAM	Contents	Proce- dure
				value>			
765	Mainte- nance (Remote)	Automatic ordering sup- plies Display	ALL	2 <0-2>	SYS	 Valid (FAX/Internet FAX) Valid (FAX/Internet FAX/HTTP) Invalid 	1
767	Mainte- nance (Remote)	Service Notification setting	ALL	0 <0-2>	SYS	Enables to set up to 3 E-mail addresses to be sent.(08-768, 777, 778) 0: Invalid 1: Valid (E-mail) 2: Valid (FAX)	1
768	Mainte- nance (Remote)	Destination E-mail address	ALL	-	SYS	Maximum 192 letters	11
769	Mainte- nance (Remote)	Total counter information transmission setting	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
770	Mainte- nance (Remote)	Total counter transmission date setting	ALL	1 <1-31>	SYS	1 to 31	1
771	Mainte- nance (Remote)	PM counter notification set- ting	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
772	Mainte- nance	Dealer's name	ALL	-	SYS	Maximum 100 letters Needed at initial regis- tration	11
773	Mainte- nance	Login name	ALL	-	SYS	Maximum 20 letters Needed at initial regis- tration	11
774	Mainte- nance (Remote)	Display setting of [Service Notification] button	ALL	0 <0-1>	SYS	0: Not displayed 1: displayed	1
775	Mainte- nance (Remote)	Sending error contents of equipment	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
776	Mainte- nance (Remote)	Setting total counter trans- mission interval (Hour/Hour/Minute/Minute)	ALL	-	SYS		1
777	Mainte- nance (Remote)	Destination E-mail address 2	ALL	-	SYS	Maximum 192 letters	11
778	Mainte- nance (Remote)	Destination E-mail address 3	ALL	-	SYS	Maximum 192 letters	11
779	Mainte- nance (Remote)	Notification format selec- tion	ALL	0 <0-1>	SYS	0: Text 1: Text + XML data	1
780	Mainte- nance	Remote-controlled service polling day selection Day-1	ALL	0 <0-31>	SYS	0: OFF 1 to 31: 1st to 31st of a month	1
781	Mainte- nance	Remote-controlled service polling day selection Day-2	ALL	0 <0-31>	SYS	0: OFF 1 to 31: 1st to 31st of a month	1
782	Mainte- nance	Remote-controlled service polling day selection Day-3	ALL	0 <0-31>	SYS	0: OFF 1 to 31: 1st to 31st of a month	1

		Setting	g mode (08) ·	<e-stu< th=""><th>DIO200L/23</th><th>0/230L/2</th><th>280></th><th></th></e-stu<>	DIO200L/23	0/230L/2	280>	
Code	Classifi- cation	ltem	IS	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
783	Mainte- nance	Remote-contro polling day sele Day-4	lled service ection	ALL	0 <0-31>	SYS	0: OFF 1 to 31: 1st to 31st of a month	1
784	Mainte- nance	Remote-contro polling day sele Sunday	lled service ection	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
785	Mainte- nance	Remote-contro polling day sele Monday	lled service ection	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
786	Mainte- nance	Remote-contro polling day sele Tuesday	lled service ection	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
787	Mainte- nance	Remote-contro polling day sele Wednesday	lled service ection	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
788	Mainte- nance	Remote-contro polling day sele Thursday	lled service ection	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
789	Mainte- nance	Remote-contro polling day sele Friday	lled service ection	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
790	Mainte- nance	Remote-contro polling day sele Saturday	lled service ection	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
794	Mainte- nance	Information of s ting of toner ca	supplies set- rtridge	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
796	Mainte- nance	Remote-contro lengthened inte (End of month)	lled service erval polling	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
797	Mainte- nance	Firmware dowr	lload	ALL	0 <0-1>	SYS	0: Accepted 1: Prohibited	1
798	General	Notifying addre period end	ss of trial	PRT/ SCN	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
799	General	Forcible end of	trial period	PRT/ SCN	-	SYS	[CANCEL]: Cancel [EXECUTION]: Forc- ible end When the "Forcible end of trial period" is per- formed, "0" is set in the code (08-673) to end up the trial period forcibly.	3
800-0	Fuser	Temperature control lower limit (OHP film)	Center thermistor	ALL	8 <0-12>	М	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C	4
800-1			Side themistor	ALL	6 <0-12>	М	8: 170°C 9: 175°C 10: 180°C 11: 185°C 12: 120°C	4

		Setting	g mode (08) ·	<e-stue< th=""><th>DIO200L/23</th><th>0/230L/2</th><th>280></th><th></th></e-stue<>	DIO200L/23	0/230L/2	280>	
Code	Classifi- cation	ltem	IS	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
801-0	Fuser	Temperature control lower limit (Thick paper	Center thermistor	ALL	8 <0-12>	М	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C	4
801-1		1)	Side thermistor	ALL	6 <0-12>	М	8: 170°C 9:175°C 10:180°C 11:185°C 12:120°C	4
802-0	Fuser	Temperature control lower limit (Thick paper	Center thermistor	ALL	8 <0-12>	М	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C	4
802-1		2)	Side thermistor	ALL	9 <0-12>	М	8: 170°C 9: 175°C 10: 180°C 11: 185°C 12: 120°C	4
803-0	Fuser	Temperature control lower limit (Thick paper	Center thermistor	ALL	8 <0-12>	м	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C	4
803-1		3)	Side thermistor	ALL	10 <0-12>	М	8: 170°C 9: 175°C 10: 180°C 11: 185°C 12: 120°C	4
804-0	Fuser	Temperature control lower limit (Envelope)	Center thermistor	ALL	8 <0-12>	М	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C	4
804-1			Side thermistor	ALL	10 <0-12>	М	8: 170°C 9: 175°C 10: 180°C 11: 185°C 12: 120°C	4
805	Charger	Main charger b tion (Text/Photo/OF	ias correc- IP film)	PRT	98 <0-255>	М	Corrects the value of the main charger bias adjustment (05-210).	1
806	Charger	Main charger b tion (Toner Saving I film)	ias correc- Mode/OHP	PRT	98 <0-255>	М		1
807	Charger	Main charger b tion (Text/Photo/OF	ias correc- IP film)	PPC	98 <0-255>	М		1
808	Charger	Main charger b tion (Text/OHP film)	ias correc-	PPC	98 <0-255>	М		1
809	Charger	Main charger b tion (Photo/OHP filr	ias correc- n)	PPC	98 <0-255>	М		1
826	Charger	Main charger b tion (Toner saving r	ias correc- node)	PRT	128 <0-255>	М		1
830	Transfer	Transfer transfe correction (C)	ormer DC	ALL	128 <0-255>	М	Corrects the value of the transfer trans- former DC output adjustment (05-221).	1

		Setting mode (08)	<e-stu< th=""><th>DIO200L/23</th><th>0/230L/2</th><th>280></th><th></th></e-stu<>	DIO200L/23	0/230L/2	280>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
831	Separa- tion	Separation transformer DC correction (C)	ALL	128 <0-255>	М	Corrects the value of the separation trans- former DC output adjustment (05-234).	1
833	Devel- oper	Developer bias DC correc- tion (Text/Photo/OHP film)	PRT	108 <0-255>	M	Corrects the value of the developer bias adjustment (05-205).	1
834	Devel- oper	Developer bias DC correc- tion (Toner Saving Mode/OHP film)	PRT	108 <0-255>	М		1
835	Devel- oper	Developer bias DC correc- tion (Text/Photo/OHP film)	PPC	108 <0-255>	М		1
836	Devel- oper	Developer bias DC correc- tion (Text/OHP film)	PPC	108 <0-255>	М		1
837	Devel- oper	Developer bias DC correc- tion (Photo/OHP film)	PPC	108 <0-255>	М		1
838	Image process- ing	Switching of recycled toner saving control	ALL	0 <0-1>	М	0: Switched 1: Not switched	1
839	Image process- ing	Correction by temperature/ humidity	ALL	0 <0-3>	М	Sets the correction by temperature/humidity. 0: All valid 1: All invalid 2: Valid only in auto- toner sensor 3: All valid except transfer and separa- tion	1
849	General	Power source setting for destination	ALL	SAD: 1 Others: 0 <0-1>	М	0: Other than SAD 1: SAD	1
859	Devel- oper	Developer bias DC correc- tion (Toner saving mode)	PRT	128 <0-255>	М	Corrects the value of the developer bias adjustment (05-205).	1
860	Devel- oper	Developer bias DC correc- tion (Normal)	PRT	128 <0-255>	М	Corrects the value of the developer bias adjustment (05-205).	1
861	Devel- oper	Developer bias DC correc- tion (Text/Photo)	PPC	128 <0-255>	М	Corrects the value of the developer bias adjustment (05-205).	1
862	Devel- oper	Developer bias DC correc- tion (Text)	PPC	128 <0-255>	М	Corrects the value of the developer bias adjustment (05-205).	1
863	Devel- oper	Developer bias DC correc- tion (Photo)	PPC	128 <0-255>	М	Corrects the value of the developer bias adjustment (05-205).	1
864	Charger	Main charger bias correc- tion (Normal)	PRT	128 <0-255>	М	Corrects the value of the main charger bias adjustment (05-210).	1

		Setting mode (08)	<e-stue< th=""><th>DIO200L/230</th><th>0/230L/2</th><th>280></th><th></th></e-stue<>	DIO200L/230	0/230L/2	280>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
865	Charger	Main charger bias correc- tion (Text/Photo)	PPC	128 <0-255>	М	Corrects the value of the main charger bias adjustment (05-210).	1
866	Charger	Main charger bias correc- tion (Text)	PPC	128 <0-255>	М	Corrects the value of the main charger bias adjustment (05-210).	1
867	Charger	Main charger bias correc- tion (Photo)	PPC	128 <0-255>	М	Corrects the value of the main charger bias adjustment (05-210).	1
868	Transfer	Transfer transformer DC correction (H)	ALL	128 <0-255>	М	Corrects the value of the transfer trans- former DC output adjustment (05-220).	1
869	Transfer	Transfer transformer DC correction (L)	ALL	128 <0-255>	М	Corrects the value of the transfer trans- former DC output adjustment (05-222).	1
870	Separa- tion	Separation transformer DC correction (H)	ALL	128 <0-255>	М	Corrects the value of the separation trans- former DC output adjustment (05-233).	1
871	Separa- tion	Separation transformer DC correction (L)	ALL	128 <0-255>	М	Corrects the value of the separation trans- former DC output adjustment (05-235).	1
872	Laser	Laser power correction (Normal)	PRT	128 <0-255>	М	Corrects the value of the laser power adjust- ment (05-286).	1
873	Laser	Laser power correction (Text/Photo)	PPC	128 <0-255>	М	Corrects the value of the laser power adjust- ment (05-286).	1
875	Laser	Laser power correction (Toner saving mode)	PRT	128 <0-255>	М	Corrects the value of the laser power adjust- ment (05-286).	1
876	Laser	Laser power correction (Text)	PPC	128 <0-255>	М	Corrects the value of the laser power adjust- ment (05-286).	1
877	Laser	Laser power correction (Photo)	PPC	128 <0-255>	М	Corrects the value of the laser power adjust- ment (05-286).	1

		Setting	, mode (08) •	<e-stue< th=""><th>DIO200L/23</th><th>)/230L/2</th><th>280></th><th></th></e-stue<>	DIO200L/23)/230L/2	280>	
					Default			
Cada	Classifi-	140.00	-	Func-	<accept-< th=""><th></th><th>Contonto</th><th>Proce-</th></accept-<>		Contonto	Proce-
Code	cation	Item	S	tion	able	RAW	Contents	dure
					value>			
886	Fuser	Temperature dr	op control	ALL	2	М	0: None	1
		setting in ready	status		<0-20>		1: Pattern 1	
		(Temperature/T	ïme)				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 16	
							17: Pattern 17	
							18: Pattern 18	
							19: Pattern 19	
							20: Manual adjustment	
896-0	Fuser	Temperature	Center	ALL	7	М	0: 130°C 1: 135°C	4
		control lower	thermistor		<0-12>		2: 140°C 3: 145°C	
		limit					4: 150°C 5: 155°C	
		(Plain paper/					6: 160°C 7: 165°C	
896-1		ture)	Side	ALL	5	M	10. 170 C 9. 175 C	4
		(urc)	thermistor		<0-12>		11: 185°C	
							12: 120°C	
900	Version	System firmwar	e ROM ver-	ALL	-	-	JPN: T371SY0JXXX	2
		sion					UC: T371SY0UXXX	
							EUR: T371SY0EXXX	
							Others: T371SY0XXXX	
903	Version	Engine ROM ve	ersion	ALL	-	-	371M-XXX	2
905	Version	Scanner ROM	version	ALL	-	-	371S-XXX	2
907	Version	RADF ROM ve	rsion	ALL	-	-	DF-XXXX	2
908	Version	Finisher ROM v	version	ALL	-	-	SDL-XX FIN-XX	2
915	Version	Fax board ROM	I version	FAX	-	-	F562-XXX	2
916	Version	NIC board ROM	/ version	ALL	-	-	X.XXX	2
920	Version	FROM basic se	ction soft-	ALL	-	-	VX.XX/X.XX	2
		ware version						
921	Version	FROM internal	program	ALL	-	-	VXXX.XXX X	2
922	Version	UI data fixed se	ection ver-	ALL	-	-	VXXX.XXX X	2
		sion						
923	Version	UI data commo	n section	ALL	-	-	VXXX.XXX X	2
		version						
924	Version	Version of UI da	ata lan-	ALL	-	-	VXXX.XXX X	2
		guage 1 in HDE)					
925	Version	Version of UI da	ata lan-	ALL	-	-	VXXX.XXX X	2
		guage 2 in HDE)					
926	Version	Version of UI da	ata lan-	ALL	-		VXXX.XXX X	2
		guage 3 in HDI)					
927	Version	Version of UI da	ata lan-	ALL	-	-	VXXX.XXX X	2
		guage 4 in HDE	ן					
928	Version	Version of UI da	ata lan-	ALL	-	-	VXXX.XXX X	2
		guage 5 in HDE	נ					1

		Setting mode (08)	<e-stue< th=""><th>DIO200L/23</th><th>0/230L/2</th><th>280></th><th></th></e-stue<>	DIO200L/23	0/230L/2	280>	
				Default			
Code	Classifi-	Itoms	Func-	<accept-< th=""><th>RAM</th><th>Contents</th><th>Proce-</th></accept-<>	RAM	Contents	Proce-
ooue	cation	items	tion	able		oontenta	dure
				value>			
929	Version	Version of UI data lan- guage 6 in HDD	ALL	-	-	VXXX.XXX X	2
930	Version	Version of UI data in FROM displayed at power- ON	ALL	-	-	VXXX.XXX X	2
931	Version	Version of UI data lan- guage 7 in HDD	ALL	-	-	VXXX.XXX X	2
933	Version	Web data whole version	ALL	-	-	VXXX.XXX X	2
934	Version	Web UI data in HDD Version: Language 1	ALL	-	-	VXXX.XXX X	2
935	Version	Web UI data in HDD Version: Language 2	ALL	-	-	VXXX.XXX X	2
936	Version	Web UI data in HDD Version: Language 3	ALL	-	-	VXXX.XXX X	2
937	Version	Web UI data in HDD Version: Language 4	ALL	-	-	VXXX.XXX X	2
938	Version	Web UI data in HDD Version: Language 5	ALL	-	-	VXXX.XXX X	2
939	Version	Web UI data in HDD Version: Language 6	ALL	-	-	VXXX.XXX X	2
944	Version	HD version	ALL	-	-	JPN: T371HD0JXXX UC: T371HD0UXXX EUR: T371HD0EXXX Others: T371HD0EXXX	2
945	Network	Two-way setting of RawPort 9100	ALL	1 <1-2>	UTY	1: Valid 2: Invalid	12
947	General	Initialization after software version upgrade	ALL	-	-	Perform this code when the software in this equipment has been upgraded.	3
948	General	Mode setting by pressing [Energy Saver] button for a while	ALL	0 <0-1>	SYS	Sets the mode to enter when the [Energy Saver] button is pressed for a while. 0: Sleep Mode 1: Auto Shut Off Mode	1
949	General	Automatic interruption page setting during printing	ALL	0 <0-100>	SYS	Sets the number of pages to interrupt the printing automatically. 0-100: 0 to 100 pages	1
950	Elec- tronic Fil- ing	Start-up method of Elec- tronic Filing	ALL	0 <0-2>	SYS	Sets the start-up method of the Elec- tronic Filing. 0: Standard 1: Forced start-up (Not recovered) 2: Forced start-up (Recovered)	1
953	User interface	Access code entry for Electronic Filing printing	ALL	0 <0-1>	SYS	 Renewed automati- cally Enter every time 	1
954	User interface	Clearing timing for files and Electronic Filing Agent	ALL	1 <0-1>	SYS	 0: Immediately after the completion of scanning 1: Cleared by Auto Clear 	1

		Setting mode (08)	<e-stu< th=""><th>DIO200L/23</th><th>0/230L/2</th><th>280></th><th></th></e-stu<>	DIO200L/23	0/230L/2	280>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
969	User interface	Error sound	ALL	1 <0-1>	SYS	0: OFF 1: ON	1
970	User interface	Sound setting when switching to Energy Saving Mode	ALL	1 <0-1>	SYS	0: OFF 1: ON	1
973	Network	PCL line feed code setting	PRT	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
975	General	Job handling when print- ing is short paid with coin controller	ALL	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
976	Elec- tronic Fil- ing	Equipment name setting to a folder when saving files	ALL	0 <0-1>	SYS	Sets whether or not adding the equipment name to the folder when saving files. 0: Not add 1: Add	1
977	Network	Switching of extended ASCII code in catFs file- system	ALL	0 <0-1>	SYS	0: ISO8859-1 1: ISO8859-2	1
978	Network	Raw printing job (Paper feeding drawer)	PRT	0 <0-5>	SYS	0: AUTO 1: Upper drawer 2: Lower drawer 3: PFP upper drawer 4: PFP lower drawer 5: LCF	1

		Setting mode (08) <	<e-stue< th=""><th>01O200L/230</th><th>)/230L/2</th><th>280></th><th></th></e-stue<>	01O200L/230)/230L/2	280>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
979	Network	Raw printing job (PCL symbol set)	PRT	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 Interna- tional 15: Ventura US 16: Microsoft Publishing 17: Math-8 18: PS Math 19: Ventura Math 20: Pi Font 21: Legal 22: ISO 4: United King- dom 23: ISO 6: ASCII 24: ISO 11 25: ISO 15: Italian 26: ISO 4: United King- dom 23: ISO 6: ASCII 24: ISO 11 25: ISO 15: Italian 26: ISO 17 27: ISO 21: German 28: ISO 60: Danish/Nor- wegian 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
980	Elec- tronic Fil- ing	Electronic Filing data retention period when NIC board is not installed (Public Box)	ALL	0 <0-999>	SYS	U: Retention OFF 1 to 999: 1 to 999 days	1
981	Elec- tronic Fil- ing	Electronic Filing data retention period when NIC board is not installed (User Box)	ALL	0 <0-999>	SYS	0: Retention OFF 1 to 999: 1 to 999 days	1
985	Elec- tronic Fil- ing	Print mode setting of mixed input source of Electronic Filing	ALL	0 <0-1>	SYS	 Image quality prior- ity mode Function priority mode 	1

		Setting mode (08)	<e-stu< th=""><th>DIO200L/230</th><th>)/230L/2</th><th>280></th><th></th></e-stu<>	DIO200L/230)/230L/2	280>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
986	General	Copy function setting	PPC	0 <0-1>	SYS	Sets the copy function to be invalid. 0: Valid 1: Invalid	1
988	Paper feeding	Setting of paper size switching to 13" LG	ALL	0 <0-2>	SYS	0: Not switched 1: LG →13"LG 2: FOLIO →13"LG	1
995	Version	Equipment number (serial number) display	ALL	0 <10 dig- its>	SYS	This code can be also keyed in from the adjustment mode (05- 976). 10 digits	11
999	Mainte- nance	FSMS total counter	ALL	0 <8 digits>	SYS	Refers to values of total counter	1
1001	Mainte- nance	Reset of NIC board	ALL	3 <1-3>	NIC	1: Cold 2: Warm 3: Not reset	12
1002	Network	Selection of NIC board sta- tus information	ALL	1 <1-2>	NIC	 Not printed out when the equipment is restarted Printed out when the equipment is restarted 	12
1003	Network	Speed setting of Ethernet	ALL	3 <1-3>	NIC	1: 10 MBPS 2: 100 MBPS 3: Automatic	12
1004	Network	NIC Web password	ALL	-	NIC	Writing only (Current setting is not dis- played.) Maximum 31 letters	12
1005	Network	Availability of IP	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1006	Network	Address Mode	ALL	2 <1-5>	NIC	 Fixed IP address Dynamic IP address Dynamic IP address without AutoIP Dynamic IP address without BOOTP Dynamic IP address without BOOTP Dynamic IP address without DHCP 	12
1007	Network	Domain name	ALL	-	NIC	Maximum 96 letters	12
1008	Network	IP address	ALL	-	NIC	000.000.000.000- 255.255.255.255 (Default value 000.000.000.000)	12
1009	Network	Subnet mask	ALL	-	NIC	000.000.000.000- 255.255.255.255 (Default value 000.000.000.000)	12
1010	Network	Gateway	ALL	-	NIC	000.000.000.000- 255.255.255.255 (Default value 000.000.000.000)	12
1011	Network	Availability of IPX	ALL	1 <1-2>	NIC	1: Available 2: Not available	12

	Setting mode (08) <e-studio200l 230="" 230l="" 280=""></e-studio200l>									
				Default						
Code	Classifi-	Items	Func-	<accept-< th=""><th>RAM</th><th>Contents</th><th>Proce-</th></accept-<>	RAM	Contents	Proce-			
	cation		tion	able	10.00	Contonito	dure			
				value>						
1012	Network	Network frame type	ALL	1	NIC	1: Automatic	12			
				<1-5>		2: IEEE802.3				
						5: IFFF802.2				
1013	Network	Availability of NCP Burst	ALL	1	NIC	1: Available	12			
				<1-2>		2: Not available				
1014	Network	Availability of AppleTalk	ALL	1	NIC	1: Available	12			
				<1-2>		2: Not available				
1015	Network	Zone setting of AppleTalk	ALL	*	NIC	Maximum 32 letters	12			
						*: Wildcard character				
1016	Network	Availability of LDAP	ALL	1	NIC	1: Available	12			
				<1-2>		2: Not available				
1017	Network	Availability of DNS	ALL	1	NIC	1: Available	12			
4040	Matural			<1-2>	NIIO		10			
1018	Network	(Primary)	ALL	-	NIC	000.000.000.000-	12			
		(i iiiiaiy)				(Default value				
						000.000.000.000)				
1019	Network	IP address to DNS server	ALL	-	NIC	000.000.000.000-	12			
		(Secondary)				255.255.255.255				
						(Default value				
						000.000.000.000)				
1020	Network	DDNS Desired level	ALL	1	NIC	1: Invalid	12			
				<1-5>		2: VIA DHCP				
						4: Secure DDNS				
						5: Multi-secure DDNS				
1021	Network	Availability of SLP	ALL	1	NIC	1: Available	12			
		_		<1-2>		2: Not available				
1023	Network	NetBios name	ALL	-	UTY	Maximum 15 letters	12			
1024	Network	Name of WINS server or IP	ALL	-	UTY	Maximum 128 letters	12			
		address (Primary)								
1025	Network	Name of WINS server or IP	ALL	-	UTY	Maximum 128 letters	12			
1026	Notwork	Availability of Dindony	A1 1	1	NIC		10			
1020	INELWOIK	Availability of Bindery	ALL	<1-2>	NIC	2: Not available	12			
1027	Network	Availability of NDS	ΔΗ	1	NIC		12			
1027	NCLWOIK			<1-2>	NIC	2: Not available	12			
1028	Network	Directory service context	ALL	-	NIC	Maximum 127 letters	12			
1029	Network	Directory service tree	ALL	-	NIC	Maximum 47 letters	12			
1030	Network	Availability of HTTP server	ALI	1	NIC	1: Available	12			
				<1-2>		2: Not available				
1031	Network	Port number to NIC HTTP	ALL	80	NIC		12			
		server		<1-						
				65535>						
1032	Network	Port number to system	ALL	8080	SYS		1			
		HIIP server		<1-						
1022	Notural		A1 1	<0000002	NIC	1: Available	40			
1033	INCLWOIK	client	ALL	2 <1.2>	NIC	2. Not available	12			
1034	Network	TCP nort number to Con-	ΔΗ	80			12			
1004	NOLWOIK	troller HTTP client		<1-	011		12			
				65535>						

		Setting mode (08)	<e-stu< th=""><th>DIO200L/230</th><th>0/230L/2</th><th>280></th><th></th></e-stu<>	DIO200L/230	0/230L/2	280>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
1035	Network	IP address to HTTP server (Primary)	ALL	-	NIC	000.000.000.000- 255.255.255.255 (Default value 000.000.000.000)	12
1037	Network	Availability of SMTP client	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1038	Network	FQDN or IP address to SMTP server	ALL	-	NIC	Maximum 128 Bytes	12
1039	Network	TCP port number of SMTP client	ALL	25 <1- 65535>	NIC		12
1040	Network	Availability of SMTP server	ALL	1 <1-2>	UTY	1: Available 2: Not available	12
1041	Network	TCP port number of SMTP server	ALL	25 <1- 65535>	UTY		12
1042	Network	E-mail box name to SMTP server	ALL	-	UTY	Maximum 192 letters	12
1043	Network	Availability of Offramp	ALL	2 <1-2>	UTY	1: Available 2: Not available	12
1044	Network	Offramp security	ALL	1 <1-2>	UTY	1: Available 2: Not available	12
1045	Network	Printing at Offramp	ALL	1 <1-2>	UTY	1: Available 2: Not available	12
1046	Network	Availability of POP3 clients	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1047	Network	FQDN or IP address to POP3 server	ALL	-	NIC	Maximum 128 Bytes	12
1048	Network	Types of POP3 server	ALL	1 <1-3>	NIC	1: Automatic 2: POP3 3: APOP	12
1049	Network	Login name to POP3 server	ALL	-	NIC	Maximum 96 letters	12
1050	Network	Login password to POP3	ALL	-	NIC	Maximum 96 letters	12
1051	Network	E-mail reception interval (Unit: Minute)	ALL	5 <0-4096>	NIC		12
1052	Network	TCP port number of POP3 client	ALL	110 <1- 65535>	NIC		12
1053	Network	Availability of FTP client	ALL	1 <1-2>	NIC	1: Available 2: Not available	12
1054	Network	FQDN or IP address to FTP server	ALL	-	NIC	Maximum 128 letters	12
1055	Network	TCP port number of FTP client	ALL	21 <1- 65535>	UTY		12
1056	Network	Data port number of FTP client	ALL	0 <0- 65535>	UTY		12
1057	Network	Login name to FTP server	ALL	-	SYS	Maximum 31 letters	11
1058	Network	Login password to FTP server	ALL	-	SYS	Maximum 31 letters	11
1059	Network	Availability of FTP server	ALL	1 <1-2>	NIC	1: Available 2: Not available	12

	Setting mode (08) <e-studio200l 230="" 230l="" 280=""></e-studio200l>									
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure			
1060	Network	TCP port number of FTP server	ALL	21 <1- 65535>	UTY		12			
1061	Network	Login name to FTP client	ALL	-	SYS	Maximum 31 letters	11			
1062	Network	Login password to FTP cli- ent	ALL	-	SYS	Maximum 31 letters	11			
1063	Network	MIB function	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12			
1065	Network	Setting of read Community	ALL	public	NIC	Maximum 31 letters	12			
1066	Network	Setting of read/Write Com- munity	ALL	private	NIC	Maximum 31 letters	12			
1067	Network	Authentication TRAP func- tion	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12			
1068	Network	ALERTS TRAP function	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12			
1069	Network	TRAP destination IP address	ALL	-	UTY	000.000.000.000- 255.255.255.255 (Default value 000.000.000.000)	12			
1070	Network	Community setting of TRAP (via IP)	ALL	public	NIC	Maximum 31 letters	12			
1073	Network	Availability of Raw/TCP	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12			
1074	Network	TCP port number of Raw	ALL	9100 <1- 65535>	NIC		12			
1075	Network	Availability of LPD client	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12			
1076	Network	TCP port number of LPD	ALL	515 <1- 65535>	NIC		12			
1077	Network	LPD queue name	ALL	-	NIC	Maximum 31 letters	12			
1078	Network	Availability of IPP	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12			
1079	Network	Availability of IPP port number "80"	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12			
1080	Network	TCP port number of IPP	ALL	631 <1- 65535>	NIC		12			
1081	Network	IPP printer name	ALL	-	NIC	Maximum 127 letters	12			
1082	Network	IPP printer location	ALL	-	NIC	Maximum 127 letters	12			
1083	Network	IPP printer information	ALL	-	NIC	Maximum 127 letters	12			
1084	Network	IPP printer information (more)	ALL	-	NIC	Maximum 127 letters	12			
1085	Network	Installer of IPP printer driver	ALL	-	NIC	Maximum 127 letters	12			
1086	Network	IPP printer "Make and Model"	ALL	-	NIC	Maximum 127 letters	12			
1087	Network	IPP printer information (more) MFGR	ALL	-	NIC	Maximum 127 letters	12			
1088	Network	IPP message from opera- tor	ALL	-	NIC	Maximum 127 letters	12			
1089	Network	Availability of FTP print	ALL	1 <1-2>	NIC	1: Available 2: Not available	12			
1090	Network	Printer user name of FTP	ALL	print	NIC	Maximum 31 letters	12			

		Setting mode (08)	<e-stu< th=""><th>DIO200L/23</th><th>)/230L/2</th><th>280></th><th></th></e-stu<>	DIO200L/23)/230L/2	280>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
1091	Network	Printer user password of FTP	ALL	-	NIC	Maximum 31 letters	12
1092	Network	TCP port number to FTP print server	ALL	21 <1- 65535>	NIC		12
1093	Network	Login name to Novell print server	ALL	-	NIC	Maximum 47 letters	12
1094	Network	Login password to Novell print server	ALL	-	NIC	Maximum 31 letters	12
1095	Network	Name of SearchRoot server	ALL	-	NIC	Maximum 31 letters	12
1096	Network	Scan rate setting of print queue	ALL	5 <1-255>	NIC	Unit: Second	12
1097	Network	Page number limitation for printing text of received E- mail	ALL	5 <1-99>	UTY		12
1098	Network	MDN return mail setting when receiving E-mail	ALL	2 <1-2>	UTY	1: Valid 2: Invalid	12
1099	Network	Trap destination of IPX	ALL	-	UTY	Maximum 24 letters (Valid from 0 to 9 and from A to F)	12
1100	Network	Method of SMTP server authentication	ALL	5 <1-5>	NIC	1: Plain 2: Login 3: Cram-MD5 4: Digest MD5 5: Disable	12
1101	Network	Login name for SMTP server authentication	ALL	-	NIC	Maximum 64 letters	12
1102	Network	Login password for SMTP server authentication	ALL	-	NIC	Maximum 64 letters	12
1103	Network	Rendezvous setting	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12
1104	Network	Link local host name	ALL	MFP_seri al	NIC	Maximum 127 letters	12
1105	Network	Service name setting	ALL	Refer to content	NIC	Maximum 63 letters <default value=""> e-STUDIO230: TOSHIBA e- STUDIO230 e-STUDIO280: TOSHIBA e- STUDIO280</default>	12
1112	Network	Host name	ALL	MFP_seri al	NIC	Maximum 63 letters	12
1114	Network	Sending mail text of Inter- netFAX	ALL	1 <0-1>	SYS	0: Invalid (Not sending the mail text) 1: Valid (Sending the mail text)	1
1117	Network	SMB time-out period	ALL	300 <1-9999>	SYS	Unit: Second	1

		Setting mode (08)	<e-stu< th=""><th>DIO200L/23</th><th>)/230L/2</th><th>280></th><th></th></e-stu<>	DIO200L/23)/230L/2	280>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
1120	Network	Backup/Restore of NIC setting information	ALL	0 <0-1>	SYS	 Read (Reads all of the setting informa- tion in NIC and cre- ate a file NAM1B (no extension) in USB) Write (Writes all of the setting informa- tion read from a file NAM1B (no exten- sion) in USB) 	1
1124	Network	Workgroup name	ALL	work- group	UTY	Maximum 15 letters	12
1126	Counter	Validity of interrupt copy- ing when external counters are installed	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
1130	User interface	Job Build Function	ALL	1 <0-1>	SYS	Sets the Job Build Function. 0: Invalid 1: Valid	1
1131	User interface	Maximum number of time job build performed	ALL	1000 <5-1000>	SYS	Sets the maximum number of time a job build has been per- formed. 5-1000: 5 to 1000 times	1
1132	General	Default screen selection of the User Function menu	ALL	1 <0-1>	SYS	Selects the default screen when entering the User Function menu by pressing the [USER FUNCTIONS] button. 0: ADDRESS 1: COUNTER	1
1133	Paper feeding	Feeding direction setting of envelope	ALL	0 <0-1>	SYS	 Sets the feeding direction of envelopes. D: 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
1135	Paper feeding	Default setting of drawers (Printer/BOX)	PRT	1 <1-5>	SYS	1: LCF 2: Upper drawer 3: Lower drawer 4: PFP upper drawer 5: PFP lower drawer	1
1136	Network	Number of lines simulta- neously connectable when using SMB	ALL	8 <0-16>	SYS		1
1137	Network	Memory partition size when using Samba	ALL	12 <8-20>	SYS	8-20 M bytes	1

2

		Setting mode (08)	<e-stu< th=""><th>DIO200L/23</th><th>0/230L/2</th><th>280></th><th></th></e-stu<>	DIO200L/23	0/230L/2	280>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
1138	Network	LDAP search method set- ting	ALL	0 <0-3>	SYS	Sets the search method when performing a LDAP search. 0: Partial match 1: Prefix match 2: Suffix match 3: Full match	1
1139	Network	LDAP authentication set- ting	ALL	0 <0-1>	SYS	0: Not authenticated 1: Authenticated	1
1140	User interface	Restriction of the template function with the adminis- trator privilege	ALL	0 <0-1>	SYS	Selects the restriction of the template function usage setting. 0: No restriction 1: Only available with the administrator privilege.	1
1145	Mainte- nance (Remote)	Counter notification Remote FAX setting	ALL	-	SYS	Maximum 32 digits Enter hyphen with the [MONITOR/PAUSE] button.	11
1372	Counter	Heater and energizing time accumulating counter Dis- play/0 clearing	ALL	0 <8 digits>	М	Counts up the heater control time accumu- lated (when power of the equipment is ON) but does not count at the Sleep Mode. When the counter value of the fuser roller is cleared, this counter value is also cleared in sync at the PM support mode.	1
1376	Counter	Toner cartridge drive counter	ALL	0 <8 digits>	М	Counts the rotation number of the toner cartridge.	1
1378	Counter	Counter for period of time fuser unit is at ready tem- perature	ALL	0 <8 digits>	Μ	Counts up the heater control time accumu- lated (when the equip- ment is at ready status). When the counter value of the fuser roller is reset, this counter is also reset in sync at the PM support mode.	1
1380	Counter	Counter for period of time fuser unit is at printing tem- perature	ALL	0 <8 digits>	Μ	Counts up the heater control time accumu- lated (during printing). When the counter value of the fuser roller is reset, this counter is also reset in sync at the PM support mode.	1

Setting mode (08) <e-studio200l 230="" 230l="" 280=""></e-studio200l>								
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure	
1382	Counter	Counter for period of time fuser unit is at energy sav- ing temperature/Counter reset	ALL	0 <8 digits>	М	Counts up the heater control time accumu- lated (when the equip- ment is in the Energy Saving Mode). When the counter value of the fuser roller is reset, this counter is also reset in sync at the PM support mode.	1	
1385	Image process- ing	Number of output pages (Thick paper 1)	ALL	0 <8 digits>	М	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	
1386	Image process- ing	Number of output pages (Thick paper 2)	ALL	0 <8 digits>	М	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	
1387	Image process- ing	Number of output pages (Thick paper 3)	ALL	0 <8 digits>	М	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	
1388	Image process- ing	Number of output pages (OHP film)	ALL	0 <8 digits>	М	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	
1390	Paper feeding	Feeding retry counter (upper drawer)	ALL	0 <8 digits>	М	Counts the number of times of the feeding retry from the upper drawer.	1	
1391	Paper feeding	Feeding retry counter (lower drawer)	ALL	0 <8 digits>	М	Counts the number of times of the feeding retry from the lower drawer.	1	
1392	Paper feeding	Feeding retry counter (PFP upper drawer)	ALL	0 <8 digits>	М	Counts the number of times of the feeding retry from the PFP upper drawer.	1	
1393	Paper feeding	Feeding retry counter (PFP lower drawer)	ALL	0 <8 digits>	М	Counts the number of times of the feeding retry from the PFP lower drawer.	1	

		Setting mode (08)	<e-stu< th=""><th>DIO200L/230</th><th>0/230L/2</th><th>280></th><th></th></e-stu<>	DIO200L/230	0/230L/2	280>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
1394	Paper feeding	Feeding retry counter (bypass feed)	ALL	0 <8 digits>	М	Counts the number of times of the feeding retry from the bypass tray.	1
1395	Paper feeding	Feeding retry counter (LCF)	ALL	0 <8 digits>	М	Counts the number of times of the feeding retry from the LCF.	1
1396	Paper feeding	Feeding retry counter upper limit value (Upper drawer)	ALL	0 <8 digits>	М	When the number of feeding retry (08-1390 to 08-1395) exceeds	1
1397	Paper feeding	Feeding retry counter upper limit value (Lower drawer)	ALL	0 <8 digits>	М	the setting value, the feeding retry will not be performed subse-	1
1398	Paper feeding	Feeding retry counter upper limit value (PFP upper drawer)	ALL	0 <8 digits>	М	set as a setting value, however, the feeding	1
1399	Paper feeding	Feeding retry counter upper limit value (PFP lower drawer)	ALL	0 <8 digits>	М	less of the counter set- ting value.	1
1400	Paper feeding	Feeding retry counter upper limit value (Bypass feed)	ALL	0 <8 digits>	М		1
1401	Paper feeding	Feeding retry counter upper limit value (LCF)	ALL	0 <8 digits>	М		1
1410	Counter	Counter for period of toner cartridge rotation time	ALL	0 <8 digits>	М	Counts up the period of rotation time of the toner cartridge.	1
1411	Counter	Counter for envelope	ALL	0 <8 digits>	М	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
1422	Data overwrite kit	HDD data overwriting type setting	ALL	3 <0-4>	SYS	 HDD data is cleared by overwriting the type of value set in this code. (This setting is enabled only when the GP-1050 is installed.) 0: "00" overwriting only 1: "FF" overwriting only 2: Random number overwriting only 3: "00" + "FF" + random number overwriting (validation ON) 4: "00" + "FF" + random number overwriting (validation OFF) 	1

Setting mode (08) <e-studio200l 230="" 230l="" 280=""></e-studio200l>							
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
1424	Data overwrite kit	HDD data clearing type setting (forcible clearing)	ALL	3 <0-4>	SYS	 HDD data is cleared by overwriting the type of value set in this code. (This setting is enabled only when the GP-1050 is installed.) 0: "00" overwriting only 1: "FF" overwriting only 2: Random number overwriting only 3: "00" + "FF" + random number overwriting (validation ON) 4: "00" + "FF" + random number overwriting (validation OFF) 	1
1426	Data overwrite kit	Forcible HDD data clearing	ALL	-	-	HDD data is cleared in the procedure set in 08- 1424. * This setting is enabled only when the GP-1050 is installed.	3
1427	Data overwrite kit	Forcible NVRAM data all clearing	ALL	-	-	When this code is per- formed, the equipment cannot be started up. * This setting is enabled only when the GP-1050 is installed.	3
1428	Data overwrite kit	Forcible SRAM backup data all clearing	ALL	-	-	When this code is per- formed, the equipment cannot be started up. * This setting is enabled only when the GP-1050 is installed.	3
1432	Network	Mode only for Private Print	ALL	0 <0-1>	SYS	0: Normal mode 1: Mode for Private Print	1
1433	Network	"Disable e-Filing" function	ALL	0 <0-1>	SYS	 0: Function OFF (no restriction on data saving or other operations) 1: Function ON (Data saving or other operations are restricted) 	1
1434	Network	"Disable local file save" function	ALL	0 <0-1>	SYS	 Function OFF (no restriction on data saving or other operations) Function ON (Data saving or other operations are restricted) 	1

2

		Setting mode (08)	<e-stu< th=""><th>DIO200L/23</th><th>)/230L/2</th><th>280></th><th></th></e-stu<>	DIO200L/23)/230L/2	280>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
1484	Network	Authentication method of "Scan to Email"	ALL	0 <0-2>	SYS	 Disable SMTP authentication LDAP authentication 	1
1485	Network	Setting whether use of Internet FAX is permitted or not when it is given an authentication	ALL	0 <0-1>	SYS	0: Not permitted 1: Permitted	1
1486	Network	Server setting for LDAP user authentication	ALL	0 <0- 4294967 295>	SYS		2
1487	Network	"From" address assign- ment method when it is given an authentication	ALL	0 <0-2>	SYS	 "User name" + @ + "Domain name" LDAP search Use the address registered in "From" field of E-mail set- ting 	1
1488	Network	ID setting of LDAP server for "From" address assign- ment	ALL	0 <0- 4294967 295>	SYS		2
1489	Network	Setting for "From" address edit at "Scan to Email"	ALL	0 <0-1>	SYS	0: Not permitted 1: Permitted	1
1491	Network	E-mail domain name	ALL	-	SYS	96+2 (delimiter) charac- ter ASCII sequence only	11

<<Pixel counter related code>> (Chap. 2.2.9)

	Setting mode (08) <e-studio200l 230="" 280=""></e-studio200l>										
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure				
1500	Pixel counter	Standard paper size setting	ALL	EUR: 0 UC: 1 JPN: 0	SYS	Selects the standard paper size to convert it into the pixel count (%). 0: A4 1: LT	1				
1501	Pixel counter	Pixel counter all clearing	ALL	-	SYS	Clears all information related to the pixel counter.	3				
1502	Pixel counter	Service technician refer- ence counter clearing	ALL	-	SYS	Clears all information related to the service technician reference pixel counter.	3				
1503	Pixel counter	Toner cartridge reference counter clearing	ALL	-	SYS	Clears all information related to the toner car- tridge reference pixel counter.	3				
1504	Pixel counter	Pixel counter display set- ting	ALL	1 <0-1>	SYS	Selects whether or not to display the pixel counter on the LCD screen. 0: Displayed 1: Not displayed	1				
1505	Pixel counter	Displayed reference set- ting	ALL	0 <0-1>	SYS	Selects the reference when displaying the pixel counter on the LCD screen. 0: Service technician reference 1: Toner cartridge ref- erence	1				
1506	Pixel counter	Toner empty determination counter setting	ALL	0 <0-1>	SYS	Selects the counter to determine toner empty. 0: Output pages 1: Pixel counter	1				
1507	Pixel counter	Threshold setting for toner empty determination (Output pages)	ALL	800 <0-999>	SYS	Sets the number of out- put pages to determine toner empty. This set- ting is valid when "0" is set at 08-1506.	1				
1508	Pixel counter	Threshold setting for toner empty determination (Pixel count)	ALL	35100 <0- 60000>	SYS	Sets the pixel count to determine the toner empty status. This setting is valid when "1" is set at 08- 1506.	1				
1509	Pixel counter	Pixel counter clear flag/ Service technician refer- ence	ALL	0 <0-1>	SYS	Becomes "1" when 08- 1502 is performed.	2				
1510	Pixel counter	Service technician refer- ence cleared date	ALL	-	SYS	Displays the date on which 08-1502 was per- formed.	2				
1514	Pixel counter	Toner cartridge reference cleared date	ALL	-	SYS	Displays the date on which 08-1503 was per- formed.	2				
1518	Pixel counter	Toner cartridge reference count started date	ALL	-	SYS	Displays the date on which 08-1503 was per- formed.	2				

		Setting mode (0	8) <e-s1< th=""><th>UDIO200L/</th><th>230/280</th><th>></th><th></th></e-s1<>	UDIO200L/	230/280	>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
1548	Pixel counter	Number of output pages (Service technician refer- ence)	PPC	<8 digits>	SYS	Counts the number of output pages con- verted to the standard paper size in the copy function and service technician reference. [Unit. page]	2
1550	Pixel counter	Number of output pages (Service technician refer- ence)	PRT	<8 digits>	SYS	Counts the number of output pages con- verted to the standard paper size in the printer function and service technician reference. [Unit. page]	2
1551	Pixel counter	Number of output pages (Service technician refer- ence)	FAX	<8 digits>	SYS	Counts the number of output pages con- verted to the standard paper size in the FAX function and service technician reference. [Unit. page]	2
1553	Pixel counter	Number of output pages (Toner cartridge reference)	PPC	<8 digits>	SYS	Counts the number of output pages con- verted to the standard paper size in the copy function and toner car- tridge reference. [Unit. page]	2
1555	Pixel counter	Number of output pages (Toner cartridge reference)	PRT	<8 digits>	SYS	Counts the number of output pages con- verted to the standard paper size in the printer function and toner car- tridge reference. [Unit. page]	2
1556	Pixel counter	Number of output pages (Toner cartridge reference)	FAX	<8 digits>	SYS	Counts the number of output pages con- verted to the standard paper size in the FAX function and toner car- tridge reference. [Unit. page]	2
1566	Pixel counter	Toner cartridge replace- ment counter	ALL	<3 digits>	SYS	Counts the number of time of the toner car- tridge replacement.	2
1592	Pixel counter	Average pixel count (Service technician refer- ence)	PPC	0 <0- 10000>	SYS	Displays the average pixel count in the copy function and service technician reference. [Unit: 0.01%]	2
1593	Pixel counter	Average pixel count (Service technician refer- ence)	PRT	0 <0- 10000>	SYS	Displays the average pixel count in the printer function and service technician reference. [Unit: 0.01%]	2
		Setting mode (0	8) <e-s1< th=""><th>UDIO200L/</th><th>230/280</th><th>></th><th></th></e-s1<>	UDIO200L/	230/280	>	
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Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
1594	Pixel counter	Average pixel count (Service technician refer- ence)	FAX	0 <0- 10000>	SYS	Displays the average pixel count in the FAX function and service technician reference. [Unit: 0.01%]	2
1595	Pixel counter	Average pixel count (Service technician refer- ence)	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
1606	Pixel counter	Latest pixel count (Service technician refer- ence)	PPC	0 <0- 10000>	SYS	Displays the latest pixel count in the copy func- tion and service techni- cian reference. [Unit: 0.01%]	2
1607	Pixel counter	Latest pixel count (Service technician refer- ence)	PRT	0 <0- 10000>	SYS	Displays the latest pixel count in the printer function and service technician reference. [Unit: 0.01%]	2
1608	Pixel counter	Latest pixel count (Service technician refer- ence)	FAX	0 <0- 10000>	SYS	Displays the latest pixel count in the FAX func- tion and service techni- cian reference. [Unit: 0.01%]	2
1613	Pixel counter	Average pixel count (Toner cartridge reference)	PPC	0 <0- 10000>	SYS	Displays the average pixel count in the copy function and toner car- tridge reference. [Unit: 0.01%]	2
1619	Pixel counter	Average pixel count (Toner cartridge reference)	PRT	0 <0- 10000>	SYS	Displays the average pixel count in the printer function, and toner car- tridge reference. [Unit: 0.01%]	2
1624	Pixel counter	Average pixel count (Toner cartridge reference)	PPC/ PRT/ FAX	0 <0- 10000>	SYS	Displays the average pixel count in the copy/ printer/FAX function and toner cartridge ref- erence. [Unit: 0.01%]	2
1625	Pixel counter	Average pixel count (Toner cartridge reference)	FAX	0 <0- 10000>	SYS	Displays the average pixel count in the FAX function and toner car- tridge reference. [Unit: 0.01%]	2
1634	Pixel counter	Latest pixel count (Toner cartridge reference)	FAX	0 <0- 10000>	SYS	Displays the latest pixel count in the FAX func- tion and toner cartridge reference. [Unit: 0.01%]	2
1639	Pixel counter	Latest pixel count (Toner cartridge reference)	PPC	0 <0- 10000>	SYS	Displays the latest pixel count in the copy func- tion and toner cartridge reference. [Unit: 0.01%]	2

		Set	ting mode (0	8) <e-s1< th=""><th>UDIO200L/</th><th>230/280</th><th>></th><th></th></e-s1<>	UDIO200L/	230/280	>	
					Default			
Code	Classifi-	lten	าร	Func-	<accept-< th=""><th>RAM</th><th>Contents</th><th>Proce-</th></accept-<>	RAM	Contents	Proce-
0000	cation			tion	able	i v din	Contonito	dure
					value>	01/0		
1640	Pixel	Latest pixel co	unt a reference)	PRT	0	SYS	Displays the latest pixel	2
	counter	(Toner cartinug	e relefence)		10000>		function and toner car-	
					10000		tridge reference.	
							[Unit: 0.01%]	
1649-0	Pixel	Pixel count	0-5%	PPC	<8 digits>	SYS	The pixel count data	14
1649-1	counter	distribution	5.1-10%	PPC	<8 digits>	SYS	are divided into 10	14
1649-2			10.1-15%	PPC	<8 digits>	SYS	output pages in each	14
1649-3			15.1-20%	PPC	<8 digits>	SYS	range is displayed. In	14
1649-4			20.1-25%	PPC	<8 digits>	SYS	this code, the distribu-	14
1649-5			25.1-30%	PPC	<8 digits>	SYS	tions in the copy func-	14
1649-6			30.1-40%	PPC	<8 digits>	SYS	tion are displayed.	14
1649-7			40.1-60%	PPC	<8 digits>	SYS		14
1649-8			60.1-80%	PPC	<8 digits>	SYS	-	14
1649-9			80.1- 100%	PPC	<8 digits>	SYS		14
1650-0	Pixel	Pixel count	0-5%	PRT	<8 digits>	SYS	The pixel count data	14
1650-1	counter	distribution	5.1-10%	PRT	<8 digits>	SYS	are divided into 10	14
1650-2			10.1-15%	PRT	<8 digits>	SYS	output pages in each	14
1650-3			15.1-20%	PRT	<8 digits>	SYS	range is displayed. In	14
1650-4			20.1-25%	PRT	<8 digits>	SYS	this code, the distribu-	14
1650-5			25.1-30%	PRT	<8 digits>	SYS	tions in the printer func-	14
1650-6			30.1-40%	PRT	<8 digits>	SYS	tion are displayed.	14
1650-7			40.1-60%	PRT	<8 digits>	SYS		14
1650-8			60.1-80%	PRT	<8 digits>	SYS		14
1650-9			80.1-	PRT	<8 digits>	SYS		14
1051.0	Dival	Divel count	100%		<0 disitas	CVC	The rivel equat date	14
1651-0	Counter	distribution	0-5%		<8 digits>	SYS	are divided into 10	14
1651-1	counter	distribution	5.1-10%		<8 digits>	515	ranges. The number of	14
1651.2			10.1-15%		<0 uigits>	515 6V6	output pages in each	14
1651-3			10.1-20%		<pre>>0 uiyits></pre>	010 6V6	range is displayed. In	14
1651 5			20.1-20%		<pre>>o uiyits></pre>	010 979	tions in the EAX func	14
1651_6			30 1-40%	FAY	<8 digite>	010 QVQ	tion are displayed.	14
1651_7			40 1-60%	FAY	<8 digite>	010 QVQ	[Unit: page]	14
1651_8			60 1-80%	FAX	<8 diaite>	272		14
1651-0			80.1-0070	FAX	<8 dinite>	SYS	-	14
1001-9			100%			010		14

<<PM support mode related code>>

 The management items at PM support mode can also be operated at setting mode (08). The following items are displayed or set by using sub-codes at PM management setting in the table below.

<Sub-codes>

- 0: Present number of output pages
- Means the present number of output pages.
- 1: Recommended number of output pages for replacement
 - Means the recommended number of output pages for replacement.
- 2: Number of output pages at the last replacement
 - Means the number of output pages at the last replacement.
- 3: Present driving counts
 - Means the present drive counts (1 count = 2 seconds).
- 4: Recommended driving counts to be replaced
 - Means the recommended drive counts for replacement (1 count = 2 seconds).
- 5: Driving counts at the last replacement
 - Means the drive counts at the last replacement.
- 6: Present output pages for control
 - Means the present number of output pages for controlling.
- 7: Present driving counts for control
 - Means the present drive counts for controlling (1 count = 2 seconds).
- 8: Number of times replaced
 - Counts up when clearing the counter of each unit in the PM Support Mode Screen.

Notes:

- Sub-code 3 is equivalent to sub-code 7.
- When the value of sub-code 3 is changed, the value of sub-code 7 is also updated and vice versa.
- When "0" is set at one of sub-codes 0, 3, 6 and 7, the rest of them are automatically updated to "0".

Items	PM management set- ting <procedure 4=""> *Indicated in 8 digits</procedure>	Date of previous replacement <procedure 2=""></procedure>	Remarks
Photoconductive drum	1150-0 to 8	1151	<default 1150<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0/0 Sub-code 1: 64,000/74,000/90,000 Sub-code 4: 120,000/120,000/120,000</default>
Drum cleaning blade	1158-0 to 8	1159	<default 1158<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0/0 Sub-code 1: 64,000/74,000/90,000 Sub-code 4: 120,000/120,000/120,000</default>
Drum separation finger	1172-0 to 8	1173	<default 1172<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0/0 Sub-code 1: 64,000/74,000/90,000 Sub-code 4: 120,000/120,000/120,000</default>
Main charger grid	1174-0 to 8	1175	<default 1174<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0/0 Sub-code 1: 64,000/74,000/90,000 Sub-code 4: 120,000/120,000/120,000</default>
Needle electrode	1182-0 to 8	1183	<default 1182<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0/0 Sub-code 1: 64,000/74,000/90,000 Sub-code 4: 120,000/120,000/120,000</default>
Ozone filter	1198-0 to 8	1199	<default 1198<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0/0 Sub-code 1: 128,000/148,000/180,000 Sub-code 4: 240,000/240,000/240,000</default>
Developer material	1200-0 to 8	1201	<default 1200<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0/0 Sub-code 1: 64,000/74,000/90,000 Sub-code 4: 120,000/120,000/120,000</default>
Transfer charger wire	1214-0 to 8	1215	<default 1214<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0/0 Sub-code 1: 64,000/74,000/90,000 Sub-code 4: 120,000/120,000/120,000</default>
Separation charger wire	1224-0 to 8	1225	<default 1224<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0/0 Sub-code 1: 64,000/74,000/90,000 Sub-code 4: 120,000/120,000/120,000</default>
Fuser roller	1246-0 to 8	1247	<default 1246<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0/0 Sub-code 1: 128,000/148,000/180,000 Sub-code 4: 240,000/240,000/240,000</default>
Pressure roller	1250-0 to 8	1251	<default 1250<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0/0 Sub-code 1: 128,000/148,000/180,000 Sub-code 4: 240,000/240,000/240,000</default>

Items	PM management set- ting <procedure 4=""> *Indicated in 8 digits</procedure>	Date of previous replacement <procedure 2=""></procedure>	Remarks
Cleaning roller	1266-0 to 8	1267	<default 1266<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0/0 Sub-code 1: 128,000/148,000/180,000 Sub-code 4: 240,000/240,000/240,000</default>
Fuser roller separation finger	1268-0 to 8	1269	<default 1268<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0/0 Sub-code 1: 128,000/148,000/180,000 Sub-code 4: 240,000/240,000/240,000</default>
Pickup roller (RADF)	1282-0,1,2,8	1283	<default 1282<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 120,000/120,000/120,000</default>
Feed roller (RADF)	1284-0,1,2,8	1285	<default 1284<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 120,000/120,000/120,000</default>
Separation roller (RADF)	1286-0,1,2,8	1287	<default 1286<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 120,000/120,000/120,000</default>
Pickup roller (Upper drawer)	1290-0,1,2,8	1291	<default 1290<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default>
Pickup roller (Lower drawer)	1292-0,1,2,8	1293	<default 1292<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default>
Pickup roller (LCF)	1294-0,1,2,8	1295	<default 1294<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 160,000/160,000/160,000</default>
Feed roller (Upper drawer)	1298-0,1,2,8	1299	<default 1298<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default>
Feed roller (Lower drawer)	1300-0,1,2,8	1301	<default 1300<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default>
Feed roller (LCF)	1302-0,1,2,8	1303	<default 1302<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 160,000/160,000/160,000</default>
Separation roller (Upper drawer)	1306-0,1,2,8	1307	<default 1306<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default>
Separation roller (Lower drawer)	1308-0,1,2,8	1309	<default 1308<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default>

Items	PM management set- ting <procedure 4=""> *Indicated in 8 digits</procedure>	Date of previous replacement <procedure 2=""></procedure>	Remarks
Separation roller (LCF)	1310-0,1,2,8	1311	<default 1310<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 160,000/160,000/160,000</default>
Separation roller (PFP upper drawer)	1312-0,1,2,8	1313	<default 1312<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default>
Separation roller (PFP lower drawer)	1314-0,1,2,8	1315	<default 1314<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default>
Separation roller (Bypass unit)	1316-0,1,2,8	1317	<default 1316<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default>
Feed roller (PFP upper drawer)	1320-0,1,2,8	1321	<default 1320<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default>
Feed roller (PFP lower drawer)	1322-0,1,2,8	1323	<default 1322<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default>
Feed roller (Bypass unit)	1324-0,1,2,8	1325	<default 1324<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default>
Pickup roller (PFP upper drawer)	1328-0,1,2,8	1329	<default 1328<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default>
Pickup roller (PFP lower drawer)	1330-0,1,2,8	1331	<default 1330<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default>
Pickup roller (Bypass unit)	1332-0,1,2,8	1333	<default 1332<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default>
Recovery blade	1336-0 to 8	1337	<default 1336<br="" code="" of="" values="">(e-STUDIO200L/230/230L/280)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0/0 Sub-code 1: 64,000/74,000/90,000 Sub-code 4: 120,000/120,000/120,000</default>

<< Procedure to copy the total counter value (08-257)>>

- (1) Turn ON the power while [0] and [8] are pressed simultaneously.
- (2) Key in the code "257" with the digital keys and press the [START] button (the following is displayed).

Note:

Before performing the following operations, note the current counter values.

0% 257 System Mode	
99999999 999999999	
CANCEL	

Fig. 2-4

- (3) Key in the value "1" or "2" with the digital key and press the [START] button.
- The value entered is displayed on the left of the "%", and the [ENTER] button is displayed. **Note:**

The value can be erased by pressing the [CLEAR] button to change as long as the [START] button is not pressed. (The value on the left of the "%" is reset to "0" by pressing the [CLEAR] button.)

 Key in "1" to copy the value of the total counter (LGC board) (A) onto the value of the backup counter (SYS board) (B).

<u>1 %</u> system Mc 999999999>	257] DE 999999999
(A)	(B)
CANCEL	ENTER

Fig. 2-5

 Key in "2" to copy the value of the backup counter (SYS board) (B) onto the value of the total counter (LGC board) (A).



Fig. 2-6

(4) Press the [ENTER] button to complete overwriting of the counter value.

Note:

The screen returns to the code entry screen without copying (overwriting) the value when the [CANCEL] button is pressed.

2.2.8 Setting mode (08) (e-STUDIO202L/203L/232/233/282/283)







Procedure 14



Notes:

- The digit after the hyphen in "Code" of the following table is a sub code.

• e-STUDIO202L/203L/232/233/282/283: In "RAM", the NVRAM of the board in which the dataof each code is stored is indicated. "M" stands for the LGC board, "SYS", "NIC" and "UTY" stands for the SYS board.

Setting mode (vo) <e-3 203l="" 233="" 282="" 283="" i="" udio202l=""> Dofault</e-3>							
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
200	General	Date and time setting	ALL	- <13 dig- its>	-	Year/month/date/day/ hour/minute/second Example: 03 07 0 13 13 27 48 "Day" - "0" is for "Sunday". Pro- ceeds Monday through Saturday from "1" to "6".	5
201	General	Destination selection	ALL	EUR: 0 UC: 1 JPN: 2 <0-2>	М	0: EUR 1: UC 2: JPN	1
202	User interface	Counter installed externally	ALL	0 <0-3>	Μ	 0: No external counter 1: Coin controller 2: Copy key card (This value is valid only when "2" is set to 08-201.) 3: Key copy counter 	1
203	General	Line adjustment mode	ALL	0 <0-1>	М	 0: For factory ship- ment 1: For line * Field: "0" must be selected 	1
204	User interface	Auto-clear timer setting	ALL	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
205	User interface	Auto power save mode timer setting	ALL	EUR: 11 UC: 11 JPN: 6 Others: 11 <0, 6-15>	SYS	Timer to automatically switch to the Auto power save mode when the equipment has not been used 0: Invalid 6: 3min. 7: 4min. 8: 5min. 9: 7min. 10: 10min. 11: 15min. 12: 20min. 13: 30min. 14: 45min. 15: 60min.	1

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/23</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/23	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
206	User interface	Auto Shut Off Mode timer setting (Auto Shut Off Mode/Sleep Mode)	ALL	Refer to content <0-20>	SYS	Timer to turn OFF the power or to enter the Sleep Mode automati- cally when the equip- ment has not been used (Refer to 08-601) 0: 3min. 1: 5min. 2: 10min. 3: 15min. 4: 20min. 5: 25min. 6: 30min. 7: 40min. 8: 50min. 9: 60min. 10: 70min. 11: 80min. 12: 90min. 13: 100min. 14: 110min. 15: 120min. 16: 150min. 17: 180min. 18: 210min. 18: 210min. 19: 240min. 20: Not used <default value=""> e-STUDIO232/233/282/ 283: TWD/KRD: 9 Others: 0 e-STUDIO202L/203L: TWD/KRD: 6 Others: 0</default>	1
207	User interface	Highlighting display on LCD	ALL	0 <0-1>	SYS	 Black letter on white background White letter on black background 	1
209	User interface	Default setting of filing for- mat when E-mailing	ALL	0 <0-6>	SYS	0: TIFF (Multi) 1: PDF (Multi) 2: Not used 3: TIFF (Single) 4: PDF (Single) 5: XPS (Multi) 6: XPS (Single)	1
210	Paper feeding	Paper size (A6-R) feeding/ widthwise direction	PRT	148/105 <148- 432/105- 297>	М		10
213	User interface	Display of [REVERSE ORDER] button	ALL	0 <0-1>	SYS	0: Not displayed 1: Displayed	1
219	User interface	Default setting of filing for- mat when storing files	SCN	0 <0-6>	SYS	0: TIFF (Multi) 1: PDF (Multi) 2: Not used 3: TIFF (Single) 4: PDF (Single) 5: XPS (Multi) 6: XPS (Single)	1

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
				Default			
Code	Classifi-	Itoms	Func-	<accept-< th=""><th>RAM</th><th>Contents</th><th>Proce-</th></accept-<>	RAM	Contents	Proce-
ooue	cation	items	tion	able		Contenta	dure
				value>			
220	User	Language displayed at	ALL	EUR: 0	SYS	0: Language 1	1
	Internace	power-ON				1: Language 2	
				JPN. 5			
				<0-0>		4: Language 5	
						5: Language 6	
						6: Language 7	
221	User	Language selection in UI	ALL	EUR: 0	SYS	0: Language 1	1
	interface	data at Web power ON		UC: 0		1: Language 2	
				JPN: 5		2: Language 3	
				<0-6>		3: Language 4	
						4: Language 5	
						5: Language 6	
224	Dapar	Dapar aiza far hypaga food	DDC		eve	0. Language 7	0
224	feeding		PPC	UNDEF	515	LCD to select the size.	9
225	Paper	Paper size for upper	ALL	EUR: A4	М	Press the button on the	9
	reeding	drawer				LCD to select the size.	
226	Dapar	Dapar aiza far lawar	AL 1		N/	Droop the button on the	0
220	feeding	drawer	ALL		IVI	I CD to select the size	9
	leconig	didwei		JPN: A3			
227	Paper	Paper size for PEP upper	ALL	FUR:	М	Press the button on the	9
	feeding	drawer		A4-R		LCD to select the size.	· ·
	U			UC:			
				LT-R			
				JPN:			
				A4-R			
228	Paper	Paper size for PFP lower	ALL	EUR: A4	M	Press the button on the	9
	reeding	drawer				LCD to select the size.	
220	Daner	Paper size (A3) feeding/		JI N. D4	М		10
223	feeding	widthwise direction	ALL	<182-	IVI		10
	looding			432/140-			
				297>			
230	Paper	Paper size (A4-R) feeding/	ALL	297/210	М		10
	feeding	widthwise direction		<182-			
				432/140-			
				297>			
231	Paper	Paper size (A5-R) feeding/	ALL	210/148	M		10
	feeding	widthwise direction		<182-			
				432/140-			
222	Dapor	Paper size (R4) feeding/	AL 1	2512	M		10
232	feeding	widthwise direction	ALL	<182-	IVI		10
	localing			432/140-			
				297>			
233	Paper	Paper size (B5-R) feeding/	ALL	257/182	М		10
	feeding	widthwise direction		<182-			
	_			432/140-			
				297>			
234	Paper	Paper size (LT-R) feeding/	ALL	279/216	М		10
	feeding	widthwise direction		<182-			
				432/140-			
				297>			

2 - 157 05/11

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>									
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure		
235	Paper feeding	Paper size (LD) feeding/ widthwise direction	ALL	432/279 <182- 432/140- 297>	М		10		
236	Paper feeding	Paper size (LG) feeding/ widthwise direction	ALL	356/216 <182- 432/140- 297>	М		10		
237	Paper feeding	Paper size (ST-R) feeding/ widthwise direction	ALL	216/140 <182- 432/140- 297>	М		10		
238	Paper feeding	Paper size (COMPUTER) feeding/widthwise direction	ALL	356/257 <182- 432/140- 297>	М		10		
239	Paper feeding	Paper size (FOLIO) feed- ing/widthwise direction	ALL	330/210 <182- 432/140- 297>	М		10		
240	Paper feeding	Paper size (13" LG) feed- ing/widthwise direction	ALL	330/216 <182- 432/140- 297>	М		10		
241	Paper feeding	Paper size (8.5"X8.5") feeding/widthwise direction	ALL	216/216 <182- 432/140- 297>	М		10		
242	Paper feeding	Paper size (Non-standard) feeding/widthwise direction	ALL	432/279 <148- 432/105- 297>	SYS		10		
243	Paper feeding	Memory 1 Paper size (bypass feed- ing/non-standard type) feeding/widthwise direction	ALL	148/100 <148- 432/100- 297>	SYS	Registers the paper size of bypass feed (non-standard type) into [MEMORY 1].	10		
244	Paper feeding	Paper size (8K) feeding/ widthwise direction	ALL	390/270 <182- 432/140- 297>	М		10		
245	Paper feeding	Paper size (16K-R) feed- ing/widthwise direction	ALL	270/195 <182- 432/140- 297>	М		10		
247	Paper feeding	Memory 2 Paper size (bypass feed- ing/non-standard type) feeding/widthwise direction	ALL	148/100 <148- 432/100- 297>	SYS	Registers the paper size of bypass feed (non-standard type) into [MEMORY 2].	10		
248	Paper feeding	Memory 3 Paper size (bypass feed- ing/non-standard type) feeding/widthwise direction	ALL	148/100 <148- 432/100- 297>	SYS	Registers the paper size of bypass feed (non-standard type) into [MEMORY 3].	10		
249	Paper feeding	Memory 4 Paper size (bypass feed- ing/non-standard type) feeding/widthwise direction	ALL	148/100 <148- 432/100- 297>	SYS	Registers the paper size of bypass feed (non-standard type) into [MEMORY 4].	10		

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
250	Mainte- nance	Service technician tele- phone number	ALL	0 <32 dig- its>	SYS	A telephone number can be entered up to 32 digits. Use the [Monitor/ Pause] button to enter a hyphen (-).	11
251	Mainte- nance	Setting value of PM sheet counter	ALL	Refer to content <8 digits>	М	<pre><default> e-STUDIO200L UC, EUR: 64,000 JPN: 0 e-STUDIO 230 UC, EUR: 74,000 JPN: 0 e-STUDIO 280 UC, EUR: 90,000 JPN: 0</default></pre>	1
252	Mainte- nance	Current value of PM driving counter Display/0 clearing	ALL	0 <8 digits>	М	Counts up when the registration sensor is ON.	1
253	Mainte- nance	Error history display	ALL	-	SYS	Displaying of the latest 20 errors data	2
254	Paper feeding	LT <-> A4/LD <-> A3	PRT	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

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/23</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/23	32/233/2	282/283>	
Code	Classifi-	Items	Func-	Default <accept-< th=""><th>RAM</th><th>Contents</th><th>Proce-</th></accept-<>	RAM	Contents	Proce-
	cation		tion	abie value>			aure
255	Paper feeding	PFP/LCF installation	ALL	value> 0 <0-4, 16-20, 32-36>	M	Sets the installation sta- tus of the PFP or LCF, and also disables its functions and the lower drawer of the equip- ment. When "0" is set at 08- 477, specify the value from 1 to 4 or 16 to 20, and when "1" is set at 08-477, specify the value only from 32 to 36. 0: Auto When only the upper drawer is installed as the paper feeder of the equipment. 1: PFP upper-drawer type installed 2: PFP upper-drawer and lower-drawer type installed 3: LCF installed 4: Disables PFP or LCF When the upper and lower drawers are installed as the paper feeder of the equip- ment. 16: PFP and LCF not installed 17: PFP upper-drawer type installed 18: PFP upper-drawer and lower-drawer stype installed 19: LCF installed 19: LCF installed 20: Disables functions of PFP or LCF Disables the lower drawer when the upper and lower drawers are installed as the paper feeder of the equip- ment. 32: PFP and LCF not installed 33: PFP upper-drawer and lower-drawer type installed 34: PFP upper-drawer and lower-drawer are installed 35: LCF installed 36: Disables functions of DFP or LCF Disables the lower drawer when the upper and lower-drawer are installed 36: DFP upper-drawer and lower-drawer and lower-drawer and lower-drawer and lower-drawer and lower-drawer are installed 35: LCF installed 36: Disables functions	1
256	Paper feeding	Paper size setting /LCF	ALL	EUR: A4 UC: LT JPN: A4	М	Press the button on the LCD to select the size.	9

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		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
257	Counter	Counter copy	ALL	- <1-2>	-	 Electrical counter →Backup counter (NVRAM →SRAM) Backup counter → Electrical counter (SRAM →NVRAM) (P. 2-262 "Fig. 2-7") 	-
258	Mainte- nance	FSMS acceptance	ALL	1 <0-2>	SYS	Sets whether the FSMS connection is accepted or not. 0: Prohibited 1: Accepted (USB nor- mal connection) 2: Accepted (USB forcible connection)	1
259	Network	Storage period trial and private	PRT	14 <0-35>	SYS	0: No limits 1 to 30: 1 to 30 days 31: 1hour 32: 2hours 33: 4hours 34: 8hours 35: 12hours	1
260	Network	Web data retention period	SCN	10 <3 digits>	SYS	When a certain period of time has passed without operation after accessing TopAccess, the data being regis- tered is automatically reset. This period is set at this code. (Unit: Minute)	1
263	User interface	Administrator's password (Maximum 10 digits)	ALL	123456 <10 digits>	-	The password can be entered in alphabets and figures (A-Z, a-z, 0- 9) within 10 digits.	11
264	Network	File retention period	SCN	30 <0-999>	SYS	0: No limits 1 to 999: 1 to 999 days	1
265	Network	Maximum data capacity at E-mailing	SCN	30 <2-30>	SYS	2 to 30 M bytes	1
266	Network	Maximum data capacity at Internet FAX	ALL	30 <2-30>	SYS	2 to 30 M bytes	1

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
267	Elec- tronic Filing	Full guarantee of docu- ments in Electronic Filing when HDD is full	ALL	1 <0-1>	SYS	Sets the file retention level when editing the files in the Electronic Filing (at CutDoc/Save- Doc command execu- tion). 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 exe- cution of command when "1" is set.	1
270	Elec- tronic Fil- ing	Default value for user box retention period	ALL	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
271	General	Warning notification of the File Share and e-Filling partitions are filled	ALL	90 <0-100>	SYS	Sets the percentage of HDD partition filled when warning notifica- tion is sent. 0 to 100: 0 to 100% * Related code 08- 288	1
272	Scanning	Notification setting of E- mail saving time limit	ALL	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
273	Scanning	Default setting of partial size when transmitting E- mail	ALL	0 <0-6>	SYS	Sets the default value for the partial size of E- mail to be transmitted when creating a tem- plate. 0: Not divided 1: 64 2: 128 3: 256 4: 512 5: 1024 6: 2048 (Unit: KB)	1
274	FAX	Default setting of page by page when transmitting Internet FAX	FAX	0 <0-4>	SYS	Sets the default value for the page by page of Internet FAX to be transmitted when creat- ing a template. 0: Not divide 1: 128 2: 512 3: 1024 4: 2048 (Unit: KB)	1

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
				Default			
Codo	Classifi-	Itomo	Func-	<accept-< th=""><th>DAM</th><th>Contonto</th><th>Proce-</th></accept-<>	DAM	Contonto	Proce-
Code	cation	nems	tion	able	RAIN	Contents	dure
				value>			
276	User interface	Default setting for density adjustment	SCN	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	1
						8: Step +2 9: Step +3 10: Step +4 11: Step +5 (1 to 11: Manual den- sity)	
281	User interface	Default setting of resolution	SCN	1 <0-4>	SYS	0: 150 dpi 1: 200 dpi 2: 300 dpi 3: 400dpi 4: 600 dpi	1
283	User interface	Default setting of original mode	SCN	0 <0-2>	SYS	0: Text 1: Text/Photo 2: Photo	1
284	User interface	Default setting of scanning mode	SCN	0 <0-2>	SYS	0: Single 1: Book 2: Tablet	1
285	User interface	Default setting of rotation angle of original	SCN	0 <0-3>	SYS	0: 0 degree 1: 90 degrees 2: 180 degrees 3: 270 degrees	1
286	User interface	Default setting of original paper size	SCN	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
288	General	Searching interval of delet- ing expired flies and check- ing capacity of HDD partitions	ALL	12 <1-24>	SYS	Sets the search inter- val of deleting expired files and checking capacity of HDD parti- tion. (Unit: Hour) * Related code 08- 271	1
290	Network	Raw printing job (Duplex)	PRT	1 <0-1>	SYS	0: Valid 1: Invalid	1
291	Network	Raw printing job (Paper size)	PRT	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

2

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
292	Network	Raw printing job (Paper type)	PRT	0 <0-5>	SYS	0: Plain paper 1: Thick paper 1 2: Thick paper 2 3: Thick paper 3 4: OHP film 5: Tab paper	1
293	Network	Raw printing job (Paper direction)	PRT	0 <0-1>	SYS	0: Portrait 1: Landscape	1
294	Network	Raw printing job (Staple)	PRT	1 <0-1>	SYS	0: Valid 1: Invalid	1
295	Network	Raw printing job (receiving tray)	PRT	0 <0-5>	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 Sepa- rator (MJ-5004) is installed. 	1
296	Network	Raw printing job (Number of form lines)	PRT	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
297	Network	Raw printing job (PCL font pitch)	PRT	1000 <44- 9999>	SYS	Sets the font pitch from 0.44 to 99.99. (A hun- dredfold of the font pitch is defined as the setting value.)	1
298	Network	Raw printing job (PCL font size)	PRT	1200 <400- 99975>	SYS	Sets the font size from 4 to 999.75. (A hun- dredfold of the font size is defined as the setting value.)	1
299	Network	Raw printing job (PCL font number)	PRT	0 <0-79>	SYS	Sets the PCL font num- ber.	1
300	User interface	Maximum number of copy volume (MAX9)	PPC	0 <0-2>	SYS	0: 999 1: 99 2: 9	1
302	User interface	Original counter display	ALL	EUR: 2 UC: 0 JPN: 0 <0,2,4>	SYS	Sets whether the origi- nal counter is dis- played or not. 0: Not displayed 2: Displayed 4: Displayed (Double- sized original is counted as 2.)	1

		Setting mo	de (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
					Default			
Code	Classifi-	ltem	9	Func-	<accept-< th=""><th>RAM</th><th>Contents</th><th>Proce-</th></accept-<>	RAM	Contents	Proce-
0000	cation			tion	able	1 V MI	Contonito	dure
	-				value>		-	
305-0	Counter	Number of	A3	PPC	0	SYS	Counts the output	4
305-1	_	output pages	A4	-	<8 algits>		pages in the copier	
305-2		tion	A5				size according to the	
305-3			A6				setting for the count	
305-4			B4				setting of large-sized	
305-5			B5				paper (08-352) and the	
305-6			FOLIO				definition setting of large sized paper (08-	
305-7			LD				353).	
305-8			LG				000).	
305-9			LT					
305-10			ST					
305-11			COMP					
305-12			13"LG					
305-13			8.5" x 8.5"					
305-14			16K					
305-15			8K					
305-16			Others					
306-0	Counter	Number of	A3	PRT	0	SYS	Counts the output	4
306-1		output pages	A4		<8 aigits>		pages in the printer	
306-2		tion	A5				size according to the	
306-3			A6				setting for the count	
306-4			B4				setting of large-sized	
306-5			B5				paper (08-352) and the	
306-6			FOLIO				large-sized paper (08-	
306-7			LD				353).	
306-8			LG					
306-9			LT					
306-10			ST					
306-11			COMP					
306-12			13"LG					
306-13			8.5" x 8.5"					
306-14			16K					
306-15			8K					
306-16			Others					

		Setting mo	de (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/23</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/23	32/233/2	282/283>	
					Default			
Code	Classifi-	ltem	IS	Func-	<accept-< th=""><th>RAM</th><th>Contents</th><th>Proce-</th></accept-<>	RAM	Contents	Proce-
	cation			tion	able			dure
				DDT	value>	0.40	0 • • • • •	
307-0	Counter	Number of	A3	PRI	0 <9 digita>	SYS	Counts the output	4
307-1	-	at list print	A4		 o uigits 		mode for each naner	
307-2	-	mode	A5				size according to the	
307-3	-		A6				setting for the count	
307-4	-		B4				setting of large-sized	
307-5	-		B5				paper (08-352) and the	
307-6	-		FOLIO				large-sized paper (08-	
307-7	-		LD				353).	
307-8	-		LG					
307-9	-		LT					
307-10	_		ST					
307-11	_		COMP					
307-12	_		13"LG					
307-13			8.5" x 8.5"					
307-14			16K					
307-15			8K					
307-16			Others					
308-0	Counter	Number of	A3	FAX	0	SYS	Counts the output	4
308-1		output pages	A4		<8 digits>		pages in the FAX func-	
308-2		tion	A5				according to the setting	
308-3		tion	A6				for the count setting of	
308-4			B4				large-sized paper (08-	
308-5			B5				352) and the definition	
308-6			FOLIO				setting of large-sized	
308-7			LD				paper (08-353).	
308-8			LG					
308-9			LT					
308-10			ST					
308-11			COMP					
308-12	1		13"LG					
308-13	1		8.5" x 8.5"	1				
308-14	1		16K					
308-15	1		8K					
308-16	1		Others					

		Setting mo	ode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/23</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/23	32/233/2	282/283>	
					Default			
Codo	Classifi-	lton	ne	Func-	<accept-< th=""><th>Рлм</th><th>Contonte</th><th>Proce-</th></accept-<>	Рлм	Contonte	Proce-
Code	cation	iten	15	tion	able		Contents	dure
					value>			
312-0	Counter	Number of	A3	PPC	0	SYS	Counts the scanning	4
312-1		scanning	A4		<8 digits>		pages in the copier	
312-2		pages in	A5				size according to the	
312-3		tion	A6				setting for the count	
312-4			B4				setting of large-sized	
312-5			B5				paper (08-352) and the	
312-6			FOLIO				definition setting of	
312-7			LD				353)	
312-8			LG				000).	
312-9			LT					
312-10			ST					
312-11			COMP					
312-12			13"LG					
312-13			8.5" x 8.5"					
312-14			16K					
312-15			8K					
312-16			Others					
313-0	Counter	Number of	A3	SCN	0	SYS	Counts the scanning	4
313-1		scanning	A4		<8 digits>		pages in the scanning	
313-2		scanning	A5				size according to the	
313-3		function	A6				setting for the count	
313-4	_		B4				setting of large-sized	
313-5	_		B5				paper (08-352) and the	
313-6	_		FOLIO				definition setting of	
313-7	_		LD				353)	
313-8	_		LG					
313-9	_		LT					
313-10			ST					
313-11			COMP					
313-12			13"LG					
313-13			8.5" x 8.5 ["]					
313-14			16K					
313-15			8K					
313-16			Others					

		Setting mo	de (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/23</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/23	32/233/2	282/283>	
					Default			
Code	Classifi-	Item	IS	Func-	<accept-< th=""><th>RAM</th><th>Contents</th><th>Proce-</th></accept-<>	RAM	Contents	Proce-
	cation			tion	able			dure
011.0				= • > /	value>	0.40	0 1 11	
314-0	Counter	Number of	A3	FAX	0 ∠9 digita>	SYS	Counts the scanning	4
314-1	-	nages in FAX	A4	-	<o uigits=""></o>		tion for each naner size	
314-2		function	A5				according to the setting	
314-3			A6				for the count setting of	
314-4			B4				large-sized paper (08-	
314-5			B5				352) and the definition	
314-6			FOLIO				setting of large-sized	
314-7			LD				paper (00-353).	
314-8			LG					
314-9			LT					
314-10			ST					
314-11			COMP					
314-12			13"LG					
314-13			8.5" x 8.5"					
314-14			16K					
314-15			8K					
314-16			Others					
315-0	Counter	Number of	A3	FAX	0	SYS	Counts the transmitted	4
315-1		transmitted	A4		<8 digits>		pages in the FAX func-	
315-2		function	A5				tion for each paper size	
315-3		Turiction	A6				for the count setting of	
315-4			B4				large-sized paper (08-	
315-5			B5				352) and the definition	
315-6			FOLIO				setting of large-sized	
315-7			LD				paper (08-353).	
315-8			LG					
315-9			LT					
315-10			ST					
315-11	1		COMP	1				
315-12	1		13"LG	1				
315-13	1		8.5" x 8.5"	1				
315-14	1		16K	1				
315-15	1		8K	1				
315-16			Others	1				

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""> Default</e-studio202l>										
	Classifi-			Func-	Default <accept-< th=""><th></th><th>-</th><th>Proce-</th></accept-<>		-	Proce-		
Code	cation	Item	S	tion	able	RAM	Contents	dure		
	-				value>		-			
316-0	Counter	Number of	A3	FAX	0 <9 digita>	SYS	Counts the received	4		
316-1		pages in FAX	A4				tion for each paper size			
310-2		function	AS				according to the setting			
316-4			A0 B4				for the count setting of			
316-5			B5				352) and the definition			
316-6			FOLIO				setting of large-sized			
316-7			LD				paper (08-353).			
316-8			LG							
316-9			LT							
316-10			ST							
316-11			COMP							
316-12			13"LG							
316-13			8.5" x 8.5"							
316-14			16K							
316-15			8K Othere							
310-10	Countor	Display of	Uners	DDC	0	976	Counts the number of	14		
320-0	Counter	number of output pages in copier func- tion	Laige	FFC	<8 digits>	515	output pages in the Copier Function according to its size (large/small). Large:	14		
320-1	Counter		Small	PPC	0 <8 digits>	SYS	Number of output pages of large-sized paper defined at 08- 353	14		
320-2	Counter		Total	PPC	0 <8 digits>	SYS	Small: Number of output pages other than set as large-sized paper Total: Total number out- put pages of all paper sizes.	14		
321-0	Counter	Display of number of output pages in printer func- tion	Large	PRT	0 <8 digits>	SYS	Counts the number of output pages in the Printer Function according to its size (large/small). Large:	14		
321-1	Counter		Small	PRT	0 <8 digits>	SYS	Number of output pages of large-sized paper defined at 08- 353 Small: Number of output	14		
321-2	Counter		Total	PRT	0 <8 digits>	SYS	rayes other than set as large-sized paper Total: Total number out- put pages of all paper sizes.	14		

2

		Setting mo	de (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/23</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/23	32/233/2	282/283>	
Code	Classifi- cation	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
322-0	Counter	Display of number of output pages at list print mode	Large	PRT	0 <8 digits>	SYS	Counts the number of output pages at the List Print Mode Function according to its size (large/small). Large:	14
322-1	Counter		Small	PRT	0 <8 digits>	SYS	Number of output pages of large-sized paper defined at 08- 353 Small: Number of output	14
322-2	Counter		Total	PRT	0 <8 digits>	SYS	pages other than set as large-sized paper Total: Total number out- put pages of all paper sizes.	14
323-0	Counter	Display of number of output pages in FAX func- tion	Large	PRT	0 <8 digits>	SYS	Counts the number of output pages in the FAX Function according to its size (large/small). Large: Number of output	14
323-1	Counter		Small	PRT	0 <8 digits>	SYS	pages of large-sized paper defined at 08- 353 Small: Number of output pages other than	14
323-2	Counter		Total	PRT	0 <8 digits>	SYS	set as large-sized paper Total: Total number out- put pages of all paper sizes.	14
327-0	Counter	Display of number of scanning pages in copier func- tion	Large	PPC	0 <8 digits>	SYS	Counts the number of scanning pages in the Copier Function according to its size (large/small). Large:	14
327-1	Counter		Small	PPC	0 <8 digits>	SYS	Number of output pages of large-sized paper defined at 08- 353 Small: Number of output	14
327-2	Counter		Total	PPC	0 <8 digits>	SYS	pages other than set as large-sized paper Total: Total number out- put pages of all paper sizes.	14

		Setting mo	de (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/23</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/23	32/233/2	282/283>	
Code	Classifi- cation	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
328-0	Counter	Display of number of scanning pages in FAX function	Large	FAX	0 <8 digits>	SYS	Counts the number of scanning pages in the FAX Function according to its size (large/small). Large: Number of output	14
328-1	Counter	-	Small	FAX	0 <8 digits>	SYS	pages of large-sized paper defined at 08- 353 Small: Number of output pages other than	14
328-2	Counter		Total	FAX	0 <8 digits>	SYS	set as large-sized paper Total: Total number out- put pages of all paper sizes.	14
329-0	Counter	Display of number of scanning pages in scanning function	Large	SCN	0 <8 digits>	SYS	Counts the number of scanning pages in the Scanning Function according to its size (large/small). Large:	14
329-1	Counter		Small	SCN	0 <8 digits>	SYS	Number of output pages of large-sized paper defined at 08- 353 Small: Number of output	14
329-2	Counter		Total	SCN	0 <8 digits>	SYS	pages other than set as large-sized paper Total: Total number out- put pages of all paper sizes.	14
330-0	Counter	Display of number of transmitted pages in FAX function	Large	FAX	0 <8 digits>	SYS	Counts the number of transmitted pages in the FAX Function according to its size (large/small). Large: Number of output	14
330-1	Counter		Small	FAX	0 <8 digits>	SYS	pages of large-sized paper defined at 08- 353 Small: Number of output pages other than	14
330-2	Counter		Total	FAX	0 <8 digits>	SYS	Total: Total number out- put pages of all paper sizes.	14

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>									
Code	Classifi- cation	Iten	IS	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure	
331	User interface			ALL	0 <0-5>	SYS	Sets the screen to be displayed after the auto-clear time has passed or it has recov- ered from the energy saving mode or sleep mode. 0: Copier 1: Fax 2: Scan 3: Box 4: Job Status 5: Template	1	
332-0	Counter	Display of number of received pages in FAX function	Large	FAX	0 <8 digits>	SYS	Counts the number of received pages in the FAX Function according to its size (large/small). Large: Number of output	14	
332-1	Counter		Small	FAX	0 <8 digits>	SYS	pages of large-sized paper defined at 08- 353 Small: Number of output pages other than	14	
332-2	Counter		Total	FAX	0 <8 digits>	SYS	set as large-sized paper Total: Total number out- put pages of all paper sizes.	14	
335-0	Counter	Display of total number	Large	ALL	0 <8 digits>	SYS	Displays the total num- ber of pages in the	14	
335-1	Counter	of pages	Small	ALL	0 <8 digits>	SYS	FAX functions.	14	
335-2	Counter		Total	ALL	0 <8 digits>	SYS		14	
337	Paper feeding	Paper size (#1 feeding/widthw	0-R) ise direction	ALL	241/105 <148- 432/105- 297>	М		10	
338	Paper feeding	Paper size (DL feeding/widthw	-R) ise direction	ALL	220/110 <148- 432/105- 297>	М		10	
339	Paper feeding	Paper size (Envelope: Monarch-R) feeding/widthwise direction		ALL	191/98 <148- 432/98- 297>	М		10	
340	Paper feeding	Paper size (En CHO-3-R) feeding/widthw	velope: ise direction	ALL	235/120 <148- 432/105- 297>	М		10	
341	Paper feeding	Paper size (En YOU-4-R) feeding/widthw	velope: ise direction	ALL	235/105 <148- 432/105- 297>	М		10	

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
342	User interface	Displaying number of origi- nal pages placed on origi- nal glass	PPC	0 <0-1>	SYS	This setting is whether the number of pages of originals placed on the original glass is dis- played or not. 0: Not displayed 1: Displayed	1
345	Counter	Count setting of envelope (PM)	ALL	1 <0-1>	М	0: Counted as 1 1: Counted as 2	1
346	Counter	Count setting of large- sized paper (PM)	ALL	1 <0-1>	М	0: Counted as 1 1: Counted as 2	1
347	Counter	Definition setting of large- sized paper (PM)	ALL	1 <0-1>	М	0: A3/LD 1: A3/LD/B4/LG/ FOLIO/COMP	1
348	Counter	Count setting of thick paper (PM)	ALL	1 <0-1>	М	0: Counted as 1 1: Counted as 2	1
349	Counter	Count setting of OHP film (PM)	ALL	1 <0-1>	М	0: Counted as 1 1: Counted as 2	1
352	Counter	Count setting of large- sized paper (Fee charging system counter)	ALL	JPN: 0 OTHER: 1 <0-2>	М	 0: Counted as 1 1: Counted as 2 2: Counted as 1 (Mechanical counter is double counter) 	1
353	Counter	Definition setting of large- sized paper (Fee charging system counter)	ALL	0 <0-1>	М	0: A3/LD 1: A3/LD/B4/LG/ FOLIO/COMP/8K	1
356	Counter	Counter for upper drawer feeding	ALL	0 <8 digits>	М	Counts the number of sheets fed from upper drawer	2
357	Counter	Counter for lower drawer feeding	ALL	0 <8 digits>	М	Counts the number of sheets fed from lower drawer	2
358	Counter	Counter for bypass feeding	ALL	0 <8 digits>	М	Counts the number of sheets fed from bypass feed	2
359	Counter	Counter for LCF feeding	ALL	0 <8 digits>	М	Counts the number of sheets fed from LCF	2
360	Counter	Counter for PFP upper drawer feeding	ALL	0 <8 digits>	М	Counts the number of sheets fed from PFP upper drawer	2
370	Counter	Counter for PFP lower drawer feeding	ALL	0 <8 digits>	М	Counts the number of sheets fed from PFP lower drawer	2
372	Counter	Counter for ADU	ALL	0 <8 digits>	М	Counts the number of output pages of duplex printing.	2
374	Counter	Counter for RADF	ALL	0 <8 digits>	SYS	Counts the number of originals fed from RADF	2

2 - 173 07/11 2

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
381	Counter	Setting for counter installed externally	ALL	1 <0-7>	Μ	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: Printer/FAX 7: Copier/Printer/FAX	1
390	Counter	Number of errors in HDD (Copier)	PPC	0 <8 digits>	SYS	The number of error is reset at HDD format- ting.	2
391	Counter	Number of errors in HDD (FAX)	FAX	0 <8 digits>	SYS	The number of error is reset at HDD format- ting.	2
392	Counter	Number of errors in HDD (Scanning)	SCN	0 <8 digits>	SYS	The number of error is reset at HDD format- ting.	2
393	Counter	Number of errors in HDD (Printer)	PRT	0 <8 digits>	SYS	The number of error is reset at HDD format- ting.	2
398	Laser	Number of polygonal motor rotational speed switching	ALL	0 <8 digits>	М	Counts the number of time the polygonal motor has switched its rotational speed between normal rota- tion and standby rota- tion.	2
399	Laser	Accumulated time of polyg- onal motor at normal rota- tion	ALL	0 <8 digits>	М	Accumulates the time the polygonal motor has rotated at normal rota- tion.	2
400	Fuser	Fuser unit error status counter	ALL	0 <0-19>	M	0: No error 1: C410 (Once) 2: C410 (consecutively occurred) 3: - 4: C430 5: C440 6: C450 7: C440 8: C450 9: C440 10: C470 11: C470 12: C480 13: C490 14: C470 15: C480 16: C490 17: C470 18: C480 19: C490	1

		Setting mo	de (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	ltem	IS	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
404-0	Fuser	Temperature drop setting in	The first drop	ALL	1 <0-10>	М	This code is valid only when "20" is set to 08-	4
404-1		ready status (Center ther-	The sec- ond drop	ALL	1 <0-10>	М	886. Setting value x -5°C:	4
404-2		mistor)	The third drop	ALL	1 <0-10>	М	from 0°C to -50°C	4
404-3			The fourth drop	ALL	1 <0-10>	М		4
405-0	Fuser	Temperature drop setting in	The first drop	ALL	4 <0-10>	М		4
405-1		ready status (Side ther-	The sec- ond drop	ALL	4 <0-10>	М	-	4
405-2		mistor)	The third drop	ALL	4 <0-10>	М		4
405-3			The fourth drop	ALL	4 <0-10>	М		4
407	Fuser	Fuser roller temperature in ready status (Side thermistor)		ALL	8 <0-12>	М	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	1
409	Fuser	Fuser roller temperature at energy saver mode (Center thermistor)		ALL	0 <0-13>	М	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
410	Fuser	Fuser roller ten during printing (Center thermis paper)	iperature stor/Plain	ALL	8 <0-14>	М	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	1
411	Fuser	Fuser roller tem standby (Center thermis	iperature on stor)	ALL	8 <0-12>	М	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	1

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
412	Fuser	Fuser roller temperature during printing (Center thermistor/Thick paper 3)	ALL	9 <0-14>	Μ	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	1
413	Fuser	Fuser roller temperature during printing (Center thermistor/Thick paper 1)	ALL	8 <0-14>	Μ	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	1
414	Devel- oper	Toner density life correc- tion switching	ALL	0 <0-7>	M	0: Unchanged (Default) 1: Approx. 0.3 wt% higher 2: Approx. 0.6 wt% higher 3: Approx. 0.9 wt% higher 4: Approx. 0.2 wt% lower 5: Approx. 0.4 wt% lower 6: Approx. 0.6 wt% lower 7: Approx. 0.9 wt% lower	1
417	Fuser	Pre-running time for first printing (Thick paper 3)	ALL	10 <0-15>	Μ	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

Setting mode (08) <e-studio202l 203l="" 233="" 282="" 283=""></e-studio202l>									
Code	Classifi- cation	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure	
424-0	Fuser	Temperature drop switching	The first drop	ALL	15 <2-60>	М	This code is valid only when "20" is set to 08-	4	
424-1		time setting in ready status	The sec- ond drop	ALL	15 <2-60>	М	886. Setting value x 1 min.:	4	
424-2		(Center ther- mistor)	The third drop	ALL	15 <2-60>	М	from 2 to 60 min. later	4	
424-3			The fourth drop	ALL	15 <2-60>	М		4	
425-0	Fuser	Temperature drop switching	The first drop	ALL	15 <2-60>	М		4	
425-1		time setting in ready status	The sec- ond drop	ALL	15 <2-60>	М		4	
425-2		(Side ther- mistor)	The third drop	ALL	15 <2-60>	М		4	
425-3			The fourth drop	ALL	15 <2-60>	М	-	4	
433-0	Fuser	Temperature control lower limit (Plain paper/	Center thermistor	ALL	7 <0-12>	М	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C	4	
433-1		at ordinary temperature)	Side ther- mistor	ALL	5 <0-12>	М	8: 170°C 9: 175°C 10: 180°C 11: 185°C 12: 120°C	4	
437	Fuser	Fuser roller ten during printing (Center thermis paper 2)	perature stor /Thick	ALL	8 <0-14>	М	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	1	
438	Fuser	Fuser roller ten during printing (Center thermis film)	nperature stor/OHP	ALL	8 <0-14>	М	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	1	
439	Fuser	Pre-running tim printing (Thick paper 2)	ie for first	ALL	10 <0-15>	М	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	

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
440	Fuser	Pre-running time for first printing (Plain paper)	ALL	0 <0-15>	М	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
441	Fuser	Pre-running time for first printing (Thick paper 1)	ALL	0 <0-15>	М	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
448	Fuser	Fuser roller temperature in Energy Saving Mode (Side thermistor)	ALL	0 <0-13>	Μ	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
449	Paper feeding	Incorrect paper size jam detection switching	ALL	0 <0-1>	М	0: Enabled 1: Disabled	1
450	Fuser	Fuser roller temperature during printing (Side thermistor/Plain paper)	ALL	8 <0-14>	М	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	1
451	Fuser	Fuser roller temperature during printing (Side thermistor/Thick paper 1)	ALL	8 <0-14>	М	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	1

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
452	Fuser	Fuser roller temperature during printing (Side thermistor/Thick paper 2)	ALL	8 <0-14>	Μ	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	1
453	Fuser	Fuser roller temperature during printing (Side thermistor/OHP film)	ALL	8 <0-14>	М	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	1
455	Image process- ing	Toner supply amount cor- rection/Toner motor control	ALL	0 <0-5>	М	Corrects the supply amount of the fresh toner (driving period of the toner motor) into the developer unit. 0: x1.0 1: x0.75 2: x0.5 3: x0.3 4: x2.0 5: x1.5	1

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>								
Code	Classifi- cation	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
462	RADF	Setting for swit operation in mix copying using F	chback ked-size RADF	ALL	0 <0-2>	M	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 trans- porting 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 trans- porting in reverse with no scanning. LT series - Judges whether it is LT-R or LG without trans- porting in reverse with no scanning. 1: Enable 1 AMS: A series - Judges whether it is A4-R or FOLIO by transport- ing without scanning in reverse to detect its length. LT series - Judges whether it is LT-R or LG by transport- ing without scanning in reverse to detect its length. LT series - Judges whether it is LT-R or LG by transport- ing without scanning in reverse to detect its length. LT series - Judges whether it is LT-R or LG by transport- ing without scanning in reverse to detect its length. APS: The same as that of APS in 0: Disabled. 2: Enable 2 AMS/APS: The same as that of AMS in 1: Enable 1.	1
403-0	feeding	number set-	paper	ALL	o <0-5>	IVI	times of the feeding	4
463-1		(upper drawer)	Others	ALL	5 <0-5>	M	drawer.	4

e-STUDIO200L/202L/203L/230/230L/232/233/280/282/283 ERROR CODE AND SELF-DIAGNOSTIC MODE © 2004 - 2010 TOSHIBA TEC CORPORATION All rights reserved
		Setting mo	de (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	ltem	IS	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
464-0	Paper feeding	Feeding retry number set-	Plain paper	ALL	5 <0-5>	М	Sets the number of times of the feeding	4
464-1		ting (lower drawer)	Others	ALL	5 <0-5>	М	retry from the lower drawer.	4
465-0	Paper feeding	Feeding retry number set-	Plain paper	ALL	5 <0-5>	М	Sets the number of times of the feeding	4
465-1		ting (PFP upper drawer)	Others	ALL	5 <0-5>	М	retry from the PFP upper drawer.	4
466-0	Paper feeding	Feeding retry number set-	Plain paper	ALL	5 <0-5>	М	Sets the number of times of the feeding	4
466-1		ting (PFP lower drawer)	Others	ALL	5 <0-5>	М	retry from the PFP lower drawer.	4
467-0	Paper feeding	Feeding retry number set-	Plain paper	ALL	5 <0-5>	М	Sets the number of times of the feeding	4
467-1		ting (bypass feed)	Others	ALL	5 <0-5>	М	retry from the bypass tray.	4
468-0	Paper feeding	Feeding retry number set-	Plain paper	ALL	5 <0-5>	М	Sets the number of times of the feeding	4
468-1		ting (LCF)	Others	ALL	5 <0-5>	М	retry from the LCF.	4
471	Paper feeding	Paper size (Po feeding/widthw	stcard) ise direction	ALL	148/100 <148- 432/100- 297>	М	 Postcard is sup- ported only for JPN model. 	10
477	General	Machine identif information	ication	ALL	Refer to content <0-1>	М	<default value=""> Lower drawer model: 0 Upper drawer model: 1</default>	2
478	Laser	Judged numbe nal motor rotati (Normal rotatio	r of polygo- on error n)	ALL	0 <0-1>	М	Displays the error [CA10] when the set number of rotation error has been detected. 0: 2 times 1: 12 times	1
479	Laser	Judged numbe nal motor rotati (At acceleration tion)	r of polygo- on error n/decelera-	ALL	0 <0-1>	M	 Waiting time for polygonal motor rotation overshoot- ing 0.6 sec. Waiting time for polygonal motor rotation overshoot- ing 2.2 sec. 	1
480	Paper feeding	Default setting source	of paper	PPC	0 <0-5>	SYS	0: A4/LT 1: LCF 2: Upper drawer 3: Lower drawer 4: PFP upper drawer 5: PFP lower drawer	1

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
481	Paper feeding	Automatic change of paper source	PPC	1 <0-2>	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. OFF ON (Changes to the drawer with the same paper direc- tion and size: ex. A4 to A4) ON (Changes to the drawer with the same paper size. Paper with the dif- ferent direction is acceptable as long as the size is the same: ex., A4 to A4- R, LT-R to LT. "1" is applied when the staple/hole-punch is specified.) 	1
482	Paper feeding	Feeding retry setting	ALL	0 <0-1>	М	0: ON 1: OFF	1
483	Laser	Pre-running rotation of polygonal motor	ALL	0 <0-2>	SYS	 Sets whether or not switching the polygonal motor from the standby rotation to the normal rotation when the origi- nal is set on the RADF or the platen cover is opened. 0: Valid (when using RADF and the origi- nal is set manually) 1: Invalid 2: Valid (when using RADF only) 	1
484	Laser	Polygonal motor rotational status switching at the Auto Clear Mode	ALL	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
485	Laser	Rotational status of polygo- nal motor on standby	ALL	1 <0-1>	SYS	 Sets the rotational status of polygonal motor on standby. 0: Rotated (The rotational speed is set at 08-490.) 1: Stopped 	1

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>									
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure		
486	Laser	Timing of auto-clearing of polygonal motor pre-run- ning rotation	ALL	0 <0-2>	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: 30 sec. 2: 45 sec. * This setting is effec- tive when "0" or "2" is set at 08-483.	1		
488	Laser	Setting of polygonal motor type	ALL	0 <0-3>	М	Set the type of polygo- nal motor. 0: 2-clock type 1: 3-clock type 2: 4-clock type 3: 4-clock type	1		
489	Laser	Polygonal motor rotation number on standby	ALL	5 <0-5>	М	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		
490	Laser	Polygonal motor rotation in the energy saving mode	ALL	0 <0-1>	М	0: Stopped 1: 10,000 rpm	1		
491	Transfer	Transfer charger bias cor- rection (H) at duplexing	ALL	149 <0-255>	М	Corrects the transfer charger bias output value of the leading edge area of paper at duplexing.	1		
492	Transfer	Transfer charger bias cor- rection (C) at duplexing	ALL	139 <0-255>	М	Corrects the transfer charger bias output value of the center area of paper at duplexing.	1		
493	Transfer	Transfer charger bias cor- rection (L) at duplexing	ALL	128 <0-255>	М	Corrects the transfer charger bias output value of the trailing edge area of paper at duplexing.	1		
502	Image	Error diffusion and dither setting at photo mode	PPC	1 <0-1>	SYS	Sets the image repro- duction method at photo mode. 0: Error diffusion 1: Dither	1		
503	User interface	Default setting of density adjustment	PPC	0 <0-1>	SYS	0: Automatic 1: Manual (Center)	1		

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>										
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure			
508	Image	Custom Mode setting	PPC	0 <0-3>	SYS	 0: Not used 1: Custom Mode 1 when Text/Photo is set as a base 2: Custom Mode 2 when Text is set as a base 3: Custom Mode 3 when Photo is set as a base 	1			
509	Image	Error diffusion and dither setting at a photo mode (Custom Mode)	PPC	1 <0-1>	SYS	Switches the image processing method when Custom Mode 3 is set. 0: Error diffusion 1: Dither	1			
515	Fuser	Temperature setting of warming-up (Center thermistor)	ALL	9 <0-14>	М	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	1			
516	Fuser	Temperature setting of warming-up (Side thermistor)	ALL	9 <0-14>	М	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	1			
518	Fuser	Fuser roller temperature during printing (Side thermistor/Thick paper 3)	ALL	9 <0-14>	М	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	1			
520	Fuser	Fuser roller temperature during printing (Center thermistor/Enve- lope)	ALL	9 <0-14>	М	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	1			

		Setting mo	de (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
521	Fuser	Fuser roller ten during printing (Side thermisto	nperature r/Envelope)	ALL	9 <0-14>	М	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	1
523	Fuser	Pre-running tim printing (Envelope)	ie for first	ALL	10 <0-15>	Μ	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
525-0	Fuser	Temperature drop switching	The first drop	ALL	20 <0-200>	М	This code is valid only when "20" is set to 08-	4
525-1		time setting during printing	The sec- ond drop	ALL	38 <0-200>	М	535. Setting value x 5 sec.:	4
525-2		(Center ther- mistor)	The third drop	ALL	75 <0-200>	М	later	4
525-3			The fourth drop	ALL	75 <0-200>	М		4
526	Fuser	Pre-running tim printing (OHP fi	ie for first ilm)	ALL	0 <0-15>	М	0: Invalid 1: 0 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
527-0	Fuser	Temperature drop switching	The first drop	ALL	20 <0-200>	М	This code is valid only when "20" is set to 08-	4
527-1		time setting during printing	The sec- ond drop	ALL	30 <0-200>	М	535. Setting value x 5 sec.:	4
527-2		(Side ther- mistor)	The third drop	ALL	48 <0-200>	М	from 0 to 1,000 sec. later	4
527-3			The fourth drop	ALL	75 <0-200>	М		4

		Setting mo	de (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
535	Fuser	Temperature dr setting during p (Temperature/T	op control vrinting ïme)	ALL	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 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
536-0	Fuser	Temperature drop setting	The first drop	ALL	1 <0-10>	M	This code is valid only when "20" is set to 08-	4
536-1		(Center ther-	ond drop	ALL	2 <0-10>	IVI	Setting value x -5°C:	4
536-2		mistor)	The third drop	ALL	3 <0-10>	М	from 0°C to -50°C	4
536-3			The fourth drop	ALL	3 <0-10>	М	_	4
537-0	Fuser	Temperature drop setting	The first drop	ALL	1 <0-10>	М	_	4
537-1		(Side ther-	The sec- ond drop	ALL	2 <0-10>	M		4
537-2		mistor)	The third drop	ALL	3 <0-10>	М		4
537-3			The fourth drop	ALL	5 <0-10>	М		4
550	Image	Default setting mode	of original	PPC	0 <0-3>	SYS	0: Text/Photo 1: Photo 2: Text 3: Custom Mode	1
601	User interface	Setting for the I ing Mode	Energy Sav-	ALL	0 <0-1>	SYS	0: Auto Shut Off Mode 1: Sleep Mode	1
602	User interface	Screen setting power Save Mo Auto Shut OFF	for Auto ode and Mode	ALL	EUR: 0 UC: 1 JPN: 1 <0-1>	SYS	0: OFF 1: ON	1
603	User interface	Setting for auto duplexing mode	matic e	PPC	0 <0-3>	SYS	 Invalid Single-sided to duplex copying Double-sided to duplex copying User selection 	1

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>									
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure		
604	User interface	Default setting for APS/ AMS	PPC	0 <0-2>	SYS	 O: APS (Automatic Paper Selection) AMS (Automatic Magnification Selec- tion) 2: Not selected 	1		
605	User interface	Centering printing of pri- mary/secondary direction at AMS	PPC	1 <0-1>	SYS	0: Invalid 1: Valid	1		
607	User interface	Default setting of RADF mode	PPC	0 <0-1>	SYS	 Continuous feeding (by pressing the [START] button) Single feeding (by setting original on the tray) 	1		
610	User interface	Key touch sound of control panel	ALL	1 <0-1>	SYS	0: OFF 1: ON	1		
611	User interface	Book type original priority	PPC	0 <0-1>	SYS	 Left page to right page Right page to left page 	1		
612	General	Summer time mode	ALL	0 <0-1>	SYS	0: Not summer time 1: Summer time	1		
613	User interface	Paper size selection for [OTHER] button	PPC	EUR: FOLIO UC: COMP JPN: A5-R	SYS	Press the button on the LCD to select the size.	9		
614	Network	Local I/F time-out period	PRT	6 <1-50>	SYS	Sets the period of time when the job is judged as completed in local I/ F printing (USB or par- allel). 1: 1.0 sec. 2: 1.5 sec. -50: 25.5 sec. (in increments of 0.5 sec.)	1		
615	General	Size information of main memory and page memory	ALL	-	SYS	Displays the sizes of the main memory and page memory. Enables to check if each mem- ory is properly recog- nized.	2		
617	User interface	Print setting without department code	ALL	1 <0-2>	SYS	 0: Printed 1: Not printed (pooled in the invalid queue) 2: Deleted forcibly 	1		
618	User interface	Default setting when mixed size originals are set on RADF	PPC	0 <0-1>	SYS	0: Scanned as all in same size1: Scanned as each original size	1		

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
				Default			
Code	Classifi-	Items	Func-	<accept-< th=""><th>RAM</th><th>Contents</th><th>Proce-</th></accept-<>	RAM	Contents	Proce-
oouc	cation	items	tion	able		Contento	dure
				value>			
619	Paper feeding	Time lag before Auto Job Start of bypass feeding	ALL	4 <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: No delay 1-10: Setting value x 0.5 sec.	1
620	User interface	Department management setting (Copier)	PPC	1 <0-1>	SYS	0: Invalid 1: Valid	1
621	User interface	Department management setting (FAX)	FAX	1 <0-1>	SYS	0: Invalid 1: Valid	1
622	User interface	Department management setting (Printer)	PRT	1 <0-1>	SYS	0: Invalid 1: Valid	1
623	User interface	Department management setting (Scanner)	SCN	1 <0-1>	SYS	0: Invalid 1: Valid	1
624	User interface	Department management setting (List print)	PRT	1 <0-1>	SYS	0: Invalid 1: Valid	1
625	User interface	Blank copying prevention mode during RADF jam- ming	PPC	0 <0-1>	SYS	 0: OFF 1: ON (Start printing when the scanning of each page is fin- ished) 	1
627	User interface	Rotation printing at the non-sorting	ALL	0 <0-1>	SYS	0: Not rotating 1: Rotating	1
628	User interface	Direction priority of original image	PPC	0 <0-1>	SYS	0: Automatic 1: Portrait	1
629	User interface	Department management setting	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
633	Data overwrite kit	Releasing F200 service call (System ROM version: earlier than T377SY0*329)	ALL	0 <0-2>	SYS	 Not used Board installed (GP-1060) Service call 	1
634	User interface	Inner receiving tray priority at Non-sort Mode	ALL	0 <0-1>	SYS	0: Normal 1: Inner receiving tray	1
636	User interface	Width setting for image shift copying (linkage of front side and back side)	PPC	0 <0-1>	SYS	0: ON 1: OFF	1

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
638	General	Time differences	ALL	EUR: 24 UC: 40 JPN: 6 <0-47>	SYS	0: +12.0h 1: +11.5h 2: +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 42: -9.0h 43: -9.5h 44: -10.0h 45: -10.5h 46: -11.0h 47: -11.5h	1
640	User interface	Date display format	ALL	EUR: 1 UC: 2 JPN: 0 <0-2>	SYS	0: YYYY.MM.DD. 1: DD.MM.YYYY 2: MM.DD.YYYY	1
641	User interface	Automatic Sorting Mode setting (RADF)	PPC	2 <0-4>	SYS	0: Invalid 1: STAPLE 2: SORT 3: GROUP 4: ROTATE SORT	1
642	User interface	Default setting of Sorter Mode	PPC	0 <0-4>	SYS	0: NON-SORT 1: STAPLE 2: SORT 3: GROUP 4: ROTATE SORT	1
645	User interface	Correction of reproduction ratio in editing copy	PPC	10 <0-10>	SYS	Sets the reproduction ratio for the "X in 1" printing (including mag- azine 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

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
646	User interface	Image position in editing	PPC	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/ PRT:Centering	1
648	User interface	Returning finisher tray when printing is finished	ALL	0 <0-1>	SYS	Sets whether or not returning the finisher tray to the bin 1 when printing is finished. 0: Not returned 1: Returned	1
649	User interface	Magazine sort setting	PPC	0 <0-1>	SYS	 Left page to right page Right page to left page 	1
650	User interface	2 in 1/4 in 1 page allocating order setting	PPC	0 <0-1>	SYS	0: Horizontal 1: Vertical	1
651	User interface	Printing format setting for Time stamp and Page Number	PPC	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	1
652	llser	Cascade operation setting	PPC	0	SYS	ON: -1- OFF: 1	1
002	interface			<0-1>	010		
653	User interface	Cascade operation setting	PRI	0 <0-1>	SYS	0: OFF 1: ON	1
657	User interface	Direction priority for date and time stamp printing	PPC	0 <0-1>	SYS	0: Short edge 1: Long edge	1
658	User interface	Auto Job Start setting for bypass feed printing	PRT	0 <0-1>	SYS	Sets whether or not feeding a paper auto- matically into the equip- ment when it is placed on the bypass tray. 0: OFF (Press the [START] button to start feeding.) 1: ON (Automatic feeding)	1

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
				Default			
Code	Classifi-	Items	Func-	<accept-< th=""><th>RAM</th><th>Contents</th><th>Proce-</th></accept-<>	RAM	Contents	Proce-
	cation		tion	able			dure
				value>		• · · · ·	
659	User interface	Auto Job start setting for bypass feed printing	PPC	1 <0-1>	SYS	Sets whether or not feeding a paper auto- matically into the equip- ment when it is placed on the bypass tray. 0: OFF (Press the [START] button to start feeding.) 1: ON (Automatic feeding)	1
660	Network	Auto-forwarding setting of received FAX	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
661	Network	Auto-forwarding setting of received E-mail	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
662	General	Clearing of SMS partition	ALL	-	SYS	Clears SMS partition. (Performs when the service call [F106] has occurred.)	3
666	General	/SHR partition clearing	ALL	-	SYS	Initializes the Elec- tronic Filing.	3
667	General	/SHA partition clearing	ALL	-	SYS	Initializes the shared folder.	3
670	General	HDD diagnostic menu dis- play	ALL	-	SYS	Display the HDD infor- mation	2
671	User interface	Size indicator	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
672	General	Initialization of department management information	-	-	SYS	Initializing of the depart- ment management information * Key in the code and press the [INITIAL- IZE] button to per- form the initialization. If the area storing the department man- agement informa- tion is destroyed for some reason, "Enter Department Code" is displayed on the control panel even if the department management func- tion is not set on. In this case, initialize the area with this code. This area is normally initialized at the factory.	3
673	General	Trial period setting	PRT/ SCN	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

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/23</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/23	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
678	General	Setting of banner advertis- ing display	ALL	0 <0-1>	SYS	Sets whether or not dis- playing the banner advertising. The setting contents of 08-679 and 08-680 are displayed at the time display section on the right top of the screen. When both are set, each content is dis- played alternately. 0: Not displayed 1: Displayed	1
679	General	Banner advertising display	ALL	-	SYS	Maximum 27 letters (one-byte character)	11
680	General	Banner advertising display 2	ALL	-	SYS	Maximum 27 letters (one-byte character)	11
681	General	Display of [BANNER MES- SAGE] button	ALL	0 <0-1>	SYS	0: Not displayed 1: Displayed * This button enables the entry of "Banner advertising display 1 (08-679)" and "Ban- ner advertising dis- play 2 (08-680)" on the control panel.	1
682	User interface	Offsetting between jobs	ALL	1 <0-1>	SYS	0: Invalid 1: Valid	1
683	General	Duplex printing setting when coin controller is used	ALL	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 (Both sides printed) 1: Valid (Only one side printed) 	1
684	General	Rebuilding all databases	ALL	-	SYS	Rebuilds all databases.	3
685	General	Rebuilding all databases related to address book	ALL	-	SYS	Rebuilds all databases related to the Address Book.	3
686	General	Rebuilding all databases related to log	ALL	-	SYS	Rebuilds all databases related to the log.	3
689	FAX	Adaptation of paper source priority selection	FAX	0 <0-1>	SYS	 0: Not subjected for APS judgment 1: Subjected for APS judgment 	1
690	General	HDD formatting	ALL	- <2>	SYS	2: Normal formatting	7
691	General	HDD type display	ALL	- <0-2>	SYS	 0: Not formatted 1: Not used 2: Normal format 	7

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
692	Mainte- nance	Performing panel calibra- tion	ALL	-	SYS	Performs the calibration of the pressing position on the touch panel (LCD screen). The cali- bration is performed by pressing 2 reference positions after this code is started up.	1
693	General	Initialization of NIC infor- mation	ALL	-	SYS	Returns the value to the factory shipping default value.	3
694	General	Performing HDD testing	ALL	-	SYS	Checks the bad sector.	3
695	General	Notifying condition of trial period end	PRT/ SCN	3 <0-59>	SYS	Sets when the end of trial period is notified. 0: On the day it ends 1 to 59: n days before	1
696	Scram- bler board	Installation of scrambler board (Option)	ALL	0 <0-1>	-	0: Not installed 1: Installed	2
697	Paper feeding	Paper type priority	PPC	1 <1-2>	SYS	Sets the paper type pri- ority during copying. 1: Plain paper 2: Thick paper 1	1
698	Scram- bler board	Entering the key code for scrambler board	ALL	-	-	Start up this code and have the user enter the key code. Once the key code has been set, this code can- not be set again on security grounds.	5
699	Scram- bler board	Erasing all data in HDD	ALL	-	-	This setting is effective only when the scram- bler board is installed.	3
701	FAX	Destination setting for FAX	FAX	EUR: 5 UC: 4 JPN: 0 Other: 1 <0-25>	SYS	0: Japan 1: Asia 2: Australia 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	1

		Setting mo	de (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
702	Mainte- nance	Remote-contro function	lled service	ALL	2 <0-2>	SYS	 Valid (Remote-con- trolled server) Valid (L2) Invalid 	1
703	Mainte- nance	Remote-control HTTP server URL setting	lled service	ALL	-	SYS	Maximum 256 Bytes	11
704-0	User interface	Interruption of stapling oper- ation (no sta- ple)	Copying	ALL	1 <0-1>	SYS	 Continues printing by switching sort setting Interrupts printing 	4
704-1			Printing / BOX print- ing	ALL	1 <0-1>	SYS	 Continues printing by switching sort setting Interrupts printing 	4
707	Mainte- nance	Remote-contro HTTP initially-re server URL setting	led service egistered	ALL	https:// device. mfp- support. com:443/ device/ firstregist. ashx	SYS	Maximum 256 Bytes	11
710	Mainte- nance (Remote)	Short time inter of recovery fror gency Mode	val setting n Emer-	ALL	24 <1-48>	SYS	Sets the time interval to recover from the Emer- gency Mode to the Nor- mal Mode. (Unit: Hour)	1
711	Mainte- nance (Remote)	Short time inter of Emergency I	val setting Vode	ALL	60 <30-360>	SYS	Unit: Minute	1
715	Mainte- nance	Remote-contro periodical pollir (Hour/Hour/Min	lled service ng timing nute/Minute)	ALL	1230	SYS	0 (0:00) to 2359 (23:59)	1
716	Mainte- nance	Remote-contro Writing data of nostic code	lled service self-diag-	ALL	0 <0-1>	SYS	0: Prohibited 1: Accepted	1
717	Mainte- nance	Remote-contro response waitir (Timeout)	lled service ng time	ALL	3 <1-30>	SYS	Unit: Minute	1
718	Mainte- nance	Remote-contro initial registratio	lled service on	ALL	0 <0-3>	SYS	 OFF Start Only certification is scanned Satellite communic- tion starts 	1
719	Mainte- nance	Remote-contro tentative passw	lled service ord	ALL	-	SYS	Maximum 10 letters	11
720	Mainte- nance	Status of remot trolled service i tration (Display only)	e-con- nitial regis-	ALL	0 <0-1>	SYS	0: Not registered 1: Registered	2
721	Mainte- nance	Service center	call function	ALL	2 <0-2>	SYS	 OFF Notifies all service calls Notifies all but paper jams 	1

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>										
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure			
723	Mainte- nance	Service center call HTTP server URL setting	ALL	-	SYS	Maximum 256 letters	11			
726	Mainte- nance	HTTP proxy setting	ALL	1 <0-1>	SYS	0: Valid 1: Invalid	1			
727	Mainte- nance	HTTP proxy IP address setting	ALL	-	SYS	000.000.000.000- 255.255.255.255 (Default value 000.000.000.000)	11			
728	Mainte- nance	HTTP proxy port number setting	ALL	0 <0- 65535>	SYS		1			
729	Mainte- nance	HTTP proxy ID setting	ALL	-	SYS	Maximum 30 letters	11			
730	Mainte- nance	HTTP proxy password set- ting	ALL	-	SYS	Maximum 30 letters	11			
731	Mainte- nance	HTTP proxy panel display	ALL	1 <0-1>	SYS	0: Valid 1: Invalid	1			
732	Mainte- nance (Remote)	Automatic ordering func- tion of supplies	ALL	3 <0-3>	SYS	0: Ordered by FAX 1: Ordered by E-mail 2: Ordered by HTTP 3: OFF	1			
733	Mainte- nance (Remote)	Automatic ordering func- tion of supplies FAX number	ALL	-	SYS	Maximum 32 digits Enter hyphen with the [Monitor/Pause] button	11			
734	Mainte- nance (Remote)	Automatic ordering func- tion of supplies E-mail address	ALL	-	SYS	Maximum 192 letters List: 256 digits	11			
738	Mainte- nance (Remote)	Automatic ordering func- tion of supplies User's name	ALL	-	SYS	Maximum 50 letters	11			
739	Mainte- nance (Remote)	Automatic ordering func- tion of supplies User's telephone number	ALL	-	SYS	Maximum 32 digits Enter hyphen with the [Monitor/Pause] button	11			
740	Mainte- nance (Remote)	Automatic ordering func- tion of supplies User's E-mail address	ALL	-	SYS	Maximum 192 letters List: 256 digits	11			
741	Mainte- nance (Remote)	Automatic ordering func- tion of supplies User's address	ALL	-	SYS	Maximum 100 letters	11			
742	Mainte- nance (Remote)	Automatic ordering func- tion of supplies Service number	ALL	0 <5 digits>	SYS	Maximum 5 digits	11			
743	Mainte- nance (Remote)	Automatic ordering func- tion of supplies Service technician's name	ALL	-	SYS	Maximum 50 letters	11			
744	Mainte- nance (Remote)	Automatic ordering func- tion of supplies Service technician's tele- phone number	ALL	-	SYS	Maximum 32 digits Enter hyphen with the [Monitor/Pause] button	11			
745	Mainte- nance (Remote)	Automatic ordering func- tion of supplies Service technician's E-mail address	ALL	-	SYS	Maximum 192 letters List: 256 digits	11			
746	Mainte- nance (Remote)	Automatic ordering func- tion of supplies Supplier's name	ALL	-	SYS	Maximum 50 letters	11			

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>										
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure			
747	Mainte- nance (Remote)	Automatic ordering func- tion of supplies Supplier's address	ALL	-	SYS	Maximum 100 letters	11			
748	Mainte- nance (Remote)	Automatic ordering func- tion of supplies Notes	ALL	-	SYS	Maximum 128 letters	11			
758	Mainte- nance (Remote)	Information about supplies Part number of toner car- tridge	ALL	-	SYS	Maximum 20 digits	11			
759	Mainte- nance (Remote)	Information about supplies Order quantity of toner car- tridge	ALL	1 <1-99>	SYS		1			
760	Mainte- nance (Remote)	Information about supplies Condition number of toner cartridge	ALL	1 <1-99>	SYS		1			
765	Mainte- nance (Remote)	Automatic ordering sup- plies Display	ALL	EUR: 2 UC: 0 JPN: 2 <0-2>	SYS	 Valid (FAX/Internet FAX) Valid (FAX/Internet FAX/HTTP) Invalid 	1			
767	Mainte- nance (Remote)	Service Notification setting	ALL	0 <0-2>	SYS	Enables to set up to 3 E-mail addresses to be sent.(08-768, 777, 778) 0: Invalid 1: Valid (E-mail) 2: Valid (FAX)	1			
768	Mainte- nance (Remote)	Destination E-mail address	ALL	-	SYS	Maximum 192 letters	11			
769	Mainte- nance (Remote)	Total counter information transmission setting	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1			
770	Mainte- nance (Remote)	Total counter transmission date setting	ALL	0 <0-31>	SYS	0 to 31	1			
771	Mainte- nance (Remote)	PM counter notification set- ting	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1			
772	Mainte- nance	Dealer's name	ALL	-	SYS	Maximum 100 letters Needed at initial regis- tration	11			
773	Mainte- nance	Login name	ALL	-	SYS	Maximum 20 letters Needed at initial regis- tration	11			
774	Mainte- nance (Remote)	Display setting of [Service Notification] button	ALL	EUR: 0 UC: 1 JPN: 0 <0-1>	SYS	0: Not displayed 1: displayed	1			
775	Mainte- nance (Remote)	Sending error contents of equipment	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1			
776	Mainte- nance (Remote)	Setting total counter trans- mission interval (Hour/Hour/Minute/Minute)	ALL	-	SYS		1			
777	Mainte- nance (Remote)	Destination E-mail address 2	ALL	-	SYS	Maximum 192 letters	11			

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
778	Mainte- nance (Remote)	Destination E-mail address 3	ALL	-	SYS	Maximum 192 letters	11
780	Mainte- nance	Remote-controlled service polling day selection Day-1	ALL	0 <0-31>	SYS	0: OFF 1 to 31: 1st to 31st of a month	1
781	Mainte- nance	Remote-controlled service polling day selection Day-2	ALL	0 <0-31>	SYS	0: OFF 1 to 31: 1st to 31st of a month	1
782	Mainte- nance	Remote-controlled service polling day selection Day-3	ALL	0 <0-31>	SYS	0: OFF 1 to 31: 1st to 31st of a month	1
783	Mainte- nance	Remote-controlled service polling day selection Day-4	ALL	0 <0-31>	SYS	0: OFF 1 to 31: 1st to 31st of a month	1
784	Mainte- nance	Remote-controlled service polling day selection Sunday	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
785	Mainte- nance	Remote-controlled service polling day selection Monday	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
786	Mainte- nance	Remote-controlled service polling day selection Tuesday	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
787	Mainte- nance	Remote-controlled service polling day selection Wednesday	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
788	Mainte- nance	Remote-controlled service polling day selection Thursday	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
789	Mainte- nance	Remote-controlled service polling day selection Friday	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
790	Mainte- nance	Remote-controlled service polling day selection Saturday	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
794	Mainte- nance	Information of supplies set- ting of toner cartridge	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
796	Mainte- nance	Remote-controlled service lengthened interval polling (End of month)	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
797	Mainte- nance	Firmware download	ALL	0 <0-1>	SYS	0: Accepted 1: Prohibited	1
798	General	Notifying address of trial period end	PRT/ SCN	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

2 - 197 07/11

		Setting mo	de (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	Item	IS	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
799	General	Forcible end of	trial period	PRT/ SCN	-	SYS	[CANCEL]: Cancel [EXECUTION]: Forc- ible end When the "Forcible end of trial period" is per- formed, "0" is set in the code (08-673) to end up the trial period forcibly.	3
800-0	Fuser	Temperature control lower limit (OHP film)	Center thermistor	ALL	8 <0-12>	М	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C	4
800-1			Side thermistor	ALL	6 <0-12>	М	8: 170°C 9: 175°C 10: 180°C 11: 185°C 12: 120°C	4
801-0	Fuser	Temperature control lower limit (Thick paper	Center thermistor	ALL	8 <0-12>	М	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C	4
801-1		1)	Side thermistor	ALL	6 <0-12>	М	8: 170°C 9:175°C 10:180°C 11:185°C 12:120°C	4
802-0	Fuser	Temperature control lower limit (Thick paper	Center thermistor	ALL	8 <0-12>	М	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C	4
802-1		2)	Side thermistor	ALL	9 <0-12>	М	8: 170°C 9:175°C 10:180°C 11:185°C 12:120°C	4
803-0	Fuser	Temperature control lower limit (Thick paper	Center thermistor	ALL	8 <0-12>	М	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C	4
803-1		3)	Side thermistor	ALL	10 <0-12>	М	8: 170°C 9:175°C 10:180°C 11:185°C 12:120°C	4
804-0	Fuser	Temperature control lower limit (Envelope)	Center thermistor	ALL	8 <0-12>	М	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C	4
804-1			Side thermistor	ALL	10 <0-12>	М	8: 170°C 9: 175°C 10: 180°C 11: 185°C 12: 120°C	4

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
			_	Default			_
Code	Classifi-	Items	Func-	<accept-< th=""><th>RAM</th><th>Contents</th><th>Proce-</th></accept-<>	RAM	Contents	Proce-
	Cation		uon	value>			uure
805	Charger	Main charger bias correc-	PRT	98	М	Corrects the value of	1
	5-	tion		<0-255>		the main charger bias	
		(Text/Photo/OHP film)				adjustment (05-210).	
806	Charger	Main charger bias correc-	PRT	98	М		1
		(Toner Saving Mode/OHP		~0-200×			
		film)					
807	Charger	Main charger bias correc-	PPC	98	М		1
		(Text/Photo/OHP film)		<0-255>			
808	Charger	Main charger bias correc-	PPC	98	М		1
	U	tion		<0-255>			
		(Text/OHP film)	550				
809	Charger	Main charger bias correc-	PPC	98 <0-255>	IVI		1
		(Photo/OHP film)		10 200			
826	Charger	Main charger bias correc-	PRT	128	М		1
		tion		<0-255>			
830	Transfer	Transfer transformer DC	ALI	128	м	Corrects the value of	1
000	Transier	correction (C)	/\LL	<0-255>	101	the transfer trans-	•
						former DC output	
021	Conoro	Separation transformer DC		100	N.4	adjustment (05-221).	1
031	tion	correction (C)	ALL	<0-255>	IVI	the separation trans-	I
						former DC output	
000	D. I		DDT	100		adjustment (05-234).	
833	Devel-	tion	PRI	108	IVI	the developer bias	1
	oper	(Text/Photo/OHP film)		10 200		adjustment (05-205).	
834	Devel-	Developer bias DC correc-	PRT	108	М		1
	oper	tion (Toner Saving Mode/OHP		<0-255>			
		film)					
835	Devel-	Developer bias DC correc-	PPC	108	М	-	1
	oper	tion		<0-255>			
836	Devel	(Text/Photo/OHP IIIm)	PPC	108	М	-	1
000	oper	tion	110	<0-255>	171		
	•	(Text/OHP film)					
837	Devel-	Developer bias DC correc-	PPC	108	М		1
	oper	(Photo/OHP film)		<0-255>			
838	Image	Switching of recycled toner	ALL	0	М	0: Switched	1
	process-	saving control		<0-1>		1: Not switched	
000	ing	O a mar attice a law to mar a mature (0		Octo the competing here	4
039	process-	humidity	ALL	<0-3>	IVI	temperature/humidity.	I
	ing					0: All valid	
						1: All invalid	
						toner sensor	
						3: All valid except	
						transfer and separa-	
						lion	

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
849	General	Power source setting for destination	ALL	SAD: 1 Others: 0 <0-1>	М	0: Other than SAD 1: SAD	1
859	Devel- oper	Developer bias DC correc- tion (Toner saving mode)	PRT	128 <0-255>	М	Corrects the value of the developer bias adjustment (05-205).	1
860	Devel- oper	Developer bias DC correc- tion (Normal)	PRT	128 <0-255>	М	Corrects the value of the developer bias adjustment (05-205).	1
861	Devel- oper	Developer bias DC correc- tion (Text/Photo)	PPC	128 <0-255>	М	Corrects the value of the developer bias adjustment (05-205).	1
862	Devel- oper	Developer bias DC correc- tion (Text)	PPC	128 <0-255>	М	Corrects the value of the developer bias adjustment (05-205).	1
863	Devel- oper	Developer bias DC correc- tion (Photo)	PPC	128 <0-255>	М	Corrects the value of the developer bias adjustment (05-205).	1
864	Charger	Main charger bias correc- tion (Normal)	PRT	128 <0-255>	М	Corrects the value of the main charger bias adjustment (05-210).	1
865	Charger	Main charger bias correc- tion (Text/Photo)	PPC	128 <0-255>	М	Corrects the value of the main charger bias adjustment (05-210).	1
866	Charger	Main charger bias correc- tion (Text)	PPC	128 <0-255>	М	Corrects the value of the main charger bias adjustment (05-210).	1
867	Charger	Main charger bias correc- tion (Photo)	PPC	128 <0-255>	М	Corrects the value of the main charger bias adjustment (05-210).	1
868	Transfer	Transfer transformer DC correction (H)	ALL	128 <0-255>	М	Corrects the value of the transfer trans- former DC output adjustment (05-220).	1
869	Transfer	Transfer transformer DC correction (L)	ALL	128 <0-255>	М	Corrects the value of the transfer trans- former DC output adjustment (05-222).	1
870	Separa- tion	Separation transformer DC correction (H)	ALL	128 <0-255>	М	Corrects the value of the separation trans- former DC output adjustment (05-233).	1
871	Separa- tion	Separation transformer DC correction (L)	ALL	128 <0-255>	М	Corrects the value of the separation trans- former DC output adjustment (05-235).	1
872	Laser	Laser power correction (Normal)	PRT	128 <0-255>	М	Corrects the value of the laser power adjust- ment (05-286).	1
873	Laser	Laser power correction (Text/Photo)	PPC	128 <0-255>	М	Corrects the value of the laser power adjust- ment (05-286).	1

		Setting mo	de (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
					Default			
Code	Classifi-	ltem	S	Func-	<accept-< td=""><td>RAM</td><td>Contents</td><td>Proce-</td></accept-<>	RAM	Contents	Proce-
0000	cation			tion	able	1 VAIII	Contonito	dure
					value>			
875	Laser	Laser power co (Toner saving n	node)	PRT	128 <0-255>	М	Corrects the value of the laser power adjust- ment (05-286).	1
876	Laser	Laser power co (Text)	prrection	PPC	128 <0-255>	М	Corrects the value of the laser power adjust- ment (05-286).	1
877	Laser	Laser power co (Photo)	prrection	PPC	128 <0-255>	М	Corrects the value of the laser power adjust- ment (05-286).	1
886	Fuser	Temperature dr setting in ready (Temperature/T	rop control status ime)	ALL	2 <0-20>	Μ	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 7 8: Pattern 8 9: Pattern 9 10: Pattern 10 11: Pattern 10 11: Pattern 11 12: Pattern 13 14: Pattern 14 15: Pattern 15 16: Pattern 17 18: Pattern 18 19: Pattern 19 20: Manual adjustment	1
896-0	Fuser	Temperature control lower limit (Plain paper/	Center themistor	ALL	7 <0-12>	М	0: 130°C 1: 135°C 2: 140°C 3: 145°C 4: 150°C 5: 155°C 6: 160°C 7: 165°C	4
896-1		Low tempera- ture)	Side themistor	ALL	5 <0-12>	М	8: 170°C 9: 175°C 10: 180°C 11: 185°C 12: 120°C	4
900	Version	System firmwai sion	re ROM ver-	ALL	-	-	JPN: T377SY0JXXX UC: T377SY0UXXX EUR: T377SY0EXXX Others: T377SY0XXXX	2
903	Version	Engine ROM ve	ersion	ALL	-	-	377M-XXX	2
905	Version	Scanner ROM	version	ALL	-	-	377S-XXX	2
907	Version	RADF ROM ve	rsion	ALL	-	-	DF-XXXX	2
908	Version	Finisher ROM	version	ALL	-	-	SDL-XX FIN-XX	2
915	Version	Fax board ROM	/ version	FAX	-	-	F562-XXX	2
920	Version	FROM basic se ware version	ection soft-	ALL	-	-	VX.XX/X.XX	2
921	Version	FROM internal	program	ALL	-	-	VXXX.XXX X	2
922	Version	UI data fixed se	ection ver-	ALL	-	-	VXXX.XXX X	2
923	Version	UI data commo version	n section	ALL	-	-	VXXX.XXX X	2
924	Version	Version of UI da guage 1 in HDI	ata lan-)	ALL	-	-	VXXX.XXX X	2

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>										
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure			
925	Version	Version of UI data lan- guage 2 in HDD	ALL	-	-	VXXX.XXX X	2			
926	Version	Version of UI data lan- guage 3 in HDD	ALL	-	-	VXXX.XXX X	2			
927	Version	Version of UI data lan- guage 4 in HDD	ALL	-	-	VXXX.XXX X	2			
928	Version	Version of UI data lan- guage 5 in HDD	ALL	-	-	VXXX.XXX X	2			
929	Version	Version of UI data lan- guage 6 in HDD	ALL	-	-	VXXX.XXX X	2			
930	Version	Version of UI data in FROM displayed at power- ON	ALL	-	-	VXXX.XXX X	2			
931	Version	Version of UI data lan- guage 7 in HDD	ALL	-	-	VXXX.XXX X	2			
933	Version	Web data whole version	ALL	-	-	VXXX.XXX X	2			
934	Version	Web UI data in HDD Version: Language 1	ALL	-	-	VXXX.XXX X	2			
935	Version	Web UI data in HDD Version: Language 2	ALL	-	-	VXXX.XXX X	2			
936	Version	Web UI data in HDD Version: Language 3	ALL	-	-	VXXX.XXX X	2			
937	Version	Web UI data in HDD Version: Language 4	ALL	-	-	VXXX.XXX X	2			
938	Version	Web UI data in HDD Version: Language 5	ALL	-	-	VXXX.XXX X	2			
939	Version	Web UI data in HDD Version: Language 6	ALL	-	-	VXXX.XXX X	2			
944	Version	HD version	ALL	-	-	JPN: T377HD0JXXX UC: T377HD0UXXX EUR: T377HD0EXXX Others: T377HD0XXXX	2			
945	Network	Two-way setting of RawPort 9100	ALL	2 <1-2>	UTY	1: Valid 2: Invalid	12			
947	General	Initialization after software version upgrade	ALL	-	-	Perform this code when the software in this equipment has been upgraded.	3			
949	General	Automatic interruption page setting during printing	ALL	0 <0-100>	SYS	Sets the number of pages to interrupt the printing automatically. 0-100: 0 to 100 pages	1			
950 953	Elec- tronic Fil- ing User	Start-up method of Elec- tronic Filing Access code entry for	ALL	0 <0-2>	SYS	 Sets the start-up method of the Elec- tronic Filing. 0: Standard 1: Forced start-up (Not recovered) 2: Forced start-up (Recovered) 0: Renewed automati- 	1			
	interface	Electronic Filing printing		<0-1>		cally 1: Enter every time				

Setting mode (08) <e-studio202l 203l="" 232="" 282="" 283=""></e-studio202l>										
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure			
954	User interface	Clearing timing for files and Electronic Filing Agent	ALL	1 <0-1>	SYS	 0: Immediately after the completion of scanning 1: Cleared by Auto Clear 	1			
969	User interface	Error sound	ALL	1 <0-1>	SYS	0: OFF 1: ON	1			
970	User interface	Sound setting when switching to Energy Saving Mode	ALL	JPN: 0 Other: 1 <0-1>	SYS	0: OFF 1: ON	1			
972	User interface	Enables/disables the dis- play that the toner is nearly empty	ALL	0 <0-1>	SYS	0: Disabled 1: Enabled	1			
973	Network	PCL line feed code setting	PRT	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			
975	General	Job handling when print- ing is short paid with coin controller	ALL	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			
976	Elec- tronic Fil- ing	Equipment name and user name setting to a folder when saving files	ALL	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			
977	Network	Switching of extended ASCII code in catFs file- system	ALL	0 <0-1>	SYS	0: ISO8859-1 1: ISO8859-2	1			
978	Network	Raw printing job (Paper feeding drawer)	PRT	0 <0-5>	SYS	0: AUTO 1: Upper drawer 2: Lower drawer 3: PFP upper drawer 4: PFP lower drawer 5: LCF	1			

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/23</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/23	32/233/2	282/283>	
				Default			
Code	Classifi-	Items	Func-	<accept-< th=""><th>RAM</th><th>Contents</th><th>Proce-</th></accept-<>	RAM	Contents	Proce-
	cation		tion	able			dure
				value>	01/0		
575	Network	(PCL symbol set)	PKI	<0-39>	575	 ISO 8859/1 Latin 1 ISO 8859/1 Latin 1 ISO 8859/2 Latin 2 ISO 8859/9 Latin 5 PC-8,Code Page 437 PC-8,Code Page 437 PC-8 D/N, Danish/ Norwegian PC-852, Latin2 PC-8 Turkish Windows 3.1 Latin 1 Windows 3.1 Latin 2 Windows 3.1 Latin 5 DeskTop PS Text Ventura Interna- tional Ventura US Microsoft Publishing Math-8 PS Math Ventura Math Pi Font Legal ISO 4: United King- dom ISO 6: ASCII ISO 15: Italian ISO 60: Danish/Nor- wegian ISO 69: French Windows 3.0 Latin 1 MC Text PC Cyrillic ITC Zapf Dingbats Vindows Baltic Windows Baltic Windows Baltic Wingdings 	
980	Elec- tronic Fil- ing	Electronic Filing data retention period when NIC board is not installed (Public Box)	ALL	0 <0-999>	SYS	0: Retention OFF 1 to 999: 1 to 999 days	1
981	Elec- tronic Fil- ing	Electronic Filing data retention period when NIC board is not installed (User Box)	ALL	0 <0-999>	SYS	0: Retention OFF 1 to 999: 1 to 999 days	1
983	User interface	JOB STATUS initial screen setting	ALL	0 <0-1>	SYS	0: Print 1: Private	1
985	Elec- tronic Fil- ing	Print mode setting of mixed input source of Electronic Filing	ALL	0 <0-1>	SYS	 Image quality prior- ity mode Function priority mode 	1

	Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>									
			_	Default			_			
Code	Classifi-	Items	Func-	<accept-< th=""><th>RAM</th><th>Contents</th><th>Proce-</th></accept-<>	RAM	Contents	Proce-			
	cation		tion	able			dure			
000			000	value>	0)/0	Out all a second for all a	4			
986	General	Copy function setting	PPC	0	SYS	Sets the copy function	1			
				S0-12		0: Valid				
						1: Invalid				
988	Paper	Setting of paper size	ALL	0	SYS	0: Not switched	1			
	feeding	switching to 13" LG		<0-2>		1: LG →13"LG				
						2: FOLIO →13"LG				
995	Version	Equipment number (serial	ALL	0	SYS	This code can be also	11			
		number) display		<10 alg-		Reyed in from the				
				113-		976).				
						10 digits				
999	Mainte-	FSMS total counter	ALL	0	SYS	Refers to values of total	1			
	nance			<8 digits>		counter				
1002	Network	Selection of NIC board sta-	ALL	1	NIC	1: Not printed out	12			
		tus information		<1-2>		when the equipment				
						2: Printed out when				
						the equipment is				
						restarted				
1003	Network	Communication speed and	ALL	1	NIC	1: Auto	12			
		settings of Ethernet		<1-5>		2: 10MBPS Half				
						3: 10MBPS Full				
						4 [·] 100MBPS Half				
						Duplex				
						5: 100MBPS Full				
						Duplex				
1006	Network	Address Mode	ALL	2	NIC	1: Fixed IP address	12			
				<1-3>		2: Dynamic IP address				
						3: Dynamic IP address				
						(DHCP) without				
						ÀutoIP				
1007	Network	Domain name	ALL	-	NIC	Maximum 96 letters	12			
1008	Network	IP address	ALL	-	NIC	000.000.000.000-	12			
						255.255.255.255				
						000.000.000.000)				
1009	Network	Subnet mask	ALL	-	NIC	000.000.000.000-	12			
						255.255.255.255				
						(Default value				
						000.000.000.000)				
1010	Network	Gateway	ALL	-	NIC	000.000.000.000-	12			
						200.200.200.200 (Default value				
						000.000.000.000)				
1011	Network	Availability of IPX	ALL	1	NIC	1: Available	12			
				<1-2>	_	2: Not available				
1012	Network	Network frame type	ALL	1	NIC	1: Automatic	12			
				<1-5>		2: IEEE802.3				
						5' IFFF802 2				
			l				1			

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>								
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure	
1013	Network	Availability of NCP Burst	ALL	1 <1-2>	NIC	1: Available 2: Not available	12	
1014	Network	Availability of AppleTalk	ALL	1 <1-2>	NIC	1: Available 2: Not available	12	
1015	Network	Zone setting of AppleTalk	ALL	*	NIC	Maximum 32 letters *: Wildcard character	12	
1016	Network	Availability of LDAP	ALL	1 <1-2>	NIC	1: Available 2: Not available	12	
1017	Network	Availability of DNS	ALL	1 <1-2>	NIC	1: Available 2: Not available	12	
1018	Network	IP address to DNS server (Primary)	ALL	-	NIC	000.000.000.000- 255.255.255.255 (Default value 000.000.000.000)	12	
1019	Network	IP address to DNS server (Secondary)	ALL	-	NIC	000.000.000.000- 255.255.255.255 (Default value 000.000.000.000)	12	
1020	Network	DDNS Desired level	ALL	1 <1-5>	NIC	1: Invalid 2: Via DHCP 3: Insecure DDNS 4: Secure DDNS 5: Multi-secure DDNS	12	
1023	Network	NetBios name	ALL	MFP_ serial	UTY	Maximum 15 letters The Network-related serial number of the equipment appears at "serial"	12	
1024	Network	Name of WINS server or IP address (Primary)	ALL	-	UTY	000.000.000.000- 255.255.255.255 (Default value 000.000.000.000)	12	
1025	Network	Name of WINS server or IP address (Secondary)	ALL	-	UTY	000.000.000.000- 255.255.255.255 (Default value 000.000.000.000)	12	
1026	Network	Availability of Bindery	ALL	1 <1-2>	NIC	1: Available 2: Not available	12	
1027	Network	Availability of NDS	ALL	1 <1-2>	NIC	1: Available 2: Not available	12	
1028	Network	Directory service context	ALL	-	NIC	Maximum 127 letters	12	
1029	Network	Directory service tree	ALL	-	NIC	Maximum 47 letters	12	
1030	Network	Availability of HTTP server	ALL	1 <1-2>	NIC	1: Available 2: Not available	12	
1031	Network	Port number to NIC HTTP server	ALL	80 <1- 65535>	NIC		12	
1032	Network	Port number to system HTTP server	ALL	8080 <1- 65535>	SYS		1	
1037	Network	Availability of SMTP client	ALL	1 <1-2>	NIC	1: Available 2: Not available	12	
1038	Network	FQDN or IP address to SMTP server	ALL	-	NIC	Maximum 128 Bytes	12	

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>									
				Default					
Codo	Classifi-	Itoms	Func-	<accept-< th=""><th>Рлм</th><th>Contonte</th><th>Proce-</th></accept-<>	Рлм	Contonte	Proce-		
Coue	cation	nems	tion	able		contents	dure		
				value>					
1039	Network	TCP port number of SMTP	ALL	25	NIC		12		
		client		<1-					
				65535>					
1040	Network	Availability of SMTP server	ALL	1	UTY	1: Available	12		
				<1-2>		2: Not available			
1041	Network	TCP port number of SMTP	ALL	25	UTY		12		
		server		<1-					
				65535>					
1042	Network	E-mail box name to SMTP	ALL	-	UTY	Maximum 192 letters	12		
		server							
1043	Network	Availability of Offramp	ALL	2	UTY	1: Available	12		
				<1-2>		2: Not available			
1044	Network	Offramp security	ALL	1	UTY	1: Available	12		
				<1-2>		2: Not available			
1045	Network	Printing at Offramp	ALL	1	UTY	1: Available	12		
				<1-2>		2: Not available			
1046	Network	Availability of POP3 clients	ALL	1	NIC	1: Available	12		
				<1-2>		2: Not available			
1047	Network	FQDN or IP address to	ALL	-	NIC	Maximum 128 Bytes	12		
		POP3 server							
1048	Network	Types of POP3 server	ALL	1	NIC	1: Automatic	12		
				<1-3>		2: POP3			
						3: APOP			
1049	Network	Login name to POP3	ALL	-	NIC	Maximum 96 letters	12		
		server							
1050	Network	Login password to POP3	ALL	-	NIC	Maximum 96 letters	12		
1051	Network	E-mail reception interval	ALL	5	NIC		12		
		(Unit: Minute)		<0-4096>					
1052	Network	TCP port number of POP3	ALL	110	NIC		12		
		client		<1-					
				65535>					
1055	Network	TCP port number of FTP	ALL	21	UTY		12		
		client		<1-					
				65535>					
1057	Network	Login name to FTP server	ALL	-	SYS	Maximum 31 letters	11		
1058	Network	Login password to FTP	ALL	-	SYS	Maximum 31 letters	11		
		server							
1059	Network	Availability of FTP server	ALL	1	NIC	1: Available	12		
		5		<1-2>		2: Not available			
1060	Network	TCP port number of FTP	ALL	21	UTY		12		
		server		<1-					
				65535>					
1061	Network	Login name to FTP client	ALL	-	SYS	Maximum 31 letters	11		
1062	Network	Login password to FTP cli-	ALL	-	SYS	Maximum 31 letters	11		
-		ent			_				
1063	Network	MIB function	ALL	1	NIC	1: Valid	12		
				<1-2>	_	2: Invalid			
1065	Network	Setting of read Community	ALL	public	NIC	Maximum 31 letters	12		
1066	Network	Setting of read/Write Com-	ALI	private	NIC	Maximum 31 letters	12		
		munity		F					
1067	Network	Authentication TRAP func-	ALI	1	NIC	1: Valid	12		
		tion		<1-2>		2: Invalid			
1068	Network	ALERTS TRAP function	ALI	1	NIC	1: Valid	12		
				<1-2>		2: Invalid			

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>								
				Default				
Codo	Classifi-	Itomo	Func-	<accept-< th=""><th>DAM</th><th>Contonto</th><th>Proce-</th></accept-<>	DAM	Contonto	Proce-	
Code	cation	items	tion	able	KAIVI	Contents	dure	
				value>				
1069	Network	TRAP destination IP address	ALL	-	UTY	000.000.000.000- 255.255.255.255 (Default value 000.000.000.000)	12	
1070	Network	Community setting of TRAP (via IP)	ALL	public	NIC	Maximum 31 letters	12	
1073	Network	Availability of Raw/TCP	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12	
1074	Network	TCP port number of Raw	ALL	9100 <1- 65535>	NIC		12	
1075	Network	Availability of LPD client	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12	
1076	Network	TCP port number of LPD	ALL	515 <1- 65535>	NIC		12	
1077	Network	LPD queue name	ALL	-	NIC	Maximum 31 letters	12	
1078	Network	Availability of IPP	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12	
1079	Network	Availability of IPP port number "80"	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12	
1080	Network	TCP port number of IPP	ALL	631 <1- 65535>	NIC		12	
1081	Network	IPP printer name	ALL	MFP_ serial	NIC	Maximum 127 letters The Network-related serial number of the equipment appears at "serial"	12	
1082	Network	IPP printer location	ALL	-	NIC	Maximum 127 letters	12	
1083	Network	IPP printer information	ALL	-	NIC	Maximum 127 letters	12	
1084	Network	IPP printer information (more)	ALL	-	NIC	Maximum 127 letters	12	
1085	Network	Installer of IPP printer driver	ALL	-	NIC	Maximum 127 letters	12	
1086	Network	IPP printer "Make and Model"	ALL	-	NIC	Maximum 127 letters	12	
1087	Network	IPP printer information (more) MFGR	ALL	-	NIC	Maximum 127 letters	12	
1088	Network	IPP message from opera- tor	ALL	-	NIC	Maximum 127 letters	12	
1089	Network	Availability of FTP print	ALL	1 <1-2>	NIC	1: Available 2: Not available	12	
1090	Network	Printer user name of FTP	ALL	print	NIC	Maximum 31 letters	12	
1091	Network	Printer user password of FTP	ALL	-	NIC	Maximum 31 letters	12	
1092	Network	TCP port number to FTP print server	ALL	21 <1- 65535>	NIC		12	
1093	Network	Login name to Novell print server	ALL	MFP_ serial	NIC	Maximum 47 letters The Network-related serial number of the equipment appears at "serial"	12	

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>							
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
1094	Network	Login password to Novell print server	ALL	-	NIC	Maximum 31 letters	12
1095	Network	Name of SearchRoot server	ALL	-	NIC	Maximum 31 letters	12
1096	Network	Scan rate setting of print queue	ALL	5 <1-255>	NIC	Unit: Second	12
1097	Network	Page number limitation for printing text of received E- mail	ALL	5 <1-99>	UTY		12
1098	Network	MDN return mail setting when receiving E-mail	ALL	2 <1-2>	UTY	1: Valid 2: Invalid	12
1099	Network	Trap destination of IPX	ALL	-	UTY	Maximum 24 letters (Valid from 0 to 9 and from A to F)	12
1100	Network	Method of SMTP server authentication	ALL	5 <1-7,10>	NIC	1: Disable 2: Plain 3: Login 4: Cram-MD5 5: Digest MD5 6: Kerberos 7: NTLM 10: Auto	12
1101	Network	Login name for SMTP server authentication	ALL	-	NIC	Maximum 64 letters	12
1102	Network	Login password for SMTP server authentication	ALL	-	NIC	Maximum 64 letters	12
1103	Network	Rendezvous setting	ALL	1 <1-2>	NIC	1: Valid 2: Invalid	12
1104	Network	Link local host name	ALL	MFP_ serial	NIC	Maximum 127 letters The Network-related serial number of the equipment appears at "serial"	12
1105	Network	Service name setting	ALL	Refer to content	NIC	Maximum 63 letters The Network-related serial number of the equipment appears at "serial" <default value=""> e-STUDIO202L: TOSHIBA e- STUDIO203L_serial e-STUDIO203L_serial e-STUDIO232: TOSHIBA e- STUDIO233_serial e-STUDIO233_serial e-STUDIO233_serial e-STUDIO282_serial e-STUDIO282_serial e-STUDIO282_serial e-STUDIO283_serial</default>	12

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>							
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
1112	Network	Host name	ALL	MFP_seri al	NIC	Maximum 63 letters The Network-related serial number of the equipment appears at "serial"	12
1113	Network	Windows domain No.1 of user authentication	ALL	-	UTY	Maximum 128 letters	12
1114	Network	Sending mail text of Inter- netFAX	ALL	1 <0-1>	SYS	0: Invalid (Not sending the mail text) 1: Valid (Sending the mail text)	1
1117	Network	SMB time-out period	ALL	300 <1-9999>	SYS	Unit: Second	1
1118	General	Clearing of TAT partition	ALL	-	SYS		3
1119	Network	Initialization of NIC infor- mation	ALL	-	-	Initializes only the infor- mation of the Network setting items.	3
1121	Network	PDC (Primary Domain Controller) name	ALL	-	UTY	Maximum 128 letters	12
1122	Network	BDC (Backup Domain Controller) name	ALL	-	UTY	Maximum 128 letters	12
1123	Network	NT domain ON/OFF set- ting	ALL	4 <3-4>	UTY	 3: ON (Domain selected) 4: OFF (Work group selected) 	12
1124	Network	Workgroup name	ALL	work- group	UTY	Maximum 15 letters	12
1125	General	Data writing of address book data import (overwriting method)	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
1126	Counter	Validity of interrupt copy- ing when external counters are installed	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
1128	Network	NetwareUserAuthTree Name1	ALL	-	UTY	Maximum 47 letters	12
1129	Network	NetwareUserAuthContext Name1	ALL	-	UTY	Maximum 127 letters	12
1130	User interface	Job Build Function	ALL	1 <0-1>	SYS	Sets the Job Build Function. 0: Invalid 1: Valid	1
1131	User interface	Maximum number of time job build performed	ALL	2000 <5-2000>	SYS	Sets the maximum number of time a job build has been per- formed. 5-2000: 5 to 2000 times	1
1132	General	Default screen selection of the User Function menu	ALL	1 <0-1>	SYS	Selects the default screen when entering the User Function menu by pressing the [USER FUNCTIONS] button. 0: ADDRESS 1: COUNTER	1

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
1133	Paper feeding	Feeding direction setting of envelope	ALL	0 <0-1>	SYS	 Sets the feeding direction of envelopes. D: 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
1134	Network	NetwareUserAuthTree Name2	ALL	-	UTY	Maximum 47 letters	12
1135	Paper feeding	Default setting of drawers (Printer/BOX)	PRT	1 <1-5>	SYS	1: LCF 2: Upper drawer 3: Lower drawer 4: PFP upper drawer 5: PFP lower drawer	1
1138	Network	LDAP search method set- ting	ALL	0 <0-3>	SYS	Sets the search method when performing a LDAP search. 0: Partial match 1: Prefix match 2: Suffix match 3: Full match	1
1139	Network	LDAP authentication set- ting	ALL	0 <0-1>	SYS	0: Not authenticated 1: Authenticated	1
1140	User interface	Restriction of the template function with the adminis- trator privilege	ALL	0 <0-1>	SYS	Selects the restriction of the template function usage setting. 0: No restriction 1: Only available with the administrator privilege.	1
1141	Network	Display of MAC address	ALL	-	SYS	(**.**.**:**:**) The address is dis- played as above (6-byte data is divided by a colon at every 2 bytes).	2
1143	Network	NetwareUserAuthContext Name2	ALL	-	UTY	Maximum 127 letters	12
1144	Network	NetwareUserAuthTree Name3	ALL	-	UTY	Maximum 47 letters	12
1145	Mainte- nance (Remote)	Counter notification Remote FAX setting	ALL	-	SYS	Maximum 32 digits Enter hyphen with the [MONITOR/PAUSE] button.	11
1148	Network	NetwareUserAuthContext Name3	ALL	-	UTY	Maximum 127 letters	12
1149	General	Enhanced bold for PCL6	ALL	0 <0-1>	SYS	0:OFF 1:ON	1

2 - 211 07/11

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
1372	Counter	Heater and energizing time accumulating counter Dis- play/0 clearing	ALL	0 <8 digits>	Μ	Counts up the heater control time accumu- lated (when power of the equipment is ON) but does not count at the Sleep Mode. When the counter value of the fuser roller is cleared, this counter value is also cleared in sync at the PM support mode.	1
1376	Counter	Toner cartridge drive counter	ALL	0 <8 digits>	М	Counts the rotation number of the toner cartridge.	1
1378	Counter	Counter for period of time fuser unit is at ready tem- perature	ALL	0 <8 digits>	Μ	Counts up the heater control time accumu- lated (when the equip- ment is at ready status). When the counter value of the fuser roller is reset, this counter is also reset in sync at the PM support mode.	1
1380	Counter	Counter for period of time fuser unit is at printing tem- perature	ALL	0 <8 digits>	М	Counts up the heater control time accumu- lated (during printing). When the counter value of the fuser roller is reset, this counter is also reset in sync at the PM support mode.	1
1382	Image process- ing	Counter for period of time fuser unit is at energy sav- ing temperature/Counter reset Number of output pages (Thick paper 1)	ALL	0 <8 digits> 0 <8 digits>	M	Counts up the heater control time accumu- lated (when the equip- ment is in the Energy Saving Mode). When the counter value of the fuser roller is reset, this counter is also reset in sync at the PM support mode. 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
1386	Image process- ing	Number of output pages (Thick paper 2)	ALL	0 <8 digits>	М	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

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>							
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
1387	Image process- ing	Number of output pages (Thick paper 3)	ALL	0 <8 digits>	М	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
1388	Image process- ing	Number of output pages (OHP film)	ALL	0 <8 digits>	М	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
1390	Paper feeding	Feeding retry counter (upper drawer)	ALL	0 <8 digits>	М	Counts the number of times of the feeding retry from the upper drawer.	1
1391	Paper feeding	Feeding retry counter (lower drawer)	ALL	0 <8 digits>	М	Counts the number of times of the feeding retry from the lower drawer.	1
1392	Paper feeding	Feeding retry counter (PFP upper drawer)	ALL	0 <8 digits>	М	Counts the number of times of the feeding retry from the PFP upper drawer.	1
1393	Paper feeding	Feeding retry counter (PFP lower drawer)	ALL	0 <8 digits>	М	Counts the number of times of the feeding retry from the PFP lower drawer.	1
1394	Paper feeding	Feeding retry counter (bypass feed)	ALL	0 <8 digits>	М	Counts the number of times of the feeding retry from the bypass tray.	1
1395	Paper feeding	Feeding retry counter (LCF)	ALL	0 <8 digits>	М	Counts the number of times of the feeding retry from the LCF.	1
1396	Paper feeding	Feeding retry counter upper limit value (Upper drawer)	ALL	0 <8 digits>	М	When the number of feeding retry (08-1390 to 08-1395) exceeds	1
1397	Paper feeding	Feeding retry counter upper limit value (Lower drawer)	ALL	0 <8 digits>	М	the setting value, the feeding retry will not be performed subse-	1
1398	Paper feeding	Feeding retry counter upper limit value (PFP upper drawer)	ALL	0 <8 digits>	М	quently. In case "0" is set as a setting value, however, the feeding	1
1399	Paper feeding	Feeding retry counter upper limit value (PFP lower drawer)	ALL	0 <8 digits>	М	less of the counter set- ting value.	1
1400	Paper feeding	Feeding retry counter upper limit value (Bypass feed)	ALL	0 <8 digits>	М		1
1401	Paper feeding	Feeding retry counter upper limit value (LCF)	ALL	0 <8 digits>	М		1

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>								
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure	
1410	Counter	Counter for period of toner cartridge rotation time	ALL	0 <8 digits>	М	Counts up the period of rotation time of the toner cartridge.	1	
1411	Counter	Counter for envelope	ALL	0 <8 digits>	Μ	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	
1422	Data overwrite kit	HDD data overwriting type setting	ALL	0 <0-2>	SYS	Select the type of the overwriting level; LOW, MEDIUM, or HIGH for deleting HDD data. (This setting is enabled only when the GP-1060 is installed.) 0: LOW 1: MEDIUM 2: HIGH	1	
1424	Data overwrite kit	HDD data clearing type setting (forcible clearing)	ALL	0 <0-2>	SYS	Select the type of the overwriting level; LOW, MEDIUM, or HIGH for deleting HDD data. (This setting is enabled only when the GP-1060 is installed.) 0: LOW 1: MEDIUM 2: HIGH	1	
1426	Data overwrite kit	Forcible HDD data clearing	ALL	-	-	HDD data is cleared in the procedure set in 08- 1424. * This setting is enabled only when the GP-1060 is installed.	3	
1427	Data overwrite kit	Forcible NVRAM data all clearing	ALL	-	-	When this code is per- formed, the equipment cannot be started up. * This setting is enabled only when the GP-1060 is installed.	3	
1428	Data overwrite kit	Forcible SRAM backup data all clearing	ALL	-	-	When this code is per- formed, the equipment cannot be started up. * This setting is enabled only when the GP-1060 is installed.	3	
1429	User interface	Margin width (Top/Bottom, Left/Right)	ALL	Front: 7/ Back: 7 <2-100/- 100-100>	SYS	This setting is not reflected in "Right", even if the value less than 2 is set for "Back".	10	
1430	User interface	Margin width (Bookbinding margin)	ALL	14 <2-30>	SYS		1	

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>								
				Default				
Code	Classifi-	Items	Func-	<accept-< th=""><th>RAM</th><th>Contents</th><th>Proce-</th></accept-<>	RAM	Contents	Proce-	
ooue	cation	items	tion	able		oontenta	dure	
				value>				
1431	Network	ACC (AT_CASETTE_CHANGE) for Printer/Box printing	ALL	1 <0-2>	SYS	 ACC prohibited Only in the same paper direction In both same direc- tion and different directions 	1	
1432	Network	Mode only for Private Print	ALL	0 <0-1>	SYS	0: Normal mode 1: Mode for Private Print	1	
1435	Network	"Disable private and proof print save" function	ALL	0 <0-1>	SYS	 Function OFF (no restriction on data saving or other operations) Function ON (Data saving or other operations are restricted) 	1	
1436	Network	"Disable fax save" function	ALL	0 <0-1>	SYS	 Function OFF (no restriction on data saving or other operations) Function ON (Data saving or other operations are restricted 	1	
1437	Paper feeding	Hole punch on tab paper	ALL	0 <0-1>	SYS	0: No hole punch 1: Hole punch	1	
1438	Paper feeding	Automatic feed setting of tab paper and insertion sheet (Remote)	ALL	1 <0-1>	SYS	0: Disabled 1: Enabled	1	
1439	Paper feeding	Automatic feed setting of tab paper and insertion sheet (Local)	ALL	1 <0-1>	SYS	0: Disabled 1: Enabled	1	
1440	Network	IP Conflict Detect	ALL	1 <1-2>	-	OFF/ON 1: Valid 2: Invalid	12	
1441	Network	SNTP Enable	ALL	2 <1-2>	-	OFF/ON 1: Valid 2: Invalid	12	
1442	Network	SNTP Polling rate	ALL	24 <1-168>	-	Data obtaining interval (Unit: Hour)	12	
1444	Network	Primary SNTP Address	ALL	-	-	SNTP server IP Address (Primary)	12	
1445	Network	Secondary SNTP Address	ALL	-	-	SNTP server IP Address (Secondary)	12	
1446	Network	Port number to SNTP	ALL	123 <1- 65535>	-	· · · · · (· · · · · · · · · · · · · ·	12	
1447	Network	IPP administrator name	ALL	-	-	This should be an account which can con- trol all IPP jobs.	12	
1448	Network	IPP administrator pass- word	ALL	-	-	This should be the password of an account which can control all IPP jobs.	12	

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>								
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure	
1449	Network	IPP authentication method	ALL	1 <1-4>	-	 Disabled Basic Digest Basic Digest 	12	
1450	Network	User name for IPP authen- tication	ALL	-	-	This should be the account at the time IPP authentication was per- formed.	12	
1451	Network	Password for IPP authenti- cation	ALL	-	-	This should be the password of the account at the time IPP authentication was per- formed.	12	
1464	Network	Samba server ON/OFF setting	ALL	1 <1-4>	NIC	1: Samba enabled 2: Samba disabled 3: Print Share disabled 4: File Share disabled	12	
1470	General	Device authentication func- tion setting	ALL	0 <0-1>	SYS	0: OFF 1: ON	1	
1471	General	User authentication method	ALL	0 <0-5>	SYS	0: Local 1: NTLM (NT Domain) 2: LDAP 3: Kerberos (Active Directory) 4: Netware	1	
1472	General	User data management automatic registration func- tion setting	ALL	0 <0-1>	SYS	0: Disabled 1: Enabled	1	
1473	General	User data management limitation setting	ALL	0 <0-1>	SYS	0: Disabled 1: Enabled	1	
1474	General	User data management limitation Setting by number of print- outs	ALL	0 <7 digits>	SYS	0-9,999,999: 0-9,999,999 sheets	1	
1476	Network	Restriction on Address book operation by adminis- trator	ALL	0 <0-1>	SYS	Some restrictions can be given on the admin- istrator for operating the Address book. 0: No restriction 1: Can be operated only under the administrator's authorization	1	
1477	Network	Restriction on "To" ("cc") address	ALL	0 <0-3>	SYS	 No restriction Can be set from both of the Address book and LDAP server Can be set only from the Address book Can be set only from the LDAP server 	1	
1478	User interface	Display of paper size set- ting by installation opera- tion of drawers	ALL	JPN: 0 UC: 1 EUR: 0 <0-1>	SYS	0: Not displayed 1: Displayed	1	

e-STUDIO200L/202L/203L/230/230L/232/233/280/282/283 ERROR CODE AND SELF-DIAGNOSTIC MODE

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		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
1479	User interface	Default setting of sharp- ness	ALL	5 <1-9>	SYS	1: -4 2: -3 3: -2 4: -1 5: 0 6: +1 7: +2 8: +3 9: +4	1
1481	General	User data management clearing	ALL	-	-	All the user data in the database and backup files can be deleted.	3
1482	General	User data department management	ALL	0 <0-1>	SYS	0: Invalid 1: Valid * When this code is set to "1" (Valid), the department man- agement setting (08-629) should be "1" (Valid).	1
1483	General	User data recovery	ALL	-	-	The data in the data- base is overwritten with the data in the backup file.	3
1484	Network	Authentication method of "Scan to Email"	ALL	0 <0-2>	SYS	 Disable SMTP authentication LDAP authentication 	1
1485	Network	Setting whether use of Internet FAX is permitted or not when it is given an authentication	ALL	0 <0-1>	SYS	0: Not permitted1: Permitted	1
1487	Network	"From" address assign- ment method when it is given an authentication	ALL	0 <0-2>	SYS	 "User name" + @ + "Domain name" LDAP search Use the address registered in "From" field of E-mail set- ting 	1
1489	Network	Setting for "From" address edit at "Scan to Email"	ALL	0 <0-1>	SYS	0: Not permitted 1: Permitted	1
1491	Network	E-mail domain name	ALL	-	SYS	96+2 (delimiter) charac- ter ASCII sequence only	11
1492	Paper feeding	Detection method of 13" LG for single-size docu- ment	ALL	0 <0-1>	SYS	0: Disabled 1: Enabled	1
1493	Network	Role Base Access Func- tion	ALL	0 <0-1>	SYS	 Function off (No restriction on data saving and other operations) Function on (Data saving and other operations have some restrictions) 	1
1494	General	Limitation check method	ALL	0 <0-1>	SYS	0: Checked at every page printed1: Checked at every job printed	2

		Setting mo	ode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
	Olean ifi			F	Default			Durana
Code	cation	Item	IS	Func- tion	<accept-< th=""><th>RAM</th><th>Contents</th><th>Proce- dure</th></accept-<>	RAM	Contents	Proce- dure
	oution			uon	value>			uuro
1495	Mainte- nance	Service call che period setting	ecking	ALL	6 <0-12>	-	 0: No checking period specified (= Calls service technician immediately) 0: 10 minutes 1: 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) 	12
1496	General	Operation setti authentication/	ng for User registration	ALL	1 <0-1>	SYS	 0 : Disables operation setting for User authentication/regis- tration 1 : Enables operation setting for User authentication/regis- tration 	1
1497	Network	e-Filing Access Client)	Mode (for	ALL	0 <0-2>	SYS	0: Mode 1 1: Mode 2 2: Mode 3	1
1498	FAX	Inbound FAX fu (Forwarding by	unction 7 TSI)		1 <0-1>	SYS	0: OFF (Function disabled) 1: ON (Function enabled)	1
1530-0	Counter	Number of output pages	1-UP / Duplex printing	PPC	0 <8 digits>	SYS	Counts the number of output pages.	4
1530-1			2-UP / Duplex printing	PPC	0 <8 digits>	SYS	Counts the number of output pages using [2IN1] or [MAGAZINE SORT].	4
1530-2			2-UP / Simplex printing	PPC	0 <8 digits>	SYS	Counts the number of sheets using [2IN1] or [MAGAZINE SORT].	4
1530-3			4-UP / Duplex printing	PPC	0 <8 digits>	SYS	Counts the number of output pages using [4IN1].	4
1530-4			4-UP / Simplex printing	PPC	0 <8 digits>	SYS	Counts the number of sheets using [4IN1].	4
1530-7			1-UP / Simplex printing	PPC	0 <8 digits>	SYS	Counts the number of output pages.	4

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>								
					Default			
Code	Classifi-	Item	IS	Func-	<accept-< th=""><th>RAM</th><th>Contents</th><th>Proce-</th></accept-<>	RAM	Contents	Proce-
	cation			tion	able			dure
1522.0	Countor	Number of		DDT	value>	eve	Counto the number of	4
1555-0	Counter	output pages of the printer	Duplex printing	PRI	<8 digits>	515	output pages.	4
1533-1		or BOX	2-UP /	PRT	0	SYS	Counts the number of	4
			Duplex printing		<8 digits>		output pages using [2IN1] or [MAGAZINE SORT]. * When printing is performed using a Windows driver, the 1-UP image will be output.	
1533-2			2-UP / Simplex printing	PRT	0 <8 digits>	SYS	Counts the number of sheets using [2IN1] or [MAGAZINE SORT].	4
1533-3			4-UP / Duplex printing	PRT	0 <8 digits>	SYS	Counts the number of output pages using [4IN1].	4
1533-4			4-UP / Simplex printing	PRT	0 <8 digits>	SYS	Counts the number of sheets using [4IN1].	4
1533-5	-		N-UP / Duplex printing	PRT	0 <8 digits>	SYS	Counts the number of output pages using [N IN1].	4
1533-6			N-UP / Simplex printing	PRT	0 <8 digits>	SYS	Counts the number of sheets using [N IN1].	4
1533-7			1-UP / Simplex printing	PRT	0 <8 digits>	SYS	Counts the number of output pages .	4
1535-0	Counter	Number of output pages of the FAX	1-UP / Duplex printing	FAX	0 <8 digits>	SYS	Counts the number of sheets in the default settings.	4
1535-7		printing (1-UP / Duplex print- ing)	1-UP / Simplex printing	FAX	0 <8 digits>	SYS		4
1660	Wireless LAN	Wireless LAN o Radio ON/OFF	driver setting	ALL	1 <1-2>	-	1: OFF 2: ON	12
1661	Wireless LAN	Wireless LAN of SSID	driver	ALL	-	-	Maximum 32 letters	12
1662	Wireless LAN	Wireless LAN of Network type	driver	ALL	1 <1-2>	-	1: Infrastructure 2: Ad-Hoc	12
1663	Wireless LAN	Wireless LAN of Security	driver	ALL	4 <1-7>	-	1: 802.1x 2: WPA-PSK 3: WEP 4: NONE 5: WPA 6: WPA2 7: WPA2PSK	12
1664	Wireless LAN	Wireless LAN of Encryption sys	driver tem	ALL	1 <1-3>	-	1: TKIP 2: AES 3: Dynamic WEP	12
1665	Wireless LAN	Wireless LAN of Transmission of	driver output power	ALL	1 <1-5>	-	1: 100% 2: 50% 3: 25% 4: 12.5% 5: min	12
1666	Wireless LAN	Wireless LAN of Transmission r	driver ate	ALL	1 <1-2>	-	1: Auto 2: Manual	12

2 - 219 07/11

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
1667	Wireless LAN	Wireless LAN driver Transmission rate value	ALL	1 <1-12>	-	1: 1 2: 2 3: 5.5 4: 11 5: 6 6: 9 7: 12 8: 18 9: 24 10: 36 11: 48 12: 54	12
1668	Wireless LAN	Wireless LAN driver Operation channel	ALL	1 <1-2>	-	1: Auto 2: Manual	12
1669	Wireless LAN	Wireless LAN driver Operation channel value	ALL	1 <1-11>	-		12
1670	Wireless LAN	Wireless LAN driver WEP bit number	ALL	1 <1-3>	-	1: 64 2: 128 3: 152	12
1671	Wireless LAN	Wireless LAN driver WEP key entry system	ALL	2 <1-2>	-	1: Hex 2: ASCII	12
1672	Wireless LAN	Wireless LAN driver WEP key value	ALL	-	-	Maximum 32 letters	12
1673	Wireless LAN	Wireless LAN driver WPA-PSK passphrase	ALL	-	-	Maximum 64 letters	12
1674	Wireless LAN	Wireless LAN driver Sleep mode setting	ALL	1 <1-3>	-	1: Off 2: Max 3: Normal	12
1675	Wireless LAN	Wireless LAN driver Slot-time limitation	ALL	1 <1-2>	-	1: Long 2: Short	12
1676	Wireless LAN	Wireless LAN driver Number of times of soft- ware retry	ALL	5 <0-1000>	-		12
1677	Wireless LAN	Wireless LAN driver Preamble	ALL	1 <1-2>	-	1: Long 2: Longshort	12
1678	Wireless LAN	Wireless LAN driver Operation mode	ALL	1 <1-3>	-	1: All 2: 11b 3: 11g	12
1679	Wireless LAN	Wireless LAN supplicant Wireless LAN setting	ALL	1 <1-3>	-	This setting is whether the wireless LAN con- nection is enabled or disabled. 1: Unset 2: Enabled 3: Disabled	12
1681	Wireless LAN	Wireless LAN supplicant Path name for client certifi- cate	ALL	-	-	This should be the path name in full where the client certificate is located. (Maximum 255 letters)	12
1682	Wireless LAN	Wireless LAN supplicant Path name for secret key of client certificate	ALL	-	-	This should be the path name in full where the client certificate is located. (Maximum 255 letters)	12
1684	Wireless LAN	Wireless LAN supplicant Path name for CA self-cer- tificate	ALL	-	-	This should be the path name in full where the CA self-certificate is located. (Maximum 255 letters)	12
1685	Wireless LAN	Wireless LAN supplicant EAP user name	ALL	-	-	This should be the user name when the EAP- TLS is used.	12

Setting mode (08) <e-studio202l 203l="" 233="" 282="" 283=""></e-studio202l>									
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure		
1686	Wireless LAN	Wireless LAN supplicant EAP user name	ALL	-	-	This should be the user name when the PEAP is used.	12		
1689	Wireless LAN	Wireless LAN supplicant Authentication interval	ALL	30 <30- 65535>	-	This should be the time- out interval between EAP responses. 30: 30 seconds	12		
1690	Wireless LAN	Wireless LAN supplicant Holding interval	ALL	60 <60- 65535>	-	The EAP authentica- tion will start after hav- ing been waited in this period when an EAP failure was received. 60: 60 seconds	12		
1691	Wireless LAN	Wireless LAN supplicant EAPOL-Start Number of times of packet retry	ALL	3 <1- 65535>	-	When an EAPOL-Start packet has been sent and the request ID can- not be received, this EAPOL-Start packet will be re-sent for the num- ber of times set in this code. 3: 3 times	12		
1692	Wireless LAN	Wireless LAN supplicant Session resume	ALL	2 <1-2>	-	 This setting is whether the pre-master key should be updated or not upon a TLS re- negotiation. 1: Session is resumed 2: Session is not resumed 	12		
1693	Wireless LAN	Wireless LAN supplicant MAC Frame size	ALL	1398 <1-1398>	-	This is a MAC frame size used in the wire- less LAN connection. The data is fragmented into this size. 1398: 1398 bytes	12		
1696	Wireless LAN	Wireless LAN supplicant Device file setting for obtaining random number	ALL	/dev/ urandom	-	This should be the device file name which can obtain a seed to ini- tialize the WEP PRNG for xsupplicant. (Maximum 255 letters)	12		
1697	Wireless LAN	Wireless LAN supplicant CRL directory designation	ALL	-	-	This should be the path name of the directory in full where the CRL file is located. (Maximum 255 letters)	12		
1699	Wireless LAN	Wireless LAN supplicant EAP authentication type	ALL	1 <1-3>	-	This setting is for the EAP authentication type which xsupplicant can authenticate. 1: EAP-TLS 2: PEAP 3: EAP-TLS and PEAP	12		
1700	Wireless LAN	Wireless LAN supplicant CN name	ALL	-	-	This should be an authentication server name (basically a domain name in full). (Maximum 255 letters)	12		

2 - 221 07/11

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
1701	Wireless LAN	Wireless LAN supplicant CN name check	ALL	1 <1-2>	-	1: NO 2: YES	12
1704	Wireless LAN	Wireless LAN supplicant Update interval of PTK (Pairwise Transient Key)	ALL	0 <0-720>	-	The update interval of a secret key across AP (Access Point) and STA (Station) can be set. This interval is for updating the secret key from STA. 0: Not updated 1-720: 1-720 minutes of interval	12
1705	Wireless LAN	Wireless LAN supplicant Strict packet check	ALL	1 <1-2>	-	The Ack bit and request bit of EAPOL-Key is checked. 1: Not checked 2: Checked	12
1706	Wireless LAN	Wireless LAN supplicant Priority change at 4-way handshake	ALL	1 <1-2>	-	A higher priority is given to the xsupplicant task when a 4-way hand- shake is started. 1: Priority not changed 2: Priority changed	12
1707	Wireless LAN	Wireless LAN supplicant Security level	ALL	1 <1-3>	-	The encryption capabil- ity output in TLS clien- tHello message can be selected. 1: LOW 2: MIDDLE 3: HIGH	12
1708	User interface	Selectable security level (EAP-TLS)	ALL	1 <1-3>	-	These are the security level which can be selected from the user interface. This setting is not applied in case of PEAP. ("LOW" and "MIDDLE" is manda- tory for PEAP) 1: LOW + MIDDLE + HIGH 2: MIDDLE + HIGH 3: HIGH	12
1709	Blue- tooth	Bluetooth Installation status of option	ALL	0 <0-1>	SYS	0: Not installed 1: Installed	1
1710	Blue- tooth	Bluetooth ON/OFF setting	ALL	1 <0-1>	SYS	0: OFF 1: ON	1
1711	Blue- tooth	Bluetooth Device name	ALL	MFP	SYS	Maximum 32 letters	11
1712	Blue- tooth	Bluetooth Discovery	ALL	1 <0-1>	SYS	0: Not allowed 1: Allowed	1
1713	Blue- tooth	Bluetooth Security	ALL	1 <0-1>	SYS	0: Security function OFF1: Security function ON	1
1714	Blue- tooth	Bluetooth PIN	ALL	0000	SYS	Maximum 8 digits (8-digit sequence) This setting is valid only when the bluetooth security function is ON.	11

e-STUDIO200L/202L/203L/230/230L/232/233/280/282/283 ERROR CODE AND SELF-DIAGNOSTIC MODE

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		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
1715	Blue- tooth	Bluetooth Data encryption	ALL	1 <0-1>	SYS	0: Not encrypted 1: Encrypted This setting is valid only when the bluetooth security function is ON.	1
1716	Blue- tooth	Bluetooth HCRP reception time-out period	ALL	6 <1-50>	SYS	Setting value ~ 0.5 sec.	1
1717	Blue- tooth	Bluetooth HCRP transmission time- out period	ALL	6 <1-50>	SYS	Setting value ~ 0.5 sec.	1
1719	Blue- tooth	Bluetooth BIP Paper type	ALL	1 <0-3>	SYS	0: Fit page 1: 1/2 size 2: 1/4 size 3: 1/8 size	1
1720	Network	IP address range for IP fil- ter (Minimum area 1)	ALL	-	-	IP filter minimum area 1 000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1721	Network	IP address range for IP fil- ter (Maximum area 1)	ALL	-	-	IP filter maximum area 1 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1722	Network	IP address range for IP fil- ter I (Minimum area 2)	ALL	-	-	IP filter minimum area 2 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1723	Network	IP address range for IP fil- ter (Maximum area 2)	ALL	-	-	IP filter maximum area 2 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1724	Network	IP address range for IP fil- ter (Minimum area 3)	ALL	-	-	IP filter minimum area 3 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1725	Network	IP address range for IP fil- ter (Maximum area 3)	ALL	-	-	IP filter maximum area 3 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1726	Network	IP address range for IP fil- ter (Minimum area 4)	ALL	-	-	IP filter minimum area 4 000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12

2

2 - 223 07/11

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>							
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
1727	Network	IP address range for IP fil-	ALL	-	-	IP filter maximum area	12
		ter (Maximum area 4)				4 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	
1728	Network	IP address range for IP fil- ter (Minimum area 5)	ALL	-	-	IP filter minimum area 5 000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1729	Network	IP address range for IP fil- ter (Maximum area 5)	ALL	-	-	IP filter maximum area 5 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1730	Network	IP address range for IP fil- ter (Minimum area 6)	ALL	-	-	IP filter minimum area 6 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1731	Network	IP address range for IP fil- ter (Maximum area 6)	ALL	-	-	IP filter maximum area 6 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1732	Network	IP address range for IP fil- ter (Minimum area 7)	ALL	-	-	IP filter minimum area 7 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1733	Network	IP address range for IP fil- ter (Maximum area 7)	ALL	-	-	IP filter maximum area 7 000.000.000.000- 255 255 255 255	12
4704	Natural					(Default value: 000.000.000.000)	10
1734	Network	(Minimum area 8)	ALL	-	-	000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12
1735	Network	IP address range for IP fil- ter (Maximum area 8)	ALL	-	-	IP filter maximum area 8 000.000.000.000- 255.255.255.255 (Default value: 000.000.000)	12
1736	Network	IP address range for IP fil- ter (Minimum area 9)	ALL	-	-	IP filter minimum area 9 000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
1737	Network	IP address range for IP fil-	ALL	-	-	IP filter maximum area	12
		(Maximum area 9)				9 000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	
1738	Network	IP address range for IP fil-	ALL	-	-	IP filter minimum area	12
		(Minimum area 10)				000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	
1739	Network	IP address range for IP fil-	ALL	-	-	IP filter maximum area	12
		(Maximum area 10)				000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	
1740	Network	SSL setting HTTP server OFF/ON set- ting	ALL	2 <1-2>	-	1: Enabled 2: Disabled	12
1741	Network	SSL setting HTTP server port number	ALL	10443 <1- 65535>	-	SSL HTTP server port number	12
1742	Network	SSL setting IPP server OFF/ON setting	ALL	2 <1-2>	-	1: Enabled 2: Disabled	12
1743	Network	SSL setting IPP server port number	ALL	443 <1- 65535>	-	SSL IPP server port number	12
1744	Network	SSL setting SSL ftp server OFF/ON	ALL	2 <1-2>	-	OFF/ON 1: Valid 2: Invalid	12
1745	Network	SSL setting SSL ftp server Port	ALL	990 <1- 65535>	-	Port number to FTP Server	12
1746	Network	SSL setting SSL LDAP Client OFF/ON	ALL	2 <1-3>	-	OFF/ON 1: Valid 2: Invalid 3: Use imported certificate	12
1747	Network	SSL setting SSL LDAP Client Port	ALL	636 <1- 65535>	-	Port number to LDAP Server	12
1748	Network	SSL setting SSL POP3 Client OFF/ON	ALL	2 <1-3>	-	OFF/ON 1: Valid 2: Invalid 3: Use imported certificate	12
1749	Network	SSL setting SSL POP3 Client Port	ALL	995 <1- 65535>	-	Port number to POP3 Server	12

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
1750	Network	SSL setting SSL SMTP Client OFF/ON	ALL	2 <2-6>	-	 Invalid Accept all certificates of SMTP with TLS (STARTTLS) server Accept all certificates of SMTPS (SMTP OverSSL) server Use imported certificates of SMTP with TLS (STARTTLS) server Use imported certificates of SMTP with TLS (STARTTLS) server Use imported certificates of SMTPS (SMTP OverSSL) server Use imported certificates of SMTPS (SMTP OverSSL) server 	12
1751	Network	SSL setting SSL SMTP Client Port	ALL	465 <1- 65535>	-	Port number to SMTP Server	12
1755	Network	Enabling server's IP address acquired by DHCP	ALL	2 <1-2>	-	Domain Name Server option (6) 1: Enabled 2: Disabled * This value is used only when DHCP is enabled.	12
1756	Network	Enabling server's IP address acquired by DHCP	ALL	2 <1-2>	-	NetBIOS over TCP/IP Name Server option (44) = Primary and Sec- ondary Wins NAME 1: Enabled 2: Disabled * This value is used only when DHCP is enabled.	12
1757	Network	Enabling server's IP address acquired by DHCP	ALL	1 <1-2>	-	The Host Name Ven- dor Extension option (12) 1: Enabled 2: Disabled * This value is used only when DHCP is enabled.	12
1759	Network	Enabling server's IP address acquired by DHCP	ALL	2 <1-2>	-	SMTP Server Option (69) Simple Mail Server Address 1: Enabled 2: Disabled * This value is used only when DHCP is enabled.	12

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
	Classifi		Euro	Default			Broco
Code	cation	Items	tion	able	RAM	Contents	dure
				value>			
1760	Network	Enabling server's IP address acquired by DHCP	ALL	2 <1-2>	-	POP3 Server Option (70) Post Office Server Address 1: Enabled 2: Disabled * This value is used only when DHCP is enabled.	12
1762	Network	Enabling server's IP address acquired by DHCP	ALL	2 <1-2>	-	SNTP Server Option (42) NTP Server Address 1: Enabled 2: Disabled * This value is used only when DHCP is enabled.	12
1764	Wireless LAN	Wireless LAN supplicant Control sequence setting of "Cipher Suite"	ALL	-	-	Maximum 255 letters	12
1765	Wireless LAN	Wireless LAN supplicant Path name for user certifi- cate	ALL	-	-	Maximum 63 letters	12
1766	Wireless LAN	Wireless LAN supplicant Path name entered for CA self-certificate	ALL	-	-	Maximum 63 letters	12
1767	Network	Enabling server's IP address acquired by DHCP	ALL	2 <1-2>	SYS	DNS domain name Option (15) DNS domain name of the cli- ent 1: Enabled 2: Disabled * This value is used only when DHCP is enabled.	12
1768	Network	Previous IP address	ALL	-	-	000.000.000.000- 255.255.255.255 (Default value: 000.000.000.000)	12

2 - 227

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
				Default			
	Classifi-		Func-	<accept-< th=""><th></th><th></th><th>Proce-</th></accept-<>			Proce-
Code	cation	items	tion	able	RAM	Contents	dure
				value>			
Code 1772	Classifi- cation General	Items Card reading device set- ting	ALL	<accept- able value> 0 <8 digits></accept- 	RAM SYS	Contents To enable the e-Bridge ID Gate, a card reading device should be set in the order of "ABYYZZZZ". (Enter the corresponding val- ues to "A", "B", "YY" and "ZZZZ".) - AB:Special setting - A :Debugging NIC 0: Not used 1: Used - B :Interface 0: USB connection 1: N/A - YY: Authentication 00: No authentica- tion using a noncon- tact IC card 02: Authentication using a noncontact IC card (KP-2003) 03: Authentication using a noncontact IC card (KP-2005) 04: Authentication using a noncontact IC card (KP-2005) 04: Authentication using a noncontact IC card (KP-2004) - ZZZZ: Sub-code 0000: No authenti- cation using a non- contact IC card 0001: Use CSN (Card Serial Num- bas) of a non- contact IC card	5
						contact IC card 0001: Use CSN (Card Serial Num- ber) of a noncon- tact IC card 0002: Use the Data Area Address Infor- mation of a noncon- tact IC card	

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>								
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure	
1773	General	Card reader format infor- mation -1	ALL	-	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-2003: LLLL: System code (hexadecimal number) MMMM: Service code (hexadecimal number)	5	
						KP-2005: LLLL : Key information MMMM: Sector number (hexadecimal number)		
1774	General	Card reader format infor- mation -2	ALL		SYS	The data of the block number in the noncon- tact IC is set. KP-2003: <ppqrsstu (hexadecimal number)> PP:1st block Q: 1st block beginning byte R: 1st block ending- byte SS:2nd block T: 2nd block begin- ning byte U: 2nd block ending byte KP-2005: <rrbsebse (hexadecimal number)> RR:00 (Fixed) B: 1st area block num- ber S: 1st area block num- ber S: 1st area beginning byte offset E: 1st area ending byte offset b: 2nd area beginning byte offset e: 2nd area ending byte offset e: 2nd area ending byte offset e: 2nd area ending byte offset e: 2nd area ending byte offset s: 1st area seginning byte offset b: 2nd area ending byte offset cifset b: 1fthe 2nd block/area is not used, set the SSTU to "FFFF" (hexadeci- mal number), the bse to"FFF" (hexadecimal number).</rrbsebse </ppqrsstu 	5	

		Setting mo	de (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/23</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/23	32/233/2	282/283>	
Code	Classifi- cation	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
1775	General	Card reader for mation -3	mat infor-	ALL	-	SYS	Security key "KKKKKKKKKKK" (12 digits) <hexadecimal number> in the [Key Information] of the [Sec- tor Number] set in the code 08-1773 should be entered.</hexadecimal 	5
1776	General	Card authentica server	ation LDAP	ALL	0 <0-100>	SYS	LDAP server number for the card authentica- tion when a noncontact IC card is used should be set.	1
1777	General	Card authentica search index	ation LDAP	ALL	-	SYS	LDAP search index when a noncontact IC card is used is set.	11
1778	General	Hang-up perioc panel at the 3rd administrator's	l of control misentry of password	ALL	1 <0-7>	SYS	 0: No hang-up 1: 0.5 minutes (= 30 seconds) 2: 1 minute 3: 3 minutes 4: 5 minutes 5: 10 minutes 6: 15 minutes 7: 30 minutes 	1
1779	Network	Default data sa tory of "Scan to	ving direc- File"	ALL	0 <0-2>	SYS	0: Local directory 1: REMOTE 1 2: REMOTE 2	1
1781-0	Network	Notification of scan job	When job completed	ALL	0 <0-1>	SYS	Sets the notification method of scan job	4
1781-1			On error	ALL	0 <0-1>	SYS	completion. 0: Invalid 1: Valid	4
1782	Network	File name form as file" and Em sion	at of "Save ail transmis-	ALL	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]-[File- Name] 4: [Page]-[FileName]- [Data] 5: [Page]-[Data]-[File- Name] 6: [HostName]_[Data]- [Page]	

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>							
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
1783	Network	Date display format of the file name of "Save as file" and Email transmission	ALL	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] 4: [HH][mm][SS] 5: [YYYY][MM][DD] [HH][mm][SS][mm0]	1
1784	Network	Single page data saving	ALL	0<0.1>	SYS	The order of [YY], [MM] and [DD] varies depending on the set- ting of the code 08-640 (Data display format). Sets the directory where the file of "Save	1
		directory at Save as me				 as file" is saved. 0: Save it under a subfolder 1: Save it without creating a subfolder 	
1785	Network	Page number display for- mat of the file of "Save as file" and Email transmis- sion	ALL	4 <3-6>	SYS	Sets the digit of a page number attached on the file. 3-6: 3-6 digits	1
1786	Network	Extension (suffix) format of the file of "Save as file"	ALL	3 <3-6>	SYS	Sets the extension dig- its of the file to be saved. 3: Auto 4: 4 digits 5: 5 digits 6: 6 digits	1
1850	Network	IPP MaxConnection	ALL	16 <1-16>	NIC	Number of maximum connections(IPP).	12
1851	Network	IPP ActiveConnection	ALL	10 <1-16>	NIC	Number of active con- nections(IPP).	12
1852	Network	LPD MaxConnection	ALL	10 <1-16>	NIC	Number of maximum connections(LPD).	12
1853	Network	LPD ActiveConnection	ALL	10 <1-16>	NIC	Number of active con- nections(LPD).	12
1854	Network	AppleTalk MaxConnection	ALL	10 <1-16>	NIC	Number of maximum connections(Apple- Talk).	12
1855	Network	AppleTalk ActiveConnection	ALL	10 <1-16>	NIC	Number of active con- nections(AppleTalk).	12
1856	Network	RawPrint MaxConnection	ALL	10 <1-16>	NIC	Number of maximum connections(RawPrint).	12
1857	Network	RawPrint ActiveConnection	ALL	10 <1-16>	NIC	Number of active con- nections(RawPrint).	12
1913	General	Page number addition on multipage file names of "File/Email"	ALL	0 <0-1>	SYS		1

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>								
				Default				
Code	Classifi-	Itoms	Func-	<accept-< th=""><th>RAM</th><th>Contents</th><th>Proce-</th></accept-<>	RAM	Contents	Proce-	
oouc	cation	Reins	tion	able		Contenta	dure	
				value>				
1914	General	Maximum number of deci- mals in extension fields	ALL	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	
1915	Network	Filing size for Network scanning function	ALL	0 <0-1>	SYS	 0: Eliminates 2 mm from circumference (Void: 2 mm) 1: No space eliminated (Void: 0 mm) 	1	
1916	General	Default saving/attachment files of "File/Email"	ALL	0 <0-1>	SYS		1	
1920	Network	Device domain name of device authentication	ALL	-	UTY	Maximum 128 letters	12	
1921	Network	Windows domain No. 2 of user authentication	ALL	-	UTY	Maximum 128 letters	12	
1922	Network	Windows domain No. 3 of user authentication	ALL	-	UTY	Maximum 128 letters	12	
1923	Network	LDAP authentication Server type	ALL	1 <1-2>	NIC	1: Windows Server 2: Not Windows Server	12	
1924	Network	LDAP authentication User attribute	ALL	-	NIC	Sets a user attribute name.	12	
1925	Network	Execution of user authenti- cation when the user ID is not entered	ALL	2 <0-2>	SYS	 Forcible execution Execution impossible (pooled in the invalid queue) Forcible deletion 	1	
1926	FAX	Tab/cover sheet printing at FAX reception Printing stop function	ALL	0 <0-1>	SYS	Sets on or off of the printing function of spe- cial sheets such as tab or cover sheet of FAX, Email or list print. 0: Function off 1: Function on	1	
1927	Network	LDAP server attribute name setting for card authentication	ALL	eBMUser Card	SYS	Up to 32 letters	11	
1928	Network	Role Based Access LDAP search index	ALL	0 <0- 4294967 295>	SYS	This code is used to specify the ID for the LDAP server to imple- ment Role-Based Access Control.	5	
1929	User interface	Keyboard layout for Lan- guage 1	ALL	0 <0-2>	SYS	 QWERTY layout (for Europe) QWERTZ layout AZERTY layout 	1	
1930	User interface	Keyboard layout for Lan- guage 2	ALL	1 <0-2>	SYS	 QWERTY layout (for Europe) QWERTZ layout AZERTY layout 	1	
1931	User interface	Keyboard layout for Lan- guage 3	ALL	EUR:2 Other:0 <0-2>	SYS	 QWERTY layout (for Europe) QWERTZ layout AZERTY layout 	1	

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>								
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure	
1932	User interface	Keyboard layout for Lan- guage 4	ALL	0 <0-2>	SYS	 QWERTY layout (for Europe) QWERTZ layout AZERTY layout 	1	
1933	User interface	Keyboard layout for Lan- guage 5	ALL	0 <0-2>	SYS	 QWERTY layout (for Europe) QWERTZ layout AZERTY layout 	1	
1934	User interface	Keyboard layout for Lan- guage 6	ALL	0 <0-2>	SYS	 QWERTY layout (for Europe QWERTZ layout AZERTY layout 	1	
1935	User interface	Keyboard layout for Lan- guage 7	ALL	0 <0-2>	SYS	 QWERTY layout (for Europe) QWERTZ layout AZERTY layout 	1	
1936	Network	AppleTalk device name	ALL	MFP_ serial	UTY	Maximum 32 letters The Network-related serial number of the equipment appears at "serial".	12	
1937	Network	User name and password at user authentication or "Save as file"	ALL	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	
1940	General	STAGE port number	SCN	20080 <0- 65535>	SYS	Port number used for the remote scanning is set.	1	
1941	Blue- tooth	Bluetooth BIP Paper size	ALL	EUR: 6 UC: 2 JPN: 6 <0-13>	SYS	0: Ledger 1: Legal 2: Letter 3: Computer 4: Statement 5: A3 6: A4 7: A5 8: A6 9: B4 10: B5 11: Folio 12: Legal13" 13: LetterSquare	1	
1942	Network	Device authentication PDC/BDC time-out period	ALL	60 <1-180>	NIC	Unit: Second	12	
1943	Network	User authentication PDC/BDC time-out period	ALL	30 <1-180>	NIC	Unit: Second	12	
1944	INELWOFK	Method of Windows domain authentication	ALL	ו <1-3>	NIC	2: Kerberos 3: NTLMv2	12	

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>								
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure	
1950	Network	SMB signature for SMB server	ALL	1 <1-3>	UTY	1: Auto 2: Valid 3: Invalid	12	
1951	Network	SMB signature for SMB cli- ent	ALL	1 <1-3>	UTY	1: Auto 2: Valid 3: Invalid	12	
1952	Network	Device name for device authentication	ALL	-	UTY	Maximum 128 letters	12	
1953	Network	Password for the device name used for device authentication	ALL	-	UTY	Maximum 128 letters	12	
1954	Network	PDC2 of user authentica- tion	ALL	-	UTY	Maximum 128 letters	12	
1955	Network	BDC2 of user authentica- tion	ALL	-	UTY	Maximum 128 letters	12	
1956	Network	PDC3 of user authentica- tion	ALL	-	UTY	Maximum 128 letters	12	
1957	Network	BDC3 of user authentica- tion	ALL	-	UTY	Maximum 128 letters	12	
1958	Network	PDC of device authentica- tion	ALL	-	UTY	Maximum 128 letters	12	
1959	Network	BDC of device authentica- tion	ALL	-	UTY	Maximum 128 letters	12	
1960	General	KS Filter operation mode	ALL	0 <0-1>	SYS	0: Disabled 1: Enabled	1	
1961	General	KS/KSSM setting all clear- ing	ALL	-	-	Does not reset the value of the code 08- 1960 but resets those of the codes 08-1963 to 1994.	3	
1963	General	KS Filter Emulation Mode	ALL	0 <0-2>	SYS	0: Auto 1: KS 2: KSSM	1	
1964	General	KS Filter Paper Size	ALL	1 <0-5>	SYS	0: A3 1: A4 2: B4 3: B5 4: Letter 5: Legal	1	
1965	General	KS Filter Orientation	ALL	0 <0-1>	SYS	0: Portrait 1: Landscape	1	
1966	General	KS Filter Copies	ALL	1 <1-999>	SYS		1	
1967	General	KS Paper Source	ALL	0 <0-1>	SYS		1	
1968	General	KS Duplex Mode	ALL	0 <0-2>	SYS		1	

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>								
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure	
1970	General	KS CPI (English CPI/ Hangle CPI)	ALL	1 <0-10>	SYS	0: (5/10) 1: (6/12) 2: (6.7/13.3) 3: (6.9/13.8) 4: (7.5/15) 5: (8.3/16.7) 6: (9/18) 7: (10/10) 8: (10/20) 9: (12/24) 10: (15/30)	1	
1971	General	KS LPI	ALL	60 <30-160>	SYS	Key in the value 10 times as the desired font size. (e.g.: Key in "45" for a font size 4.5.)	1	
1972	General	KS Type Face	ALL	0 <0-5>	SYS	0: MYUNGJO 1: GOTHIC 2: GUNGSEO 3: GULLIM 4: GRAPH 5: SAMMUL	1	
1973	General	KS Font Size	ALL	96 <96-160>	SYS	Key in the value 10 times as the desired font size. (e.g.: Key in "100" for a font size 10.0.)	1	
1974	General	KS Zoom	ALL	100 <20-400>	SYS		1	
1975	General	KS CR/LF Mode	ALL	2 <0-3>	SYS	0: CR->CR, LF->LF 1: CR->CR+LF, LF->LF 2: CR->CR, LF->CR+LF 3: CR->CR+LF, LF->CR+LF	1	
1976	General	KS Top Margin	ALL	0 <0-50>	SYS	Key in the value 10 times as the desired font size. (e.g.: Key in "40" for a font size 4.0.)	1	
1977	General	KS Left Margin	ALL	0 <0-50>	SYS	Key in the value 10 times as the desired font size. (e.g.: Key in "40" for a font size 4.0.)	1	
1978	General	KS Auto Wrap	ALL	0 <0-1>	SYS	0: OFF 1: ON	1	
1979	General	KS Han Mode	ALL	1 <0-1>	SYS	0: OFF 1: ON	1	
1980	General	KS Han Code	ALL	0 <0-1>	SYS	0: Wansung 1: Johap	1	

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>								
				Default				
Code	Classifi-	Items	Func-	<accept-< th=""><th>RAM</th><th>Contents</th><th>Proce-</th></accept-<>	RAM	Contents	Proce-	
0000	cation	Romo	tion	able	1 VAIII	Contonito	dure	
				value>				
1984	General	KSSM CPI (English CPI/ Hangle CPI)	ALL	1 <0-10>	SYS	0: (5/10) 1: (6/12) 2: (6.7/13.3) 3: (6.9/13.8) 4: (7.5/15)	1	
						5: (8.3/16.7) 6: (9/18) 7: (10/10) 8: (10/20) 9: (12/24) 10: (15/30)		
1985	General	KSSM LPI	ALL	60 <30-160>	SYS	Key in the value 10 times as the desired font size. (e.g.: Key in "45" for a font size 4.5.)	1	
1986	General	KSSM Type Face	ALL	0 <0-5>	SYS	0: MYUNGJO 1: GOTHIC 2: GUNGSEO 3: GULLIM 4: GRAPH 5: SAMMUL	1	
1987	General	KSSM Font Size	ALL	96 <96-160>	SYS	Key in the value 10 times as the desired font size. (e.g.: Key in "100" for a font size 10.0.)	1	
1988	General	KSSM Zoom	ALL	100 <20-400>	SYS		1	
1989	General	KSSM CR/LF Mode	ALL	2 <0-3>	SYS	0: CR->CR, LF->LF 1: CR->CR+LF, LF->LF 2: CR->CR, LF->CR+LF 3: CR->CR+LF, LF->CR+LF	1	
1990	General	KSSM Top Margin	ALL	0 <0-50>	SYS	Key in the value 10 times as the desired font size. (e.g.: Key in "40" for a font size 4.0.)	1	
1991	General	KSSM Left Margin	ALL	0 <0-50>	SYS	Key in the value 10 times as the desired font size. (e.g.: Key in "40" for a font size 4.0.)	1	
1992	General	KSSM Auto Wrap	ALL	0 <0-1>	SYS	0: OFF 1: ON	1	
1993	General	KSSM Han Mode	ALL	1 <0-1>	SYS	0: OFF 1: ON	1	
1994	General	KSSM Han Code	ALL	0 <0-1>	SYS	0: Wansung 1: Johap	1	
3635	General	Proof copy function setting	ALL	1 <0-1>	SYS	Sets the proof copy function. 0: Disabled 1: Enabled	1	

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>									
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure		
3736	Network	DNS Client Time Out	ALL	60 <1-180>	NIC	Use when a timeout occurred at DNS client connection	12		
3737	Network	DDNS Client Time Out	ALL	60 <1-180>	NIC	Use when a timeout occurred at DDNS cli- ent connection	12		
3738	Network	HTTP Client Time Out	ALL	60 <1-180>	NIC	Use when a timeout occurred at HTTP cli- ent connection	12		
3739	Network	FTP Client Time Out (SCAN)	ALL	30 <1-180>	NIC	Use when a timeout occurred at FTP client connection	12		
3740	Network	SNTP Client Time Out	ALL	30 <1-180>	NIC	Use when a timeout occurred at SNTP client connection	12		
3741	Network	SMTP Client Time Out	ALL	30 <1-180>	NIC	Use when a timeout occurred at SMTP client connection	12		
3742	Network	POP3 Client Time Out	ALL	30 <1-180>	NIC	Use when a timeout occurred at POP3 client connection	12		
3743	Network	LDAP Client Time Out	ALL	30 <1-180>	NIC	Use when a timeout occurred at LDAP cli- ent connection	12		
3744	Network	POP3 Authentication method	ALL	1 <1-3>	NIC	POP3 authentication method setting 1: Disable (Default) 2: NTLM 3: Kerberos	12		
3745	General	Secure DDNS Primary Login Name	ALL	- <1-128>	NIC	Login name for login with the Primary DDNS	12		
3746	General	Secure DDNS Primary Login Password	ALL	- <1-128>	NIC	Login password for login with the Primary DDNS	12		
3747	General	Secure DDNS Secondary Login Name	ALL	- <1-128>	NIC	Login name for login with the Secondary DDNS	12		
3748	General	Secure DDNS Secondary Login Password	ALL	- <1-128>	NIC	Login password for login with the Second- ary DDNS	12		
3749	General	DPWS Friendly Name	ALL	-	NIC	MFP name indicated in DPWS search result <default value=""> TOSHIBA e-STUDIOxxx [NIC serial number]</default>	12		
3750	General	DPWS Printer Name	ALL	-	NIC	Printer name used for installing the printer with DPWS <default value=""> TOSHIBA e-STUDIOxxx Printer- [NIC serial number]</default>	12		

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>									
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure		
3751	General	DPWS Scanner Name	ALL	-	NIC	Scanner name used for installing the printer with DPWS <default value=""> TOSHIBA e-STUDIOxxx Scanner- [NIC serial number]</default>	12		
3752	General	DPWS Printer Information	ALL	-	NIC	Information regarding DPWS printer <default value=""> NULL</default>	12		
3753	General	DPWS Scanner Informa- tion	ALL	-	NIC	Information regarding DPWS scanner <default value=""> NULL</default>	12		
3754	Network	Switching DPWS Printer setting	ALL	1 <1-2>	NIC	DPWS printer /DPWS secure printer function is switched. 1: Enabled 2: Disabled 3: Security enabled	12		
3755	Network	Switching DPWS Scanner setting	ALL	1 <1-2>	NIC	DPWS scanner function is switched. 1: Enabled 2: Disabled	12		
3757	Network	DPWS Discovery Port Number	ALL	3702 <1- 65535>	NIC	Port number used for DPWS Discovery	12		
3758	Network	DPWS Metadata Exchange Port Number	ALL	50081 <1- 65535>	NIC	Port number used for DPWS Metadata Exchange	12		
3759	Network	DPWS Print Port Number	ALL	50082 <1- 65535>	NIC	Port number used for DPWS Print	12		
3760	Network	DPWS Scan Port Number	ALL	50083 <1- 65535>	NIC	Port number used for DPWS Scan	12		
3765	Network	DPWS Print Max numbers of connection	ALL	10 <1-20>	NIC	Maximum numbers received from more than one connection request in the DPWS print	12		
3766	Network	DPWS Print Max numbers of reception	ALL	10 <1-20>	NIC	Maximum numbers of data received from more than one clients in the DPWS print	12		
3767	Network	Switching IPv6 setting	ALL	2 <1-2>	NIC	IPv6 function is switched. 1: Enabled 2: Disabled	12		
3768	Network	Switching IP(IPv6) Address Acquisition	ALL	2 <1-2>	NIC	IP(IPv6) Address Acquisition setting is switched. 1: Manual 2: Auto configuration	12		
3769	Network	Link Local Address	ALL	- <0-16>	NIC	Link Local Address is displayed. Unique IP address (128 bits) is set using Mac address.	12		

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>									
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure		
3770	Network	IPv6 Address	ALL	0 <0-16>	NIC	DHCPv6 Address in Manual/Auto configura- tion is displayed.	12		
3771	Network	Prefix display setting	ALL	0 <0-128>	NIC	The range of Prefix dis- play is set.	12		
3772	Network	Default Gateway setting	ALL	0 <0-16>	NIC	Default Gateway of DHCPv6 Address in Manual/Auto configura- tion is set.	12		
3773	Network	Displaying previous DHCPv6 Address	ALL	0 <0-16>	NIC	The previous DHCPv6 Address is displayed.	12		
3774	Network	DHCPv6 Option setting	ALL	2 <1-2>	NIC	DHCPv6 Option is switched when the Manual is set. 1: Enabled 2: Disabled	12		
3775	Network	Stateless Address Auto Configuration	ALL	1 <1-2>	NIC	Stateless Address Auto Configuration is switched. 1: Enabled 2: Disabled	12		
3776	Network	Stateless Address setting continuation	ALL	2 <1-2>	NIC	When Prefix sent from router is changed, Stateless Address is continued to be set. 1: Enabled 2: Disabled	12		
3777	Network	Stateless Address setting	ALL	2 <1-2>	NIC	IP Address is acquired by both Stateless and State full Address. 1: Enabled 2: Disabled	12		
3778	Network	Acquiring DHCPv6 Option	ALL	2 <1-2>	NIC	When Stateless Address is selected, an option is acquired from DHCPv6 server. 1: Enabled 2: Disabled	12		
3779	Network	State full Address setting	ALL	2 <1-2>	NIC	IP Address is acquired from DHCPv6 server. 1: Enabled 2: Disabled	12		
3780	Network	State full Option setting	ALL	2 <1-2>	NIC	An option is acquired from DHCPv6 server. 1: Enabled 2: Disabled	12		
3781	Network	Primary DNS Server Address Registration	ALL	0 <0-16>	NIC	Registration of Primary DNS Server Address	12		
3782	Network	Secondary DNS Server Address Registration	ALL	0 <0-16>	NIC	Registration of Second- ary DNS Server Address	12		
3783	Network	Selecting SAMBA Protocol	ALL	2 <2-3>	NIC	Either IPv6 or IPv4 is selected to use SAMBA. 2: IPv6 3: IPv4	12		

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/23</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/23	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
3784	Network	DSN Server resolve type	ALL	4 <1-4>	NIC	Either "ip6.arpa" or "ip6.int" is selected for the name resolution in DNS. 1: "ip6.arpa" only 2: "ip6.int" only 3: In case of error with "ip6.int", "ip6.arpa" is requested. 4: In case of error with "ip6.arpa", "ip6.int" is requested.	12
3785	Network	DPWS IPv4 or IPv4 with IPv6	ALL	2 <1-2>	NIC	Either IPv4 only or IPv6 together with it is selected to operate Print, Scan and Secu- rity related with DPWS. 1: Multi (IPv4 and IPv6) 2: IPv4	12
3793	Network	Switching LLTD setting	ALL	1 <1-2>	NIC	LLTD function is switched. 1: Enabled 2: Disabled	12
3794	Network	Switching LLMNR setting	ALL	2 <1-2>	NIC	LLMNR function is switched. 1: Enabled 2: Disabled	12
3796	Network	DPWS EventRate	ALL	5 <1-600>	NIC	Sets the value of DPWS event rate from 1 to 600.	12
3797	General	Response to PJL job com- mands	ALL	1 <0-1>	SYS	 During bidirectional communication, the next job will not be accepted until the printing of the sent data (all pages) is finished. If the next job must be accepted during bidirectional communication, set the value at "0: (Solicited)". 0: (Solicited) - Immediately responds to the host side after the completion of RIP. 1: (Unsolicited) - Responds to the host side after the printing is finished. 	1
3804	Scanner	List Analysis Logic of Scan to File (FTP)	ALL	0 <0-1>	SYS	Acquisition of Contents in Host side is switched by Scan to File (FTP). 0: NLST 1: LIST	1

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/23</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/23	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
3805	Scanner	Department Management setting by Remote Scan	ALL	3 <0-3>	SYS	Department Manage- ment is set when Remote Scan is per- formed. 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
3810	Network	Direct SMTP communica- tion setting	ALL	0 <0-1>	SYS	When an Internet Fax is sent, Direct SMTP com- munication 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 com- munication 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 encryp- tion and SMTP-AUTH function cannot be used for internet Fax trans- mission. If "1: Enabled" is set in 08-3810, set "1: Enabled" in 08-3812 as worl	1
3811	Network	Image encrypting at the Direct SMTP communica- tion	ALL	0 <0-1>	SYS	When Direct SMTP communication is per- formed, an attached image is encrypted. 0: Disabled 1: Enabled	1
3812	Scanner	Dummy full mode at the Internet Fax transmission	ALL	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

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/23</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/23	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
3815	Scanner	XPS file thumbnail addition	ALL	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
3816	Scanner	XPS file paper size setting	ALL	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
3817	Scanner	PDF file version setting	ALL	4 <0, 1, 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
3818	Scanner	DPWS Scan operation mode	ALL	1 <0-1>	SYS	The operation mode in the DPWS Scan func- tion is switched. 0: Batch type 1: Serial type	1
3819	General	Network Fax/Internet Fax processing mode (STD)	ALL	2 <0-2>	SYS	The processing mode of the network Fax/ Internet Fax is switched. 0: High speed/Low image quality 1: Standard 2: Low speed/High image quality	1
3820	General	Network Fax/Internet Fax processing mode (FINE)	ALL	0 <0-2>	SYS	The processing mode of the network Fax/ Internet Fax is switched. 0: High speed/Low image quality 1: Standard 2: Low speed/High image quality	1
3821	General	Network Fax/Internet Fax processing mode (S-FINE)	ALL	0 <0-2>	SYS	The processing mode of the network Fax/ Internet Fax is switched. 0: High speed/Low image quality 1: Standard 2: Low speed/High image quality	1
3822	General	Network Fax/Internet Fax processing mode (U-FINE)	ALL	0 <0-2>	SYS	The processing mode of the network Fax/ Internet Fax is switched. 0: High speed/Low image quality 1: Standard 2: Low speed/High image quality	1

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
3823	General	Processing mode thresh- old for network Fax/Inter- net Fax (STD) [Standard]	ALL	254 <0-255>	SYS	Image quality adjust- ment when "Standard" is set for the Network Fax/Internet Fax pro- cessing mode (STD)	1
3824	General	Processing mode thresh- old for network Fax/Inter- net Fax (FINE) [Standard]	ALL	254 <0-255>	SYS	Image quality adjust- ment when "Standard" is set for the Network Fax/Internet Fax pro- cessing mode (FINE)	1
3825	General	Processing mode thresh- old for network Fax/Inter- net Fax (S-FINE) [Standard]	ALL	180 <0-255>	SYS	Image quality adjust- ment when "Standard" is set for the Network Fax/Internet Fax pro- cessing mode (S-FINE)	1
3826	General	Processing mode thresh- old for network Fax/Inter- net Fax (U-FINE) [Standard]	ALL	166 <0-255>	SYS	Image quality adjust- ment when "Standard" is set for the Network Fax/Internet Fax pro- cessing mode (U-FINE)	1
3827	General	Processing mode thresh- old for network Fax/Inter- net Fax (STD) [Low speed/ High image quality]	ALL	200 <0-255>	SYS	Image quality adjust- ment when "Low speed/ High image quality" is set for the Network Fax/ Internet Fax process- ing mode (STD)	1
3828	General	Processing mode thresh- old for network Fax/Inter- net Fax (FINE) [Low speed/High image quality]	ALL	204 <0-255>	SYS	Image quality adjust- ment when "Low speed/ High image quality" is set for the Network Fax/ Internet Fax process- ing mode (FINE)	1
3829	General	Processing mode thresh- old for network Fax/Inter- net Fax (S-FINE) [Low speed/High image quality]	ALL	206 <0-255>	SYS	Image quality adjust- ment when "Low speed/ High image quality" is set for the Network Fax/ Internet Fax process- ing mode (S-FINE)	1
3830	General	Processing mode thresh- old for network Fax/Inter- net Fax (U-FINE) [Low speed/High image quality]	ALL	161 <0-255>	SYS	Image quality adjust- ment when "Low speed/ High image quality" is set for the Network Fax/ Internet Fax process- ing mode (U-FINE)	1
3831	Network	Mode switching for Role Based Access Control function	ALL	0 <0-1>	SYS	 Require eBMUser- Role attribute User available LDAP attribute 	1
3833	General	Home directory function	ALL	0 <0-1>	SYS	Function to store a file in the user's home directory 0: Disabled 1: Enabled	1

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/23</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/23	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
3834	General	Backup file encryption Display switching for the	ALL	0 <0-1> 0	SYS	 When the backup file is created from TopAccess, it is encrypted. 0: Enabled (Encryption) 1: Disabled (No encryption) The display method of 	1
		machine name/computer name shown in the notifi- cation		<0-1>		the machine name/ computer name shown in the event-related notification is switched. 0: IP address 1: NetBIOS name/ FQDN	
3840	General	Electronic License Key Registration	ALL	-	-	Licenses for Electronic License Key are regis- tered.	3
3841	General	Electronic License Key Deletion	ALL	-	-	Registered licenses for Electronic License Key are deleted.	3
3842	General	Electronic License Key Display	ALL	-	-	All licenses stored in the ELK jig are dis- played.	3
3845	Network	SNMP Trap Enterprise OID mode setting	ALL	0 <0-1>	SYS	 Trap Enterprise OID is enabled for existing models. 0: Normal (Not enabling for exist- ing models) 1: Enabled for existing models 	1
3847	General	FAX mistransmission pre- vention	FAX	0 <0-1>	SYS	FAX mistransmission prevention function is switched. 0: OFF (Disabled) 1: ON (Enabled)	1
3848	General	Restriction on Address Book destination setting	FAX	0 <0-1>	SYS	Availability of destina- tion selection from the Address Book is switched as one of FAX mistransmission pre- vention functions when setting FAX destina- tions. 0: OFF (Disabled) 1: ON (Enabled)	1
3849	General	Restriction on destination direct entry	FAX	0 <0-1>	SYS	Availability of direct entry is switched as one of FAX mistransmis- sion prevention func- tions when setting FAX destinations. 0: OFF (Disabled) 1: ON (Enabled)	1

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
3850	General	Remote Scan User authentication	ALL	3 <0-3>	SYS	User authentication on Remote Scan driver is switched according to the availability of GUI. 0: OFF (No GUI) / OFF (GUI installed) 1: ON (No GUI) / OFF (GUI installed) 2: OFF (No GUI) / ON (GUI installed) 3: ON (No GUI) / ON (GUI installed)	1
3851	General	Template display	ALL	0 <0-1>	SYS	The order of displaying templates on the LCD screen is switched. 0: Order of IDs 1: Alphabetical order	1
3852	User interface	Automatic summer time change	ALL	0 <0-1>	SYS	Automatic summer time change on the day pre- viously set is switched. 0: Disabled 1: Enabled	1
3853	User interface	Summer time mode Offset value	ALL	0 <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
3854	User interface	Summer time mode Starting month	ALL	1 <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	1
3855	User interface	Summer time mode Starting week	ALL	1 <1-5>	SYS	The week in which summer time is started is set. 1: 1st 2: 2nd 3: 3rd 4: 4th 5: Last	1

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/23</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/23	32/233/2	282/283>	
	Classifi		Euro	Default			Broco
Code	cation	Items	tion	able	RAM	Contents	dure
		-		value>			
3856	User interface	Summer time mode Starting day	ALL	0 <0-6>	SYS	The day on which sum- mer time is started is set. 0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday	1
3857	User interface	Summer time mode Starting time	ALL	0 <00-23>	SYS	The time at which summer time is started is set. 00-23	1
3858	User interface	Summer time mode Starting minute	ALL	0 <00-59>	SYS	The minute at which summer time is started is set. 00-59	1
3859	User interface	Summer time mode Ending month	ALL	1 <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	1
3860	User interface	Summer time mode Ending week	ALL	1 <1-5>	SYS	The week in which summer time is ended is set. 1: 1st 2: 2nd 3: 3rd 4: 4th 5: Last	1
3861	User interface	Summer time mode Ending day	ALL	0 <0-6>	SYS	The day on which sum- mer time is ended is set. 0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday	1
3862	User interface	Summer time mode Ending time	ALL	0 <00-23>	SYS	The time at which sum- mer time is ended is set. 00-23	1
3863	User interface	Summer time mode Ending minute	ALL	0 <00-59>	SYS	The minute at which summer time is ended is set. 00-59	1

e-STUDIO200L/202L/203L/230/230L/232/233/280/282/283 ERROR CODE AND SELF-DIAGNOSTIC MODE

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		Setting mo	de (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	ltem	S	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
3864	Network	Disclosing Teln function	et Server	ALL	0 <0-1>	SYS	Disclosure of Telnet Server function is switched. 0: Not disclosed 1: Disclosed	1
3865	Network	Availability of T	elnet Server	ALL	2 <1-2>	NIC	Availability of Telnet Server is switched. 1: Enabled 2: Disabled	12
3866	Network	Telnet Server TCP port numb	er	ALL	23 <1- 65535>	NIC	A port number for Tel- net Server is set.	12
3867	Network	Telnet Server Server adminis name	trator's user	ALL	Admin <maxi- mum 15 letters></maxi- 	NIC	A user name for the Tel- net Server administra- tor is confirmed.	12
3868	Network	Telnet Server Server adminis password	trator's	ALL	System <maxi- mum 15 letters></maxi- 	NIC	A password for the Tel- net Server administra- tor is set.	12
4016-0	Paper feeding	ACC function when a drawer is specified	Copying	ALL	0 <0-1>	SYS	Sets whether the ACC function is enabled only for automatic drawer selection or enabled when a particular drawer is specified as	4
4016-1			Printing / BOX print- ing	ALL	0 <0-1>	SYS	 well. 0: Enabled only for automatic drawer selection 1: Enabled when a drawer is specified 	4
4621	Paper feeding	Bypass paper s tion setting	size detec-	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 mes- sage is displayed (Paper jam does not occur). When the bypass paper size detection is broken, the equipment can be used without the size detec- tion by disabling this setting. After repair, enable this setting. 0: Enabled	

		Setting mo	de (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	ltem	IS	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
4622	Paper feeding	Bypass paper s tion counter	size detec-	PPC/ PRT	0 <0- 65535>	М	This is a counter for bypass paper size detection setting. If the printing is executed with the paper size that dif- fers from the paper size set on the control panel, the counter is counted up.	1
6810-0	Counter	Number of output pages in black mode	1-UP / Duplex printing	PPC	0 <8 digits>	SYS	Counts the number of output pages.	4
6810-1		/ Large size	2-UP / Duplex printing	PPC	0 <8 digits>	SYS	Counts the number of output pages using [2IN1] or [MAGAZINE SORT].	4
6810-2			2-UP / Simplex printing	PPC	0 <8 digits>	SYS	Counts the number of sheets using [2IN1] or [MAGAZINE SORT].	4
6810-3			4-UP / Duplex printing	PPC	0 <8 digits>	SYS	Counts the number of output pages using [4IN1].	4
6810-4			4-UP / Simplex printing	PPC	0 <8 digits>	SYS	Counts the number of sheets using [4IN1].	4
6810-7			1-UP / Simplex printing	PPC	0 <8 digits>	SYS	Counts the number of output pages.	4
6813-0	Counter	Number of output pages of the printer	1-UP / Duplex printing	PRT	0 <8 digits>	SYS	Counts the number of output pages.	4
6813-1		or BOX / Large	2-UP / Duplex printing	PRT	0 <8 digits>	SYS	Counts the number of output pages using [2IN1] or [MAGAZINE SORT].	4
6813-2			2-UP / Simplex printing	PRT	0 <8 digits>	SYS	Counts the number of sheets using [2IN1] or [MAGAZINE SORT].	4
6813-3			4-UP / Duplex printing	PRT	0 <8 digits>	SYS	Counts the number of output pages using [4IN1].	4
6813-4			4-UP / Simplex printing	PRT	0 <8 digits>	SYS	Counts the number of sheets using [4IN1].	4
6813-5			N-UP / Duplex printing	PRT	0 <8 digits>	SYS	Counts the number of output pages using [N IN1].	4
6813-6			N-UP / Simplex printing	PRT	0 <8 digits>	SYS	Counts the number of sheets using [N IN1].	4
6813-7			1-UP / Simplex printing	PRT	0 <8 digits>	SYS	Counts the number of output pages.	4

		Setting mo	de (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	ltem	s	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
6815-0	Counter	Number of output pages of the FAX printing /	1-UP / Simplex printing 1-UP /	FAX	0 <8 digits>	SYS SYS	Counts the number of output pages in the default settings.	4
0544	Canaral	Large	Duplex printing	DDT	<8 digits>	01/0	0. Disabled	1
8511	General	wide A4 wode	(for PCL)	PRI	<0-1>	515	1: Enabled	1
8517	General	Remote Scan L tication automa	Jser authen- tic login	ALL	1 <0-1>	SYS	 OFF (A user always enters manually (current method)) ON (Previous authentication infor- mation will be used) 	1
8535	Network	Storing network	logs in the	ALL	2 <1-2>	SYS	Stores the network logs of SRAM in the HDD when network-related trouble occurred. 1: Enabled 2: Disabled	1
8536	Network	Data size when work logs in the	storing net- HDD	ALL	30 <1-30>	SYS	Specifies the size of network logs to be stored in the HDD. 1-30:1-30 MB	1
8548	Paper feeding	Operation of ca change when p interrupted by s match	issette size rinting is size mis-	PRT	0 <0-1>	SYS	0: Operation of cassette size change is disabled. 1: Operation of cassette size change is enabled.	1
8549	Counter	Hardware key c external counte	ontrol when r is installed	ALL	0 <0-1>	SYS	0: No control 1: Mode switch key is disabled.	1
8823	Network	Port number 13 authentication	39 for user	ALL	1 <1-2>	NIC	If the connection to port number 139 is blocked, attempt to connect to port number 139 is skipped by setting this code to "2: disabled." This code is enabled when "Windows Domain Authentica- tion" is selected in [User Management Setting] - [Authentication] - [User Management Setting]. 1: Enabled 2: Disabled	12
9051	User interface	Panel calibratic value display	n setting	ALL	0 <0-1>	SYS	Switches whether the screen for displaying panel calibration set- ting values is displayed or not. 0: Disabled (screen not displayed) 1: Enabled (screen displayed)	1
9117	Network	Raw printing jo (Blank page wil printed)	b I not be	PRT	0 <0-1>	SYS	0: OFF 1: ON	1

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
9359	User interface	Printing resume after jam releasing	ALL	0 <0-1>	SYS	0: Auto resume1: Resume by users	1
9394	Network	Single-page option for stor- ing File and sending Email	ALL	0 <0-1>	SYS	0: Sets 1 page as 1 file1: Makes a file based on the original	1
9629	Network	Attribute name for LDAP Role Based Access	ALL	eBMUser R <->	SYS		11
9739	Mainte- nance	Remote service Toner-end notification	ALL	0 <0-2>	SYS	 RDMS toner empty notified immediately RDMS toner empty notified once a day RDMS toner empty not notified 	1
9798	Network	Temporary communication password setting	ALL	-	SYS	Sets a temporary com- munication password. The password can be entered in alphanu- meric 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-diag- nostic lists. (Maximum 10 digits, minimum 5 digits)	11
9819	General	STAGE SSL	ALL	1 <0-1>	SYS	 When remote scanning is performed, the SSL communication is car- ried out. 0: Disabled 1: Enabled (SSL com- munication) 	1
9822	General	STAGE SSL port number	ALL	20443 <0- 65535>	SYS	When remote scanning is performed using SSL communication, the SSL port number is set.	1
9828	General	Remote scanning mode	ALL	0 <0-1>	SYS	0: Batch 1: Sequential	1
9829	General	Department management limitation setting	ALL	0 <0-3>	SYS	 Decide the default limitation setting when the new department code is created. 0: No limit 1: Limited only in the black mode 2: Limited in the color mode 3: Limited in the black/ color mode 	1
9847	Finisher	Hole punching setting	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
9880	General	Total counter transmission date setting (2)	ALL	0 <0-31>	SYS	0 to 31	1

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2:</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2:	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
9881	General	Day of total counter data transmission	ALL	- <0-127>	-	1 byte 00000000(0)- 0111111(127) From the 2nd bit - Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday	1
9882	General	Display mode of the used capacity on the e-Filing administrator page	ALL	1 <0-1>	SYS	0: All files search mode1: Performance priority mode	2
9883	General	Hardcopy security printing	ALL	0 <0~1>	SYS	0: Disabled 1: Enabled	1
9884	General	Hardcopy security printing / Counting method switchover	ALL	0 <0~1>	SYS	0: Counted as 1 1: Counted as 2	1
9886	Scanning	Decimal point indication for Enhanced Scan Template	SCN	EUR: 0 UC: 1 JPN: 1 <0-1>	SYS	0: Comma 1: Period	1
9888	Scanner	Permission setting for changing the scan parame- ter when recalling an extension	SCN	1 <0-1>	SYS		1
9889	General	Acceptance of data cloning using USB storage device	ALL	0 <0-1>	SYS	Acceptance of the usage of the USB data cloning tool 0: Accepted 1: Not accepted	2
9891	User interface	Warning message on the touch panel when PM (Periodic Maintenance) time has come	ALL	1 <0-1>	SYS	 No warning notifica- tion Warning notification 	1
9933	Network	Domain participation con- firmation of printing when LDAP authentication is used	ALL	1 <0-1>	SYS	When LDAP is selected as authentication method for user authen- tication, checking of domain participation of client computer for print job authentication is set. This function is enabled only when department manage- ment is enabled. 0: Disabled 1: Enabled	1
9946	General	E-mail transmission retry number	ALL	3 <0-14>	SYS	The number of times of E-mail communication retry for Scan to E-mail and Internet Fax is set.	1
9947	General	E-mail transmission retry interval	ALL	1 <0-15>	SYS	When E-mail transmis- sion retry for Scan to E- mail and Internet Fax is performed, the interval is set. 0 min - 15 min	1

		Setting mode (08) <e-s< th=""><th>TUDIO2</th><th>02L/203L/2</th><th>32/233/2</th><th>282/283></th><th></th></e-s<>	TUDIO2	02L/203L/2	32/233/2	282/283>	
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure
9954	General	Control box counter / job list printing operation (Indi- vidual customer)	ALL	0 <0-1>	SYS	0: Invalid 1: Valid	1
9960	Mainte- nance	Displaying equipment information	ALL	0 <0-2>	SYS	Equipment information stored in NVRAM is dis- played. 0: Unset 1: e-STUDIO202L/ 232/282 2: e-STUDIO203L/ 233/283	2
9980	Network	Receiver's address fixing function at authentication	ALL	0 <0-1>	SYS	Fixes the receiver's address ("To: Destina- tion" field) when the user authentication and E-mail authentication are enabled. 0: Disabled 1: Enabled	1
<<Pixel counter related code>> (Chap. 2.2.9)
Setting mode (08) <e-STUDIO202L/203L/232/233/282/283>

			IODIOL				
Code	Classifi- cation	Items	Func- tion	<pre><accept- able value></accept- </pre>	RAM	Contents	Proce- dure
1500	Pixel counter	Standard paper size setting	ALL	EUR: 0 UC: 1 JPN: 0	SYS	Selects the standard paper size to convert it into the pixel count (%). 0: A4 1: LT	1
1501	Pixel counter	Pixel counter all clearing	ALL	-	SYS	Clears all information related to the pixel counter.	3
1502	Pixel counter	Service technician refer- ence counter clearing	ALL	-	SYS	Clears all information related to the service technician reference pixel counter.	3
1503	Pixel counter	Toner cartridge reference counter clearing	ALL	-	SYS	Clears all information related to the toner car- tridge reference pixel counter.	3
1504	Pixel counter	Pixel counter display set- ting	ALL	1 <0-1>	SYS	Selects whether or not to display the pixel counter on the LCD screen. 0: Displayed 1: Not displayed	1
1505	Pixel counter	Displayed reference set- ting	ALL	0 <0-1>	SYS	Selects the reference when displaying the pixel counter on the LCD screen. 0: Service technician reference 1: Toner cartridge ref- erence	1
1506	Pixel counter	Toner empty determination counter setting	ALL	0 <0-1>	SYS	Selects the counter to determine toner empty. 0: Output pages 1: Pixel counter	1
1507	Pixel counter	Threshold setting for toner empty determination (Output pages)	ALL	800 <0-999>	SYS	Sets the number of out- put pages to determine toner empty. This set- ting is valid when "0" is set at 08-1506.	1
1508	Pixel counter	Threshold setting for toner empty determination (Pixel count)	ALL	35100 <0- 60000>	SYS	Sets the pixel count to determine the toner empty status. This setting is valid when "1" is set at 08- 1506.	1
1509	Pixel counter	Pixel counter clear flag/ Service technician refer- ence	ALL	0 <0-1>	SYS	Becomes "1" when 08- 1502 is performed.	2
1510	Pixel counter	Service technician refer- ence cleared date	ALL	-	SYS	Displays the date on which 08-1502 was per- formed.	2
1514	Pixel counter	Toner cartridge reference cleared date	ALL	-	SYS	Displays the date on which 08-1503 was per- formed.	2
1518	Pixel counter	Toner cartridge reference count started date	ALL	-	SYS	Displays the date on which 08-1503 was per- formed.	2

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	Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>								
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure		
1548	Pixel counter	Number of output pages (Service technician refer- ence)	PPC	<8 digits>	SYS	Counts the number of output pages con- verted to the standard paper size in the copy function and service technician reference. [Unit. page]	2		
1550	Pixel counter	Number of output pages (Service technician refer- ence)	PRT	<8 digits>	SYS	Counts the number of output pages con- verted to the standard paper size in the printer function and service technician reference. [Unit. page]	2		
1551	Pixel counter	Number of output pages (Service technician refer- ence)	FAX	<8 digits>	SYS	Counts the number of output pages con- verted to the standard paper size in the FAX function and service technician reference. [Unit. page]	2		
1553	Pixel counter	Number of output pages (Toner cartridge reference)	PPC	<8 digits>	SYS	Counts the number of output pages con- verted to the standard paper size in the copy function and toner car- tridge reference. [Unit. page]	2		
1555	Pixel counter	Number of output pages (Toner cartridge reference)	PRT	<8 digits>	SYS	Counts the number of output pages con- verted to the standard paper size in the printer function and toner car- tridge reference. [Unit. page]	2		
1556	Pixel counter	Number of output pages (Toner cartridge reference)	FAX	<8 digits>	SYS	Counts the number of output pages con- verted to the standard paper size in the FAX function and toner car- tridge reference. [Unit. page]	2		
1566	Pixel counter	Toner cartridge replace- ment counter	ALL	<3 digits>	SYS	Counts the number of time of the toner car- tridge replacement.	2		
1592	Pixel counter	Average pixel count (Service technician refer- ence)	PPC	0 <0- 10000>	SYS	Displays the average pixel count in the copy function and service technician reference. [Unit: 0.01%]	2		
1593	Pixel counter	Average pixel count (Service technician refer- ence)	PRT	0 <0- 10000>	SYS	Displays the average pixel count in the printer function and service technician reference. [Unit: 0.01%]	2		

	Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>								
Code	Classifi- cation	Items	Func- tion	Default <accept- able value></accept- 	RAM	Contents	Proce- dure		
1594	Pixel counter	Average pixel count (Service technician refer- ence)	FAX	0 <0- 10000>	SYS	Displays the average pixel count in the FAX function and service technician reference. [Unit: 0.01%]	2		
1595	Pixel counter	Average pixel count (Service technician refer- ence)	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		
1606	Pixel counter	Latest pixel count (Service technician refer- ence)	PPC	0 <0- 10000>	SYS	Displays the latest pixel count in the copy func- tion and service techni- cian reference. [Unit: 0.01%]	2		
1607	Pixel counter	Latest pixel count (Service technician refer- ence)	PRT	0 <0- 10000>	SYS	Displays the latest pixel count in the printer function and service technician reference. [Unit: 0.01%]	2		
1608	Pixel counter	Latest pixel count (Service technician refer- ence)	FAX	0 <0- 10000>	SYS	Displays the latest pixel count in the FAX func- tion and service techni- cian reference. [Unit: 0.01%]	2		
1613	Pixel counter	Average pixel count (Toner cartridge reference)	PPC	0 <0- 10000>	SYS	Displays the average pixel count in the copy function and toner car- tridge reference. [Unit: 0.01%]	2		
1619	Pixel counter	Average pixel count (Toner cartridge reference)	PRT	0 <0- 10000>	SYS	Displays the average pixel count in the printer function, and toner car- tridge reference. [Unit: 0.01%]	2		
1624	Pixel counter	Average pixel count (Toner cartridge reference)	PPC/ PRT/ FAX	0 <0- 10000>	SYS	Displays the average pixel count in the copy/ printer/FAX function and toner cartridge ref- erence. [Unit: 0.01%]	2		
1625	Pixel counter	Average pixel count (Toner cartridge reference)	FAX	0 <0- 10000>	SYS	Displays the average pixel count in the FAX function and toner car- tridge reference. [Unit: 0.01%]	2		
1634	Pixel counter	Latest pixel count (Toner cartridge reference)	FAX	0 <0- 10000>	SYS	Displays the latest pixel count in the FAX func- tion and toner cartridge reference. [Unit: 0.01%]	2		
1639	Pixel counter	Latest pixel count (Toner cartridge reference)	PPC	0 <0- 10000>	SYS	Displays the latest pixel count in the copy func- tion and toner cartridge reference. [Unit: 0.01%]	2		

Setting mode (08) <e-studio202l 203l="" 232="" 233="" 282="" 283=""></e-studio202l>								
					Default			
Code	Classifi-	lter		Func-	<accept-< th=""><th>DAM</th><th>Contonto</th><th>Proce-</th></accept-<>	DAM	Contonto	Proce-
Code	cation	Iten	15	tion	able	RAW	Contents	dure
					value>			
1640	Pixel	Latest pixel co	unt	PRT	0	SYS	Displays the latest pixel	2
	counter	(Toner cartridg	e reference)		<0-		count in the printer	
					10000>		function and toner car-	
							[Unit: 0.01%]	
1649-0	Pixel	Pixel count	0-5%	PPC	<8 diaits>	SYS	The pixel count data	14
1649-1	counter	distribution	5.1-10%	PPC	<8 digits>	SYS	are divided into 10	14
1649-2			10.1-15%	PPC	<8 digits>	SYS	ranges. The number of	14
1649-3			15.1-20%	PPC	<8 digits>	SYS	output pages in each	14
1649-4			20.1-25%	PPC	<8 digits>	SYS	this code, the distribu-	14
1649-5			25.1-30%	PPC	<8 digits>	SYS	tions in the copy func-	14
1649-6			30.1-40%	PPC	<8 digits>	SYS	tion are displayed.	14
1649-7			40.1-60%	PPC	<8 digits>	SYS	[Unit: page]	14
1649-8			60.1-80%	PPC	<8 digits>	SYS		14
1649-9			80.1-	PPC	<8 digits>	SYS		14
			100%					
1650-0	Pixel	Pixel count	0-5%	PRT	<8 digits>	SYS	The pixel count data	14
1650-1	counter	distribution	5.1-10%	PRI	<8 digits>	SYS	ranges The number of	14
1650-2			10.1-15%	PRI	<8 digits>	SYS	output pages in each	14
1650-3			15.1-20%	PRI	<8 digits>	SYS	range is displayed. In	14
1650-4			20.1-25%	PRI	<8 digits>	SYS	this code, the distribu-	14
1650-5			25.1-30%	PRI	<8 digits>	SYS	tions in the printer func-	14
1650-6			30.1-40%	PRI	<8 digits>	SYS	I lon are displayed.	14
1650-7			40.1-60%	PRI	<8 digits>	SYS		14
1650-8			60.1-80%	PRI	<8 digits>	SYS		14
1650-9			80.1-	PRI	<8 digits>	SYS		14
1651-0	Pixel	Pixel count	0-5%	FAX	<8 diaits>	SYS	The pixel count data	14
1651-1	counter	distribution	5.1-10%	FAX	<8 digits>	SYS	are divided into 10	14
1651-2			10.1-15%	FAX	<8 digits>	SYS	ranges. The number of	14
1651-3			15.1-20%	FAX	<8 digits>	SYS	output pages in each	14
1651-4			20.1-25%	FAX	<8 digits>	SYS	this code the distribu-	14
1651-5			25.1-30%	FAX	<8 digits>	SYS	tions in the FAX func-	14
1651-6			30.1-40%	FAX	<8 digits>	SYS	tion are displayed.	14
1651-7			40.1-60%	FAX	<8 digits>	SYS	[Unit: page]	14
1651-8			60.1-80%	FAX	<8 digits>	SYS		14
1651-9			80.1-	FAX	<8 digits>	SYS		14
			100%		-			

<<PM support mode related code>>

 The management items at PM support mode can also be operated at setting mode (08). The following items are displayed or set by using sub-codes at PM management setting in the table below.

<Sub-codes>

- 0: Present number of output pages
- Means the present number of output pages.
- 1: Recommended number of output pages for replacement
 - Means the recommended number of output pages for replacement.
- 2: Number of output pages at the last replacement
 - Means the number of output pages at the last replacement.
- 3: Present driving counts
 - Means the present drive counts (1 count = 2 seconds).
- 4: Recommended driving counts to be replaced
 - Means the recommended drive counts for replacement (1 count = 2 seconds).
- 5: Driving counts at the last replacement
 - Means the drive counts at the last replacement.
- 6: Present output pages for control
 - Means the present number of output pages for controlling.
- 7: Present driving counts for control
 - Means the present drive counts for controlling (1 count = 2 seconds).
- 8: Number of times replaced
 - Counts up when clearing the counter of each unit in the PM Support Mode Screen.

Notes:

- Sub-code 3 is equivalent to sub-code 7.
- When the value of sub-code 3 is changed, the value of sub-code 7 is also updated and vice versa.
- When "0" is set at one of sub-codes 0, 3, 6 and 7, the rest of them are automatically updated to "0".

ltems	PM management set- ting <procedure 4=""> *Indicated in 8 digits</procedure>	Date of previous replacement <procedure 2=""></procedure>	Remarks
Photoconductive drum	1150-0 to 8	1151	<default 1150<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0/0 Sub-code 1: 64,000/74,000/90,000 Sub-code 4: 120,000/120,000/120,000</default>
Drum cleaning blade	1158-0 to 8	1159	<default 1158<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0/0 Sub-code 1: 64,000/74,000/90,000 Sub-code 4: 120,000/120,000/120,000</default>
Drum separation finger	1172-0 to 8	1173	<default 1172<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0/0 Sub-code 1: 64,000/74,000/90,000 Sub-code 4: 120,000/120,000/120,000</default>
Main charger grid	1174-0 to 8	1175	<default 1174<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0/0 Sub-code 1: 64,000/74,000/90,000 Sub-code 4: 120,000/120,000/120,000</default>
Needle electrode	1182-0 to 8	1183	<default 1182<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0/0 Sub-code 1: 64,000/74,000/90,000 Sub-code 4: 120,000/120,000/120,000</default>
Ozone filter	1198-0 to 8	1199	<default 1198<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0/0 Sub-code 1: 128,000/148,000/180,000 Sub-code 4: 240,000/240,000/240,000</default>
Developer material	1200-0 to 8	1201	<default 1200<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0/0 Sub-code 1: 64,000/74,000/90,000 Sub-code 4: 120,000/120,000/120,000</default>
Transfer charger wire	1214-0 to 8	1215	<default 1214<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0/0 Sub-code 1: 64,000/74,000/90,000 Sub-code 4: 120,000/120,000/120,000</default>
Separation charger wire	1224-0 to 8	1225	<default 1224<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0/0 Sub-code 1: 64,000/74,000/90,000 Sub-code 4: 120,000/120,000/120,000</default>

Items	PM management set- ting <procedure 4=""> *Indicated in 8 digits</procedure>	Date of previous replacement <procedure 2=""></procedure>	Remarks
Fuser roller	1246-0 to 8	1247	<default 1246<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0/0 Sub-code 1: 128,000/148,000/180,000 Sub-code 4: 240,000/240,000/240,000</default>
Pressure roller	1250-0 to 8	1251	<default 1250<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0/0 Sub-code 1: 128,000/148,000/180,000 Sub-code 4: 240,000/240,000/240,000</default>
Cleaning roller	1266-0 to 8	1267	<default 1266<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0/0 Sub-code 1: 128,000/148,000/180,000 Sub-code 4: 240,000/240,000/240,000</default>
Fuser roller separation finger	1268-0 to 8	1269	<default 1268<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0/0 Sub-code 1: 128,000/148,000/180,000 Sub-code 4: 240,000/240,000/240,000</default>
Pickup roller (RADF)	1282-0,1,2,8	1283	<default 1282<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 120,000/120,000/120,000</default>
Feed roller (RADF)	1284-0,1,2,8	1285	<default 1284<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 120,000/120,000/120,000</default>
Separation roller (RADF)	1286-0,1,2,8	1287	<default 1286<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 120,000/120,000/120,000</default>
Pickup roller (Upper drawer)	1290-0,1,2,8	1291	<default 1290<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default>
Pickup roller (Lower drawer)	1292-0,1,2,8	1293	<default 1292<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default>
Pickup roller (LCF)	1294-0,1,2,8	1295	<default 1294<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 160,000/160,000/160,000</default>
Feed roller (Upper drawer)	1298-0,1,2,8	1299	<default 1298<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default>

e-STUDIO200L/202L/203L/230/230L/232/233/280/282/283 ERROR CODE AND SELF-DIAGNOSTIC MODE

Items	PM management set- ting <procedure 4=""> *Indicated in 8 digits</procedure>	Date of previous replacement <procedure 2=""></procedure>	Remarks
Feed roller (Lower drawer)	1300-0,1,2,8	1301	<default 1300<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default>
Feed roller (LCF)	1302-0,1,2,8	1303	<default 1302<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 160,000/160,000/160,000</default>
Separation roller (Upper drawer)	1306-0,1,2,8	1307	<default 1306<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default>
Separation roller (Lower drawer)	1308-0,1,2,8	1309	<default 1308<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default>
Separation roller (LCF)	1310-0,1,2,8	1311	<default 1310<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 160,000/160,000/160,000</default>
Separation roller (PFP upper drawer)	1312-0,1,2,8	1313	<default 1312<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default>
Separation roller (PFP lower drawer)	1314-0,1,2,8	1315	<default 1314<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default>
Separation roller (Bypass unit)	1316-0,1,2,8	1317	<default 1316<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default>
Feed roller (PFP upper drawer)	1320-0,1,2,8	1321	<default 1320<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default>
Feed roller (PFP lower drawer)	1322-0,1,2,8	1323	<default 1322<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default>
Feed roller (Bypass unit)	1324-0,1,2,8	1325	<default 1324<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default>

ltems	PM management set- ting <procedure 4=""> *Indicated in 8 digits</procedure>	Date of previous replacement <procedure 2=""></procedure>	Remarks
Pickup roller (PFP upper drawer)	1328-0,1,2,8	1329	<pre><default (e-studio202l="" 1328="" 203l="" 232="" 233="" 282="" 283)="" code="" of="" values=""> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default></pre>
Pickup roller (PFP lower drawer)	1330-0,1,2,8	1331	<default 1330<br="" code="" of="" values="">(e-STUDIO202L/203L/232/233/282/ 283)> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default>
Pickup roller (Bypass unit)	1332-0,1,2,8	1333	<pre><default (e-studio202l="" 1332="" 203l="" 232="" 233="" 282="" 283)="" code="" of="" values=""> Sub-codes 0, 2, 8: 0/0/0 Sub-code 1: 80,000/80,000/80,000</default></pre>
Recovery blade	1336-0 to 8	1337	<pre><default (e-studio202l="" 1336="" 203l="" 232="" 233="" 282="" 283)="" code="" of="" values=""> Sub-codes 0, 2, 3, 5, 6, 7, 8: 0/0/0 Sub-code 1: 64,000/74,000/90,000 Sub-code 4: 120,000/120,000/120,000</default></pre>

2

<< Procedure to copy the total counter value (08-257)>>

- (1) Turn ON the power while [0] and [8] are pressed simultaneously.
- (2) Key in the code "257" with the digital keys and press the [START] button (the following is displayed).

Note:

Before performing the following operations, note the current counter values.

0% 257 System Mode	
99999999 99999999	

Fig. 2-7

- (3) Key in the value "1" or "2" with the digital key and press the [START] button.
- The value entered is displayed on the left of the "%", and the [ENTER] button is displayed. **Note:**

The value can be erased by pressing the [CLEAR] button to change as long as the [START] button is not pressed. (The value on the left of the "%" is reset to "0" by pressing the [CLEAR] button.)

• Key in "1" to copy the value of the total counter (LGC board) (A) onto the value of the backup counter (SYS board) (B).

<u>1 %</u> system mc 99999999>	257 DE 999999999
CANCEL	ENTER

Fig. 2-8

 Key in "2" to copy the value of the backup counter (SYS board) (B) onto the value of the total counter (LGC board) (A).



Fig. 2-9

(4) Press the [ENTER] button to complete overwriting of the counter value.

Note:

The screen returns to the code entry screen without copying (overwriting) the value when the [CANCEL] button is pressed.

2.2.9 Pixel counter

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.

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. 2-10 Factors affecting toner consumption and the tendency

2

- 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 (08-1506) between the pixel count and output pages (0: Output pages 1: Pixel counter). The threshold of pixel count is set in the setting mode (08-1508) and that of output pages is set in the setting mode (08-1507). 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 (08-1503).

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 (08-1502).

- 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 (08-1500). 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:

Note:

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.) \rightarrow Pixel count: 100%, Print count: 5

Printing 5 pages on A4/LT size with blank copy (Laser never emits.) \rightarrow 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.) \rightarrow Pixel count: 100%, Print count: 4

Printing 2 pages on A3/LD size with 6% of laser emission \rightarrow 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. 2

- 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.

		O: With data
		—÷ Without data
	Toner cartridge reference	Service technician reference
Copier function	0	0
Printer function	0	0
FAX function	0	0
Total	0	0

Table 2-201 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 (08-1500).

Pixel counter display setting

Whether or not to display the pixel counter on the LCD screen is selected (08-1504).

Display reference setting

The reference when displaying the pixel counter on the LCD screen (toner cartridge reference or service technician reference) is selected (08-1505).

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:

08-1501: All information related to the pixel count is cleared.

08-1502: All information related to the service technician reference pixel count is cleared.

08-1503: 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. 2-11 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 (08-1504), 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 (08-1505).

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 (08-1505).

	2004.07.11 12:36				
	USER	ADMIN			
TONER CARTRIDGE					
	Сору	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					

Fig. 2-12 Information screen of toner cartridge reference

The following screen is displayed when the service technician reference is selected in the setting mode (08-1505).

	2004.07.11 12:36			
	USER	ADMIN		
SERVICE				
	Сору	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				

Fig. 2-13 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.



Fig. 2-14 Data list of toner cartridge reference



Fig. 2-15 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 P. 2-84 "2.2.7 Setting mode (08) (e-STUDIO200L/230/230L/280)"/P. 2-153 "2.2.8 Setting mode (08) (e-STUDIO202L/203L/232/233/282/283)".

		Toner cartridge reference	Service technician reference
Copier function	Print count (page)	1553	1548
	Average pixel count (%)	1613	1592
	Latest pixel count (%)	1639	1606
Printer function	Print count (page)	1555	1550
	Average pixel count (%)	1619	1593
	Latest pixel count (%)	1640	1607
FAX function	Print count (page)	1556	1551
	Average pixel count (%)	1625	1594
	Latest pixel count (%)	1634	1608
Total	Average pixel count (%)	1624	1595

Print count, pixel count

Table 2-202 Pixel count code table

Pixel count distribution

	Pixel count distribution (page)
Copier function	1649
Printer function	1650
FAX function	1651

Table 2-203 Pixel count code table

Note:

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. (08-1566)

Toner cartridge reference count started date The toner cartridge reference count started date is displayed. (08-1518)

Service technician reference cleared date The service technician reference cleared date is displayed.(08-1510) The date (08-1502 was performed) is stored.

Toner cartridge reference cleared date The toner cartridge reference cleared date is displayed. The date (08-1503 was performed) is stored.

2.2.10 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO200L/230/230L/280)

Classification	e-STUDIO200L/230/230L/280		
Classification	Adjustment Mode (05)	Setting Mode (08)	
User interface		[Date/Time] 200, 638, 640 [Timer] 204, 205, 206, 260 [Screen] 207, 602, 1132 [File] 209, 219, 264, 288 [Language] 220, 221 [Administrator] 263 [Scanning] 265, 266, 273, 274 [Filing] 267, 270, 950, 976, 980, 981, 985 [HDD] 271 [E-mail] 272, 1097, 1098 [default setting] 276, 281, 283, 284, 285, 286, 331, 480, 503, 550, 603, 604, 607, 618, 642, 682, 969, 986, 1135 [Raw printing] 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 973, 978, 979 [Copy volume] 300 [Original counter] 302 [Custom Mode] 508 [Energy saving] 601, 948, 970 [AMS] 605 [Sound] 610 [Book duplexing] 611 [Summer time] 612 [Paper size] 613 [Department management] 617 620, 621, 622, 623, 624, 629, 672 [Sorting] 627, 634, 641, 649 [Original direction] 628 [Image shift] 636 [Edit copying] 645, 646 [Box printing] 647, 953, 954 [X in 1] 650 [Annotation] 651, 657 [Automatic transfer] 660, 661 [Indicator] 671 [Priority drawer] 689 [Media type] 697 [Job Build] 1130, 1131	
Scanner	[Position] 305, 306 [Distortion] 308 [Reproduction ratio] 340 [Carriage position] 359		
Image	[Margin] 430, 431, 432, 433, 434-0 to 1, 435, 436, 437, 438 [Image density] 501, 503, 504, 505, 506, 507, 508, 509, 510, 512, 514, 515, 710, 714, 715, 719, 720, 724, 725, 729, 845, 846, 847, 850, 851, 852, 855, 856, 857, 860, 861, 862, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942 [Range correction] 532, 533, 534, 570, 571, 572, 693, 694, 695, 820, 821, 822, 825, 826, 827, 830, 831, 832, 835, 836, 837, 913, 914, 915, 916, 917, 918, 919, 920, 921 [Gamma slope] 593, 594, 595, 943, 944, 945 [Sharpness] 620, 621, 622, 865-0 to 2, 866-0 to 2, 867-0 to 2, 922, 923, 924 [Smudged/Faint text] 653, 654, 655, 928 [Printer density] 667-0 to 4, 672-0 to 4, 676-0 to 4 [Binarizing] 700, 701, 702	[Error diffusion / Dither] 502, 509	
Drive	[Main motor] 421, 422 [Exit motor] 424, 425		

Classification	e-STUDIO200L/230/230L/280	
Classification	Adjustment Mode (05)	Setting Mode (08)
Paper feeding	[Aligning amount] 448-0 to 2, 449-0 to 2, 450-0 to 2, 452-0 to 2, 455-0 to 2, 457, 458-0 to 2, 460-0 to 2, 461-0 to 2, 462-0 to 3, 463-0 to 2, 464-0 to 2, 469-0 to 5, 470-0 to 2, 471-0 to 2, 472-0 to 2, 473, 474-0 to 2 [Paper pushing amount] 466-0 to 7	[paper dimension] 210, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 337, 338, 339, 340, 341, 471 [Paper feeding] 254, 255, 481, 619, 658, 659, 988, 1133 [Retry] 463-0 to 1, 464-0 to 1, 465-0 to 1, 466- 0 to 1, 467-0 to 1,468-0 to 1, 482, 1390, 1391, 1392, 1393, 1394, 1395, 1396, 1397, 1398, 1399, 1400, 1401 [Paper size] 224, 225, 226, 227, 228, 247, 248, 249, 256 [Blank copying prevention] 625
Laser	[Laser power] 286 [Polygonal motor] 401, 405 [Write starting] 410, 411, 440, 441, 442, 443, 444, 445, 498-0 to 1 [Sideways deviation] 497-0 to 5	[Polygonal motor] 398, 399, 478, 479, 483, 484, 485, 486, 488, 489, 490 [Power correction] 872, 873, 875, 876, 877
Development	[Auto-toner] 200, 201	[Auto-toner] 414, 455
High-voltage transformer	[Main charger bias] 210 [Developer bias] 205 [Transfer bias] 220, 221, 222 [Separation bias] 233, 234, 235	[Transfer bias] 491, 492, 493, 830, 868, 869 [Main charger bias] 805, 806, 807, 808, 809, 826, 864, 865, 866, 867 [Developer bias] 833, 834, 835, 836, 837, 859, 860, 861, 862, 863 [Separation bias] 831, 870, 871
Fuser		[Status counter] 400 [Temperature] 404-0 to 3, 405-0 to 3, 407, 409, 410, 411, 412, 413, 424-0 to 3, 425-0 to 3, 433-0 to 1, 437, 438, 448, 450, 451, 452, 453, 515, 516, 518, 520, 521, 525-0 to 3, 527-0 to 3, 535, 536-0 to 3, 537-0 to 3, 800-0 to 1, 801- 0 to 1, 802-0 to 1, 803-0 to 1, 804-0 to 1, 886, 896-0 to 1 [Pre-running] 417, 439, 440, 441, 523, 526
RADF	[Aligning amount] 354, 355 [Sensors/EEPROM] 356, 367, 368 [Transporting] 357, 358, 365, 366	[Switchback] 462
Finisher	[Folding / Binding position] 468-0 to 2	[Tray reset] 648 [Cascade] 652, 653

Classification	e-STUDIO200L/230/230L/280	
Classification	Adjustment Mode (05)	Setting Mode (08)
Network		[NIC] 1001, 1002, 1003, 1004, 1120 [IP address] 1005, 1006, 1007, 1008, 1009, 1010 [IPX] 1011, 1099 [Frame type] 1012 [NCP] 1013 [AppleTalk] 1014, 1015 [LDAP] 1016, 1138, 1139, 1486 [DNS] 1017, 1018, 1019 [DDNS] 1020 [SLP] 1021 [NetBios] 1023 [WINS] 1024, 1025 [Bindery] 1026 [NDS] 1027 [Directory] 1028, 1029 [HTTP] 1030, 1031, 1032, 1033, 1034, 1035 [SMTP] 1037, 1038, 1039, 1040, 1041, 1042, 1100, 1101, 1102 [Offramp] 1043, 1044, 1045 [POP3] 1046, 1047, 1048, 1049, 1050, 1051, 1052 [FTP] 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1089, 1090, 1091, 1092 [MIB] 1063 [Community] 1065, 1066 [TRAP] 1067, 1068, 1069, 1070 [Raw/TCP] 945, 1073, 1074 [LPD] 1075, 1076, 1077 [IPP] 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088 [Novell] 1093, 1094 [SearchRoot] 1095 [Print queue] 1096 [Rendezvous] 1103 [SMB] 1117, 1136 [ASCII code] 977 [Link local host name] 1104 [Service name] 1105 [Host name] 1112 [Internet FAX] 1114, 1485 [Workgroup name] 1124 [Private print] 1432 [Function] 1433, 1434 [Scan to E-mail] 1484 [From Address] 1487, 1488, 1489 [E-mail domain] 1491
Counter		[External counter] 202, 381, 683, 975, 1126 [Counter copy] 257 [Paper size] 305-0 to 16, 306-0 to 16, 307-0 to 16, 308-0 to 16, 312-0 to 16, 313-0 to 16, 314- 0 to 16, 315-0 to 16, 316-0 to 16 [Large/Small size] 320-0 to 2, 321-0 to 2, 322- 0 to 2, 323-0 to 2, 327-0 to 2, 328-0 to 2, 329-0 to 2, 330-0 to 2, 332-0 to 2, 335-0 to 2 [Double count] 345, 346, 347, 348, 349, 352, 353 [Paper source] 356, 357, 358, 359, 360, 370, 372, 374 [HDD] 390, 391, 392, 393 [Fuser unit] 1372, 1378, 1380, 1382 [Toner cartridge] 1376, 1410 [Media type] 1385, 1386, 1387, 1388, 1411
Version		[System firmware] 900, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 933, 934, 935, 936, 937, 938, 939, 944 [Engine firmware] 903, 905, 907, 908 [FAX] 915 [NIC] 916

Classification	e-STUDIO200L/230/230L/280	
Classification	Adjustment Mode (05)	Setting Mode (08)
Maintenance		[PM counter] 251, 252 [Telephone] 250 [Error history] 253 [FSMS] 258, 999 [Service notification] 702, 703, 707, 715, 716, 717, 718, 719, 720, 721, 723, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 796 [HTTP] 726, 727, 728, 729, 730, 731 [Supply order] 732, 733, 734, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 758, 759, 760, 765, 794, 1145 [Firmware download] 797 [Emergency Mode] 710, 711
Others	[Equipment number] 976 [Toner recycle] 280	[Destination] 201, 701, 849 [Line] 203 [Private printing] 259 [Local I/F] 614 [Memory] 615 [Partition] 662, 666, 667 [Clear] 693 [Trial period] 673, 695, 798, 799 [Banner] 678, 679, 680, 681 [Database] 684, 685, 686 [HDD] 670, 690, 691, 694, 1422, 1424, 1426 [Control panel] 692 [Scrambler board] 696, 698, 699 [Data overwrite kit] 633 [Equipment number] 995 [Toner recycle] 838 [Machine identification information] 477 [Temperature/humidity] 839 [Initialization] 947 [Mode setting] 949 [Template] 1140 [NVRAM] 1427 [SRAM] 1428

2.2.11 Classification List of Adjustment Mode (05) / Setting Mode (08) (e-STUDIO202L/203L/232/233/282/283)

Classification	e-STUDIO202L/203L/232/233/282/283		
Classification	Adjustment Mode (05)	Setting Mode (08)	
User interface		Setting Note (06) [Date/Time] 200, 638, 640 [Timer] 204, 205, 206, 260 [Screen] 207, 602, 1132 [File] 209, 219, 264, 288 [Language] 220, 221 [Administrator] 263 [Scanning] 265, 266, 273, 274 [Filing] 267, 270, 950, 976, 980, 981, 985 [HDD] 271 [E-mail] 272, 1097, 1098 [default setting] 276, 281, 283, 284, 285, 286, 331, 480, 503, 550, 603, 604, 607, 618, 642, 682, 969, 986, 1135 [Raw printing] 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 973, 978, 979, 1856, 1857, 9117 [Copy volume] 300 [Original counter] 302 [Custom Mode] 508 [Energy saving] 601, 970 [AMS] 605 [Sound] 610 [Book duplexing] 611 [Summer time] 3852, 3853, 3854, 3855, 3856, 3857, 3858, 3859, 3860, 3861, 3862, 3863 [Paper size] 613 [Department management] 617 620, 621, 622, 623, 624, 629, 672 [Sorting] 627, 634, 641, 649 [Original direction] 628 [Image shift] 636, 1429, 1430 [Edit copying] 645, 646 [Box printing] 953, 954 [X in 1] 650 [Panel calibration] 9051 [Annotation] 651, 657	
Scanner	[Position] 305, 306 [Distortion] 308 [Reproduction ratio] 340 [Carriage position] 359	[Enhanced template] 9886, 9888	
	[Shading position] 350, 351		

Classification	e-STUDIO202L/203L/232/233/282/283		
Classification	Adjustment Mode (05)	Setting Mode (08)	
Image	[Margin] 430, 431, 432, 433, 434-0 to 1, 435, 436, 437, 438 [Image density] 501, 503, 504, 505, 506, 507, 508, 509, 510, 512, 514, 515, 710, 714, 715, 719, 720, 724, 725, 729, 845, 846, 847, 850, 851, 852, 855, 856, 857, 860, 861, 862, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942 [Range correction] 532, 533, 534, 570, 571, 572, 693, 694, 695, 820, 821, 822, 825, 826, 827, 830, 831, 832, 835, 836, 837, 913, 914, 915, 916, 917, 918, 919, 920, 921 [Gamma slope] 593, 594, 595, 943, 944, 945 [Gamma balance] 596-0 to 2, 597-0 to 2, 598- 0 to 2, 599-0 to 2 [Sharpness] 620, 621, 622, 865-0 to 2, 866-0 to 2, 867-0 to 2, 922, 923, 924 [Smudged/Faint text] 648, 654, 655, 928 [Printer density] 667-0 to 4, 672-0 to 4, 676-0 to 4 [Binarizing] 700, 701, 702	[Error diffusion / Dither] 502, 509 [Default setting of sharpness] 1479	
Drive	[Main motor] 421, 422		
Paper feeding	[Exit motor] 424, 425 [Aligning amount] 448-0 to 2, 449-0 to 2, 450-0 to 2, 452-0 to 2, 455-0 to 2, 457, 458-0 to 2, 460-0 to 2, 461-0 to 2, 462-0 to 3, 463-0 to 2, 464-0 to 2, 469-0 to 5, 470-0 to 2, 471-0 to 2, 472-0 to 2, 473, 474-0 to 2 [Paper pushing amount] 466-0 to 7	[paper dimension] 210, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 337, 338, 339, 340, 341, 471 [Paper feeding] 254, 255, 481, 619, 658, 659, 988, 1133, 4016-0 to 1 [Retry] 463-0 to 1, 464-0 to 1, 465-0 to 1, 466-0 to 1, 467-0 to 1,468-0 to 1, 465-0 to 1, 466-0 to 1, 467-0 to 1,468-0 to 1, 482, 1390, 1391, 1392, 1393, 1394, 1395, 1396, 1397, 1398, 1399, 1400, 1401 [Paper size] 224, 225, 226, 227, 228, 247, 248, 249, 256, 8548 [Blank copying prevention] 625 [Incorrect paper size jam] 449 [Tab paper] 1437, 1438, 1439 [Detection] 1492, 4621, 4622	
Laser	[Laser power] 286 [Polygonal motor] 401, 405 [Write starting] 410, 411, 440, 441, 442, 443, 444, 445, 498-0 to 1 [Sideways deviation] 497-0 to 5	[Polygonal motor] 398, 399, 478, 479, 483, 484, 485, 486, 488, 489, 490 [Power correction] 872, 873, 875, 876, 877	
Development	[Auto-toner] 200, 201	[Auto-toner] 414, 455	
High-voltage transformer	[Main charger bias] 210 [Developer bias] 205 [Transfer bias] 220, 221, 222 [Separation bias] 233, 234, 235	[Transfer bias] 491, 492, 493, 830, 868, 869 [Main charger bias] 805, 806, 807, 808, 809, 826, 864, 865, 866, 867 [Developer bias] 833, 834, 835, 836, 837, 859, 860, 861, 862, 863 [Separation bias] 831, 870, 871	
Fuser		[Status counter] 400 [Temperature] 404-0 to 3, 405-0 to 3, 407, 409, 410, 411, 412, 413, 424-0 to 3, 425-0 to 3, 433-0 to 1, 437, 438, 448, 450, 451, 452, 453, 515, 516, 518, 520, 521, 525-0 to 3, 527-0 to 3, 535, 536-0 to 3, 537-0 to 3, 800-0 to 1, 801- 0 to 1, 802-0 to 1, 803-0 to 1, 804-0 to 1, 886, 896-0 to 1 [Pre-running] 417, 439, 440, 441, 523, 526	

Classification	e-STUDIO202L/203L/232/233/282/283		
Classification	Adjustment Mode (05)	Setting Mode (08)	
RADF	[Aligning amount] 354, 355 [Transporting] 357, 358, 365, 366	[Switchback] 462	
Finisher	[Folding / Binding position] 468-0 to 2	[Tray reset] 648 [Cascade] 652, 653 [Interruption of stapling operation (no staple)] 704-0 to 1 [Hole punching] 9847	
Network		 [NIC] 1002, 1003, 1119 [IP address] 1006, 1007, 1008, 1009, 1010, 3769 [IPv6] 3767, 3768, 3770, 3775, 3776, 3777 [IPX] 1011, 1099 [Frame type] 1012 [NCP] 1013 [AppleTalk] 1014, 1015, 1854, 1855, 1936 [LDAP] 1016, 1138, 1139, 3743, 9629, 9933 [DNS] 1017, 1018, 1019, 3736, 3781, 3782, 3784 [DDNS] 1020, 3737, 3745, 3746, 3747, 3748 [DPWS] 3749, 3750, 3751, 3752, 3753, 3754, 3755, 3757, 3758, 3759, 3760, 3765, 3766, 3785, 3796 [NetBios] 1023 [WINS] 1024, 1025 [Bindery] 1026 [NDS] 1027 [Directory] 1028, 1029 [HTTP] 1030, 1031, 1032, 3738 [SMTP] 1037, 1038, 1039, 1040, 1041, 1042, 1100, 1101, 1102, 3741 [Direct SMTP] 3810, 3811 [Offramp] 1043, 1044, 1045 [POP3] 1046, 1047, 1048, 1049, 1050, 1051, 1052, 3742, 3744 [FTP] 1055, 1057, 1058, 1059, 1060, 1061, 1062, 1089, 1090, 1091, 1092, 3739 [MIB] 1063 [Community] 1065, 1066 [TRAP] 1067, 1068, 1069, 1070 [Raw/TCP] 945, 1073, 1074 [LPD] 1075, 1076, 1077, 1852, 1853 [IPP] 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1447, 1448, 1449, 1450, 1451, 1850, 1851 [Novell] 1093, 1094 [SearchRoot] 1095 [Print queue] 1096 [Rendezvous] 1103 [SMB] 1117, 1950, 1951 [ASCII code] 977 [Link local host name] 1104 [Service name] 1105 [Host name] 1104 [Service name] 1105 [Host name] 1112 [Internet FAX] 1114, 1485, 3812, 3819, 3820, 3821, 3822, 3829, 3830 [Workgroup name] 1124 [Samba] 1464, 3783, 3833 [Privite print] 1432 	

Cleasification	e-STUDIO202L/203L/232/233/282/283	
Classification	Adjustment Mode (05)	Setting Mode (08)
Classification Network Image: state of the second state of the seco	e-STUDIO202L/20: Adjustment Mode (05)	Setting Mode (08) Setting Mode (08) [Scan to E-mail] 1484 [From Address] 1487, 1489 [E-mail] 3837, 9946, 9947 [E-mail] domain] 1491 [User authentication] 1113, 1471, 1496, 1921, 1922, 1925, 1937, 1943, 1954, 1955, 1956, 1957, 8823 [PDC] 1121 [BDC] 1122 [NT domain] 1123 [Address book] 1125, 1476, 1477 [Netware] 1128, 1129, 1134, 1143, 1144, 1148 [Network logs] 8535, 8536 [MAC address] 1141 [ACC] 1431 [Disable print save] 1435 [Disable fax save] 1436 [IP Conflict] 1440 [SNTP] 1441, 1442, 1444, 1445, 1446, 3740, 3845 [Device authentication] 1470, 1920, 1952, 1953, 1958, 1959, 1942, 1944 [IP Filter] 1720, 1721, 1722, 1723, 1724, 1725, 1726, 1727, 1728, 1729, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739 [SSL setting] 1740, 1741, 1742, 1743, 1744, 1745, 1746, 1747, 1748, 1749, 1750, 1751, 9819, 9822 [Enable server's IP] 1755, 1756, 1757, 1759, 1760, 1762, 1767, 3772, 3773, 3774, 3778, 3779, 3780 [Previous IP address] 1768 [Card authentification] 1776, 1777, 1927 [Scan to File] 1779, 1784, 1786, 8517 [Notification of scan job] 1781-0 to 1 [Save as file and Email transmission] 1782, 1783, 1785, 9394 [Network scanning] 1915, 1940, 3804, 3815, 3816, 3817, 3818
Bluetooth		1000, 1007, 1008, 1009, 1070, 1671, 1672, 1673, 1674, 1675, 1676, 1677, 1678 [Supplicant] 1679, 1681, 1682, 1684, 1685, 1688, 1689, 1690, 1691, 1692, 1693, 1696, 1697, 1699, 1700, 1701, 1704, 1705, 1706, 1707, 1764, 1765, 1766, 1764, 1765, 1766 [Bluetooth] 1709, 1710, 1711, 1712, 1713.
Bidetootii		1714, 1715, 1716, 1717, 1719, 1941

Classification	e-STUDIO202L/203L/232/233/282/283		
Classification	Adjustment Mode (05)	Setting Mode (08)	
Counter		[External counter] 202, 381, 683, 975, 1126, 8549 [Counter copy] 257 [Paper size] 305-0 to 16, 306-0 to 16, 307-0 to 16, 308-0 to 16, 312-0 to 16, 313-0 to 16, 314-0 to 16, 315-0 to 16, 316-0 to 16 [Large/Small size] 320-0 to 2, 321-0 to 2, 322-0 to 2, 323-0 to 2, 327-0 to 2, 328-0 to 2, 329-0 to 2, 332-0 to 2, 335-0 to 2 [Double count] 345, 346, 347, 348, 349, 352, 353 [Paper source] 356, 357, 358, 359, 360, 370, 372, 374 [HDD] 390, 391, 392, 393 [Fuser unit] 1372, 1378, 1380, 1382 [Toner cartridge] 1376, 1410 [Media type] 1385, 1386, 1387, 1388, 1411 [Number of output pages] 1530-0 to 7, 1533-0 to 7, 6815-0 to 7 [System firmware] 900, 920, 921, 922, 923.	
Version		[System firmware] 900, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 933, 934, 935, 936, 937, 938, 939, 944 [Engine firmware] 903, 905, 907, 908 [FAX] 915	
Maintenance		[PM counter] 251, 252 [Telephone] 250 [Error history] 253 [FSMS] 258, 999 [Service notification] 702, 703, 707, 715, 716, 717, 718, 719, 720, 721, 723, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 796 [HTTP] 726, 727, 728, 729, 730, 731 [Supply order] 732, 733, 734, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 758, 759, 760, 765, 794, 1145, 9739, 9880, 9881 [Firmware download] 797 [Emergency Mode] 710, 711 [Service call checking period] 1495 [Equipment information] 9960	

Classification	e-STUDIO202L/203L/232/233/282/283		
Classification	Adjustment Mode (05)	Setting Mode (08)	
General	[Equipment number] 976 [Toner recycle] 280	[Destination] 201, 701, 849 [Line] 203 [Private printing] 259 [Local I/F] 614 [Memory] 615 [Partition] 662, 666, 667 [Clear] 693 [Trial period] 673, 695, 798, 799 [Banner] 678, 679, 680, 681 [Database] 684, 685, 686 [HDD] 670, 690, 691, 694, 1422, 1424, 1426 [Control panel] 692 [Scrambler board] 696, 698, 699 [Data overwrite kit] 633 [Equipment number] 995 [Toner recycle] 838 [Machine identification information] 477 [Temperature/humidity] 839 [Initialization] 947 [Mode setting] 949 [Template] 1140, 3851 [NVRAM] 1427 [SRAM] 1428 [TAT partition] 1118 [Enhanced bold] 1149 [User data management] 1472, 1473, 1474, 1481, 1482, 1483 [Limitation] 1494, 9829 [e-Filing Access Mode] 1497 [Inbound FAX] 1498 [Card reader] 1772, 1773, 1774, 1775 [Administrator's password] 1778 [FAX reception] 1926 [File/Email] 1913, 1916 [Extension fileds] 1914 [KS/KSMM setting] 1961 [KS] 1960, 1963, 1964, 1965, 1966, 1967, 1968, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980 [KSSM] 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994 [Remote scanning] 3850, 9828 [Data encryption] 3834 [Data cloning] 9889 [Electronic licence key] 3840, 3841, 3842 [FAX function] 3847, 3848, 3849 [PJL] 3797 [Proof copy] 3635 [Counter / Job list printing] 9954 [Wide A4 Mode (PCL)] 8511	

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3. ADJUSTMENT

3.1 Adjustment of Auto-Toner Sensor

When the developer material is replaced, adjust the auto-toner sensor in the following procedure.

<Procedure> (Adjustment Mode (05-200))

(1) Install the process unit into the equipment.

Note:

Do not install the toner cartridge.

(2) While pressing [0] and [5] simultaneously, turn the power ON. The following message will be displayed.





(3) Key in code [200] and press the [START] button. The display changes as follows.



Fig. 3-2

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%	200	<u>A3</u>
TEST MODE		WAIT
128		128



(5) After a short time, the value B becomes stable and the display changes as follows.

, ─B		
240%	200	A3
ADJUSTME	NT MODE	
128		150
		Ĺ.



- (6) Check if the value B is within the range of 235 to 245 (the output voltage range of the auto-toner sensor is 2.35 V to 2.45 V).
- (7) If the value B is not within the range of 235 to 245, press the Up or Down button to adjust the value manually.

Note:

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 [ENTER] or [INTERRUPT] button. The drum, developer unit, etc. are stopped and the following is displayed.





- (9) Turn the power OFF.
- (10) Install the toner cartridge.

3.2 Image Dimensional Adjustment

3.2.1 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 a	at the registration roller	448, 449, 450, 452, 455, 457, 458, 460, 461, 462, 463, 469, 470, 471, 472, 473, 474
2	Printer related adjustment	 (a) Reproduction ratio of primary scanning direction (Fine adjustment of polygonal motor rotation speed) 	401
		(b) Primary scanning data laser writing start position	411
		 (c) Reproduction ratio of secondary scanning direction (Fine adjustment of main motor rotation speed) 	421
		(d) Secondary scanning data laser writing start posi- tion	441, 440, 444, 443, 442, 445
		(e) Primary scanning data laser writing start position at duplexing	498
3	Scanner related adjustment	(a) Image distortion	_
		(b) Reproduction ratio of primary scanning direction	405
		(c) Image location of primary scanning direction	306
		(d) Reproduction ratio of secondary scanning direc- tion	340
		(e) Image location of secondary scanning direction	305
		(f) Top margin	430
		(g) Right margin	432
		(h) Bottom margin	433

[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).



Fig. 3-6
3.2.2 Paper alignment at the registration roller

Paper type	Weight	Upper drawer	Lower drawer	PFP upper drawer	PFP lower drawer	LCF	ADU	Bypass feed
Plain paper	64-80 g/m ² 17-20 lb.	450 (*1)	452 (*1)	448 (*1)	449 (*1)	457	455 (*1)	458 (*1)
Thick paper 1	81-105g/m ² 21-28 lb.	469 (*1)	470 (*1)	471 (*1)	472 (*1)	473	474 (*1)	460 (*1)
Thick paper 2	106-163g/m ² 29-43 lb.	-	-	-	-	-	-	461 (*1)
Thick paper 3	164-209g/m ² 44-55 lb.	-	-	-	-	-	-	462 (*2)
OHP	-	-	-	-	-	-	-	463 (*3)

The aligning amount is adjusted by using the following codes in Adjustment Mode (05).

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:

- 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)
- Short Size. 219 min of Shorter (6.0 miches of 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 Mylar sheet as it is transported by the registration roller. If this scraping noise is annoying, try to decrease the value.





(3) Perform the same procedure for all paper sources.

Note:

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.

3

3.2.3 Printer related adjustment

[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. \rightarrow (Adjustment Mode)
- (2) Press [1] → [FAX]. (A grid pattern with 10 mm squares is printed out. Use A3/LD from standard drawer of the equipment (Refer to *).
 - * Perform 08-477 and check the value. If the value is 0, use the lower drawer. If the value is 1, use the upper drawer.
- (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) \rightarrow (Key in code [401]) \rightarrow [START]

- \rightarrow (Key in a value (acceptable values: 0 to 255))
- → [ENTER] or [INTERRUPT] (Stored in memory)
- → "100% A" is displayed
- \rightarrow Press [1] \rightarrow [FAX] \rightarrow (A grid pattern is printed out.)
- * The larger the adjustment value is, the longer the distance A becomes (approx. 0.125 mm/ step).

[B] Primary scanning data laser writing start position (Printer) <Procedure>

- (1) While pressing [0] and [5] simultaneously, turn the power ON. \rightarrow (Adjustment Mode)
- (2) Press [1] → [FAX]. (A grid pattern with 10 mm squares is printed out. Use A3/LD from standard drawer of the equipment (Refer to *).
 - * Perform 08-477 and check the value. If the value is 0, use the lower drawer. If the value is 1, use the upper drawer.
- (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) \rightarrow (Key in the code [411]) \rightarrow [START]

- \rightarrow (Key in a value (acceptable values: 0 to 255))
- → [ENTER] or [INTERRUPT] (Stored in memory)
- → "100% A" is displayed
- \rightarrow Press [1] \rightarrow [FAX] \rightarrow (A grid pattern is printed out.)
- The larger the adjustment value is, the longer the distance B becomes (approx. 0.05 mm/ step).

(6) After the adjustment for the code 411 is completed, apply the same adjustment value for the code 410.

(Adjustment Mode) → (Key in the code [410]) → [START] → (Key in the same value in the step 5 above) → Press [ENTER] or [INTERRUPT] (Stored in memory).

Note:

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. \rightarrow (Adjustment mode)
- (2) Press [1] → [FAX]. (A grid pattern with 10 mm squares is printed out. Use A3/LD from standard drawer of the equipment (Refer to *).
 - * Perform 08-477 and check the value. If the value is 0, use the lower drawer. If the value is 1, use the upper drawer.
- (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) \rightarrow (Key in code [421]) \rightarrow [START]

- \rightarrow (Key in a value (acceptable values: 0 to 255))
- → [ENTER] or [INTERRUPT] (Stored in memory)
- \rightarrow "100% A" is displayed
- \rightarrow Press [1] \rightarrow [FAX] \rightarrow (A grid pattern is printed out.)
- * The larger the adjustment value is, the longer the distance C becomes (approx. 0.125 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.

Perform 08-477 and check the value.

Order for adjustment	Paper source	Code	Paper size	Acceptable value	Remarks
1	Lower drawer	441	A3/LD	0 to 40	
2	Upper drawer	440	A4/LT	0 to 15	
3	PFP or LCF	444/443	A4/LT	0 to 15	
4	Bypass feed	442	A4/LT	0 to 15	
5	Duplexing	445	A3/LD	0 to 15	Paper fed from the lower drawer

When the value is 0.

When the value is 1.

Order for adjustment	Paper source	Code	Paper size	Acceptable value	Remarks
1	Upper drawer	440	A3/LD	0 to 40	
2	Lower drawer	441	A4/LT	0 to 40	
3	PFP or LCF	444/443	A4/LT	0 to 15	
4	Bypass feed	442	A4/LT	0 to 15	
5	Duplexing	445	A3/LD	0 to 15	Paper fed from the upper drawer

<Procedure>

- (1) While pressing [0] and [5] simultaneously, turn the power ON. \rightarrow (Adjustment Mode)
- (2) Press [1] ([3] for duplexing) \rightarrow [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) \rightarrow (Key in the code shown above) \rightarrow [START]

- \rightarrow (Key in an acceptable value shown above)
- → [ENTER] or [INTERRUPT] (Stored in memory)
- \rightarrow "100% A" is displayed
- \rightarrow Press [1] ([3] for duplexing) \rightarrow [FAX] \rightarrow (A grid pattern is printed out.)
- * The larger the adjustment value is, the longer the distance D becomes (approx. 0.4 mm/step).

[E] Primary scanning data laser writing start position at duplexing

Note:

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. \rightarrow (Adjustment Mode)
- (2) Press [3] → [FAX]. (A grid pattern with 10 mm squares is printed out. Use A3/LD from standard drawer of the equipment (Refer to *).
 - * Perform 08-477 and check the value. If the value is 0, use the lower drawer. If the value is 1, use 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.

 $(\text{Adjustment Mode}) \rightarrow (\text{Key in code [498]}) \rightarrow [\text{START}] \rightarrow [0] \rightarrow [\text{START}]$

- \rightarrow (Key in a value (acceptable values: 0 to 255))
- → [ENTER] or [INTERRUPT] (Stored in memory)
- \rightarrow "100% A" is displayed.
- \rightarrow Press [3] \rightarrow [FAX] \rightarrow (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. \rightarrow (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.

 $(Adjustment Mode) \rightarrow (Key in the code [498]) \rightarrow [START] \rightarrow [1] \rightarrow [START]$

- \rightarrow (Key in a value (acceptable values: 0 to 255))
- \rightarrow [ENTER] or [INTERRUPT] (Stored in memory).
- \rightarrow "100% A" is displayed
- \rightarrow Press [3] \rightarrow [FAX] \rightarrow (A grid pattern is printed out.)
- * The larger the adjustment value is, the longer the distance E becomes (approx. 0.05 mm/ step).



A: 05-401 (Lower drawer, A3/LD) → 200±0.5 mm (0.125 mm/step) B: 05-411 (Lower drawer, A3/LD) → 52±0.5 mm (0.05 mm/step) \rightarrow Key in the same value for 05-410. C: 05-421 (Lower drawer, A3/LD) → 200±0.5 mm (0.125 mm/step) D: 05-441 (Lower drawer, A3/LD), 440 (Upper drawer, A4/LT), 444 (PFP, A4/LT), 443 (LCF, A4/LT), 442 (Bypass feed, A4/LT), 445 (Duplexing, A3/LD) \rightarrow 52±0.5 mm(0.4 mm/step) E: 05-498-0 (Lower drawer, A3/LD), \rightarrow 52±0.5 mm (0.05 mm/step) 498-1 (Upper drawer, A4/LT)

3

When the value is 1.

[0] [5] [Power ON	$1 \rightarrow 11$ (13)(05-445.	498) for duplexing) \rightarrow [FAX]
	·] · [·] ([•](••• · ·••,	

A:	05-401 (Upper drawer, A3/LD)	→ 200±0.5 mm (0.125 mm/step)
B:	05-411 (Upper drawer, A3/LD)	→ 52±0.5 mm (0.05 mm/step)

- \rightarrow Key in the same value for 05-410.
- C: 05-421 (Upper drawer, A3/LD) \rightarrow 200±0.5 mm (0.125 mm/step)
- D: 05-440 (Upper drawer, A3/LD), 441 (Lower drawer, A4/LT), 444 (PFP, A4/LT), 443 (LCF, A4/LT), 442 (Bypass feed, A4/LT), 445 (Duplexing, A3/LD)

 \rightarrow 52±0.5 mm(0.4 mm/step)

E: 05-498-0 (Upper drawer, A3/LD), → 52±0.5 mm (0.05 mm/step) 498-1 (Upper drawer, A4/LT))

Remark:

When the adjustment (05-421) is performed, the same adjustment for FAX (05-422) is automatically and consecutively performed.

3.2.4 Scanner related adjustment

[A] Image distortion



Fig. 3-9

<Procedure>

- (1) While pressing [0] and [5] simultaneously, turn the power ON.
- (2) Press [FAX] to make a copy of any image on a sheet of A3/LD paper.
- (3) Key in [308] 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







Fig. 3-11

3

[B] Reproduction ratio adjustment of the primary scanning direction <Procedure>

- (1) While pressing [0] and [5] simultaneously, turn the power $ON \rightarrow (Adjustment Mode)$
- (2) Place a ruler on the original glass (along the direction from the rear to the front of the equipment).
- (3) Press [FAX] to make a copy at the mode of A3 (LD), 100% and standard drawer of the equipment (Refer to *).
 - Perform 08-477 and check the value. If the value is 0, use the lower drawer. If the value is 1, use the upper drawer.
- (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) \rightarrow (Key in the code [405]) \rightarrow [START]
 - \rightarrow (Key in a value (acceptable values: 0 to 255))
 - \rightarrow Press the [ENTER] or the [INTERRUPT] button (stored in memory).
 - \rightarrow ("100% A" is displayed.)
 - The larger the adjustment value is, the higher the reproduction ratio and the longer the distance A become (approx. 0.125 mm/step).





e-STUDIO200L/202L/203L/230/230L/232/233/280/282/283 ADJUSTMENT

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[C] Image position adjustment of the primary scanning direction <Procedure>

- (1) While pressing [0] and [5] simultaneously, turn the power ON. \rightarrow (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] to make a copy at the mode of A3 (LD), 100% and standard drawer of the equipment (Refer to *).
 - Perform 08-477 and check the value.If the value is 0, use the lower drawer.If the value is 1, use the upper drawer.
- (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) \rightarrow (Key in the code [306]) \rightarrow [START]

- \rightarrow (Key in a value (acceptable values: 0 to 255))
- → Press the [ENTER] or the [INTERRUPT] button (stored in memory).
- \rightarrow ("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 (0.085 mm/step).



Fig. 3-13

[D] Reproduction ratio adjustment of the secondary scanning direction <Procedure>

- (1) While pressing [0] and [5] simultaneously, turn the power ON. \rightarrow (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] to make a copy at the mode of A3 (LD), 100% and standard drawer of the equipment (Refer to *).
 - Perform 08-477 and check the value. If the value is 0, use the lower drawer. If the value is 1, use the upper drawer.
- (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) \rightarrow (Key in the code [340]) \rightarrow [START]

- \rightarrow (Key in a value (acceptable values: 0 to 255))
- → Press the [ENTER] or the [INTERRUPT] button (stored in memory).
- \rightarrow ("100% A" is displayed.)
- * The smaller the adjustment value is, the lower the reproduction ratio becomes (0.45 mm/ step).



Copied image of the ruler



[E] Image position adjustment of the secondary scanning direction <Procedure>

- (1) While pressing [0] and [5] simultaneously, turn the power ON. \rightarrow (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] to make a copy at the mode of A3 (LD), 100% and standard drawer of the equipment (Refer to *).
 - Perform 08-477 and check the value.If the value is 0, use the lower drawer.If the value is 1, use the upper drawer.
- (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) \rightarrow (Key in the code [305]) \rightarrow [START]

- \rightarrow (Key in a value (acceptable values: 0 to 255))
- \rightarrow Press the [ENTER] or the [INTERRUPT] button (stored in memory).
- \rightarrow ("100% A" is displayed.)
- * The larger the adjustment value is, the more the image is shifted to the trailing edge (0.14 mm/step).



Fig. 3-15

[F] Top margin

<Procedure>

- (1) While pressing [0] and [5] simultaneously, turn the power ON. \rightarrow (Adjustment Mode)
- (2) Open the platen cover or RADF.
- (3) Press [FAX] to make a copy at the mode of A3/LD, 100%, Text/Photo and standard drawer of the equipment (Refer to *).
 - * Perform 08-477 and check the value. If the value is 0, use the lower drawer. If the value is 1, use the upper drawer.
- (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) \rightarrow (Key in the code [430]) \rightarrow [START]

- \rightarrow (Key in a value (acceptable values: 0 to 255))
- \rightarrow Press the [ENTER] or the [INTERRUPT] button (stored in memory).
- \rightarrow ("100% A" is displayed.)
- * The larger the adjustment value is, the wider the blank area becomes (approx. 0.04 mm/ step).



Fig. 3-16

[G] Right margin

<Procedure>

- (1) While pressing [0] and [5] simultaneously, turn the power ON. \rightarrow (Adjustment Mode)
- (2) Open platen cover or RADF.
- (3) Press [FAX] to make a copy at the mode of A3/LD, 100%, Text/Photo and standard drawer of the equipment (Refer to *).
 - * Perform 08-477 and check the value. If the value is 0, use the lower drawer. If the value is 1, use the upper drawer.
- (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) \rightarrow (Key in the code [432]) \rightarrow [START]

- \rightarrow (Key in a value (acceptable values: 0 to 255))
- \rightarrow Press the [ENTER] or the [INTERRUPT] button (stored in memory).
- \rightarrow ("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).



Fig. 3-17

3

[H] Bottom margin

<Procedure>

- (1) While pressing [0] and [5] simultaneously, turn the power ON. \rightarrow (Adjustment Mode)
- (2) Open platen cover or RADF.
- (3) Press the [FAX] to make a copy at the mode of A3/LD, 100%, Text/Photo and standard drawer of the equipment (Refer to *).
 - * Perform 08-477 and check the value. If the value is 0, use the lower drawer. If the value is 1, use the upper drawer.
- (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) \rightarrow (Key in the code [433]) \rightarrow [START]

- \rightarrow (Key in value (acceptable values: 0 to 255))
- \rightarrow Press the [ENTER] or the [INTERRUPT] button (stored in memory).
- \rightarrow ("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).



Fig. 3-18

3.3 Image Quality Adjustment (Copying Function)

3.3.1 Density adjustment

The center density and the density variation controlled by density adjustment keys can be adjusted as follows.

< Adjustment Mode ((05)	>
---------------------	------	---

Original mode			Itom to be adjusted	Bomorko	
Text/Photo	Photo	Text	item to be adjusted	Remarks	
503	501	504	Manual density mode center value	The larger the value is, the darker the image becomes.	
(931)	(933)	(932)		Acceptable values: 0 to 255	
505	506	507	Manual density mode light step value	The larger the value is, the lighter the light side becomes.	
(934)	(936)	(935)		Acceptable values: 0 to 255	
508	509	510	Manual density mode dark step value	The larger the value is, the darker the dark side becomes.	
(937)	(939)	(938)		Acceptable values: 0 to 255	
514	512	515	Automatic density mode	The larger the value is, the darker the image becomes.	
(940)	(942)	(941)		Acceptable values: 0 to 255	

* 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.

<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 [ENTER] or [INTERRUPT] button to store the value. → The equipment goes back to the ready state.
- (5) Let the equipment restarted and perform copying job.
- (6) If the desired image density has not been attained, repeat step (2) to (5).

3.3.2 Gamma slope adjustment

Gamma slope is adjustable with the following codes.

< Adjustment Mode (05) >

Original mode				Demerike	
Text/Photo	Photo	Text	- item to be adjusted	Remarks	
593 (943)	594 (945)	595 (944)	Gamma slope adjustment	One's place: 0: equivalent to the set value 5 1 to 9: Select the gamma slope angle. (The larger the value is, the larger the angle becomes.) Ten's place: 0: equivalent to the set value 5 1 to 9: Select the gamma slope angle of the low density area. (The smaller the value is, the darker the background becomes.) 00: Use default value	

* The values in "()" are the adjustment codes of the Custom Mode.

<Procedure>

Procedure is same as that of P.3-21 "3.3.1 Density adjustment".

3.3.3 Sharpness adjustment

Original mode		Item to be adjusted	Bemerke	
Text/Photo	Photo	Text		Remarks
620 (922)	621 (924)	622 (923)	Sharpness adjustment	Key in the following values depend- ing on the original mode. One's place 1: Text/Photo 2: Photo 5: Text Ten's place 0: Use Default value 1 to 9: Change intensity (The larger the value is, the sharper the image becomes.) • Example of value entry in case the mode is "Text/Photo". 2 2 2 1 Fixed value for Text/ Photo mode Key in a value 0 to 9 Note: When the value "0" is keyed in at the ten's digit, the value is not displayed on LCD screen.

If you want to make copy images look softer or sharper, perform the following adjustment. < Adjustment Mode (05) >

* 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.

<Procedure>

3.3.4 Setting range correction

The values of the background peak / text 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 and the values of the text peak affect that of the text density.

<	Adiu	ustm	nent	Mode	(05)	>

Original mode		literre te les adjusted	Bemerke		
Text/Photo	Photo	Text	litem to be adjusted	Remarks	
570 (913)	571 (915)	572 (914)	Range correction for original manually set on the original glass	The following are the default values set for each original mode. Text/Photo: 12, Photo: 12, Text: 22	
693 (916)	694 (918)	695 (917)	Range correction for original set on the RADF	 Each digit stands for: One's place: Automatic density mode Ten's place: Manual density mode The setting conditions possible are as follows: Background peak Text peak 1: fixed fixed fixed 2: varied fixed varied 	

* 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.

<Procedure>

Procedure is same as that of Density adjustment".

3.3.5 Setting range correction (Adjustment of background peak)

The levels of the background peak for the range correction can be set at the following codes. < Adjustment Mode (05) >

Original mode			Itom to be adjusted	Bomorko
Text/Photo	Photo	Text		Rellidiks
532 (919)	533 (921)	534 (920)	Background peak for range correction	When the value increases, the back- ground (low density area) of the image is not output. Acceptable values: 0 to 255 (Default: Text/Photo: 40, Photo: 16, Text: 64)

* 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.

<Procedure>

3.3.6 Adjustment of smudged/faint text

The smudged/faint text can be set at the following codes.

< Adjustment Mode (05) >

Original mode	Itom to be adjusted	Bamarka		
Text/Photo	item to be adjusted	Remarks		
653 (928)	Adjustment of smudged/faint spotted text	When the value increases, the faint text is improved. When the value decreases, the smudged text is improved. Acceptable values: 0 to 255 (Default: 192)		
		Note: 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.		

< e-STUDIO 200L/230/230L/280 >

< e-STUDIO 202L/203L/232/233/282/283 >

Original mode	Item to be adjusted	Pomarks	
Text/Photo	item to be adjusted	i venial ka	
648 (928)	Adjustment of smudged/faint spotted text	When the value increases, the faint text is improved. When the value decreases, the smudged text is improved. Acceptable values: 0 to 4 (Default: 2) Note: 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	

* 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.

<Procedure>

3.3.7 Adjustment of image density

The image density level can be set at the following codes.

Code	Item to be adjusted	Remarks
667-0 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 667-0, 667-1, 667-2, 667-3, and 667-4 is assumed to be "A", "B", "C", "D", and "E" respectively, they should have the following correlation:
		ASBSCSDSE
		 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 "667" 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 [ENTER] 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).

< Adjustment Mode (05) >

3.4 Image Quality Adjustment (Printing Function)

3.4.1 Adjustment of smudged/faint text

The smudged/faint text can be set at the following codes.

		< Adjustment Mode (05) >	
Language		Remarks	
PS	PCL	rellidiks	
654	655	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 [ENTER] 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).

3.4.2 Adjustment of image density

The image density level is adjustable both at standard and toner saving modes. < Adjustment Mode (05) >

Toner mode Standard Toner saving		Item to be adjusted	Bemerke
		item to be adjusted	Remarks
672-0 to 4	676-0 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 672-0, 672-1, 672-2, 672-3, and 672-4 is assumed to be "A", "B", "C", "D", and "E" respectively, they should have the following correlation:
			 A ≤ B ≤ C ≤ D ≤ 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 [ENTER] 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).

3.4.3 Gamma balance adjustment < e-STUDIO 202L/203L/232/233/282/283 >

The gamma balance is adjusted by adjusting the density at the Black Mode. 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						
Smooth (PS)	h Detail Smooth Deta (PS) (PCL) (PCL		Detail (PCL)	Item to be adjusted	Remarks	
596-0	597-0	598-0	599-0	Low density	The larger the value is, the	
596-1	597-1	598-1	599-1	Medium density	adjusted becomes darker.	
596-2	597-2	598-2	599-2	High density	Acceptable values: 0 to 255. (Default: 128)	

3.5 Image Quality Adjustment (Scanning Function)

3.5.1 Density adjustment

Adjusts the center density and the variation of density adjustment button.

-	-			< Adjustment Mode (05) >	
(Original mode)	Itom to be adjusted	Pomorko	
Text/Photo	Photo	Text	nem to be adjusted	Neilld185	
845	847	846	Manual density mode center value	The larger the value is, the darker the image becomes. Acceptable values: 0 to 255	
850	852	851	Manual density mode light step value	The larger the value is, the lighter the light side becomes. Acceptable values: 0 to 255	
855	857	856	Manual density mode dark step value	The larger the value is, the darker the dark side becomes. Acceptable values: 0 to 255	
860	862	861	Automatic density mode	The larger the value is, the darker the image becomes. Acceptable values: 0 to 255	

<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 [ENTER] 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 scanning job.
- (6) If the desired image density has not been attained, repeat step (2) to (5).

3.5.2 Sharpness adjustment

If you want to make scan images look softer or sharper, perform the following adjustment. < Adjustment Mode (05) >

Original mode		litere te he ediusted	Bemerke		
Text/Photo	ext/Photo Photo Text		item to be adjusted	Remarks	
865-0	867-0	866-0	Reproduction ratio: 25% to 40%	Key in the following values depend- ing on the original mode.	
865-1	867-1	866-1	Reproduction ratio: 41% to 80%	1: Text/Photo 5: Photo 2: Text Ten's place	
865-2	867-2	866-2	Reproduction ratio: 81% to 400%	 0: Use Default value 1 to 9: Change intensity The larger the value is, the sharper the image becomes.) Example of value entry in case the mode is "Text/Photo". 2 1 Fixed value for Text/ Photo mode Key in a value 0 to 9 	
				Note: When the value "0" is keyed in at the ten's digit, the value is not displayed on LCD screen.	

<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 or 2), and press the [START] button.
- (4) Key in an adjustment value.(To correct the keyed-in value, press the [CLEAR] button.)
- (5) Press the [ENTER] 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 scanning job.
- (8) If the desired image density has not been attained, repeat step (2) to (7).

3.5.3 Setting range correction

The values of the background peak / text 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 and the values of the text peak affect that of the text density.

				/	
Original mode			ltem to be adjusted	Remarks	
Text/Photo	Photo	Text	·····		
825	827 826 Range correction f manually set on th glass		Range correction for original manually set on the original glass	The following are the default values set for each original mode. Text/Photo: 12, Photo: 12, Text: 12	
830	832	831	Range correction for original set on the RADF	Che's place: Automatic density mode Ten's place: Manual density mode The setting conditions possible are as follows: Background peak Text peak 1: fixed fixed 2: varied fixed 3: fixed varied 4: varied varied	

< Adjustment Mode (05) >

<Procedure>

3.5.4 Setting range correction (Adjustment of background peak)

The levels of the background peak for the range correction can be set at the following codes. < Adjustment Mode (05) >

Original mode			Itom to be adjusted	Remarks	
Text/Photo Photo Text		item to be adjusted			
835	837	836	Background peak for range correction	When the value increases, the back- ground (low density area) of the image is not output. Acceptable values: 0 to 255 (Default: text/photo: 48, photo: 40, text: 48)	

<Procedure>

Procedure is same as that of D P.3-30 "3.5.1 Density adjustment".

3.5.5 Setting range correction (Adjustment of text peak)

The levels of the text peak for the range correction can be set at the following codes. < Adjustment Mode (05) >

(Original mode)	Item to be adjusted	Demerike	
Text/Photo Photo Text		item to be adjusted	Reliains		
820	822	821	Text peak for range correction	When the value is increased, text (high image density part) becomes lighter. Acceptable values: 0 to 255 (Default: text/photo: 224, photo: 239, text: 224)	

* The image changes slightly in text mode because it is treated as a simple binary format image.

<Procedure>

Procedure is same as that of D P.3-30 "3.5.1 Density adjustment".

3

3.6 Adjustment of High-Voltage Transformer

When replacing the high-voltage transformer, checking each output adjustment of main charger, developer bias, transfer charger and separation charger is needed.

3.6.1 Adjustment

[1] Preparation

lte	ems to check	Developer Bias	Main Charger	Transfer Charger	Separation Charger		
Process	Unit	Tak	e off from the equipment	. (Not used)			
High-Volt	age Transformer Jig	Install the high-voltage transformer jig in the equipment. Note: Connect the green cable of the high-voltage transformer jig to ground on the equipment frame. Refer to P.3-35 "[A] Installation of the high-volt- age transformer jig".					
Digital Tester	(+) terminal	Connect with the black cable of the high-volt- age transformer jig.	Connect with the red cable (thick line) of the high-voltage trans- former jig.	Connect with the red cable (thin line) of the high-voltage transformer jig.			
	(–) terminal	Connect with the white cable of the high-voltage transformer jig.					
	Function switch		DC				
	Full-scale (range)	100	2	V			
	Remarks	Use a digital tester with an input resistance of 10 M Ω (RMS value) or higher.					
How to tu	Irn ON the power	Attach the door switch jig and start with the adjustment mode [05] while the front cover opened. Then press the front cover opening/closing switch.					
Note		Refer to Imp.3-37 "[B] Connection for devel- oper bias adjustment".Refer to Imp.3-37 "[C] Connection for main charger adjustment".Refer to Imp.3-38 "[D] Connection for transfer/separ charger adjustment".			-38 "[D] Con- sfer/separation nent".		

- [A] Installation of the high-voltage transformer jig
 - (1) Open the bypass tray, ADU and transfer cover.
 - (2) Open the front cover and take off the toner cartridge.
 - (3) Disconnect 1 connector. Loosen 2 screws and pull out the process unit.

Note:

Be careful not to let the connector and the harness be caught when installing the process unit after adjustment.



Fig. 3-19

(4) Install the high-voltage transformer jig and fix it with 2 screws.

Note:

Be careful not to let the connector and the harness be caught.



Fig. 3-20

(5) Fix the green cable of the high-voltage transformer jig to the frame of the equipment.



Fig. 3-21

e-STUDIO200L/202L/203L/230/230L/232/233/280/282/283 ADJUSTMENT

- (6) Install the door switch jig.
- (7) Close the transfer cover.



Fig. 3-22

[B] Connection for developer bias adjustment



Fig. 3-23

[C] Connection for main charger adjustment



Fig. 3-24

[D] Connection for transfer/separation charger adjustment



Fig. 3-25

[2] Operation

Note:

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.



Code	220	221	222
Adjustment value	1326±141mV	1407±141mV	1005±106mV
	Separation charger		
	Leading edge area of paper	Center area of paper	Trailing edge area of paper
Code	233	234	235
Adjustment value	-566±72mV	-566±72mV	-391±36mV

[SET]: Adjusted value "YYY" is stored in memory.



[POWER] : OFF/ON



3

3.6.2 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 charger.

- Is the charger wire incorrectly installed or dirty? 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?
- Are the transfer/separation charger case grounded? Is the high-voltage transformer grounded?

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.

- Transfer is poor even though the charger wire is not dirty.
- Thick paper has been frequently used.

The adjustment code varies according to where blotched image and poor transfer occur. Select the required adjustment code while referring to the following diagram.



Fig. 3-27
[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.

- Is the charger wire incorrectly installed or dirty?
- 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 transfer/separation charger case grounded? Is the high-voltage transformer grounded?
- 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. Remember that if the separation output value is increased too much, blotched image occurs and separation performance becomes low.

- · Poor separation occurs even though the charger wire 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.

The adjustment code varies according to where poor paper separation and poor transfer occur. Select the required adjustment code while referring to the following diagram.

r Ia	Approx. 11mm	Approx. 35mm		Approx. 48mm	1
Adjustment code Leading edge ← - area of paper	"233"	"235"	"234"	"235"	→Trailing edge area of paper



* Adjustment code 235 performs the adjustment for 2 areas.

3.7 Adjustment of the Scanner Section

3.7.1 Carriages

[A] Installing carriage wires

When replacing the carriage wires, refer illustrations below:

[Front side]





Adjustment of the carriage wire tension is not necessary since a certain tension is applied to the carriage wires by the tension springs.

Note:

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. 3-31

3

(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.

Note:

Make sure that the sections A and B of the carriage-2 touch with the exit side frame.



Fig. 3-32

[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:
 - 2 turns toward the opposite side of the boss
 - 4 turns toward the boss side

Note:

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. 3-33

(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.



Fig. 3-34

3.7.2 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 4 screws indicated with the arrows.





• Handle the unit with care. Do not hold the lens and adjusted part (hold the unit as shown below).



Fig. 3-36

[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/LTsized paper at 100% reproduction ratio.
- (2) Compare the copied ruler with the actual ruler.





(3) If each mark on the rulers differs, perform the adjustment with the following procedures.

<Procedure>

- (1) Take off the original glass and lens cover.
- (2) Loosen 2 screws fixing the lens unit.



Fig. 3-38

(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



Fig. 3-39

Note:

Fine adjustment can be made in the "Reproduction ratio of primary scanning direction (printer)". on the copied ruler and actual ruler match.

- (4) Tighten 2 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.

3.8 Adjustment of the Paper Feeding System

3.8.1 Sheet sideways deviation caused by paper feeding

<Procedure>

The center of the printed image shifts to the front side. \rightarrow 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. \rightarrow Move the guide to the rear side (Arrow (B) direction in the lower figure).





Fig. 3-41

Bypass feeding

- 1) Loosen the screen.
- 2) Move the entire guide to the front or rear side.
- 3) Tighten the screw.

- Drawer feeding
- 1) Loosen 2 screws.
- 2) Move the entire guide to the front or rear side.
- 3) Tighten the screws.



Fig. 3-42



3.9 Adjustment of Developer Unit

3.9.1 Doctor-to-sleeve gap

Adjustment tool to use: Doctor-sleeve jig <Procedure>

- (1) Perform the adjustment code "05-280".
- (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.

Note:

Discharge the developer material from the rear side, being careful not to let it be scattered on the gear.





(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)



Fig. 3-45

e-STUDIO200L/202L/203L/230/230L/232/233/280/282/283 ADJUSTMENT 3

(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.



(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.

Fig. 3-46



Fig. 3-47

(8) Confirm that the side seals are attached on the toner scattering prevention sheet.



Fig. 3-48

(9) Attach the developer material cover and tighten 2 screws.

Note:

After the developer material has been replaced, adjust the auto-toner sensor. (See III P.3-1 "3.1 Adjustment of Auto-Toner Sensor".)



Fig. 3-49

3.10 Adjustment of the RADF (MR-3016)

3.10.1 Adjustment of RADF position

It is mainly performed at the installation. It is also required when the RADF is dislocated for some reason such as moving the equipment.

Remove the platen sheet during adjustment. <Procedure>

 (1) Open the RADF and then attach 2 positioning pins to the equipment.
 (The positioning pins have been attached at the rear of the right-hand hinge of the RADF.)





(2) Close the RADF to check that the positioning pins fit smoothly into the holes on the RADF. If they do not, adjust them according to the following procedure.





Half turn 1 turn



e-STUDIO200L/202L/203L/230/230L/232/233/280/282/283 ADJUSTMENT

(3) Loosen the stepped screw 1 turn and 2

(status of temporary fixing).

screws on the adjustment plate a half turn

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(4) Remove the stepped screw at the rear of right-hand hinge.





(5) Open the RADF, and then loosen 2 hand screws 1 turn (status of tentative fixing).





(6) Remove the positioning pin at the front side. Close the RADF to fit the positioning pin into the hole at the rear side of the RADF. While peering inside from the front side, fit the positions of the pin and hole by moving the RADF right and left.



Fig. 3-55

e-STUDIO200L/202L/203L/230/230L/232/233/280/282/283 ADJUSTMENT 3

(7) Tighten the positioning pin at the front side. Close the RADF to fit the positioning pin into the hole at the front side of the RADF. (For the front side, adjust the RADF position all around.)





(8) While peering inside from the left side, close the RADF. Check the positions of the holes of the RADF and pins and then fit their positions by moving the RADF back and forth. (For the front side, also adjust the RADF position right and left.) Make sure not to dislocate the positions of the pin and hole at the rear side.



Fig. 3-57

(9) Open the RADF to tighten 2 hand screws. Close the RADF and then check again that the positioning pins fit smoothly into the holes on the RADF.



Fig. 3-58

(10) Match the rear hole of the right-hand hinge and the hole of the equipment side to tighten the stepped screw. If they do not fit, adjust the position of the hole by turning the screw of the adjustment plate.





(11) Tighten the stepped screw and 2 screws on the adjustment plate.
Open and close the BADE to check again

Open and close the RADF to check again that the positioning pins fit smoothly into the holes on the RADF. Remove the positioning pins after checking it.

(Replace the positioning pins at the rear of the right-hand hinge of the RADF.)

J





(12) Place the platen sheet on the original glass with the semi round cutout toward you. Align the platen sheet against the left and rear side of the original glass. Close the RADF slowly. Open the RADF to check that the platen sheet is correctly attached.





3 - 57

3.10.2 Adjustment of RADF height

It is mainly performed at the installation. It is also required when the RADF is dislocated for some reason such as moving the equipment.

Perform the following adjustment by using the screw of the left and right hinge.

Note:

Perform this adjustment after "3.10.1 Adjustment of RADF position". Turn the exposure lamp ON during the gap check. (Test Mode: 03-267)

<Procedure>

(1) Adjustment standard:

Adjust the height so that the platen guide front holder touches the ADF original glass. Adjust the height so that the gap between the platen guide rear holder and the ADF original glass becomes $0.5 \text{ mm} \pm 0.3$.



Fig. 3-62

 (2) Adjust the height by turning the height adjusting screw on the right hinge.
 CW: The height of the hinge becomes high.
 CCW: The height of the hinge becomes low.



Fig. 3-63

 (3) Adjust the height by turning the height adjusting screw on the left hinge.
 CW: The height of the hinge becomes high.
 CCW: The height of the hinge becomes low.



Fig. 3-64

3.10.3 Adjustment of skew

When an image skew occurs, adjust it according to the following steps, Step 1 \rightarrow Step 2 \rightarrow Step 3.

Note:

Perform this adjustment after confirming that the equipment has been adjusted properly. Prior to this adjustment, of RADF position and height are needed to be adjusted.

(1) Step 1

Case A:

Adjust the aligning adjustment position to the rear side "-" of the original (\square P.3-63 "3.10.5 Adjustment of aligning").

Case B:

Adjust the aligning adjustment position to the rear side "+" of the original (\square P.3-63 "3.10.5 Adjustment of aligning").



Fig. 3-65

(2) Step 2

Case C:

Loosen the fixing screw and hand screw of the right side hinge and then turn the adjustment screw counterclockwise.

Case D:

Loosen the fixing screw and hand screw of the right side hinge and then turn the adjustment screw clockwise.

Note:

When adjusting, refer to the hinge position (scribed line) and be sure not to move it from the hinge position ± 0.5 mm or further. Otherwise, image failures such as a jitter may occur.







(3) Step 3

Case E:

Adjust the reverse aligning adjustment position to the rear side "-" of the original (\square P.3-64 "3.10.6 Adjustment of aligning at reversing").

Case F:

Adjust the reverse aligning adjustment position to the rear side "+" of the original (P.3-64 "3.10.6 Adjustment of aligning at reversing").



Fig. 3-68

3.10.4 Automatic adjustment of sensors and initialization of EEPROM

When any of the PC board, original length sensor, read sensor, reverse sensor is replaced with a new one, make sure to perform the initialization of EEPROM and adjustment of sensors in the Adjustment Mode (05).

Perform them after removing all originals on the sensor and closing the RADF.

Also, make sure to adjust the tray volume when the initialization of EEPROM and automatic sensor adjustment have been performed.

Refer to P.2-44 "2.2.5 Adjustment mode (05) (e-STUDIO200L/230/230L/280)" for the details. Errors such as paper jamming may occur if the EEPROM is not initialized and the sensors are not adjusted after the above mentioned parts were replaced.

3.10.5 Adjustment of aligning

Adjust the aligning according to Step 1 of 3.10.3.



Fig. 3-69

3.10.6 Adjustment of aligning at reversing

Adjust the aligning according to Step 3 of 3.10.3.



Fig. 3-70

3.10.7 Adjustment of reverse solenoid

When operating the reverse solenoid, adjust it if the position of the flapper lever is out of the following dimension.

Gap between A of the front frame and the flapper lever "C": 0.5 mm to 2.0 mm

<Procedure>

(1) Remove the screw on the left and take off the plate spring.



Fig. 3-71

(2) Align B of the front frame with the edge of the reverse solenoid, and temporarily fix the reverse solenoid with the screw on the right.



(3) While the plunger of the reverse solenoid is put in the position to be turned ON (by pressing it in the direction of an arrow), loosen the screw on the right to adjust the reverse solenoid so that the gap (C) between A of the front frame and the flapper lever is 0.5 mm to 2.0 mm.

Fig. 3-72



Fig. 3-73

3 - 65

(4) Fix the plate spring temporarily with the screw on the left. Then press the plate spring slightly in the direction of an arrow and tighten the screw in the position where the gap (D) between the plunger and the flapper lever is eliminated.



Fig. 3-74

3.10.8 Adjustment of RADF opening/closing switch

Adjust the bracket position so that the switch is turned ON when the height A becomes 40-45 mm (within the empty weight falling limit).



Fig. 3-75

3.10.9 Adjustment of RADF opening/closing sensor

Adjust the bracket position so that the sensor is turned ON when the height A becomes 30-35 mm (within the empty weight falling limit).



Fig. 3-76

3.10.10 Adjustment of tray volume

<Procedure>

- (1) While pressing [0] and [5] simultaneously, turn the power ON.
- (2) Narrow the original guide to the limit.
- (3) Input the code "367".
- (4) Press the [START] button.



Fig. 3-77

- (5) Extend the original guide to the limit.
- (6) Input the code "368".
- (7) Press the [START] button
- (8) Turn the power OFF.



Fig. 3-78

3.11 Adjustment of the RADF (MR-3020)

3.11.1 Adjustment of RADF Position

Perform this adjustment when the RADF is not installed in the correct position.

Note:

Check if the image adjustment for the equipment is performed properly before this adjustment of the RADF.

- [A] Checking
 - 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. 3-79

(2) Remove the platen sheet.



Fig. 3-80

(3) Close the RADF and check if the positioning pins fit the holes on the RADF.



Fig. 3-81

[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. 3-82

(2) Loosen the left-hand hinge screw at the rear side.



Fig. 3-83

3

(3) Loosen the hinge screws at the front side.





(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. 3-85

(5) Tighten the left-hand hinge screw at the rear side.



Fig. 3-86

(6) Loosen the hole position adjustment screws on the right hand side.





(7) Match the screw hole positions.



Fig. 3-88

(8) Install the right-hand hinge screw at the rear side.



Fig. 3-89

3 - 73 05/11 (9) Loosen the hinge screws at the front side.



Fig. 3-90

(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. 3-91

3

3.11.2 Adjustment of RADF Height

Note:

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. 3-92

- [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





• 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



Fig. 3-94
3.11.3 Adjustment of Skew

Note:

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. 3-95 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 up 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. 3-96

(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. 3-98

Shift the aligning plate in the direction of "+".

Shift the aligning plate in the direction of "-".

Duplex copying:

(1) Shift the aligning plate with the scale as the guide shown in the figure below to adjust the skew.



Fig. 3-99

(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 "+".







Shift the aligning plate in the direction of "-".

Fig. 3-101

Shift the aligning plate in the direction of "+".

3

3.11.4 Adjustment of the Leading Edge Position

Note:

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 up 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. 3-102 Chart (Original)



[B] Adjustment

Simplex copying:

- (1) Turn the power ON while pressing [0] and [5] simultaneously, key in [365] 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.

Note:

Changing one value shifts the copy image by 0.1 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.

Note:

Changing one value shifts the copy image by 0.1 mm.

(3) Press the [ENTER] button.

Duplex copying:

- (1) Turn the power ON while pressing [0] and [5] simultaneously, key in [366] 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.

Note:

Changing one value shifts the copy image by 0.1 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.

Note:

Changing one value shifts the copy image by 0.1 mm.

(3) Press the [ENTER] button.

3.11.5 Adjustment of Horizontal Position

Note:

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 [358] 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.

Note:

Changing one value shifts the copy image by 0.042 mm.



Fig. 3-104

• 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.

3

Note:

Changing one value shifts the copy image by 0.042 mm.



Fig. 3-105

(3) Press the [ENTER] button.

3

3.11.6 Adjustment of Copy Ratio

Note:

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 [357] 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. 3-106

(3) Press the [ENTER] button.

3.11.7 Adjustment of RADF Opening/Closing Sensor

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. 3-107



Fig. 3-108

3.12 Adjustment of the Finisher (MJ-1022)

3.12.1 Adjusting the jogging plate width

<Procedure>

- (1) Remove the right inner cover and the rear cover.
- (2) Adjust the front jogging plate to the home position.
 - Set SW1 on the finisher controller PC board as shown in P.3-85 "Fig. 3-109 ".
 - Press SW2 twice on the finisher controller PC board.
 - The front jogging plate moves to the home position.
- (3) Adjust the rear jogging plate to the home position.
 - Set SW1 on the finisher controller PC board as shown in P.3-85 "Fig. 3-110 ".
 - Press SW2 twice on the finisher controller PC board.
 - The rear jogging plate moves to the home position.



Fig. 3-109





Fig. 3-111

(4) Measure the jogging width (standard at 317 mm).

- (5) Remove the processing tray.
- (6) Loosen the screw on the home position sensor plate at the front.



Fig. 3-112

- (7) Adjust the position of the front jogging plate home position sensor (S6) with reference to the index.
 - EX. 1

If the width is 319 mm in step (4), the difference from the standard is +2 mm, it requires relocation of the sensor in the direction of arrow A by 2 mm.

• EX. 2

If the width is 316 mm in step (4), the difference from the standard is -1 mm; it requires relocation of the sensor in the direction of arrow B by 1 mm.



Fig. 3-113

3.12.2 Adjusting the angle of the jogging plate

<Procedure>

 Without removing the processing tray unit, loosen the 2 mounting screws of the rear jogging plate.





(2) Place several sheets of A4/LT paper on the processing tray, and adjust the rear jogging plate. (At this time, adjust the gap between the paper and the front end of the rear jog-ging plate so that it is 0 mm to 0.5 mm.)



Fig. 3-115

(3) With reference to the rear jogging plate adjusted in step (2), adjust the front jogging plate in the same manner.

3.12.3 Adjusting the overlap of the sensor flag

If the overlap between the sensor and the flag is wrong for some reason, perform the following adjustment.

<Procedure>

- (1) Remove the processing tray unit.
- (2) Loosen the mounting screw of the front/rear jogging plate adjusting plate; then, move the adjusting plate to the left and the right.





(3) Tighten the screw so that the overlap between the flag of the front/rear jogging rack plate and the sensor is 1.5 mm to 2.0 mm.



Fig. 3-117

3.12.4 Adjusting the tension of the stack processing motor belt

<Procedure>

- (1) Remove the right inner cover and the rear cover.
- (2) Remove the 2 mounting screws, and detach the grip unit.





(3) Loosen the screw on the tension arm plate.(The tension arm plate will be pulled under tension by the tension spring.)





(4) Move the returning roller shaft to its lower limit (the slack of a belt is lightly taken); then, tighten the screw on the tension arm plate.



Fig. 3-120

(5) Check to make sure that the returning roller shaft moves smoothly.



Fig. 3-121

3.12.5 Releasing the stack tray guide lever fixing plate

<Procedure>

- (1) Remove the right inner cover and the rear cover.
- (2) Remove the finisher control PC board, PC board bracket and sensor PC board.
- (3) Remove the stack tray.
- (4) Remove the stack tray drive unit.
- (5) Place the stack tray guide lever fixing plate so that it is in view through the hole in the side plate (front, rear). Then remove the fixing screw. (Perform the same for the front and the rear.)

Note:

When removing the mounting screw, be sure to hold the stack tray guide lever up from below.







Fig. 3-123

3.12.6 Adjustment of the upper tray angle

<Procedure>

(1) Remove the front cover.



Fig. 3-124

(2) Loosen the screw denoted with the arrow.



Fig. 3-125

(3) The tension becomes loose. While pushing the bracket down, hold the tray and move it up or down, to adjust the angle so that the tray becomes parallel by a visual check.



Fig. 3-126

(4) After adjustment, tighten the fixing screw of the bracket.

Note:

If the fixing screw of the bracket is not fixed, the belt is loosened which may cause a skipped tooth.



Fig. 3-127

3.12.7 DIP switch functions

You can simulate various functions by setting the DIP switch (SW1) on the finisher controller PC board appropriately.

Initiating Operations

- 1) Remove any obstacles from the area of operation.
- 2) Set the DIP switch (SW1) as shown, and turn ON the power (so that LED1 will start to blink).
- 3) Press the pushing switch (SW2) twice to initiate the operation in question. (LED2 will remain on during operation).

Setting	Item	Ор	eration		To stop
ON 1 2 3 4 5 6 7 8	Delivery motor	The delivery rolle cific speed.	er rotates in a spe-	•	Press SW2 again. Turn OFF the joint sensor (S4).
ON 1 2 3 4 5 6 7 8	Stack processing motor (stack deliv- ery lever)	The stack deliver home position ar	ry lever moves to its nd stops.	•	Turn OFF the joint sensor (S4).
ON 1 2 3 4 5 6 7 8	Stack processing motor (returning roller)	The returning rol home position ar	ler moves to the nd stops.	•	Turn OFF the joint sensor (S4).
ON 1 2 3 4 5 6 7 8	Front jogging plate motor	When not at the home position	The front jogging plate moves to its home position and stops.	•	Turn OFF the joint sensor (S4).
		When at the home position	The front jogging plate moves over a specific position and stops at the home position.	•	Turn OFF the joint sensor (S4).
ON 1 2 3 4 5 6 7 8	Rear jogging plate motor	When not at the home position	The rear jogging plate moves to the home position and stops.	•	Turn OFF the joint sensor (S4).
		When at the home position	The rear jogging plate moves over a specific distance and stops.	•	Turn OFF the joint sensor (S4).
ON 1 2 3 4 5 6 7 8	Upper stack tray motor (up)	The upper stack stops when the u upper limit sense	tray moves up and upper stack tray or turns ON.	•	Press SW2 again. Turn OFF the joint sensor (S4).
ON 1 2 3 4 5 6 7 8	Upper stack tray motor (down)	The upper stack and stops when lower limit senso	tray moves down the lower stack tray r turns ON.	•	Press SW2 again. Turn OFF the joint sensor (S4).
ON 1 2 3 4 5 6 7 8	Lower stack tray motor (up)	The lower stack stops when the loupper limit sense	tray moves up and ower stack tray or is turned ON.	•	Press SW2 again. Turn OFF the joint sensor (S4).

Setting	ltem	Operation	To stop
ON 1 2 3 4 5 6 7 8	Lower stack tray motor (down)	The lower stack tray moves down and stops when the lower stack tray lower limit sensor is turned ON.	 Press SW2 again. Turn OFF the joint sensor (S4).
ON 1 2 3 4 5 6 7 8	Stapler motor	The stapler motor stops after the sta- pling operation.	 Press the stapler safety switch (S14). Turn OFF the joint sensor (S4).
ON 1 2 3 4 5 6 7 8	Shipping position operation	The upper and lower stack trays move to the shipping position and stop.	Turn OFF the joint sensor (S4).

Note:

Perform the shipping position operation when the finisher is packed again.

3.13 Adjustment of the Finisher (MJ-1025)

3.13.1 Adjusting the folding position (Electrical system (Finisher/Saddle unit))

The folding position is adjusted by matching it with the stapling position.

If you have replaced the finisher controller PCB, you must transfer the existing settings to the new PCB. Perform the following if the folding position must be adjusted for some reason.

Note:

Both the folding and stapling positions may deviate for some type of paper. In such a case, change the "middle stapling position" in the user mode of the host machine.

<Procedure>

(1) Set SW1 on the finisher controller PCB as follows:





- (2) Adjust the folding position by pressing the PSW1 or PSW2 on the finisher controller PCB a required number of times. Pressing the switch once moves the folding position about 0.16 mm.
 - To move the folding position in the "-" direction, press the PSW1.
 - To move the folding position in the "+" direction, press the PSW2.
 - Pressing the PSW1 and PSW2 at the same time clears the adjustment value.





- (3) When adjustment of the folding position is complete, set all bits of the SW1 on the finisher controller PCB to OFF.
- (4) Enter the bind mode of the host machine and check whether the folding position is adjusted properly. If adjusted improperly, adjust the folding position again.

3.13.2 Adjusting the sensor output (Electrical system (Puncher unit; option))

Perform the following when the punch controller PCB, horizontal registration sensor (photosensor PCB/ LED PCB), or waste full sensor (waste full photosensor PCB/waste full LED PCB) has been replaced.

<Procedure>

(1) Shift bits 1 through 4 on the punch controller PCB as follows:





- (2) Press SW1002 or SW1003 on the punch controller PCB. A press will automatically adjust the sensor output.
 - The adjustment is over when all LEDs on the punch controller PCB are ON: LED 1001, LED1002, LED1003.
- (3) Shift all bits of DIPSW1001 to OFF.

3.13.3 Registering the number of punch hole (Electrical system (Puncher unit; option))

Perform the following to register the type of puncher unit (number of holes) used to the IC on the punch controller PCB for identification by the finisher. Be sure to register the type whenever you have replaced the punch controller PCB.

<Procedure>.

(1) Set bits of 1 through 4 on the DIPSW1001 on the punch controller PCB as follows:



Fig. 3-131

(2) Press SW1002 on the punch controller PCB to select the appropriate number of punch holes.
Each press on SW1002 moves the selection through the following (repeatedly from top to bottom).

Number of punch holes	LED1001	LED1002	LED1003
2 holes (E)	ON	OFF	OFF
2/3 holes (N)	ON	ON	OFF
4 holes (F)	OFF	OFF	OFF
4 holes (S)	OFF	OFF	ON

- (3) Press SW1003 on the punch controller PCB twice. The presses will store the selected number of punch holes on the punch controller PCB.
 - A single press on SW1003 will cause the LED indication to flash; another press on SW1003 will cause the indication to remain ON to indicate the end of registration.
- (4) Shift all bits of DIPSW1001 to OFF.

3.13.4 After replacing the EEP-ROM (IC1002) (Electrical system (Puncher unit; option))

<Procedure>

- (1) Turn off the host machine.
- (2) Set bits 1 through 4 on the punch controller PCB as follows:



Fig. 3-132

- (3) Press SW1002 and SW1003 on the punch controller PCB at the same time.
 The presses will initialize the EEP-ROM. At the end, all LEDs (LED1001, LED1002,
- LED1003) will go ON.
- (4) Adjust the sensor output, and store the number of punch holes.

3.14 Key Copy Counter (MU-8, MU-10)

To make a key copy counter available, the following 2 components must be installed to the equipment.





<Installation procedure>

- (1) Remove the rear cover.
- (2) Remove the right upper cover-3, and cut open the window for the key copy counter.





(3) Pull out the harness connector from the hole of the machine frame, and cut the short harness of the connector. (Treat the cut harness properly to avoid it causing a short circuit with the machine frame.) Then, disconnect the dummy connector.



Fig. 3-135

- (4) Connect the connector of the counter socket to the harness connector of the equipment side.
- (5) Install the counter socket to the machine frame with two screws.
- (6) Reattach the cover.





(7) Insert the key copy counter with its arrow mark pointing the rear side of the equipment.





(8) Enter the value "3" in the setting mode (08-202).

3.15 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.



<Adjustment procedure>

(1) Check the position of the adjustment screws.



Fig. 3-141

(2) Remove the 2 adjustment screws.

- (3) Fix the adjustment screws in the position as shown in the figure.
 - Dogleg image A Install the adjustment screws as shown in the figure below so that the stay of the fuser unit can move upward.





 Dogleg image B Install the adjustment screws as shown in the figure below so that the stay of the fuser unit can move downward.







(4) Check the copied image. If further adjustment is needed, fix the adjustment screws in the position as shown in the figure so that the stay can be moved both upward and downward by 1 mm.

Be sure to make the scales on the right and left match when installing the adjustment screws.



Fig. 3-144

4. PREVENTIVE MAINTENANCE (PM)

4.1 PM Support Mode

4.1.1 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).

4.1.2 Operational flow and operational screen

[1] Operational flow





* 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

	10	9)		
	100% 2				
	Cpy. 941 Cnt.— 1916 C	hg2004/07/11			
	MAIN UNIT	OUTPUT PAGES(k)	PM OUTPUT PAGES(k)	DRIVE COUNTS(k)	PM DRIVE COUNTS(k)
	CLEANER/DRUM	0.9k	90k	1.9k	120k
(1)-	DEVELOPER	0.9k 🚽	90k	1.9k	120k
-	TRANS./SEP. CHARGER	0.9k	90k	1.9k	120k
	FILTER	0.9k	180k	1.9k	240k
	FUSER	0.9k	180k	<u>1.9k</u>	240k
	(RETURN) RESET SUB UNI	T Next Prev			
		5	6	$\overline{7}$	8



- ① Displaying of the main unit name
- 2 Back to the PM support mode activation screen
- (3) Clearing of the chosen unit counters (all the sub unit (parts) counters belonging to that unit) All counters are cleared when the unit is not selected
- ④ Moving to the sub screen
- (5) Moving to the next/previous page
- 6 Displaying of the standard number of output pages counts (x 1,000) to replace the unit parts
- Displaying of the present drive counts (x 1,000)
 "*" is displayed next to the present number when the number of drive counts has exceeded its PM standard number.
- (8) Displaying of the standard number of drive counts (x 1,000) to replace the unit parts
- Displaying of the present number of output pages counts (x 1,000) When there are differences among the sub units (parts), "_" is displayed and "CHECK SUB-UNIT" is displayed at the top

"*" is displayed next to the present number when the number of output pages counts has exceeded its PM standard number.

Displaying of the number of output pages counts (Cpy.), 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

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 OUT-PUT PAGES (k)" even for the installed paper source.

2) Sub screen





- ① Displaying of the sub unit (parts) name
- 2 Back to the main screen
- ③ Clearing of the chosen sub unit (parts) counters
- Displaying of the present number of output pages counts (x 1,000)
 "*" is displayed next to the present number when the number of output pages counts has exceeded its PM standard number.
- 5 Displaying of the standard number of output pages counts (x 1,000) to replace the sub unit (parts)
- Displaying of the present drive counts (x 1,000)
 "*" is displayed next to the present number when the number of drive counts has exceeded its PM standard number.
- ⑦ Displaying of the standard number of drive counts (x 1,000) to replace the sub unit (parts)
- B Displaying of the number of output pages counts, drive counts and previous replacement date for a chosen sub unit

3) Clear screen

<u>100%</u>	2
COUNTER RESET	DEVELOPER
CANCEL	
	1



(1) When the [INITIALIZE] button is pressed, "Present number of output pages counts" and "Present driving counts" are cleared and "Previous replacement date" is updated.

[3] LCD screen display list

Note:

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/separation charger unit [TRANS./SEP. CHARGER]	Transfer charger wire [TRANSFER CHARGER WIRE] Separation charger wire [SEPARATION CHARGER WIRE]
Filter [FILTER]	Ozone filter [OZONE FILTER]
Fuser unit [FUSER]	Fuser roller [FUSER ROLLER] Pressure roller [PRESS ROLLER] Cleaning roller [CLEANING 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]	Pickup roller [PICK UP ROLLER (SFB)] Feed roller [FEED ROLLER (SFB)] Separation roller [SEP ROLLER (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.)]

4.1.3 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



4.2 General Descriptions for PM Procedure

Perform the preventive maintenance in the following timing. e-STUDIO200L/202L/203L: every 6,400 sheets e-STUDIO230/230L/232/233:every 74,000 sheets e-STUDIO280/282/283: every 90,000 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 \rightarrow [2] \rightarrow [START]
9S-103 : [9] + [START] + [POWER] ON \rightarrow [103] \rightarrow [START]
```

LINIT	OUTPUT PAGES	PM OUTPUT PAGE	DRIVE COUNTS	
	CON ON AOLO	I W CON OTTACE	DIVE COUNTS	
DRUM	81813	150000	119758	220000
DRUM BLADE	81813	150000	119758	220000
GRID	81813	150000	119758	220000
MAIN CHARGER WIRE	81813	150000	119758	220000
SEPARATION FINGER (DRUN	1) 81813	150000	119758	220000

Fig. 4-5

- 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.

4.3 Operational Items in Overhauling

Overhaul each equipment with the following timing.

e-STUDIO200L/202L/203L:When the number of output pages has reached 193,000 or 2.5 years
have passed from the start of use (Whichever is earlier)e-STUDIO230/230L/232/233:When the number of output pages has reached 222,000 or 2.5 years
have passed from the start of use (Whichever is earlier)e-STUDIO280/282/283:When the number of output pages has reached 270,000 or 2.5 years
have passed from the start of use (Whichever is 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.
4.4 Preventive Maintenance Checklist

	Cleaning		Lubrication	Replacement	Operation check	Date
A	Clean with alcohol Clean with soft pad, cloth or vacuum cleaner	L Launa 40 Coating		The number of	O After cleaning or	User name
0				before replacement	replacement,	Serial No.
		SI W1	Silicon oil White grease	(Value x 1,000) ∆ Replace if deformed or	no problem.	Inspector's name
		W2 AV FL CG	(Molykote X5-6020) White grease (Molykote HP-300) Alvania No.2 Floil (GE-334C) Conductive grease (KS-660)	damaged		Remarks

Symbols used in the checklist

[Preventive Maintenance Checklist]

Notes:

- Perform cleaning and lubricating in the following timing. Lubricate the replacement parts according to the replacement cycle.
 - e-STUDIO200L/202L/203L: every 64,000 sheets e-STUDIO230/230L/232/233:every 74,000 sheets e-STUDIO280/282/283: every 90,000 sheets
- Values under "Replacement" indicate the replacement cycle for the e-STUDIO200L/ e-STUDIO230/e-STUDIO230L/e-STUDIO280 or e-STUDIO202L(203L)/e-STUDIO232(233)/ e-STUDIO282(283).
- 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.

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <p-l></p-l>	Remarks
A1	Original glass	O or A				<p22-i1></p22-i1>	*a1
A2	ADF original glass	0				<p22-12></p22-12>	*a1
A3	Mirror-1	0					
A4	Mirror-2	0					
A5	Mirror-3	0					
A6	Reflector	0				<p23-i4></p23-i4>	
A7	Lens	0				<p11-i16></p11-i16>	
A8	Exposure lamp			Δ	0	<p23-i6></p23-i6>	
A9	Automatic original detection sensor	0			0	<p11-i17></p11-i17>	
A10	Slide sheet (front and rear)	O or A		Δ			

A. Scanner

B. Laser unit

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <p-l></p-l>	Remarks
B1	Slit glass	0					

C. Feed unit

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <p-l></p-l>	Remarks
C1	Pickup roller			80/80		<p15-i19></p15-i19>	
C2	Feed roller			80/80		<p15-i39></p15-i39>	
C3	Separation roller		AV, W2	80/80		<p15-i29></p15-i29>	*c1
C4	Transport roller (1st/2nd)	A		Δ			
C5	Paper guide	0					
C6	Drive gear (tooth face and shaft)		W1				
C7	GCB bushing bearing		L				*c2
C8	One side of the plastic bushing		W1				
C9	Registration roller	А		Δ			

D. Automatic duplexing unit (MD-0102)

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <p-l></p-l>	Remarks
D1	Transport roller (upper, middle and lower)	A		Δ			
D2	One side of the GCB busing to which the shaft is inserted		L				
D3	One side of the plastic busing to which the shaft is inserted		W1				
D4	Paper guide	0				<p32-14></p32-14>	

E. Bypass feed unit

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <p-l></p-l>	Remarks
E1	Pickup roller			80/80		<p20-i4></p20-i4>	
E2	Feed roller			80/80		<p20-i4></p20-i4>	
E3	Separation roller		AV, W2	80/80		<p19-l4></p19-l4>	*e1
E4	Bypass tray	0					
E5	Drive gear (tooth face and shaft)		W1				
E6	GCB bushing bearing		L				

F. Main charger

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <p-l></p-l>	Remarks
F1	Main charger case	0				<p25-i1></p25-i1>	*f1
F2	Needle electrode			64/74/90			*f1
F3	Contact point of termi- nals	0					
F4	Main charger wire cleaner			Δ	0	<p25-i7></p25-i7>	
F5	Main charger grid			64/74/90		<p25-i3></p25-i3>	

G. Transfer / Separation charger

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <p-l></p-l>	Remarks
G1	Charger case	0				<p26-12></p26-12>	*g1
G2	Transfer charger wire			64/74/90	0	<p26-i18></p26-i18>	*g1
G3	Separation charger wire			64/74/90	0	<p26-i18></p26-i18>	*g1
G4	Pre-transfer guide	O or A					
G5	Post-transfer guide	O or A					
G6	Separation supporter	0		Δ		<p26-i17></p26-i17>	
G7	Terminal cover	0					
G8	Contact point of termi- nals	0					
G9	Transfer guide roller	0		Δ		<p26-i14></p26-i14>	

H. Drum/Cleaner related section

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <p-l></p-l>	Remarks
H1	Photoconductive drum			64/74/90			Chap. 4.8.2
H2	Discharge LED	0					
H3	Whole cleaner unit	0					
H4	Drum cleaning blade			64/74/90		<p27-i5></p27-i5>	*h1
H5	Separation finger for drum			64/74/90 Δ			*h2
H6	Recovery blade	0		64/74/90		<p27-i6></p27-i6>	*h3
H7	Ozone filter			128/148/180		<p12-i8></p12-i8>	

I. Developer unit / Toner cartridge related section

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <p-l></p-l>	Remarks
11	Whole developer unit	0					
12	Developer material			64/74/90			*i1
13	Front shield	0		Δ			
14	Oil seal (6 pcs.)		AV	320/370/450		<p28-i11></p28-i11>	*i2
15	Guide roller	O or A					
16	Side shield	0					
17	Developer unit lower stay	0					
18	Toner cartridge drive gear shaft		W1				

J. Fuser unit

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <p-l></p-l>	Remarks
J1	Fuser roller			128/148/180		<p30-l23></p30-l23>	
J2	Pressure roller			128/148/180		<p30-l21></p30-l21>	
J3	Separation finger for fuser roller			128/148/180		<p30-i28></p30-i28>	*j1
J4	Cleaning roller			128/148/180		<p30-i14></p30-i14>	
J5	Fuser unit entrance guide	A				<p30-i39></p30-i39>	
J6	Thermistor (3 pcs.)	А		Δ		<p30-i10></p30-i10>	*j2
J7	Drive gear (tooth face and shaft)		W2	Δ		<p30-i19></p30-i19>	
J8	Fuser roller gear			Δ		<p30-l24></p30-l24>	

K. Exit unit

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <p-l></p-l>	Remarks
K1	Exit/reverse guide	A				<p31-l21></p31-l21>	
K2	Exit roller	A		Δ		<p31-i3></p31-i3>	
K3	Drive gear		SI				

L. RADF (MR-3016)

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <p-l></p-l>	Remarks
L1	Pickup roller	0		120		<p8-126></p8-126>	
L2	Feed roller	0		120		<p8-125></p8-125>	
L3	Separation roller	0		120		<p6-i6></p6-i6>	
L4	Original length sensor	0					
L5	Registration roller	A					
L6	1st small roller	А					
L7	2nd small roller	А					
L8	Read sensor	0					
L9	Read sensor	0					
L10	Read roller	A					
L11	3rd small roller	А					
L12	4th small roller	A					
L13	Reverse sensor	0					
L14	Exit roller	A					
L15	Reverse roller	А					
L16	Platen sheet	O or A					

M. PFP (KD-1011)

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <p-l></p-l>	Remarks
M1	Pickup roller (upper/lower)			80		<p5-129></p5-129>	
M2	Feed roller (upper/lower)			80		<p5-126></p5-126>	
M3	Separation roller (upper/lower)		AV, W2	80		<p5-i12></p5-i12>	*m1
M4	Drive gear (tooth face)		W1				

N. LCF (KD-1012)

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <p-l></p-l>	Remarks
N1	Pickup roller	A		160		<p4-i30></p4-i30>	
N2	Feed roller	A		160		<p4-128></p4-128>	
N3	Separation roller	А		160		<p5-i12></p5-i12>	
N4	Drive gear		W1				

O. Job Separator (MJ-5004)

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <p-l></p-l>	Remarks
01	Idling roller	O or A	W1				*o1
O2	Other rollers	O or A					
O3	Paper guide	O or A					
04	JSP upper stuck sensor	0			0	<p1-l51></p1-l51>	
O5	JSP lower stuck sensor	0			0	<p1-l12></p1-l12>	
O6	JSP paper jam sensor	0			0		

P. Offset Tray (MJ-5005)

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <p-l></p-l>	Remarks
P1	OCT separator roller	O or A	W1, FL			<p2-122></p2-122>	*p1
P2	Other rollers	O or A				<p2-139></p2-139>	
P3	Paper guide	O or A					
P4	OCT stuck sensor	0			0	<p1-i13></p1-i13>	
P5	OCT home position sensor	0			0		
P6	OCT feed sensor	0			0		

Q. Finisher (MJ-1025)

	Items to check	Cleaning	Lubrication	Replacement (x 1,000 sheets)	Operation check	Parts list <p-l></p-l>	Remarks
Q1	Feed roller	O or A					
Q2	Delivery roller	O or A					
Q3	Stack delivery roller	O or A					
Q4	Stack feed roller	O or A					
Q5	Paper fold roller	O or A					
Q6	Bind delivery roller	O or A					
Q7	Waste full detection sensor	0					
Q8	Feeding assembly member	O or A					
Q9	Paper guide	O or A					

R. RADF (MR-3020)

	Items to check		Lubrication/ Coating	Replacement (KS)	Operation check	Parts list <p-l></p-l>	Remarks
R1	Pickup roller	А		120		5-1	
R2	Separation roller	А		120		4-10	
R3	Feed roller	А		120		5-1	
R4	Registration roller	А					
R5	Intermediate transfer roller	A					
R6	Front read roller	Α					
R7	Platen roller	А					
R8	Rear read roller	Α					
R9	Reverse registration roller	A					
R10	Exit/reverse roller	А					
R11	Platen sheet	O or A					



Fig. 4-6 Front side



Fig. 4-7 Reversing Automatic Document Feeder (RADF: MR-3016)



Fig. 4-8 Paper Feed Pedestal (PFP)



Fig. 4-9 Large Capacity Feeder (LCF)

e-STUDIO200L/202L/203L/230/230L/232/233/280/282/283 PREVENTIVE MAINTENANCE (PM)

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Fig. 4-10 Job Separator (JSP)



Fig. 4-11 Offset Tray (OCT)



Fig. 4-12 Finisher (MJ-1025)



Fig. 4-13 Reversing Automatic Document Feeder (RADF: MR-3020)

e-STUDIO200L/202L/203L/230/230L/232/233/280/282/283 PREVENTIVE MAINTENANCE (PM)

Remarks "*" in the Preventive Maintenance Check List

* a1. Original glass / ADF original glass
 Clean both sides of the original glass and ADF original glass.

Note:

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.

* c1, m1. Separation roller (Feed unit, PFP)

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).

Note:

Make sure that the grease does not adhere to the roller surface. Wipe it off with alcohol if adhered.



Fig. 4-15

 * c2. Drive gears in the paper feeding section (teeth of gears and shafts) Apply some white grease (Molykote X5-6020) to the teeth of gears and shafts of the drive gears.

Note:

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.

4

e1. Separation roller (SFB)

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).

Note:

Make sure that the grease does not adhere to the roller surface. Wipe it off with alcohol if adhered.





* f1. 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.

Note:

Do not touch the needle electrode with your bare hand when attaching the needle electrode.

 Transfer / separation charger case and transfer / separation wire Clean the transfer / separation charger case with a cloth soaked in water and squeezed tightly, and then wipe them with a dry cloth. Replace the wire with a new one if it is damaged regardless of the number of output pages which have been mode.

Notes:

- Do not deform the metal plate of the transfer guide roller.
 - Be careful of the following when attaching a new wire (length: 353 mm)
 - Insert the wire securely into the V-grooves of the front and rear sides.
 - Do not twist the wire.
 - Do not touch the wire with your bare hand.

* h1. 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.

h2. 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

If any mark which was made by the finger appears on the printed image, clean the tip of the finger.

Notes:

- 1. Wipe the tip of the finger lightly with a dry cloth trying not to deform it. Do not leave the lint on the tip.
- 2. 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.
- * h3. Recovery blade Replace the recovery blade regardless the number of output pages if the edge of the blade get damaged.
- * i1. Developer material After replacing the developer material, be sure to perform the auto-toner adjustment. (
 — P. 3-1 "3.1 Adjustment of Auto-Toner Sensor")
- * i2. Oil seal (Developer unit) Mixer unit (Shafts of mixers-1, -2 & -3) 6 pcs.

During replacement, coat the oil seal with grease (Alvanian No.2).

- 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. 4-18

* j1. 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.

* j2. 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.

* o1. Idling roller

Apply one-rice-grain-amount of white grease (Molykote X5-6020) to each part A in the figure below.



Fig. 4-19

* p1. 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 X5-6020) to each part B.



Fig. 4-20

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4.5 PM KIT

ltem	Product name	Part name	Qty.
DEV-KIT-2320 (e-STUDIO200L/ 230/230L/280)	Drum cleaning blade Recovery blade Separation finger for drum Main charger grid Needle electrode	BL-2320D ASYS-BLADE-REC SCRAPER-371 GRID-CH-M-371 CH-M	1 1 3 1 1
	Separation charger wire	WIRE-CH-060-353-R	1
	Developer material	D-2320	1
DEV-KIT-2340 (e-STUDIO202L/ 203L/232/233/282/ 283)	Drum cleaning blade Recovery blade Separation finger for drum Main charger grid Needle electrode Transfer charger wire Separation charger wire Developer material	BL-2320D BLADE-REC SCRAPER-371 GRID-CH-M-371 CH-M WIRE-CH-060-353-R WIRE-CH-060-353-R D-2320	1 1 2 1 1 1 1 1
FR-KIT-2320	Fuser roller	HR-2320-U	1
	Pressure roller	HR-2320-L	1
	Separation finger for fuser roller	SCRAPER-HR-377	6
	Cleaning roller	B-2320-L	1
	Ozone filter	FILTER-OZONE-TRU-377	1
ROLL-KIT-2320CST	Pickup roller	ROLLER-PICK-AT	1
	Feed roller	K-ROLL-FEED	1
	Separation roller	K-ROLL-SPT	1
ROL-KIT-1010	Pickup roller	ROLL-PICK-UP	1
	Feed roller	ROLL-PAPER-FED-F	1
	Separation roller	ROLL-PAPER-FED-S	1
DF-KIT-3015	Pickup roller	ROLL-PICK-UP	1
	Feed roller	ROLL-FEED	1
	Separation roller	ROL-SPT-513	1

4.6 Jig List

ltom	Part	s list
nem	Page	ltem
Door switch jig	101	1
Brush	101	2
Doctor sleeve jig	101	3
Developer material nozzle	101	4
Wire holder jig	101	5
Belt tension jig	101	6
High-voltage transformer jig	101	7
Downloading jig (DLM board)	102	1
Download JIG-2 (6 Flash ROMs)	102	2
Download JIG-1 (2 Flash ROMs)	102	3
ROM writer adapter (For 1881)	102	4
ROM writer adapter (For 1931)	102	5

4.7 Grease List

	Crosse name	Dort nome	Volumo	Container	Parts list	
Grease name		Fart name	volume	Container	Page	ltem
SI	Silicon oil	ASM-SILICONE-1M	100cc	Bottle	101	10
L	Launa 40	OIL-LAUNA40-100	100cc	Oiler	101	11
W2	White grease (Molykote HP-300)	ASM-PG-HP300-S	100g	Bottle	101	12A
W2	White grease (Molykote HP-300)	GREASE-HP300-S	10g	Bottle	101	12B
AV	Alvania No.2	ASM-PG-ALV2	100g	Tube	101	13
W1	White grease (Molykote X5-6020)	MOLYKOTE-100	100g	Tube	101	14
FL	Floil (GE-334C)	ASM-PG-GE334C-S	20g	Bottle	101	15

4.8 **Precautions for Storing and Handling Supplies**

4.8.1 **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 / Cleaning 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.

4.8.2 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 08-1150-0, 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.

Collecting used photoconductive drums Regarding the recovery and disposal of used photoconductive drums, we recommend following the relevant local regulations or rules.

4.8.3 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.

4.8.4 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 cleaning effect of the cleaning roller.
 - 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.

Note:

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.

4.8.5 Checking and replacing the cleaning roller

1) Handling precautions

Never allow solvents such as paint thinner to touch to the cleaning rollers.

2) Poor cleaning and corrective treatment

Judgment should be made depending on how much toner has been deposited on the pressure roller surface. When its surface is stained with toner, check the cleaning roller. If toner is heavily adhered on the cleaning roller, the cleaning roller should be replaced with new ones. Replace it when a specified number of output pages have been made.

5. TROUBLESHOOTING

When any of the PC boards or the HDD requires replacement, refer to \square P. 5-118 "5.3 Replacement of PC Boards and HDD".

5.1 Diagnosis and Prescription for Each Error Code

5.1.1 Paper transport jam

[E010] Leading edge of paper not reaching the exit sensor

[E020] Trailing edge of paper not passing the exit sensor

Open the transfer cover. Is there any paper on the transport path?

 \downarrow YES \rightarrow Remove the paper.

NO

Is the exit sensor working? (Perform the input check in the test mode: 03-[FAX]ON/[2]/[B])

 	NO →	 Check if the connector of the exit sensor is disconnected. Check if the connector CN308 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.
YES		

<u>Is the registration roller clutch working?</u> (Perform the output check in the test mode: 03-108/158)

I NO →	 1) Check if the connector of the registration roller clutch is discon-
I	nected.
 	 Check if the connector CN305 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.

YES

Check the registration roller. Replace it if it is worn out.

[E030] Paper remaining inside the equipment at power-ON

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.)

 \downarrow YES \rightarrow Remove the paper.

NO

<u>Is the sensor in the jamming area working? (Perform the input check in the test mode: refer</u> to the following table.)

	NO →	 Check if the connector of the sensor is disconnected.
Ι		2) Check if any of the connectors on the LGC board is disconnected.
		3) 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.
1		5) Replace the sensor.
\downarrow		6) Replace the LGC board.
YES		

Replace the 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	Transfer cover	Registration sensor	03-[FAX]ON/[2]/[A]
		1st transport sensor	03-[FAX]OFF/[6]/[E]
Exit area	Transfer cover	Exit sensor	03-[FAX]ON/[2]/[B]
ADU	ADU	ADU entrance sensor	03-[FAX]OFF/[1]/[H]
		ADU exit sensor	03-[FAX]OFF/[1]/[G]
Feeding area (Main unit)	Side cover	2nd transport sensor	03-[FAX]OFF/[7]/[E]
LCF	LCF side cover	LCF feed sensor	03-[FAX]OFF/[5]/[G]
PFP	PFP side cover	PFP upper drawer feed sensor	03-[FAX]OFF/[2]/[D]
		PFP lower drawer feed sensor	03-[FAX]OFF/[4]/[D]
Bridge unit	Bridge unit	Bridge unit transport sensor-1	03-[FAX]ON/[3]/[H]
		Bridge unit transport sensor-2	03-[FAX]ON/[3]/[E]
JSP	JSP cover	JSP feed sensor	03-[FAX]ON/[3]/[H]
OCT	OCT cover	OCT feed sensor	03-[FAX]ON/[3]/[H]

[E061] Incorrect paper size setting for upper drawer (e-STUDIO202L/203L/232/233/282/283) [E062] Incorrect paper size setting for lower drawer (e-STUDIO202L/203L/232/233/282/283) [E063] Incorrect paper size setting for PFP upper drawer (e-STUDIO202L/203L/232/233/282/283) [E064] Incorrect paper size setting for PFP lower drawer (e-STUDIO202L/203L/232/233/282/283) [E065] Incorrect paper size setting for bypass tray (e-STUDIO202L/203L/232/233/282/283)

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.

[E090] Paper jam by HDD abnormality

- (1) Check if the error is cleared by turning the power OFF and then back ON.
- (2) Check if the connectors of the HDD are disconnected.
- (3) Check if the connector pins are disconnected and the harnesses are open circuited.
- (4) Replace the HDD.
- (5) Replace the SYS board.
- [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

Open the transfer cover. Is there paper in front of the registration sensor?

 \downarrow YES \rightarrow Remove the paper.

NO

Is the registration sensor working?

(Perform the input check in the test mode: 03-[FAX]ON/[2]/[A]

I NO → I	 Check if the connector of the registration sensor is disconnected. Check if the connector CN305 on the LGC board is disconnected. Check if the connector pins are disconnected and the barresses are
	 a) Check if the connector pins are disconnected and the namesses are open circuited. 4) Check if the conductor pattern on the LGC board is short circuited or open circuited. 5) Replace the registration sensor. 6) Replace the LGC board.

YES

Are the (lower/middle) transport clutches working?

(Perform the output check in the test mode: 03-203, 205)

I	NO →	1) Check if the connectors of the (lower/middle) transport clutches are
I		disconnected.
		2) Check if the connector CN305 on the LGC board is disconnected.
		3) 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.
1		5) Replace the (lower/middle) transport clutches.
\downarrow		6) Replace the LGC board.
YES		

- E9
- 1) Check the condition of the feed roller, separation roller and pickup roller of each paper source, and replace them if they are worn out.
- 2) Check the transport roller. Replace it if it is worn out.

- [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

Open the transfer cover. Is there paper in front of the 1st transport sensor?

- \downarrow YES \rightarrow Remove the paper.
- NO

Is the 1st transport sensor working?

(Perform the input check in the test mode: 03-[FAX]OFF/[6]/[E])

Ι	NO →	1) Check if the connector of the 1st transport sensor is disconnected.
I		2) Check if the connector CN305 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.
I		5) Replace the 1st transport sensor.
\downarrow		6) Replace the LGC board.

YES

<u>Are the (lower/middle) transport clutches working?</u> (Perform the output check in the test mode: 03-203, 205)

l I	NO →	 Check if the connectors of the (lower/middle) transport clutches are disconnected.
I		2) Check if the connector CN305 on the LGC board is disconnected.
		3) 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.
ļ		 5) Replace the (lower/middle) transport clutches. 6) Replace the LGC board
\mathbf{v}		

YES

- 1) Check the condition of the feed roller, separation roller and pickup roller of each paper source, and replace them if they are worn out.
- 2) Check the transport roller. Replace it if it is worn out.

[E270] Bypass transport jam (Paper not reaching the registration sensor)

[E280] ADU transport jam (Paper not reaching the registration sensor)

Open the transfer cover. Is there paper in front of the registration sensor?

 \downarrow YES \rightarrow Remove the paper.

NO

Is the registration sensor working?
(Perform the input check in the test mode: 03-[FAX]ON/[2]/[A]

	NO →	 Check if the connector of the registration sensor is disconnected. Check if the connector CN305 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.
I		Replace the registration sensor.
\downarrow		6) Replace the LGC board.

YES

<u>Is the registration clutch working?</u> (Perform the output check in the test mode: 03-108/158)

l I	NO →	 Check if the connector of the registration clutch is disconnected. Check if the connector CN305 on the LGC board is disconnected.
		2) Oneckin the connector on our of the EGO board is disconnected.
l l		 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.
1		5) Replace the registration roller clutch.
ı ↓		6) Replace the LGC board.

YES

Check the registration roller. Replace it if it is worn out.

- [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

Open the side cover. Is there paper in front of the 2nd transport sensor?

↓ YES → Remove the paper.

NO

Is the 2nd transport sensor working?

(Perform the input check in the test mode: 03-[FAX]OFF/[7]/[E]

	•	· · · · · · · · · · · · · · · · · · ·
Ι	NO →	1) Check if the connector of the 2nd transport sensor is disconnected.
I		2) Check if the connector CN304 on the LGC board is disconnected.
I		3) Check if the connector pins are disconnected and the harnesses are
		open circuited.
I		4) Check if the conductor pattern on the LGC board is short circuited or
I		open circuited.
1		5) Replace the 2nd transport sensor.
- I I.		6) Replace the LGC board.
\mathbf{v}		

YES

Are the (lower/middle) transport clutches working?

(Perform the output check in the test mode: 03-203, 205)

	NO →	 Check if the connectors of the (lower/middle) transport clutches are disconnected. Check if the connector CN305 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/middle) transport clutches.
i		5) Replace the (lower/middle) transport clutches.
\checkmark		6) Replace the LGC board.

YES

Is the PFP transport clutch working? (Perform the output check in the test mode: 03-225)

		1) Check if the compositor of the DED transport slutch is discomposited
I	NU 7	T) Check if the connector of the PFP transport clutch is disconnected.
		2) Check if any of the connectors CN241, CN242 and CN244 on the
I		PFP board is disconnected.
		3) Check if the connector CN310 on the LGC board is disconnected
1		5) Check if the connector CNSTO on the LGC board is disconnected.
I		 Check if the connector pins are disconnected and the harnesses are onen aircuited
1		open circuited.
i		5) Check if the conductor patterns on the PFP board and LGC board
i		are short circuited or open circuited.
i		6) Replace the PFP transport clutch.
i		7) Replace the PFP board.
\checkmark		8) Replace the LGC board.

YES

- 1) Check the condition of the feed roller, separation roller and pickup roller of each paper source, and replace them if they are worn out.
- 2) Check the transport roller. Replace it if it is worn out.

[E360] Paper fed from the PFP lower drawer not reaching the PFP upper drawer feed sensor

Open the PFP side cover. Is there any paper in front of the PFP upper drawer feed sensor?

 \downarrow YES \rightarrow Remove the paper.

NO

<u>Is the PFP upper drawer feed sensor working?</u> (Perform the input check in the test mode: 03-[FAX]OFF/[2]/[D])

 	NO →	 Check if the connector of the PFP upper drawer feed sensor is dis- connected.
		2) Check if either of the connectors CN241 or CN243 on the PFP board is disconnected.
ļ		3) Check if the connector CN310 on the LGC board is disconnected.
		4) 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.
i		6) Replace the PFP upper drawer feed sensor.
Ì		7) Replace the PFP board.
\checkmark		8) Replace the LGC board.

YES

Is the PFP transport clutch working? (Perform the output check in the test mode: 03-225)

I I	NO →	 Check if the connector of the PFP transport clutch is disconnected. Check if any of the connectors CN241, CN242 and CN244 on the
I		PFP board 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 patterns on the PFP board and LGC board are short circuited or open circuited.
I		6) Replace the PFP transport clutch.
I		7) Replace the PFP board.
\checkmark		8) Replace the LGC board.

YES

- 1) Check the condition of the feed roller, separation roller and pickup roller of each paper source, and replace them if they are worn out.
- 2) Check the PFP transport roller. Replace it if it is worn out.

[E510] ADU transport jam (paper not reaching the ADU exit sensor)

Open the ADU. Is there any paper in front of the ADU exit sensor?

 \downarrow YES \rightarrow Remove the paper.

NO

Is the ADU exit sensor working?

(Perform the input check in the test mode: 03-[FAX]OFF/[1]/[G])

	NO →	 Check if the connector of the ADU exit sensor is disconnected. Check if either of the connectors CN562 or CN213 on the ADU board is disconnected.
		 3) Check if the connector CN304 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 ADU board and LGC board are short circuited or open circuited. 6) Replace the ADU exit sensor. 7) Replace the ADU board. 8) Replace the LGC board.
YES		
Is the Al	DU clutch	working? (Perform the output check in the test mode: 03-222)
 	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.

4)	Check if the conductor pattern on the LCC heard is short signified or
4)	Check if the conductor pattern on the LGC board is short circuited of
	open circuited.

- 5) Replace the ADU clutch.
- 6) Replace the LGC board.

YES

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|
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I

 \downarrow

Check the rollers in the ADU. Replace them if they are worn out.

[E520] ADU stack jam (paper not reaching the ADU entrance sensor)

Open the ADU. Is there any paper in front of the ADU entrance sensor?

 \downarrow YES \rightarrow Remove the paper.

NO

<u>Is the ADU entrance sensor working?</u> (Perform the input check in the test mode: 03-[FAX]OFF/[1]/[H])</u>

	NO →	 Check if the connector of the ADU entrance sensor is disconnected. Check if either of the connectors CN562 or CN214 on the ADU board 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 patterns on the ADU board and LGC board are short circuited or open circuited. ADU board and LGC board
I		7) Replace the ADU board
1		8) Poplace the LCC board
\mathbf{V}		o) Replace the LGC board.
YES		
Is the exi	it motor (r	otating in reverse) working?
(Perform	the outpu	it check in the test mode: 03-121/171)
		1) Charly if the compositor of the avit mater is discomposited
1	NU 7	 Check if the connector CN206 on the LCC heard is disconnected.
i		2) Check if the connector pipe are disconnected and the barnesses are
i		open circuited.
		 Check if the conductor pattern on the LGC board is short circuited or open circuited.
		5) Replace the exit motor.
1		6) Replace the LGC board.
J V		· ·

YES

Is the ADU motor working? (Perform the output check in the test mode: 03-110/160)

Ι	NO →	1) Check if the connector of the ADU motor is disconnected.
Ι		2) Check if any of the connectors CN562, CN563 and CN215 on the
I		ADU board is disconnected.
1		3) 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 patterns on the ADU board and LGC board are short circuited or open circuited.
i		6) Replace the ADU motor.
i		7) Replace the ADU board.
\mathbf{V}		8) Replace the LGC board.

YES

Check the rollers in the ADU and the exit roller of the equipment. Replace them if they are worn out.

[E550] Paper remaining on the transport path

Open the cover of the unit/area whose picture is blinking on the control panel. Is there any paper on the transport path?

 \downarrow YES \rightarrow Remove the paper.

NO

Is the sensor in the jamming area working? (Perform the input check in the test mode: refer to the following table)

I	NO→	 Check if the connector of the sensor is disconnected.
Ì		2) Check if any of the connectors on the LGC board is disconnected.
l I		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
l		5) Replace the sensor.
ı ↓		6) Replace the LGC board.

YES

Replace the LGC board.

Relation between the jamming a	rea 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	Transfer cover	Registration sensor	03-[FAX]ON/[2]/[A]
		1st transport sensor	03-[FAX]OFF/[6]/[E]
Exit area	Transfer cover	Exit sensor	03-[FAX]ON/[2]/[B]
ADU	ADU	ADU entrance sensor	03-[FAX]OFF/[1]/[H]
		ADU exit sensor	03-[FAX]OFF/[1]/[G]
Feeding area (Main unit)	Side cover	2nd transport sensor	03-[FAX]OFF/[7]/[E]
LCF	LCF side cover	LCF feed sensor	03-[FAX]OFF/[5]/[G]
PFP	PFP side cover	PFP upper drawer feed sensor	03-[FAX]OFF/[2]/[D]
		PFP lower drawer feed sensor	03-[FAX]OFF/[4]/[D]
Bridge unit	Bridge unit	Bridge unit transport sensor-1	03-[FAX]ON/[3]/[H]
		Bridge unit transport sensor-2	03-[FAX]ON/[3]/[E]
JSP	JSP cover	JSP feed sensor	03-[FAX]ON/[3]/[H]
ОСТ	OCT cover	OCT feed sensor	03-[FAX]ON/[3]/[H]
Finisher	Finisher door	Sensors in the finisher	-

[E950] Jam not reaching the JSP feed sensor

[E951] Stop jam at the JSP feed sensor

Open the JSP cover. Is there any paper on the transport path?

 \downarrow YES \rightarrow Remove the paper.

NO

Is the JSP feed sensor working?

(Perform the input check in the test mode: 03-[FAX]ON/[3]/[H])

 	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
1		is disconnected.
1		3) Check if the connector CN306 on the LGC board is disconnected.
1		 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.
i		Replace the JSP feed sensor.
Ì		7) Replace the JSP board.
\mathbf{V}		8) Replace the LGC board.
2		

YES

1) Replace the JSP board.

2) Replace the LGC board.

[E960] Jam not reaching the OCT feed sensor

[E961] Stop jam at the OCT feed sensor

Open the OCT cover. Is there any paper on the transport path?

 \downarrow YES \rightarrow Remove the paper.

NO

Is the OCT feed sensor working?

(Perform the input check in the test mode: 03-[FAX]ON/[3]/[H])

Ι	NO →	1) Check if the connector of the OCT feed sensor is disconnected.
I		2) Check if either of the connectors CN260 or CN262 on the OCT board
I		is disconnected.
ļ		Check if the connector CN306 on the LGC board is disconnected.
I		 Check if the connector pins are disconnected and the harnesses are open circuited
		 5) Check if the conductor patterns on the OCT board and LGC board are short circuited or open circuited.
1		6) Replace the OCT feed sensor.
i		7) Replace the OCT board.
\mathbf{V}		8) Replace the LGC board.

YES

1) Replace the OCT board.

2) Replace the LGC board.

[EB50] Paper left on the transport path due to multiple feeding

In case the paper is fed from the upper drawer, bypass unit or ADU:

Open the transfer cover. Is there any paper in front of the registration sensor?

 \downarrow YES \rightarrow Remove the paper.

NO

<u>When t</u> Is the 1	<u>he paper is</u> st transpor	<u>s fed from the upper drawer:</u> t sensor working? (Perform the input check: 03-[FAX]OFF/[6]/[E])
	NO →	 Check if the connector of the 1st transport sensor is disconnected. Check if the connector CN305 on the LGC board is disconnected. Check if the connector pins are disconnected or the harnesses are open circuited. Check if the conductor pattern on the LGC board is short circuited or open circuited.
 ↓		5) Replace the 1st transport sensor.6) Replace the LGC board.

YES

When the paper is fed from	<u>the bypass feed unit:</u>	
Is the bypass paper sensor	working? (Perform the inp	<u>out check: 03-[FAX]ON/[1]/[D])</u>

		4) Obech if the connector of the human non-neuron is disconnected
I	NU →	1) Check if the connector of the bypass paper sensor is disconnected.
I		2) Check if the connector CN304 on the LGC board is disconnected.
I		3) Check if the connector pins are disconnected or the harnesses are
I		open circuited.
		4) Check if the conductor pattern on the LGC board is short circuited or
-		open circuited.
1		5) Replace the bypass paper sensor.
т Л		6) Replace the LGC board.
¥		

YES

When the paper is fed from the ADU: Is the ADU exit sensor working? (Perform the input check: 03-[FAX]OFF/[1]/[G])

 	NO →	 Check if the connector of the ADU exit sensor is disconnected. Check if either of the connectors CN562 or CN213 on the ADU board is disconnected.
 		 3) Check if the connector CN304 on the LGC board is disconnected. 4) Check if the connector pins are disconnected or the harnesses are open circuited.
 		 5) Check if the conductor patterns on the ADU board and LGC board are short circuited or open circuited. 6) Boalage the ADU exit senser.
		 7) Replace the ADU board. 8) Replace the LCC board.
 		o) Replace the LGC board.

YES

Is the registration sensor working?
(Perform the input check in the test mode: 03-[FAX]ON/[2]/[A])

	NO →	 Check if the connector of the registration sensor is disconnected. Check if the connector CN305 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.
\downarrow		6) Replace the LGC board.

YES

Check the rollers. Replace them if they are worn out.

In case the paper is fed from the lower drawer, PFP or LCF:

Open the transfer cover. Is there any paper in front of the 1st transport sensor?

 \downarrow YES \rightarrow Remove the paper.

NO

Are the 1st/2nd transport sensor working? (Perform the input check in the test mode: 03-[FAX]OFF/[6]/[E], /[7]/[E])

I	NO →	1) Check if the connector of the 1st/2nd transport sensor is disconnected.
I		2) Check if the connector CN305/CN304 on the LGC board is discon-
		nected.
I		 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.
I I		5) Replace the 1st/2nd transport sensor.
\checkmark		6) Replace the LGC board.

YES

Check the rollers. Replace them if they are worn out.

5

[EB60] Paper left on the transport path due to multiple feeding

Open the transfer cover. Is there any paper in front of the registration sensor?

 \downarrow YES \rightarrow Remove the paper.

NO

<u>Is the registration sensor working?</u> (Perform the input check in the test mode: 03-[FAX]OFF/[6]/[E])</u>

I	NO →	1) Check if the connector of the registration sensor is disconnected.
I		2) Check if the connector CN305 on the LGC board is disconnected.
I		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
i		open circuited.
i		5) Replace the registration sensor.
Ϋ́		6) Replace the LGC board.
•		

YES

Check the rollers. Replace them if they are worn out.
5.1.2 Paper misfeeding

[E110] ADU misfeeding

Open the transfer cover. Is there any paper in front of the 1st transport sensor?

 \downarrow YES \rightarrow Remove the paper.

NO

Is the 1st transport sensor working?

(Perform the input check in the test mode: 03-[FAX]OFF/[6]/[E])

l I	NO →	 Check if the connector of the 1st transport sensor is disconnected. Check if the connector CN305 on the LGC board is disconnected.
I		3) Check if the connector pins are disconnected and the harnesses are open circuited.
1		4) Check if the conductor pattern on the LGC board is short circuited or open circuited.
1		5) Replace the 1st transport sensor.
\downarrow		6) Replace the LGC board.
YES		
Is the A	DU clutch v	working? (Perform the output check in the test mode: 03-222)
Ι	NO →	1) Check if the connector of the ADU clutch is disconnected.
Ι		2) Check if the connector CN304 on the LGC board is disconnected.
I		3) Check if the connector pins are disconnected and the harnesses are
		open circuited

	open en euroa.
4)	Check if the conductor pattern on the LGC board is short circuited or
	open circuited.

- 5) Replace the ADU clutch.
- 6) Replace the LGC board.

YES

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I

 \downarrow

Check the rollers in the ADU. Replace them if they are worn out.

[E120] Bypass misfeeding

Open the transfer cover. Is there any paper in front of the 1st transport sensor?

 \downarrow YES \rightarrow Remove the paper.

NO

Is the 1st transport sensor working?

(Perform the input check in the test mode: 03-[FAX]ON/[6]/[E])

I	NO →	1) Check if the connector of the 1st transport sensor is disconnected.
I		2) Check if the connector CN305 on the LGC board is disconnected.
I		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.
i		5) Replace the 1st transport sensor.
ч Т		6) Replace the LGC board.
~		

YES

<u>Is the bypass feed clutch working? (Perform the output check in the test mode: 03-204)</u> <u>Is the bypass paper sensor working? (Perform the input check in the test mode: 03-[FAX]OFF/[1]/[D])</u>

	NO →	 Check if the connector of the bypass feed clutch and bypass paper sensor are 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 bypass feed clutch and bypass paper sensor. Replace the LGC board.
\mathbf{V}		

YES

Check the bypass transport, feed separation and pickup rollers. Replace them if they are worn out.

[E130] Upper drawer misfeeding (paper not reaching the 1st transport sensor)

Open the transfer cover. Is there any paper in front of the 1st transport sensor?

 \downarrow YES \rightarrow Remove the paper.

NO

Is the 1st transport sensor working?

(Perform the input check in the test mode: 03-[FAX]OFF/[6]/[E])

I	NO →	1) Check if the connector of the 1st transport sensor is disconnected.
1		2) Check if the connector CN305 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.
1		5) Replace the 1st transport sensor.
\downarrow		6) Replace the LGC board.
YES		
Is the up	per draw	er feed clutch working?

				•	
(Perform the	output c	heck in	the test	mode:	03-201)

	NO →	 Check if the connector of the upper drawer feed clutch is discon- nected.
		2) Check if the connector CN307 on the LGC board is disconnected.3) 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.

YES

Check the upper drawer feed roller, separation roller and pickup roller. Replace them if they are worn out.

[E140] Lower drawer misfeeding (paper not reaching the 2nd transport sensor)

Open the side cover. Is there any paper in front of the 2nd transport sensor?

\downarrow YES \rightarrow Remove the paper.

NO

Is the 2nd transport sensor working?

(Perform the input check in the test mode: 03-[FAX]OFF/[7]/[E])

Ι	NO →	1) Check if the connector of the 2nd transport sensor is disconnected.
I		2) Check if the connector CN304 on the LGC board is disconnected.
		 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.
ł		5) Replace the 2nd transport sensor.
\downarrow		6) Replace the LGC board.

YES

<u>Is the lower drawer feed clutch working?</u> (Perform the output check in the test mode: 03-202)

l I	NO →	 Check if the connector of the lower drawer feed clutch is discon- nected.
Ι		2) Check if the connector CN307 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.
ì		5) Replace the lower drawer feed clutch.
\mathbf{V}		6) Replace the LGC board.

YES

Check the lower drawer feed roller, separation roller and pickup roller. Replace them if they are worn out.

[E150] PFP upper drawer misfeeding (paper not reaching the PFP upper drawer feed sensor)

Open the PFP side cover. Is there any paper in front of the PFP upper drawer feed sensor?

 \downarrow YES \rightarrow Remove the paper.

NO

<u>Is the PFP upper drawer feed sensor working?</u> (Perform the input check in the test mode: 03-[FAX]OFF/[2]/[D])

l I	NO →	 Check if the connector of the PFP upper drawer feed sensor is dis- connected.
		2) Check if either of the connectors CN241 or CN243 on the PFP board is disconnected.
ļ		3) Check if the connector CN310 on the LGC board is disconnected.
		4) 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.
i		6) Replace the PFP upper drawer feed sensor.
Ì		7) Replace the PFP board.
\checkmark		8) Replace the LGC board.

YES

<u>Is the PFP upper drawer feed clutch working?</u> (Perform the output check in the test mode: 03-226)

 	NO →	 Check if the connector of the PFP upper drawer feed clutch is dis- connected.
		 Check if any of the connectors CN241, CN242 and CN247 on the PFP board is disconnected.
-		3) Check if the connector CN310 on the LGC board is disconnected.
		4) 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.
i		6) Replace the PFP upper drawer feed clutch.
Ì		7) Replace the PFP board.
$\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{$		8) Replace the LGC board.

YES

Check the PFP upper drawer feed roller, separation roller and pickup roller. Replace them if they are worn out.

[E160] PFP lower drawer misfeeding (paper not reaching the PFP lower drawer feed sensor)

Open the PFP side cover. Is there any paper in front of the PFP lower drawer feed sensor?

 \downarrow YES \rightarrow Remove the paper.

NO

<u>Is the PFP lower drawer feed sensor working?</u> (Perform the input check in the test mode: 03-[FAX]OFF/[4]/[D])

l I	NO →	 Check if the connector of the PFP lower drawer feed sensor is dis- connected.
		2) Check if either of the connectors CN241 or CN243 on the PFP board is disconnected.
		3) Check if the connector CN310 on the LGC board is disconnected.
		4) 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.
İ		6) Replace the PFP lower drawer feed sensor.
Ì		7) Replace the PFP board.
$\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{$		8) Replace the LGC board.

YES

Is the PFP lower drawer feed clutch working? (Perform the output check in the test mode: 03-228)

l I	NO →	 Check if the connector of the PFP lower drawer feed clutch is discon- nected.
l		 Check if any of the connectors CN241, CN242 and CN248 on the PFP board is disconnected.
		3) Check if the connector CN310 on the LGC board is disconnected.
		4) 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.
Ì		6) Replace the PFP lower drawer feed clutch.
Ì		7) Replace the PFP board.
\checkmark		8) Replace the LGC board.

YES

Check the PFP lower drawer feed roller, separation roller and pickup roller. Replace them if they are worn out.

[E190] LCF misfeeding (paper not reaching the LCF feed sensor)

Open the LCF side cover. Is there any paper in front of the LCF feed sensor?

YES \rightarrow Remove the paper. \mathbf{V}

NO

Is the LCF feed sensor working? (Perform the input check in the test mode: 03-[FAX]OFF/[5]/[G])

	NO →	 Check if the connector of the LCF feed sensor is disconnected. Check if either of the connectors CN100 or CN104 on the LCF board 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 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.
YES		
<u>Is the L</u>	CF feed clu	tch working? (Perform the output check in the test mode: 03-209)
	NO →	 Check if the connector of the LCF feed clutch is disconnected. Check if any of the connectors CN100, CN101 and CN103 on the LCF board 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 patterns on the LCF board and LGC board are short circuited or open circuited. Replace the LCF feed clutch.

- 6) Replace the LCF feed clutch.
- 7) Replace the LCF board.
 - 8) Replace the LGC board.

YES

Т

 $\mathbf{1}$

Check the LCF feed roller, separation roller and pickup roller. Replace them if they are worn out.

5.1.3 Cover open jam

[E400] Transfer cover opened during printing

Is the transfer cover open?

 \downarrow YES \rightarrow Remove paper if there is any, then close the cover.

NO

```
<u>Is the transfer cover opening/closing switch working?</u>
(Perform the input check in the test mode: 03-[FAX]ON/[2]/[G])
```

I	NO →	1) Check if the connector of the transfer cover opening/closing switch is disconnected
i		 2) Check if the connector CN305 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 front cover opening/closing switch.6) Replace the LGC board.
YES		

Replace the LGC board.

Is the voltage of 24V being supplied from the power supply	<u>unit?</u>
(Perform the input check in the test mode: 03-[FAX] ON/[1]	/[C])

Ι	NO →	1) Check if the connector for 24 V power supply is disconnected.
I		2) Check if the connector CN305 on the LGC board is disconnected.
I		3) Check if the connector pins are disconnected and the harnesses are
I		open circuited.
		4) Check if the conductor pattern on the LGC board is short circuited or
1		open circuited.
1		5) Replace the LGC board.
\mathbf{v}		

YES

Replace the LGC board.

[E410] Front cover opened during printing

Is the front cover open?

YES \rightarrow Close the cover. $\mathbf{1}$

NO

Is the front cover opening/closing switch working? (Perform the input check in the test mode: 03-[FAX]ON/[2]/[D])

	NO → 1) 2)	Check if the connector of the front cover opening/closing switch is disconnected. Check if the connector CN303 on the LGC board is disconnected.
į	3)	open circuited.
	4)	Check if the conductor pattern on the LGC board is short circuited or open circuited.
1	5)	Replace the front cover opening/closing switch.
\checkmark	6)	Replace the LGC board.
YES		
Is the vol	tage of 24V	being supplied from the power supply unit?
(Perform	the input che	eck in the test mode: 03-[FAX] ON/[1]/[C])

5) Replace the LGC board.		NO →	 Check if the connector for 24 V power supply 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.
\mathbf{V}	∣ ↓		5) Replace the LGC board.

YES

Replace the LGC board.

5

[E420] PFP side cover opened during printing

Is the PFP side cover open?

 \downarrow YES \rightarrow Remove the paper if there is any, then close the cover.

NO

<u>Is the PFP side cover opening/closing switch working?</u> (Perform the input check in the test mode: 03-[FAX]OFF/[2]/[F])

 	NO →	 Check if the connector of the PFP side cover opening/closing switch is disconnected.
		2) Check if either of the connectors CN241 or CN243 on the PFP board is disconnected.
I		3) Check if the connector CN310 on the LGC board is disconnected.
		4) 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.
i		6) Replace the PFP side cover opening/closing switch.
1		7) Replace the PFP board.
$\mathbf{\Lambda}$		8) Replace the LGC board.

YES

- 1) Replace the PFP board.
- 2) Replace the LGC board.

[E430] ADU opened during printing

Is the ADU open?

 \downarrow YES \rightarrow Remove the paper if there is any, then close the ADU.

NO

Is the ADU opening/closing switch working? (Perform the input check in the test mode: 03-[FAX]OFF/[1]/[F])

l I	NO →	 Check if the connector of the ADU opening/closing switch is discon- nected.
		2) Check if either of the connectors CN562 or CN217 on the ADU board is disconnected.
ļ		3) Check if the connector CN304 on the LGC board is disconnected.
		4) Check if the connector pins are disconnected and the harnesses are open circuited.
 		 Check if the conductor patterns on the ADU board and LGC board are short circuited or open circuited.
Ì		6) Replace the ADU opening/closing switch.
Ì		7) Replace the ADU board.
\checkmark		8) Replace the LGC board.

YES

1) Replace the ADU board.

2) Replace the LGC board.

[E440] Side cover opened during printing

Is the side cover open?

 \downarrow YES \rightarrow Remove the paper if there is any, then close the cover.

NO

<u>Is the side door switch working?</u> (Perform the input check in the test mode: 03-[FAX]ON/[2]/[F])

I	NO →	1) Check if the connector of the side door switch is disconnected.
Ι		2) Check if the connector CN304 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.
1		5) Replace the side door switch.
\downarrow		6) Replace the LGC board.

YES

Replace the LGC board.

[E450] LCF side cover opened during printing

Is the LCF side cover open?

 \downarrow YES \rightarrow Remove the paper if there is any, then close the cover.

NO

<u>Is the LCF side cover opening/closing switch working?</u> (Perform the input check in the test mode: 03-[FAX]OFF/[5]/[D])

l I	NO →	 Check if the connector of the LCF side cover opening/closing switch is disconnected.
l I		 Check if either of the connectors CN100 or CN106 on the LCF board 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.
 		5) Check if the conductor patterns on the LCF board and LGC board are short circuited or open circuited.
i		6) Replace the LCF side cover opening/closing switch.
Ι		7) Replace the LCF board.
\checkmark		8) Replace the LGC board.

YES

1) Replace the LCF board.

2) Replace the LGC board.

[E480] Bridge unit opened during printing

Is the bridge unit open?

 \downarrow YES \rightarrow Remove the paper if there is any, then close the unit.

NO

```
<u>Is the bridge unit opening/closing switch working?</u>
(Perform the input check in the test mode: 03-[FAX]ON/[3]/[F])
```

I	NO \rightarrow	1) Check if the connector of the bridge unit opening/closing switch is
I		disconnected.
I		2) Check if the connector CN306 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 bridge unit opening/closing switch.6) Replace the LGC board.

YES

Replace the LGC board.

[E490] JSP cover opened during printing

Is the JSP cover open?

 \downarrow YES \rightarrow Remove the paper if there is any, then close the cover.

NO

<u>Is the JSP cover switch working?</u> (Perform the input check in the test mode: 03-[FAX]ON/[3]/[F])

I	NO \rightarrow	1) Check if the connector of the JSP cover switch is disconnected.
1		2) Check if either of the connectors CN260 or CN261 on the JSP board
1		is disconnected.
		Check if the connector CN306 on the LGC board is disconnected.
		 Check if the connector pins are disconnected and the harnesses are open circuited.
		5) Check if the conductor patterns on the JSP board and LGC board are short circuited or open circuited.
i		6) Replace the JSP cover switch.
i		7) Replace the JSP board.
\checkmark		8) Replace the LGC board.

YES

- 1) Replace the JSP board.
- 2) Replace the LGC board.

[E491] OCT cover opened during printing

Is the OCT cover open?

 \downarrow YES \rightarrow Remove the paper if there is any, then close the cover.

NO

<u>Is the OCT cover switch working?</u> (Perform the input check in the test mode: 03-[FAX]ON/[3]/[F])

	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.
i		IS disconnected.
i		3) Check if the connector CN306 on the OCT board is disconnected.
İ		 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.
I		6) Replace the OCT cover switch.
i		Replace the OCT board.
\checkmark		8) Replace the LGC board.

YES

1) Replace the OCT board.

2) Replace the LGC board.

5.1.4 Transport jam (RADF)

Note:

When performing the RADF related troubleshooting, be sure to perform "Automatic adjustment of RADF sensor and EEPROM initialization (05-356)" and "RADF original guide width adjustment (05-367/368)" consecutively at the Adjustment Mode whenever the RADF board, original length sensor, read sensor or reverse sensor has been replaced.

- [E711] Jam not reaching the original length sensor
- [E712] Jam not reaching the registration sensor

[E713] Stop jam at the original length sensor

Are the pickup roller, feed roller and separation roller stained or worn out?

 \downarrow YES \rightarrow Clean the rollers or replace them.

NO

Is the original excessively curled or folded?

 \downarrow YES \rightarrow Flatten and set it again.

NO

<u>Are the original length sensor and registration sensor working?</u> (Perform the input check: 03-[FAX]ON/[8]/[E], /[7]/[H])

l I	NO →	1) Check if the connectors of the original length sensor and registration sensor are disconnected.
I		2) Check if the connector CN3 on the RADF board is disconnected.
 		 3) Check if the connector pins are disconnected or the harnesses are open circuited. 4) Check if the conductor pattern on the DADE board is chert circuited.
l		 Check if the conductor pattern on the RADF board is short circuited or open circuited.
1		5) Replace the original length sensor and registration sensor.
\downarrow		6) Replace the RADF board.

YES

[E714] Feed signal reception jam

Is the empty sensor working? (Perform the input check: 03-[FAX]ON/[7]/[B])

	NO →	 Check if the lever of empty sensor is working normally. Check if the connector of the empty sensor is disconnected. Check if the connector CN5 on the RADF board is disconnected. Check if the connector pins are disconnected or the harnesses are open circuited. Check if the conductor pattern on the RADF board is short circuited or open circuited. Replace the empty sensor.
1		6) Replace the empty sensor.
\downarrow		7) Replace the RADF board.

YES

Replace the RADF board.

[E721] Jam not reaching the read sensor

Are the registration roller and read roller stained?

 \downarrow YES \rightarrow Clean the rollers.

NO

Is the read sensor working? (Perform the input check: 03-[FAX]ON/[7]/[G])

Ι	NO →	1) Check if the connector of the read sensor are disconnected.
I		2) Check if the connector CN6 on the RADF board is disconnected.
		3) Check if the connector pins are disconnected or the harnesses are
1		open circuited.
i i		4) Check if the conductor pattern on the RADF board is short circuited
i		or open circuited.
1		5) Replace the read sensor.
\downarrow		6) Replace the RADF board.

YES

Replace the RADF board.

5

[E722] Jam not reaching the exit sensor (during scanning)

[E723] Jam not reaching the reverse sensor (during scanning)

Is the read roller stained?

 \downarrow YES \rightarrow Clean the roller.

NO

Are the exit sensor and reverse sensor working?	
(Perform the input check: 03-[FAX]ON/[7]/[E], /[7]/[F]))

NO \rightarrow	1) Check if the connectors of the exit sensor and reverse sensor are
	disconnected.
	2) Check if the connector CN4 on the RADF board is disconnected.
	3) Check if the connector pins are disconnected or the harnesses are
	open circuited.
	4) Check if the conductor pattern on the RADF board is short circuited or open circuited.
	Replace the exit sensor and reverse sensor.
	6) Replace the RADF board.
	NO →

YES

Replace the RADF board.

[E724] Stop jam at the registration sensor

Is the registration roller stained?

 \downarrow YES \rightarrow Clean the roller.

NO

Is the registration sensor working? (Perform the input check: 03-[FAX]ON/[7]/[H])

I	NO →	1) Check if the connector of the registration sensor is disconnected.
I		2) Check if the connector CN3 on the RADF board is disconnected.
		3) Check if the connector pins are disconnected or the harnesses are open circuited.
		4) Check if the conductor pattern on the RADF board is short circuited or open circuited.
1		5) Replace the registration sensor.
\downarrow		6) Replace the RADF board.

YES

[E725] Stop jam at the read sensor

Is the read roller stained?

 \downarrow YES \rightarrow Clean the roller.

NO

Is the read sensor working? (Perform the input check: 03-[FAX]ON/[7]/[G])

Ι	NO →	 Check if the connector of the read sensor is disconnected.
I		2) Check if the connector CN6 on the RADF board is disconnected.
 		3) Check if the connector pins are disconnected or the harnesses are open circuited
 ↓		 Check if the conductor pattern on the RADF board is short circuited or open circuited. Replace the read sensor. Replace the RADF board.

YES

Replace the RADF board.

[E726] Transport/exit signal reception jam

- (1) If the original remains in the RADF, remove it.
- (2) If any paper remains in the equipment, remove it.
- (3) Turn the power OFF and then back ON. If the jam still occurs, lead the following procedure.
- (4) Check the connection between the RADF board and SLG board, and the connection between the RADF board and switching power supply.
 - Are the connection of the connectors and joint connectors normal?
 - Are the connector pins disconnected or are the harnesses open circuited?
- (5) Check if the 24V and 5V outputs of the switching power supply are normal.
- (6) Check if the conductor pattern on the RADF board is short circuited or open circuited.
- (7) Replace the RADF board.
- (8) Check if the conductor pattern on the SLG board is short circuited or open circuited.
- (9) Replace the SLG board.

5

[E731] Stop jam at the exit sensor

Is the exit roller stained?

 \downarrow YES \rightarrow Clean the roller.

NO

Is the exit sensor working? (Perform the input check: 03-[FAX]ON/[7]/[E])

I	NO \rightarrow	 Check if the connector of the exit sensor is disconnected.
I		2) Check if the connector CN4 on the RADF board is disconnected.
l l		3) Check if the connector pins are disconnected or the harnesses are open circuited.
		4) Check if the conductor pattern on the RADF board is short circuited or open circuited.
-		5) Replace the exit sensor.
\downarrow		6) Replace the RADF board.

YES

Replace the RADF board.

[E741] Stop jam at the reverse sensor

Are the read roller and reverse roller stained?

 \downarrow YES \rightarrow Clean the rollers.

NO

Is the reverse sensor working? (Perform the input check: 03-[FAX]ON/[7]/[F])

	NO →	 Check if the connector of the reverse sensor is disconnected. Check if the connector CN4 on the RADF board is disconnected. Check if the connector pins are disconnected or the harnesses are open circuited. Check if the conductor pattern on the RADF board is short circuited or open circuited.
i		 Check if the conductor pattern on the RADF board is short circuited or open circuited.
		5) Replace the reverse sensor.
\checkmark		6) Replace the RADF board.

YES

[E742] Jam not reaching the reverse sensor (feeding in reverse)

Is the reverse roller stained?

 \downarrow YES \rightarrow Clean the roller.

NO

Is the reverse sensor working? (Perform the input check: 03-[FAX]ON/[7]/[F])

Ι	NO \rightarrow	 Check if the connector of the reverse sensor is disconnected.
I		2) Check if the connector CN4 on the RADF board is disconnected.
		3) Check if the connector pins are disconnected or the harnesses are open circuited.
		4) Check if the conductor pattern on the RADF board is short circuited or open circuited.
1		5) Replace the reverse sensor.
\downarrow		6) Replace the RADF board.

YES

Replace the RADF board.

[E743] Jam not reaching the exit sensor (feeding in reverse)

Are the reverse roller and read roller stained?

 \downarrow YES \rightarrow Clean the rollers.

NO

Is the exit sensor working? (Perform the input check: 03-[FAX]ON/[7]/[E])

I	NO \rightarrow	 Check if the connector of the exit sensor is disconnected.
I		2) Check if the connector CN4 on the RADF board is disconnected.
		3) Check if the connector pins are disconnected or the harnesses are open circuited
		 4) Check if the conductor pattern on the RADF board is short circuited or open circuited.
		5) Replace the exit sensor.6) Replace the RADF board.
\mathbf{V}		, ,

YES

[E860] RADF jam access cover open

Is the RADF jam access cover opened?

 \downarrow YES \rightarrow Remove the original, if any, and close the RADF jam access cover.

NO

Is the RADF jam access cover switch working? (Perform the input check: 03-[FAX]ON/[7]/ [C])

Ι	NO →	1) Check if the connector of the RADF jam access cover switch is dis-
I		connected.
I		2) Check if the connector CN8 on the RADF board is disconnected.
I		3) Check if the connector pins are disconnected or the harnesses are
ļ		open circuited.
1		4) Check if the conductor pattern on the RADF board is short circuited
1		or open circuited.
1		5) Replace the RADF jam access cover switch.
L.		6) Replace the RADF board.
v		, .

YES

Replace the RADF board.

[E870] RADF open jam

Is the RADF opened?

 \downarrow YES \rightarrow Remove the original, if any, and close the RADF.

NO

Is the RADF opening/closing sensor adjusted within the specified range?

 \downarrow NO \rightarrow Adjust the RADF opening/closing sensor.

YES

<u>Is the RADF opening/closing sensor working?</u> (Perform the input check: 03-[FAX]ON/[7]/[D])

 	NO →	 Check if the connector of the RADF opening/closing sensor is dis- connected.
·		 2) Check if the connector CN6 on the RADF board is disconnected. 3) Check if the connector pins are disconnected or the harnesses are open circuited. 4) Check if the conductor pattern on the RADF board is short circuited or open circuited. 5) Replace the RADF opening/closing sensor. 6) Replace the RADF board.

YES

5.1.5 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
- [E930] Paper not reaching the bridge unit transport sensor-2
- [E940] Paper stopping at the bridge unit transport sensor-2

Is there any paper remaining inside the bridge unit?

 \downarrow YES \rightarrow Remove the paper.

NO

<u>Are the bridge unit transport sensors-1 and -2 working?</u> (Perform the input check: 03-[FAX]ON/[3]/[H], /[3]/[E])

	NO → 1 2 3 4 5 6) Check if the connectors of the bridge unit transport sensors-1 and -2 are disconnected.) Check if the connector J512 of the bridge unit is disconnected.) Check if the connector CN306 on the LGC board is disconnected.) Check if the connector pins are disconnected or the harnesses are open circuited. i) Check if the conductor pattern on the LGC board is short circuited or open circuited. i) Replace the bridge unit transport sensors-1 and -2. i) Replace the LGC board
\checkmark	1	
YES		
<u>Is the b</u>	ridge unit gat	e solenoid working? (Perform the output check: 03-232)
	NO → 1 2 3 4 5) Check if the connector J512 of the bridge unit is disconnected.) Check if the connector CN306 on the LGC board is disconnected.) Check if the connector pins are disconnected or the harnesses are open circuited.) Replace the bridge unit gate solenoid. i) Replace the LGC board.

YES

Does the transport roller of the bridge unit work when the main motor is rotated? (Perform the output check: 03-101/151)

 \downarrow NO \rightarrow Check the drive system of the equipment and bridge unit.

YES

Check the roller in the bridge unit. Replace it if it is worn out.

[2] Paper jam in puncher unit

[E9F0] Punching jam

<u>MJ-1025</u>

Is there any paper remaining on the transport path in the finisher or equipment?

 \downarrow YES \rightarrow Remove the paper.

NO

<u>Is the connector J1006 on the punch controller PC board disconnected?</u> <u>Is the harness connecting the punch controller PC board and punch home position sensor</u> (PI1P) open circuited?

 \downarrow YES \rightarrow Connect the connector securely. Replace the harness.

NO

Is the punch home position sensor working properly?

I	NO \rightarrow	1) Connect the connector of the punch home position sensor securely.
\checkmark		Replace the punch home position sensor.

YES

Replace the punch controller PC board.

[3] Paper jam in finisher section

[EA10] Paper transport delay jam

<u>MJ-1022</u>

Is there any paper remaining on the transport path in the finisher or equipment?

 \downarrow YES \rightarrow Remove the paper.

NO

<u>Is the connector J10 on the finisher controller PC board disconnected?</u> <u>Is the harness connecting the finisher controller PC board and inlet sensor (S2) open circuited?</u>

 \downarrow YES \rightarrow Connect the connector securely. Replace the harness.

NO

Is the inlet sensor working normally? (Check the movement of the actuator.)

I	NO →	1) Connect the connector of the inlet sensor securely.
I		2) Attach the actuator securely if its shaft is out of place.
\checkmark		Replace the inlet sensor.

YES

Replace the finisher controller PC board.

<u>MJ-1025</u>

Is there any paper remaining on the transport path in the finisher or equipment?

 \downarrow YES \rightarrow Remove the paper.

NO

Is the connector CN16 (inlet sensor) on the finisher controller PC board disconnected? Is the harness connecting the finisher controller PC board and inlet sensor open-circuited?

 \downarrow YES \rightarrow Connect the connector securely. Replace the harness.

NO

Is the inlet sensor working normally? (Check the movement of the actuator.)

I	NO →	1) Attach the actuator securely if its shaft is out of place.
\mathbf{V}		2) Replace the sensor.

YES

[EA20] Paper transport stop jam

<u>MJ-1022</u>

Is there any paper remaining on the transport path in the finisher or equipment?

 \downarrow YES \rightarrow Remove the paper.

NO

Is the connector J10 on the finisher controller PC board disconnected? Is the harness connecting the finisher controller PC board and inlet sensor (S2) open circuited?

 \downarrow YES \rightarrow Connect the connector securely. Replace the harness.

NO

Is the inlet sensor working properly? (Check the movement of the actuator.)

Ι	NO →	1) Connect the connector of the inlet sensor securely.
Ι		2) Attach the actuator securely if its shaft is out of place.
\checkmark		3) Replace the inlet sensor.

YES

Replace the finisher controller PC board.

<u>MJ-1025</u>

Is there any paper remaining on the transport path in the finisher?

 \downarrow YES \rightarrow Remove the paper.

NO

Is the connector CN16 (inlet sensor) on the finisher controller PC board disconnected? Is the harness connecting the finisher controller PC board and inlet sensor open-circuited?

 \downarrow YES \rightarrow Connect the connector securely. Replace the harness.

NO

Is the inlet sensor working normally? (Check the movement of the actuator.)

Ι	NO →	1) Attach the actuator securely if its shaft is out of place.
\mathbf{V}		2) Replace the sensor.

YES

[EA30] Power-ON jam

MJ-1022

Is there any paper remaining on the transport path in the finisher?

 \downarrow YES \rightarrow Remove the paper.

NO

Is the connector J10 on the finisher controller PC board disconnected? Is the harness connecting the finisher controller PC board and inlet sensor (S2) open circuited?

 \downarrow YES \rightarrow Connect the connector securely. Replace the harness.

NO

Is the inlet sensor working properly? (Check the movement of the actuator.)

I	NO →	1) Connect the connector of the inlet sensor securely.
Ι		2) Attach the actuator securely if its shaft is out of place.
\checkmark		Replace the inlet sensor.

YES

Replace the finisher controller PC board.

<u>MJ-1025</u>

Is there any paper remaining on the transport path in the finisher or equipment?

 \downarrow YES \rightarrow Remove the paper.

NO

Is the connector CN16 (inlet sensor, folding position sensor) on the finisher controller PC board disconnected?

Is the connector J1007 (photosensor PC board) on the punch controller PC board disconnected?

Is the harness between the finisher controller PC board and each sensor (inlet sensor, folding position sensor, and punch controller PC board open-circuited?

Is the harness connecting the punch controller PC board and photosensor PC board opencircuited?

 \downarrow YES \rightarrow Connect the connector securely. Replace the harness.

NO

Are the inlet sensor and holding position sensor working properly? Is the photosensor PC board working properly?

I	NO \rightarrow	1) Attach the actuator securely if its shaft is out of place.
\checkmark		2) Replace the sensor.

YES

Replace the finisher controller PC board. Replace the punch controller PC board.

[EA40] Finisher front door open jam

<u>MJ-1022</u>

Is there any paper remaining on the transport path in the finisher or equipment?

 \downarrow YES \rightarrow Remove the paper.

NO

Is the finisher connected with the equipment?

 \downarrow NO \rightarrow Connect the finisher with the equipment.

YES

Is the connector J11 on the finisher controller PC board disconnected? Is the harness connecting the finisher controller PC board and joint sensor (S4) open circuited?

 \downarrow YES \rightarrow Connect the connector securely. Replace the harness.

NO

Is the joint sensor working properly?

Ι	NO \rightarrow	1) Connect the connector of the joint sensor securely.

↓ 2) Replace the joint sensor.

YES

Replace the finisher controller PC board.

<u>MJ-1025</u>

Is the finisher connected with the equipment? Are the upper cover and front door of the finisher closed?

- I YES \rightarrow 1) Connect the finisher with the equipment.
- ↓ 2) Close the cover and door of the finisher.

NO

Is any of the connectors CN4 (upper cover sensor and front door sensor) and CN8 (joint switch) on the finisher controller PC board disconnected?

Is the harness connecting the finisher controller PC board and each sensor (upper cover sensor or front door sensor) open-circuited?

Is the harness connecting the finisher controller PC board and joint switch (MS2) open-circuited?

 \downarrow YES \rightarrow Connect the connector securely. Replace the harness.

NO

Are the joint switch, upper cover sensor and front door sensor working properly?

↓ NO → 1) Attach the actuator securely if its shaft is out of place.
 2) Replace the switch or sensor.

YES

[EA50] Stapling jam

<u>MJ-1022</u>

Is there any paper remaining on the transport path in the finisher or equipment or on the stapling tray?

 \downarrow YES \rightarrow Remove the paper.

NO

Is the jam cleared by taking off the staple cartridge from the finisher and removing the staple sheet slid from the staple case?

 \downarrow YES \rightarrow End.

NO

Is the connector J8 on the finisher controller PC board disconnected? Is the harness connecting the finisher controller PC board and stapling home position sensor (S17) open circuited?

 \downarrow YES \rightarrow Connect the connector securely. Replace the harness.

NO

Is the stapling home position sensor working properly?

Ι	NO \rightarrow	1) Connect the connector of the stapling home position sensor securely.
\checkmark		Replace the stapling home position sensor.

YES

Replace the finisher controller PC board.

<u>MJ-1025</u>

Is there any paper remaining on the stapling tray?

 \downarrow YES \rightarrow Remove the paper.

NO

Open the front door. Is the stapler home position mark blue?

 \downarrow YES \rightarrow Rotate the stapler opening dial until the home position mark turns blue.

NO

Is any of the connectors CN11 (slide home position sensor), CN8 (stapler safety switch) and CN6 (staple/fold motor) on the finisher controller PC board disconnected? Is the stapler unit installed securely?

Is the harness connecting the finisher controller PC board and slide home position sensor open-circuited?

Is the harness connecting the finisher controller PC board and stapler safety switch opencircuited?

 \downarrow YES \rightarrow Connect the connector securely. Replace the harness.

NO

Are the slide home position sensor and stapler safety switch working properly?

I NO \rightarrow 1) Replace the stapler unit.

2) Replace the stapler safety switch.

YES

[EA60] Early arrival jam

<u>MJ-1022</u>

Is there any paper remaining on the transport path in the finisher or equipment?

 \downarrow YES \rightarrow Remove the paper.

NO

<u>Is the connector J10 on the finisher controller PC board disconnected?</u> <u>Is the harness connecting the finisher controller PC board and inlet sensor (S2) open circuited?</u>

 \downarrow YES \rightarrow Connect the connector securely. Replace the harness.

NO

Is the inlet sensor working properly? (Check the movement of the actuator.)

Ι	NO \rightarrow	1) Connect the connector of the inlet sensor securely.
Ι		2) Attach the actuator securely if its shaft is out of place.
\checkmark		3) Replace the inlet sensor.

YES

[EA70] Stack delivery jam

MJ-1022

Is there any paper remaining on the transport path in the finisher or equipment?

YES \rightarrow Remove the paper. $\mathbf{1}$

NO

Is the connector J9 on the finisher controller PC board disconnected? Is the harness connecting the finisher controller PC board and stack delivery lever home position sensor (S8) open circuited?

 $\mathbf{1}$ YES \rightarrow Connect the connector securely. Replace the harness.

NO

Is the stack delivery lever home position sensor working properly?

I $NO \rightarrow$ 1) Connect the connector of the stack delivery lever home position sen-I sor securely. $\mathbf{1}$

2) Replace the stack delivery lever home position sensor.

YES

Replace the finisher controller PC board.

MJ-1025

Is there any paper remaining on the stapling trav?

YES \rightarrow Remove the paper. $\mathbf{1}$

NO

Are the paper on the stack tray and the latches of the stack delivery belt contacting each other?

 \mathbf{v} YES \rightarrow Remove the paper on the stack tray.

NO

Is any of the connectors CN5 (delivery belt home position sensor), CN13 (delivery motor) on the finisher controller PC board disconnected?

Is the harness connecting the finisher controller PC board and delivery belt home position sensor open-circuited?

Is the harness connecting the finisher controller PC board and delivery motor open-circuited?

YES \rightarrow Connect the connector securely. Replace the harness. $\mathbf{1}$

NO

Is the delivery belt home position sensor working properly?

Replace the sensor. NO \rightarrow $\mathbf{1}$

YES

Is the delivery motor working properly?

 $\mathbf{1}$ NO \rightarrow Replace the motor.

YES

Rotate the delivery motor by hand. Is there any mechanical problem with the rotation of the stack delivery belt?

Are the latches of the stack delivery belt damaged?

YES \rightarrow Fix the mechanism. $\mathbf{1}$

NO

Replace the finisher controller PC board.

5

[EAF0] Stack return jam

<u>MJ-1022</u>

Is there any paper remaining on the transport path in the finisher or equipment?

 \downarrow YES \rightarrow Remove the paper.

NO

<u>Is the connector J10 on the finisher controller PC board disconnected?</u> <u>Is the harness connecting the finisher controller PC board and returning roller home position</u> <u>sensor (S3) open circuited?</u>

 \downarrow YES \rightarrow Connect the connector securely. Replace the harness.

NO

Is the returning roller home position sensor working properly?

I	NO →	1) Connect the connector of the returning roller home position sensor
Ι		securely.
\checkmark		Replace the returning roller home position sensor.

YES

[4] Paper jam in saddle stitcher section

[EAB0] Saddle paper transport stop jam

<u>MJ-1025</u>

Is there any paper remaining on the paper transport path in the saddle stitcher section in the finisher?

 \downarrow YES \rightarrow Remove the paper.

NO

Is the connector CN16 (folding position sensor) on the finisher controller PC board disconnected?

Is the harness connecting the finisher controller PC board and folding position sensor opencircuited?

 \downarrow YES \rightarrow Connect the connector securely. Replace the harness.

NO

Is the folding position sensor working properly?

 \downarrow NO \rightarrow Replace the sensor.

YES

Replace the finisher controller PC board.

[EAC0] Saddle transport delay jam

<u>MJ-1025</u>

Is there any paper remaining on the paper transport path in the saddle stitcher section in the finisher?

 \downarrow YES \rightarrow Remove the paper.

NO

Is the connector CN16 (folding position sensor) on the finisher controller PC board disconnected?

Is the harness connecting the finisher controller PC board and folding position sensor opencircuited?

 \downarrow YES \rightarrow Connect the connector securely. Replace the harness.

NO

Is the folding position sensor working properly?

 \downarrow NO \rightarrow Replace the sensor.

YES

[5] Other paper jam

[EAD0] Print end command time-out jam

Is the main motor rotating normally?

 \downarrow

NO

- 1) Replace the SYS board.
- 2) Replace the LGC board.

[EAE0] Receiving time time-out jam

Is the finisher working?

 \downarrow YES \rightarrow Replace the finisher controller PC board.

NO

- 1) Check if the voltage (24V) is being supplied to the finisher.
- 2) Check the connection of the LGC board and IPC board.
- 3) Check if the harness connecting the IPC board and finisher I/F connector of the equipment side is open circuited.
- 4) Check if the harness connecting the I/F connector of the finisher side and finisher controller PC board is open circuited.
- 5) Replace the finisher controller PC board.

[EB30] Ready time time-out jam

Is there paper in the equipment?

 \downarrow NO \rightarrow Replace the LGC board.

YES

Are the IPC board and LGC board properly connected to each other?

 \downarrow NO \rightarrow Connect them properly.

YES

Is the harness securely connected to the IPC board?

 \downarrow NO \rightarrow Connect the harness properly.

YES

Is any of the connector pins of the harness connecting the equipment and finisher disconnected or any of those harnesses open circuited?

 \downarrow NO \rightarrow Connect the pin or replace the harness.

YES

- 1) Replace the IPC board.
- 2) Replace the LGC board.
- 3) Replace the finisher controller PC board.

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5.1.6 Drive system related service call

[C010] Main motor is abnormal

Is the main motor working? (Perform the output check in the test mode: 03-101/151)

	NO →	1) Check if the connector CN1 of the main motor is disconnected.
!		2) Check if the connector CN305 on the LGC board is disconnected.
		 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.

YES

Is the LED on the main motor board lit without flickering?

I NO →	1) Check if the connector pins are disconnected and the harnesses are open circuited.
	 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.

YES

- 1) Check if the PLL lock signal CN305-B8 output from the LGC board is always level "L"?
- 2) Check if the voltage supplied to the CPU input terminal IC24-12 is always "L"?

3) Replace the LGC board.

5

5.1.7 Paper feeding system related service call

[C040] PFP motor is abnormal

Is the PFP motor working? (Perform the output check in the test mode: 03-109/159)

	NO →	1) Check if the signal line connector CN503 of the PFP motor is discon- nected
l		2) Check if the power line connector CN502 of the PFP motor is disconnected
 		3) Check if the connector CN246 on the PFP board is disconnected.4) Check if the signal line connector CN241 on the PFP board is discon-
 		nected.5) Check if the power line connector CN242 on the PFP board is disconnected.
, 		 6) Check if the connector CN310 on the LGC board is disconnected. 7) Check if the connector pins are disconnected and the harnesses are open circuited
 		 8) Check if the conductor patterns on the PFP motor board, PFP board and LGC board are short circuited or open circuited. 2) Declare the PFP motor.
- - ↓		9) Replace the PEP motor.10)Replace the PEP board.11)Replace the LGC board.
~		

YES

Is the LED on the PFP motor board lit without flickering?

 	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.
 ↓		 Replace the PFP motor. Replace the PFP board. Replace the LGC board.

YES

- 1) Check if the PLL lock signal CN246-8 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.

[C130] Upper drawer tray is abnormal

[C140] Lower drawer tray is abnormal

Does the tray go up? (Perform the output check in the test mode: 03-242/243)

I	NO →	 Check if the connector of the tray-up motor is disconnected.
I		2) Check if the connector CN307 on the LGC board is disconnected.
l		 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.
\downarrow		5) Replace the LGC board.
2		

YES

<u>Is the tray-up sensor working?</u> (Perform the input check in the test mode: 03-[FAX]OFF/[6]/[H], /[7]/[H])</u>

I	NO →	 Check if the connector of the sensor is disconnected.
I		2) Check if the connector CN307 on the LGC board is disconnected.
I		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.
\downarrow		6) Replace the LGC board.

YES

1) Check if the conductor pattern on the LGC board is short circuited or open circuited.

2) Replace the LGC board.

[C150] PFP upper drawer tray is abnormal

[C160] PFP lower drawer tray is abnormal

Does the tray go up? (Perform the output check in the test mode: 03-278/280)

Ι	NO →	1) Check if the connector of the tray-up motor is disconnected.
I		2) Check if any of the connectors CN241, CN242 and CN244 on the
I		PFP board is disconnected.
1		Check if the connector CN310 on the LGC board is disconnected.
		4) 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.
i		6) Replace the PFP board.
\mathbf{V}		7) Replace the LGC board.

YES

Is the tray-up sensor working?

(Perform the input check in the test mode: 03-[FAX]OFF/[2]/[H], /[4]/[H])

Ι	NO →	 Check if the connector of the sensor is disconnected.
Ι		2) Check if any of the connectors CN241, CN247 and CN248 on the
Ι		PFP board is disconnected.
I		3) Check if the connector CN310 on the LGC board is disconnected.
ļ		4) Check if the slit reaches the sensor.
l I		5) Check if the connector pins are disconnected and the harnesses are
I		6) Check if the conductor patterns on the PEP board and LGC board
		are short circuited or open circuited
1		7) Replace the PEP hoard
1		8) Replace the LGC board
1		
$\mathbf{\Psi}$		

YES

1) Check if the conductor pattern on the LGC board is short circuited or open circuited.

2) Replace the LGC board.
[C180] LCF tray-up motor is abnormal

Does the tray move? (Perform the output check in the test mode: 03-271)

I	NO →	1) Check if the connector of the LCF tray-up motor is disconnected.
I		2) Check if any of the connectors CN100, CN101 and CN103 on the
I		LCF board is disconnected.
ļ		3) Check if the connector CN310 on the LGC board is disconnected.
		4) Check if the connector pins are disconnected and the harnesses are
1		open circuited.
1		5) Check if the conductor patterns on the LCF board and LGC board are
i		short circuited or open circuited.
i		6) Replace the LCF board.
\mathbf{V}		7) Replace the LGC board.

YES

<u>Are the LCF tray bottom sensor and LCF tray-up sensor working?</u> (Perform the input check in the test mode: 03-[FAX]OFF/[5]/[F], /[3]/[A])

Ι	NO →	 Check if the connectors of the sensors are disconnected.
Ι		2) Check if any of the connectors CN100, CN104 and CN105 on the
I		LCF board is disconnected.
I		3) Check if the connector CN310 on the LGC board is disconnected.
ļ		4) Check if the slit reaches the sensors.
		5) 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.
i		7) Replace the LCF board.
Ι		8) Replace the LGC board.
\checkmark		

YES

1) Check if the conductor pattern on the LGC board is short circuited or open circuited.

2) Replace the LGC board.

[C1A0] LCF end fence motor is abnormal

Is the LCF end fence motor working? (Perform the output check in the test mode: 03-207)

	NO →	1) Check if the connector of the LCF end fence motor is disconnected.
I		2) Check if any of the connectors CN100, CN101 and CN103 on the
I		LCF board is disconnected.
I		3) Check if the connector CN310 on the LGC board is disconnected.
		4) Check if the connector pins are disconnected and the harnesses are
1		open circuited.
I		5) Check if the conductor patterns on the LCF board and LGC board are
i		short circuited or open circuited.
i		6) Replace the LCF board.
↓		7) Replace the LGC board.

YES

<u>Are the LCF end fence home/stop position sensors working?</u> (Perform the input check in the test mode: 03-[FAX]OFF/[5]/[A], /[5]/[B])

Ι	NO →	 Check if the connectors of the sensors are disconnected.
I		2) Check if either of the connectors CN100 or CN107 on the LCF board
ļ		is disconnected.
-		Check if the connector CN310 on the LGC board is disconnected.
		Check if the slit reaches the sensors.
		Check if the connector pins are disconnected and the harnesses are open circuited.
i		6) Check if the conductor patterns on the LCF board and LGC board are
I		short circuited or open circuited.
I		7) Replace the LCF board.
\checkmark		8) Replace the LGC board.

YES

1) Check if the conductor pattern on the LGC board is short circuited or open circuited.

2) Replace the LGC board.

[C1B0] LCF transport motor is abnormal

Is the LCF transport motor working? (Perform the output check in the test mode: 03-122/ 172)

NO \rightarrow 1) Check if the connector CN1 of the LCF transport motor is disconnected. 2) Check if the connector CN102 on the LCF board is disconnected. 3) Check if the signal line connector CN100 on the LCF board is disconnected. 4) Check if the power line connector CN101 on the LCF board is disconnected. 5) Check if the connector CN310 on the LGC board is disconnected. 6) Check if the connector pins are disconnected and the harnesses are open circuited. 7) Check if the conductor patterns on the LCF transport motor board, LCF board and LGC board are short circuited or open circuited. 8) Replace the LCF transport motor. I 9) Replace the LCF board. I 10)Replace the LGC board. $\mathbf{1}$

YES

- 1) Check if the connector pins are disconnected and the harnesses are open circuited.
- 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 CN102-3 output from the LCF board is always "L" level.
- 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.

5

5.1.8 Scanning system related service call

[C260] Peak detection error

Does the exposure lamp light? (Perform the output check in the test mode: 03-267)

Ι	YES \rightarrow	1) Check if the connectors on the CCD and SLG boards are discon-
I		nected.
I		Check if the shading correction plate is dirty.
		 Check if the conductor pattern on the CCD board is short circuited or open circuited.
		4) Check if the conductor pattern on the SLG board is short circuited or open circuited.
I		5) Replace the lens unit.
\downarrow		6) Replace the SLG board.

NO

- 1) Check if the connectors of the exposure lamp and inverter are disconnected.
- 2) Check the SLG board if the connector pin CN9 is disconnected and the harness is short circuited or open circuited.
- 3) Check if the conductor pattern on the SLG board is short circuited or open circuited.
- 4) Replace the SLG board.
- 5) Replace the inverter.
- 6) Replace the exposure lamp.

[C270] Carriage home position sensor not going OFF within a fixed time

[C280] Carriage home position sensor not going ON within a fixed time

Remove the original glass and move the carriages to the paper feeding side. Turn ON the power and check the following items.

[C270] Are the carriages slightly moved to the feeding direction? Are the carriages staying at a position other than home position?

I	YES \rightarrow	1) Check if the connector of the scan motor is disconnected.
I		2) Check if the connector pin is disconnected and the harness is short
I		circuited or open circuited.
\checkmark		3) Replace the SLG board.

NO

- 1) Check if the connector pin is disconnected and the harness is short circuited or open circuited.
- 2) Check if the conductor pattern on the SLG board is short circuited or open circuited.
- 3) Replace the SLG board.

[C280] Do the carriages make a big noise after they arrive at the home position?

Ι	YES \rightarrow	The carriage home position sensor is not turned ON.
I		1) Check if the connector of the sensor is disconnected.
I		2) Replace the carriage home position sensor.
\checkmark		3) Replace the SLG board.

NO

The carriages are stopped at the home position and do not move.

- 1) Check if the connector pins are disconnected and the harnesses are short circuited or open circuited.
- 2) Check if the conductor pattern on the SLG board is short circuited or open circuited.
- 3) Replace the SLG board.

5.1.9 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] Thermistor or heater is abnormal at power ON

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 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 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 [C410], perform the following:

- (1) Turn ON the power while [0] and [8] are pressed simultaneously.
- (2) Key in "400", then press [START].
- (3) Change the current status counter value "1" or "2" to "0", then press [ENTER] or [INTERRUPT] (to cancel [C410]).
- (4) Turn the power OFF and then back ON. Make sure that the equipment enters the normal ready state.

[C430] Thermistor abnormality after abnormality judgment [C440] Fuser is abnormal after abnormality judgment

1,2.3. Check the thermistors, Heater and LGC board

Check the above components following the procedures 1, 2 and 3 for [C410].

4. Clear the status counter

Change the current status counter value (08-400) "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 230°C or higher: "9"
 - The temperature detected by the side thermistor is 230°C or higher: "9"
 - The temperature detected by the edge thermistor is 230°C or higher: "9" only during printing.

[C450] Thermistor abnormality during printing

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

Change the current status counter value (08-400) "6" to "0".

5.1.10 Communication related service call

[C550 (C780)] RADF I/F error

- (1) Check if the harness connecting the RADF board and SLG board is disconnected or open circuited.
- (2) Check if the conductor pattern on the RADF board is short circuited or open circuited.
- (3) Check if the conductor pattern on the SLG board is short circuited or open circuited.
- (4) Replace the RADF board.
- (5) Replace the SLG board.

[C570] Communication error between main CPU and IPC board

- (1) Check if the LGC board and IPC board are connected properly.
- (2) Check if the conductor pattern on the IPC board is short circuited or open circuited.
- (3) Check if the conductor pattern on the LGC board is short circuited or open circuited.
- (4) Replace the IPC board.
- (5) Replace the LGC board.

[C580] Communication error between IPC board and finisher

- (1) Check if the specified finisher is attached.
- (2) Check if the harness connecting the IPC board and the finisher controller PC board is disconnected or open circuited.
- (3) Check if the conductor pattern on the IPC board is short circuited or open circuited.
- (4) Check if the conductor pattern on the finisher controller PC board is short circuited or open circuited.
- (5) Replace the IPC board.
- (6) Replace the finisher controller PC board.

[F070] Communication error between system CPU and main CPU

- (1) Check if the harness connecting the SYS board (CN117) and LGC board (CN309) is disconnected or open circuited.
- (2) Check the version of the system ROM on the SYS board.
- (3) Check the version of the engine ROM version on the LGC board.
- (4) Replace the SYS board.
- (5) Replace the LGC board.

[F110] Communication error between system CPU and scanner CPU [F111] Scanner response abnormality

- (1) Check if the harness connecting the SYS board and SLG board is disconnected or open circuited.
- (2) Check the version of the system ROM on the SYS board.
- (3) Check the version of the scanner ROM version on the SLG board.
- (4) Replace the SYS board.
- (5) Replace the SLG board.

5.1.11 RADF related service call (MR-3016)

Note:

When performing the RADF related troubleshooting, be sure to perform "Automatic adjustment of RADF sensor and EEPROM initialization (05-356)" and "RADF original guide width adjustment (05-367/368)" consecutively at the Adjustment Mode whenever the RADF board, original length sensor, read sensor or reverse sensor has been replaced.

[C730] EEPROM initialization error

- (1) Check the RADF board, mainly IC12, for short circuits and open circuits.
- (2) Replace the RADF board.

[C740] Reverse sensor adjustment error

- (1) Check if there is any foreign matter between the reverse sensor and the reflecting mirror. Check if the reflecting mirror is dirty.
- (2) Check if the harness connecting the reverse sensor and the RADF board is open circuited.
- (3) Check the circuits and connectors on the RADF board, mainly IC3, IC4 and CN4, for short circuits and open circuits.
- (4) Replace the reverse sensor.
- (5) Replace the RADF board.

[C810] Fan motor is abnormal

- (1) Check if the load on the motor shaft is normal.
- (2) Remove foreign matters.
- (3) Check if the harness connecting the fan motor and RADF board is open circuited.
- (4) Check if the power is supplied to the pin 1 of the CN9 on the RADF board during the operation.
- (5) Check the circuits and connectors on the RADF board, mainly Q12 and Q16, for short circuits and open circuits.
- (6) Replace the fan motor.
- (7) Replace the RADF board.

[C820] Read sensor adjustment error

- (1) Check if there is any foreign matter between the read sensor and the reflecting mirror. Check if the reflecting mirror is dirty.
- (2) Check if the harness connecting the read sensor and the RADF board is open circuited.
- (3) Check the circuits and connectors on the RADF board, mainly IC3, IC4 and CN6, for short circuits and open circuits.
- (4) Replace the read sensor.
- (5) Replace the RADF board.

[C830] Original length sensor adjustment error

- (1) Check if there is any foreign matter between the original length sensor and reflecting mirror. Check if the reflecting mirror is dirty.
- (2) Check if the harness connecting the original length sensor and the RADF board is open circuited.
- (3) Check the circuits and connectors on the RADF board, mainly IC3, IC4 and CN3, for short circuits and open circuits.
- (4) Replace the original length sensor.
- (5) Replace the RADF board.

5.1.12 RADF related service call (MR-3020)

No service call for the RADF (MR-3020).

5.1.13 Laser optical unit related service call

[CA10] Polygonal motor is abnormal

Is the polygonal motor rotating?

I	NO →	1) Check if the connector of the harness is disconnected between LGC
I	-	board (CN312) and the laser optical unit.
l I		2) Check if the harness is open circuited and the connector pin is dis- connected.
		3) Check if the conductor pattern on the LGC board is short circuited or open circuited.
1		4) Replace the laser optical unit.
\downarrow		5) Replace the LGC board.
-0		

YES

- 1) Check if the conductor pattern on the LGC board is short circuited or open circuited.
- 2) Replace the LGC board.

[CA20] H-Sync detection error

Are the harness open circuited and the connectors disconnected between the LGC board (CN313) and LRL board (CN204), and between the LRL board (CN204) and laser optical unit?

 \downarrow YES \rightarrow Replace the harness. Connect the disconnected connectors.

NO

- 1) Replace the LGC board.
- 2) Replace the laser optical unit.

5.1.14 Finisher related service call

[CB10] Transport motor abnormality

<u>MJ-1025</u>

Is the stack feed roller (upper) home position sensor (PI12) working properly?

 \downarrow NO \rightarrow Replace the sensor.

YES

Is the wiring between the finisher controller PC board and feed motor (M1) correct?

 \downarrow NO \rightarrow Correct the wiring.

YES

Try turning the stack feed roller (upper) shaft by hand. Does the stack feed roller (upper) move up/down normally?

 \downarrow NO \rightarrow Fix the mechanism.

YES

Try replacing the feed motor (M1). Is the problem corrected?

 \downarrow YES \rightarrow End.

NO

[CB20] Delivery motor abnormality

<u>MJ-1022</u>

Rotate the delivery roller by hand. Does it rotate smoothly?

 \downarrow NO \rightarrow Fix the mechanism.

YES

Is the wiring between the finisher controller PC board and delivery motor (M1) correct?

 \downarrow NO \rightarrow Correct the wiring.

YES

Is the delivery motor clock sensor (S1) working properly?

 \downarrow NO \rightarrow Replace the sensor.

YES

- 1) Replace the delivery motor (M1).
- 2) Replace the finisher controller PC board.

<u>MJ-1025</u>

Is the delivery belt home position sensor (PI7) working properly?

 \downarrow NO \rightarrow Replace the sensor.

YES

Is the wiring between the finisher controller PC board and delivery motor (M3) correct?

 \downarrow NO \rightarrow Correct the wiring.

YES

Rotate the stack delivery roller by hand. Does it rotate smoothly?

 \downarrow NO \rightarrow Fix the mechanism.

YES

Try replacing the delivery motor (M3). Is the problem corrected?

 \downarrow YES \rightarrow END.

NO

[CB30] Tray lift motor abnormality

<u>MJ-1025</u>

[Procedure 1]

Is the paper surface sensor (PI9) working properly?

 \downarrow NO \rightarrow Replace the sensor.

YES

Is the tray up/down mechanism working properly?

 \downarrow NO \rightarrow Fix the mechanism.

YES

Is 24 VDC supplied from the finisher controller PC board to the shift motor as soon as the tray is driven?

 \downarrow NO \rightarrow Replace the finisher controller PC board.

YES

Is the wiring between the finisher controller PC board and shift motor (M6) correct?

 \downarrow YES \rightarrow Replace the shift motor.

NO

Correct the wiring.

[Procedure 2]

Is the tray as far as the shift upper limit sensor?

 \downarrow YES \rightarrow Lower the position of the tray.

NO

Is the shift upper limit sensor (PI15) working properly?

 \downarrow NO \rightarrow Replace the sensor.

YES

Is the wiring between the finisher controller PC board and shift upper limit sensor (PI15) correct?

 \downarrow YES \rightarrow Replace the finisher controller PC board.

NO

Correct the wiring.

[Procedure 3]

Does the tray go up?

	NO →	Is 24 VDC supplied from the finisher controller PCB to the shift motor a soon as the tray is driven?			
		\checkmark	NO →	Replace the finisher controller PC board.	
I		YES			
	Is there any problem with the tray up/down mechanism?				
		\checkmark	$YES \rightarrow$	Fix the lift mechanism.	
I		NO			
↓ YES		Replace	the shift r	motor.	
Is the shift motor clock sensor (PI7) working properly?					

 \downarrow YES \rightarrow Replace the finisher controller PC boar

NO

Replace the sensor.

[CB50] Staple motor abnormality

<u>MJ-1025</u>

[Procedure 1]

Is the wiring between the finisher controller PC board and the staple/fold motor normal?

 \downarrow NO \rightarrow Correct the wiring.

YES

Try to rotate the staple jam releasing dial. Is there mechanical trapping?

 \downarrow YES \rightarrow Fix the mechanism.

NO

Try replacing the staple/fold motor (M7). Is the problem corrected?

 \downarrow YES \rightarrow End.

NO

[Procedure 2]

Is the staple/fold motor clock sensor (PI14) working properly?

 \downarrow NO \rightarrow Replace the sensor.

YES

Does the staple/fold motor operate at the appropriate timing?

 \downarrow YES \rightarrow Replace the finisher controller PC board.

NO

Is the stapler unit drive mechanism working properly?

 \downarrow NO \rightarrow Fix the mechanism.

YES

Try replacing the staple/fold motor (M7). Is the problem corrected?

 \downarrow YES \rightarrow End.

NO

Replace the finisher controller PC board.

[Procedure 3]

Is the folding home position sensor (PI11) working properly?

 \downarrow NO \rightarrow Replace the sensor.

YES

Is the wiring between the finisher controller PC board and the staple/fold motor normal?

 \downarrow NO \rightarrow Correct the wiring.

YES

Try to rotate the fold jam releasing dial. Is there mechanical trapping?

 \downarrow YES \rightarrow Fix the mechanism.

NO

Try replacing the staple/fold motor (M7). Is the problem corrected?

 \downarrow YES \rightarrow End.

NO

[Procedure 4]

Is the staple/fold motor clock sensor (PI14) working properly?

↓ NO → Replace the sensor.

YES

Does the staple/fold motor operate at the appropriate timing?

 \downarrow YES \rightarrow Replace the finisher controller PC board.

NO

Is the saddle stitch unit drive mechanism working properly?

 \downarrow NO \rightarrow Fix the mechanism.

YES

Try replacing the staple/fold motor (M7). Is the problem corrected?

 \downarrow YES \rightarrow End.

NO

Replace the finisher controller PC board.

[CB60] Stapler unit shift motor abnormality

<u>MJ-1025</u>

Is the slide home position sensor (PI18) working properly?

 \downarrow NO \rightarrow Replace the sensor controller PC board.

YES

Is the wiring between the finisher controller PC board and slide motor correct?

 \downarrow NO \rightarrow Correct the wiring.

YES

Is there any mechanical problem with the stapler stand motion path?

 \downarrow YES \rightarrow Fix the mechanism.

NO

Try replacing the slide motor (M8). Is the problem corrected?

 \downarrow YES \rightarrow End.

NO

Replace the finisher controller PC board.

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[CB80] Backup RAM data abnormality

<u>MJ-1025</u>

Is the problem solved by turning the power of the equipment OFF and ON?

 \downarrow YES \rightarrow End.

NO

- 1) Replace the finisher controller PC board.
- 2) Replace the punch controller PC board.

[CC30] Stack processing motor abnormality/Paddle motor abnormality

MJ-1022 (Stack processing motor abnormality)

[Procedure 1]

Is the tension of the drive belt normal?

 \downarrow NO \rightarrow Loosen the adjustment screw to adjust its tension.

YES

Does the bushing attached to the returning roller shaft smoothly move up and down?

 \checkmark NO \rightarrow Apply grease on the cut-out part of the front side frame where the bushing contacts.

YES

Is the spring of the returning roller detached?

 \downarrow YES \rightarrow Attach the spring.

NO

Is the wiring between the finisher controller PC board and stack delivery motor (M2) correct?

 \downarrow NO \rightarrow Correct the wiring.

YES

Is the stack delivery lever home position sensor (S8) working properly?

 \downarrow NO \rightarrow Replace the sensor.

YES

1) Replacing the stack processing motor.

2) Replace the finisher controller PC board.

5

[Procedure 2]

Does the bushing attached to the returning roller shaft smoothly move up and down?

I NO \rightarrow Apply grease on the cut-out part of the front side frame where the bushing contacts.

YES

Is the spring of the returning roller detached?

 \downarrow YES \rightarrow Attach the spring.

NO

Is the tension of the stack processing motor drive belt normal?

 \downarrow NO \rightarrow Loosen the adjustment screw to adjust its tension.

YES

Is the returning roller home position sensor (S3) working properly?

 \downarrow NO \rightarrow Replace the sensor.

YES

1) Replace the stack delivery motor.

2) Replace the finisher controller PC board.

MJ-1025 (Paddle motor abnormality)

Is the paddle home position sensor (PI2) working properly?

 \downarrow NO \rightarrow Replace the sensor.

YES

Is the swing guide home position sensor (PI3) working properly?

 \downarrow NO \rightarrow Replace the sensor.

YES

Is the wiring between the finisher controller PC board and paddle motor (M2) correct?

 \downarrow NO \rightarrow Correct the wiring.

YES

Try turning the paddle motor counterclockwise by hand. Is there mechanical trapping in the up/down movement of the swing guide?

 \downarrow YES \rightarrow Fix the mechanism.

NO

Try replacing the paddle motor. Is the problem corrected?

 \downarrow YES \rightarrow End.

NO

[CC50] Horizontal registration motor abnormality

<u>MJ-1025</u>

Is the horizontal registration home position sensor (PI2P) working properly?

 \downarrow NO \rightarrow Replace the sensor.

YES

Is the wiring between the finisher controller PC board and the horizontal registration home position sensor (PI2P) correct?

 \downarrow NO \rightarrow Correct the wiring.

YES

Is there any problem with the horizontal registration mechanism?

 \downarrow YES \rightarrow Fix the mechanism.

NO

Replace the horizontal registration motor (M2P).

Try replacing the punch controller PC board. Is the problem corrected?

 \downarrow YES \rightarrow End.

NO

Replace the finisher controller PC board.

[CC60] Punch motor abnormality

<u>MJ-1025</u>

Is the punch home position sensor (PI1P) working properly?

 \downarrow NO \rightarrow Replace the sensor.

YES

Is the punch motor clock sensor (PI3P) working properly?

 \downarrow NO \rightarrow Replace the sensor.

YES

Is the wiring between the finisher controller PC board and sensor correct?

 \downarrow NO \rightarrow Correct the wiring.

YES

Is there any problem with the punching mechanism?

 \downarrow YES \rightarrow Fix the mechanism.

NO

Replace Punch motor (M1P)

Try replacing the punch controller PC board. Is the problem corrected?

 \downarrow YES \rightarrow End.

NO

[CC80] Front jogging plate motor abnormality/Alignment motor (front) abnormality

MJ-1022 (Front jogging plate motor abnormality)

Is the front jogging plate home position sensor (S6) working properly?

 \downarrow NO \rightarrow Replace the sensor.

YES

Is the wiring between the finisher controller PC board and front jogging motor (M3) correct?

 \downarrow NO \rightarrow Correct the wiring.

YES

Has the rack run over the stopper of the roll?

 \downarrow YES \rightarrow Fix it.

NO

1) Replace the front jogging motor.

2) Replace the finisher controller PC board.

MJ-1025 (Alignment motor (front) abnormality)

Is the aligning plate home position sensor (front) (PI4) working properly?

 \downarrow NO \rightarrow Replace the sensor.

YES

Is the wiring between the finisher controller PC board and alignment motor (front) (M4) correct?

 \downarrow NO \rightarrow Correct the wiring.

YES

Is there any mechanical problem with the path of aligning plate?

 \downarrow YES \rightarrow Fix the mechanism.

NO

Try replacing the alignment motor (front) (M4). Is the problem corrected?

 \downarrow YES \rightarrow End.

NO

[CC90] Upper stack tray lift motor abnormality

<u>MJ-1022</u>

Is the wiring between the finisher controller PC board and upper stack tray lift motor (M5) correct?

 \downarrow NO \rightarrow Correct the wiring.

YES

Are the front and rear sides of the upper stack tray leveled?

 \downarrow NO \rightarrow Level them.

YES

Is the upper stack tray lift motor clock sensor (S19) working properly?

 \downarrow NO \rightarrow Replace the sensor.

YES

Is the stack tray paper height sensor (S10) working properly?

 \downarrow NO \rightarrow Replace the sensor.

YES

Are the upper stack tray upper limit sensor (S25), upper stack tray full sensor (S22) and stack processing safety switch (S26) working properly?

 \downarrow NO \rightarrow Replace the sensor or sensor controller PC board.

YES

Does the voltage between the pins J14-1 pin and -2 pin on the finisher controller PC board become 24 V when the upper stack tray lift motor starts rotating?

 \downarrow NO \rightarrow Replace the finisher controller PC board.

YES

Check the wiring between the upper stack tray lift motor and finisher controller PC board. If there is no problem, replace the upper stack tray lift motor.

5

[CCA0] Lower stack tray lift motor abnormality

<u>MJ-1022</u>

Is the wiring between the finisher controller PC board and lower stack tray lift motor (M7) correct?

 \downarrow NO \rightarrow Correct the wiring.

YES

Are the front and rear sides of the lower stack tray leveled?

 \downarrow NO \rightarrow Level them.

YES

Is the lower stack tray lift motor clock sensor (S9) working properly?

 \downarrow NO \rightarrow Replace the sensor.

YES

Is the stack tray paper height sensor (S10) working properly?

 \downarrow NO \rightarrow Replace the sensor.

YES

Are the lower stack tray upper limit sensor (S13) and lower stack tray full sensor (S23) working properly?

 \downarrow NO \rightarrow Replace the sensor or sensor controller PC board

YES

Does the voltage between the pins J3-1 pin and -2 pin on the finisher controller PC board become 24 V when the lower stack tray lift motor starts rotating?

 \downarrow NO \rightarrow Replace the finisher controller PC board.

YES

Check the wiring between the upper stack tray lift motor and finisher controller PC board. If there is no problem, replace the motor.

[CCB0] Rear jogging plate motor abnormality/Alignment motor (rear) abnormality

MJ-1022 (Rear jogging plate motor abnormality)

Is the rear jogging plate home position sensor (S7) working properly?

 \downarrow NO \rightarrow Replace the sensor.

YES

Is the wiring between the finisher controller PC board and rear jogging motor (M4) correct?

 \downarrow NO \rightarrow Correct the wiring.

YES

Has the rack run over the stopper of the roll?

 \downarrow YES \rightarrow Fix it.

NO

1) Replace the rear jogging motor.

2) Replace the finisher controller PC board.

MJ-1025 (Alignment motor (rear) abnormality)

Is the aligning plate home position sensor (rear) (PI5) working properly?

 \downarrow NO \rightarrow Replace the sensor.

YES

Is the wiring between the finisher controller PC board and aligning plate home position sensor (rear) correct?

 \downarrow NO \rightarrow Correct the wiring.

YES

Is there any mechanical problem with the path of aligning plate?

 \downarrow YES \rightarrow Fix the mechanism.

NO

Try replacing the alignment motor (rear) (M5). Is the problem corrected?

 \downarrow YES \rightarrow End.

NO

[CDC0] Punch power failure occurred abnormality

<u>MJ-1025</u>

Is the problem solved by turning the power of the equipment OFF and ON?

 \downarrow YES \rightarrow End

NO

Is the wiring between the finisher controller PC board and punch controller PC board correct?

 \downarrow NO \rightarrow Correct the wiring.

YES

Does the voltage between the CN14-5 (+) and CN14-3 (-) on the finisher controller PC board become 24 V?

 \downarrow YES \rightarrow Replace the punch controller PC board.

NO

Replace the finisher controller PC board.

[CDD0] Folding sensor abnormality

<u>MJ-1025</u>

Is the folding position sensor (PI10) working properly?

 \downarrow NO \rightarrow Replace the sensor.

YES

Is the wiring between the finisher controller PC board and folding position sensor (PI10) correct?

 \downarrow NO \rightarrow Correct the wiring.

YES

Is there any mechanical problem with the fold jam releasing dial?

 \downarrow YES \rightarrow Fix the mechanism.

NO

1) Replace the staple/fold motor (M7).

[CDE0] Paddle motor abnormality

<u>MJ-1025</u>

Is the paddle home position sensor (PI2) working properly?

 \downarrow NO \rightarrow Replace the sensor.

YES

Is the Swing guide home position sensor (PI3) working properly?

 \downarrow NO \rightarrow Replace the sensor.

YES

Is the wiring between the finisher controller PC board and Paddle motor (M2) correct?

 \downarrow NO \rightarrow Correct the wiring.

YES

<u>Try to rotate the paddle motor (M2) clockwise and counterclockwise by hand. Is there</u> mechanical trapping in the rotation of the paddle or the up/down movement of the swing guide?

 \downarrow YES \rightarrow Fix the mechanism.

NO

1) Replace the paddle motor (M2)

2) Replace the finisher controller PC board.

[CE00] Communication error between finisher and puncher unit

<u>MJ-1025</u>

Is the problem solved by turning the power of the equipment OFF and ON?

 \downarrow YES \rightarrow End.

NO

Is the wiring between the finisher controller PC board and the punch controller PC board correct?

 \downarrow NO \rightarrow Correct the wiring.

YES

Measure the voltage between CN14-5 (+) and CN14-3 (-) on the finisher controller PC board 24 V?

 \downarrow NO \rightarrow Replace the finisher controller PC board.

YES

Replace the punch controller PC board.

5.1.15 Service call for others

[C940] Engine-CPU is abnormal

Is the "Call for Service" displayed even after the power is turned OFF and back ON?

↓ NO → Leave it and see what happens.

YES

- 1) Check if the circuit pattern between the Engine-CPU and FROM is short circuited or open circuited.
- 2) Replace the LGC board if this error occurs frequently.

[C970] High-voltage transformer abnormality

- (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) Is the transfer/separation charger installed securely?
- (6) Check if the transfer/separation charger wire is broken or unhooked.
- (7) Check if any foreign matter is on the transfer/separation charger wire.

[CDF0] Initialize error of the offset tray

- (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 (CN306) 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.
- (5) Replace the OCT motor.
- (6) Replace the OCT board.
- (7) Replace the LGC board.

[CF60] Recycle toner transport area lock

- (1) Check if any foreign matter or toner flakes are on the recycle toner transport area.
- (2) Check if the auger or the gear is damaged on the recycle toner transport area.
- (3) Check if the connector (CN305) is disconnected or the connector pin is removed on the LGC board.
- (4) Check if the harness is short circuited or open circuited.
- (5) Replace the auger lock switch.
- (6) Replace the LGC board.

[F090] SRAM abnormality on the SYS board

- (1) Turn the power OFF and start up the Setting Mode (08).
- (2) When the message "SRAM ERROR DOES IT INITIALIZE?" is displayed on the LCD, press [INI-TIALIZE]. (SRAM is cleared.)
- (3) Turn the power OFF and then back ON. If the error is not recovered, replace the SYS board.

[F091] NVRAM abnormality on the SYS board

- (1) Take off the FAX board if installed.
- (2) Turn the power OFF and start up with the Setting Mode (08).

Note:

Be sure to start up with the Setting Mode (08), not the normal mode immediately after the NVRAM replacement or clearing, and then perform the following steps.

- (3) When the message "NVRAM ERROR DOES IT INITIALIZE" is displayed on the LCD screen, check the destination and then press the [START] button. If the destination is correct, key in the correct number and press the [START] button.
- (4) When the confirmation message appears on the LCD screen, press the [INTERRUPT] button. (NVRAM initialization will start.)
- (5) Perform the panel calibration (08-692).
- (6) Perform the counter copying (08-257 Sub-code: 1).
- (7) Perform the initialization at the software version upgrade (08-947).
- (8) Check the serial number after performing "Equipment number display" (08-995). If the number is different from the one on the label attached to the rear cover of the equipment, enter the correct serial number again with 08-995.

Note:

The MAC address of the equipment is generated based on this serial number. Entering the incorrect serial number may result in an inability to access the network due to an invalid MAC address.

- (9) Initialize the NIC information (08-693).
- (10) Turn the power OFF.
- (11) Install the FAX board taken off in step (1).

* If the FAX board has not been installed, the following steps are not necessary.

- (12) Start up with the Setting Mode (08).
- (13) Set the destinction with "Destination setting of FAX machine" (08-701).
- (14) Start up with FAX Clearing Mode (1*).
- (15) Perform "FAX Set Up" (1*-100).
- (16) Turn the power OFF.
- (17) Turn the power ON.
- (18) Set the dial type. [USER FUNCTIONS] →[ADMIN] →[FAX] →[INITIAL SETUP]
- (19) Turn the power OFF and then back ON. If the error is not recovered, replace the NVRAM on the SYS board.

[F092] SRAM/NVRAM abnormality on the SYS board

- (1) Take off the FAX board if installed.
- (2) Turn the power OFF and start up with the Setting Mode (08).

Note:

Be sure to start up with the Setting Mode (08), not the normal mode immediately after the NVRAM replacement or clearing, and then perform the following steps.

- (3) When "NVRAM/SRAM ERROR DOES IT INITIALIZE" is displayed on the LCD, enter the number for the model type and then press the [START] button. Select "1" for a system ROM version earlier than V3.2, and "2" for V3.2 or later.
- (4) Check the destination displayed on the LCD and then press the [START] button. If the destination is incorrect, key in the correct number and then press the [START] button.
- (5) Check the destination displayed on the LCD screen and then press the [START] button. If the destination is incorrect, key in the correct number and then press the [START] button.
- (6) When the confirmation message appears on the LCD screen, press the [INTERRUPT] button. (Initialization of SRAM and NVRAM will start.)
- (7) Perform the panel calibration (08-692).
- (8) Perform the counter copying (08-257 Sub-code: 1).
- (9) Perform the initialization at the software version upgrade (08-947).
- (10) Check the serial number after performing "Equipment number display" (08-995). If the number is different from the one on the label attached to the rear cover of the equipment, enter the correct serial number again with 08-995.

Note:

The MAC address of the equipment is generated based on this serial number. Entering the incorrect serial number may result in an inability to access the network due to an invalid MAC address.

- (11) Initialize the NIC information (08-693).
- (12) Turn the power OFF.
- (13) Install the FAX board taken off in step (1).
 - * If the FAX board has not been installed, the following steps are not necessary.
- (14) Start up with the Setting Mode (08).
- (15) Set the destinction with "Destination setting of FAX machine" (08-701).
- (16) Start up with FAX Clearing Mode (1*).
- (17) Perform "FAX Set Up" (1*-100).
- (18) Turn the power OFF.
- (19) Turn the power ON.
- (20) Set the dial type. [USER FUNCTIONS] →[ADMIN] →[FAX] →[INITIAL SETUP]
- (21) Turn the power OFF and then back ON. If the error is not recovered, replace the NVRAM on the SYS board.

[F100] HDD Initialization error

- (1) Check if the HDD is mounted.
- (2) Check if the specified HDD is mounted.
- (3) Check if the connector pins of the HDD are bent.
- (4) Check if the power supply connector is disconnected.
- (5) Check if the connector J111 on the SYS board is disconnected.
- (6) Replace the harness.
- (7) Initialize the HDD. (Key in "2" at 08-690.)
- (8) Replace the HDD.
- (9) Replace the SYS board.

[F101] HDD unmounted [F102] HDD start error [F103] HDD transfer time-out [F104] HDD CRC error [F105] HDD other error

- (1) Check if the connectors of the HDD are disconnected.
- (2) Check if the connector pins are disconnected or the wires of harnesses are broken.
- (3) Perform the bad sector check (08-694). If the check result is OK, recover the data in the HDD. If the check result is failed, replace the HDD.
- (4) Replace the SYS board.

[F106] Point and Print partition damage

- (1) Turn the power OFF and start up the Setting Mode (08).
- (2) Key in "662" and press the [START] button. (Partition clearing is performed.)
- (3) Restart the equipment.
- (4) Access TopAccess. Click the [Administration] tab, and then click the Maintenance Menu to open. Then install the "Point and Print" driver.

[F107] /SHR partition damage

Initialize the Electronic Filing using the Setting Mode (08-666).

[F108] /SHA partition damage

Initialize the shared folder using the Setting Mode (08-667).

[F120] Database abnormality

- (1) Rebuild the databases. (Perform 08-684.)
- (2) If the error is not recovered, initialize the HDD. (Key in "2" at 08-690.)

[F130] Invalid MAC address (e-STUDIO202L/203L/232/233/282/283)

Compare the serial number of the equipment with a number displayed in 08-995. If they are different, enter the correct serial number at 08-995.

[F200] Data overwrite kit (GP-1050) is taken off (e-STUDIO202L/230/230L/280)

Clear the service call "F200". (Key in "0" at 08-633.)

* When the Data overwrite kit (GP-1050) is removed from the equipment, the service call "F200" occurs.

[F200] Data overwrite kit (GP-1060) is taken off (e-STUDIO202L/203L/232/233/282/283)

Check the system ROM version (08-900) since the countermeasure to be taken varies.

- T377SY0*329 or later (* represents a letter of the alphabet corresponding to the destination.)
 Download the system firmware again.
 P. 6-1 "6. FIRMWARE UPDATING"
- **Earlier than T377SY0*329** (* represents a letter of the alphabet corresponding to the destination.) Clear the service call "F200". (Key in "0" at 08-633.)
- * When the Data overwrite kit (GP-1060) is removed from the equipment, the service call "F200" occurs.

5.1.16 Error in Internet FAX / Scanning Function

Notes:

- 1. When initializing the Electronic Filing (Setting Mode (08-666)), all data in the Electronic Filing are erased. Back up the data in the Electronic Filing by using the Electronic Filing Function of TopAccess before the initialization.
- 2. When initializing the shared folder (Setting Mode (08-667)), all data in the shared folder are erased. Back up the data in the shared folder by using Explorer before the initialization.
- 3. When formatting the HDD (Setting Mode (08-690)), 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

(when GM-1020/3020, GM-1030/3030, GM-2020, GM-2030, GM-1070/4070, GM-1080U/4080U, GM-2070, GM-2080U, GM-1071/4070, GM-1081U/4080U, GM-2071, GM-2081U, GM-1130/4130, GM-1140U/4140U, GM-2130, or GM-2140U is installed)

[1C10] System access abnormality [1C32] File deletion failure

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 (08-690).

[1C11] Insufficient memory

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

Turn the power OFF and then back ON. Perform the job in error again.

[1C14] Invalid parameter

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.

[1C15] Exceeding file capacity

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

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 (08-690). If the recovery is still not completed, replace the SYS board.

[1C30] Directory creation failure [1C31] File creation failure [1C33] File access failure

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

Turn the power OFF and then back ON. Perform the job in error again. Replace the main memory and perform the job again.

[1C60] HDD full failure during processing

Reduce the number of pages of the job in error and perform the job again. Check if the server or local disk has a sufficient space in disk capacity.

[1C61] Address Book reading failure

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.

[1C62] Memory acquiring failure

Check if there is any job being performed and perform the job in error again.

Turn the power OFF and then back ON. Perform the job in error again. Replace the main memory and perform the job again.

[1C63] Terminal IP address unset

Reset the Terminal IP address. Turn the power OFF and then back ON. Perform the job in error again.

[1C64] Terminal mail address unset

Reset the Terminal mail address. Turn the power OFF and then back ON. Perform the job in error again.

[1C65] SMTP address unset

Reset the SMTP address and perform the job. Turn the power OFF and then back ON. Perform the job in error again.

[1C66] Server time time-out error

Check if the SMTP server is operating properly.

[1C67] NIC time time-out error [1C68] NIC access error [1C6D] System error

Turn the power OFF and then back ON. Perform the job in error again. If the error still occurs, replace the NIC board.

[1C69] SMTP server connection error

Reset the login name or password of SMTP server and perform the job again. Check if the SMTP server is operating properly.

[1C6A] HOST NAME error

Check if there is an illegal character in the device name. Delete the illegal character and reset the appropriate device name.

[1C6B] Terminal mail address error

Check if the SMTP authentication method is correct. Check if there are any illegal characters in the Terminal mail address. Select the correct SMTP authentication method. Delete the illegal characters and reset the mail address. Then try again.

[1C6C] Destination mail address error

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.

[1C70] SMTP client OFF

Set the SMTP valid and perform the job again.

[1C71] SMTP authentication ERROR

Check that SMTP authentication method, login name and password are correct, then perform authentication again.

[1C72] POP Before SMTP ERROR

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

Reset the "Received InternetFax Forward".

[1C81] Onramp Gateway transmission failure

Reset the mail box.

[1C82] Internet FAX transmission failure when processing FAX job received

Reset the "Received Fax Forward".

[1CC1] Power failure

Check if the power cable is connected properly and it is inserted securely. Check if the power voltage is unstable. [2] RFC related error

(when GM-1020/3020, GM-1030/3030, GM-2020, GM-2030, GM-1070/4070, GM-1080U/4080U, GM-2070, GM-2080U, GM-1071/4070, GM-1081U/4080U, GM-2071, GM-2081U, GM-1130/4130, GM-1140U/4140U, GM-2130, or GM-2140U is installed)

[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)

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)

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 NIC board.

[2550] Destination mail address error (RFC: 550)

Check the state of the mail box in the mail server.

[2552] Terminal/Destination mail address error (RFC: 552)

Check the capacity of the mail box in the mail server.

Select "Text "of the original modes for the original data or lower the resolution level and then retransmit. Or divide the original data into several pieces and retransmit them.

[2553] Destination mail address error (RFC: 553)

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 /SHR partition
[2BC0] Fatal failure occurred
[2BC1] System management module resource acquiring failure

Erase some data in the Electronic Filing 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 if there are no other running jobs and perform the HDD formatting (08-690). If the recovery is still not completed, replace the SYS board.

[2B21] Exceeding file capacity

Reset and extend the "Maximum send to E-mail/iFAX size" or reduce the number of pages and perform the job again.

[2B50] Image library error [2B90] Insufficient memory capacity

Turn the power OFF and then back ON. Perform the job in error again. If the error still occurs, replace the main memory. Perform the job in error again. Check if there are no other running jobs and initialize the Electronic Filing using the Setting Mode (08-666).

[2B31] Status of specified Electronic Filing or folder is undefined or being created/deleted

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 Electronic Filing or folder can not be deleted, initialize the Electronic Filing using the Setting Mode (08-666).

[2B32] Electronic Filing printing failure: Specified document can not be printed because of client's access (being edited, etc.)

Check if the specified document exists. (If no, this error would not occur.) Delete the specified document.

Perform the job in error again.

If the specified document can not be deleted, initialize the Electronic Filing using the Setting Mode (08-666).

[2B51] List library error

Check if the Function List can be printed out. If it can be printed out, perform the job in error again. If it can not be printed out, replace the main memory. If the recovery is still not completed, perform the HDD formatting (08-690).

[2BA0] Invalid Box password

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 the recovery is still not completed or in case of invalid password for the operation other than printing (opening the file, etc.), initialize the Electronic Filing using the Setting Mode (08-666).

[2BA1] A paper size not supported in the Electronic Filing function is being selected

Check the paper size.

[2BB1] Power failure [2BD0] Power failure occurred during restoring of Electronic Filing

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

Turn the power OFF and then back ON. Perform the job in error again.

[2BF0] Exceeding maximum number of pages

Reduce the number of inserting pages and perform the job again.

[2BF1] Exceeding maximum number of documents

Backup the documents in the box or folder to PC or delete them.

[2BF2] Exceeding maximum number of folders

Backup the folders in the box or folder to PC or delete them.
[4] E-mail related error

(when GM-1020/3020, GM-1030/3030, GM-2020, GM-2030, GM-1070/4070, GM-1080U/4080U, GM-2070, GM-2080U, GM-1071/4070, GM-1081U/4080U, GM-2071, GM-2081U, GM-1130/4130, GM-1140U/4140U, GM-2130, or GM-2140U is installed)

[2C10] System access abnormality [2C32] File deletion failure

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 (08-690).

[2C11] Insufficient memory

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

Turn the power OFF and then back ON. Perform the job in error again.

[2C14] Invalid parameter

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

Reset and extend the "Message size limitation" 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

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 (08-690). If the recovery is still not completed, replace the SYS board.

[2C30] Directory creation failure [2C31] File creation failure [2C33] File access failure

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

Turn the power OFF and then back ON. Perform the job in error again. Replace the main memory and perform the job again.

[2C43] Encryption error

Turn the power OFF and then back ON. Perform the job in error again.

[2C44] Encryption PDF enforced mode error

Reset the encryption and perform the job in error again. If an image file not encrypted is created, consult your administrators.

[2C60] HDD full failure during processing

Reduce the number of pages of the job in error and perform the job again. Check if the server or local disk has a sufficient space in disk capacity.

[2C61] Address Book reading failure

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

Reset the Terminal IP address. Turn the power OFF and then back ON. Perform the job in error again.

[2C64] Terminal mail address unset

Reset the Terminal mail address. Turn the power OFF and then back ON. Perform the job in error again.

[2C65] SMTP address unset

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 time-out error

Check if the SMTP server is operating properly.

[2C67] NIC time time-out error [2C68] NIC access error [2C6D] System error

Turn the power OFF and then back ON. Perform the job in error again. If the error still occurs, replace the NIC board.

[2C69] SMTP server connection error

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)

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

Check if the SMTP authentication method is correct. Check if there are any illegal characters in the Terminal mail address. Select the correct SMTP authentication method. Delete the illegal characters and reset the mail address. Then try again.

[2C6C] Destination mail address error (No RFC error)

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

Set the SMTP valid and perform the job again.

[2C71] SMTP authentication ERROR

Check that SMTP authentication method, login name and password are correct, then perform authentication again.

[2C72] POP Before SMTP ERROR

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

Reset the "Received InternetFax Forward".

[2C81] Process failure of FAX job received

Reset the setting of the mail box or "Received InternetFax Forward".

[2CC1] Power failure

Check if the power cable is connected properly and it is inserted securely. Check if the power voltage is unstable. 5

[5] File sharing related error

(when GM-1020/3020, GM-1030/3030, GM-2020, GM-2030, GM-1070/4070, GM-1080U/4080U, GM-2070, GM-2080U, GM-1071/4070, GM-1081U/4080U, GM-2071, GM-2081U, GM-1130/4130, GM-1140U/4140U, GM-2130, or GM-2140U is installed)

[2D10] System access abnormality [2D32] File deletion failure [2DA6] File deletion failure [2DA7] Resource acquiring failure

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, first, check if there are no jobs existing and then perform the HDD formatting (08-690).

[2D11] Insufficient memory

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

Turn the power OFF and then back ON. Perform the job in error again.

[2D14] [2D61] Invalid parameter

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 document number

Delete some documents in the folder, and then perform the job in error again.

[2D20] System management module access abnormality [2D21] Job control module access abnormality [2D22] Job control module access abnormality [2D60] File library access abnormality

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. Check if there are no other running jobs and perform the HDD formatting (08-690). If the recovery is still not completed, replace the SYS board.

[2D30] Directory creation failure [2D31] File creation failure [2D33] File access failure

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

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, first, check if there are no jobs existing and then initialize the shared folder using the Setting Mode (08-667).

[2D43] Encryption error

Turn the power OFF and then back ON. Perform the job in error again.

[2D44] Encryption PDF enforced mode error

Reset the encryption and perform the job in error again. If an image file not encrypted is created, consult your administrators.

[2D62] File server connection error

Check the IP address or path of the server. Check if the server is operating properly.

[2D63] Invalid network path

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

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

Delete some documents in the folder.

[2D66] HDD full failure during processing

Reduce the number of pages of the job in error and perform the job again. Check if the server or local disk has a sufficient space in disk capacity.

[2D67] FTP service not available

Check if the setting of FTP service is valid.

[2D68] File sharing service not available

Check if the setting of SMB is valid.

[2DC1] Power failure

Check if the power cable is connected properly and it is inserted securely. Check if the power voltage is unstable.

[6] E-mail reception related error

(when GM-1020/3020, GM-1030/3030, GM-2020, GM-2030, GM-1070/4070, GM-1080U/4080U, GM-2070, GM-2080U, GM-1071/4070, GM-1081U/4080U, GM-2071, GM-2081U, GM-1130/4130, GM-1140U/4140U, GM-2130, or GM-2140U is installed)

[3A10] [3A11] [3A12] E-mail MIME error

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] [3A21] [3A22] E-mail analysis error [3B10] [3B11] [3B12] E-mail format error [3B40] [3B41] [3B42] E-mail decode error

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

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

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] [3A51] [3A52] Insufficient HDD capacity error [3A60] [3A61] [3A62] Warning of insufficient HDD capacity

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

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.

[3A80] [3A81] [3A82] Partial mail reception setting OFF

Reset the partial mail reception setting ON and then request the sender to retransmit the mail.

[3B20] [3B21] [3B22] Content-Type error

The format of the attached file is not supported by this equipment (TIFF-FX). Request the sender to retransmit the file in TIFF-FX.

[3B30] [3B31] [3B32] Charset error

These errors occur when the standard of the Charset is other than ISO-8559-1 or ISO-8559-2. Request the sender to reformat the Charset into either of the standards described above and then retransmit the mail.

[3C10] [3C11] [3C12] [3C13] TIFF analysis error

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] [3C21] [3C22] TIFF compression error

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] [3C31] [3C32] TIFF resolution error

The resolution of the TIFF file is not acceptable for this equipment. (Acceptable: 200×100 , 200×200 , 200×400 , 400×400 , 300×300 or equivalent) Request the sender to retransmit the file in the acceptable resolution.

[3C40] [3C41] [3C42] TIFF paper size error

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] [3C51] [3C52] Offramp destination error

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] [3C61] [3C62] Offramp security error

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

Check if the mail is recovered after turning ON the power again. Request the sender to retransmit the mail if it is not recovered.

[3D10] Destination address error

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

Inform the sender that the transfer of the FAX data over 40 is not supported.

[3D30] FAX board error

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

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

Check if POP3 server to be connected is operating properly. Check if the LAN cable is correctly connected.

[3E30] POP3 login error

Check if the POP3 server login name and password set for this equipment are correct.

[3E40] POP3 Login Type ERROR

Check that the login type (Auto, POP3 or APOP) to the POP3 server is correct.

[3F00] [3F10] [3F20] [3F30] [3F40] File I/O error

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.

[4030] No printer kit/Invalid

Install the print kit and perform the job again. Install the Expansion Memory (GC-1230) and perform the job again. Register it officially and perform the job again.

[4031] HDD full failure during printing

Reduce the number of pages of the job in error and perform the job again. Check if the server or local disk has a sufficient space in disk capacity.

[4032] Private-print-only error

Select "Private", and then perform the printing again.

[4033] Printing data storing limitation error

Select "Print", and then perform the printing again.

[4034] e-Filing storing limitation error

Select "Print", and then perform the printing again.

[4035] Local file storing limitation error

Select "Remote" (SMB/FTP) for the destination of the file to save.

[4036] User authentication error

Perform the authentication or register as a user, and then perform the printing again.

[4037] Hardcopy security printing error

Hardcopy security printing cannot be performed because the function is restricted in the selfdiagnosis mode.

[A221] Print job cancellation

This message appears when deleting the job on the screen.

[A222] Print job power failure

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.

[A290] Limit over error [A291] Limit over error [A292] Limit over error Clear the limit counter.

5.2 Troubleshooting for the Image

1) Abnormality of image density / Gray balance



Fig. 5-1

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 (04-113).	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 back- ground fogging.
	6	Is there a blotch on the image?	Perform troubleshooting for blotched image.
	7	Is the image transferred normally?	Perform troubleshooting for abnor- mal transfer.

2) Background fogging



Fig. 5-2

Defective area	Step	Check items	Prescription
Density reproduction	1	Check the reproduction of the image density.	Adjust the density.
Background reproduction	2	Check the background reproduction.	Adjust the background.
Printer section	3	Check test print image (04-113).	Go to step 4 if there is any problem on image.
Scanner	4	Are the original glass, mirrors and lens dirty?	Clean them.
Auto-toner	5	Is the auto-toner sensor normal?	Check the performance of the auto- toner sensor and readjust.
	6	Is the toner supplied normally?	Check the motor and circuits.
High-voltage transformer (Main charger / Developer bias)	7	Is the high-voltage transformer out- put defective?	Adjust the output, or replace the transformer.
Developer unit	8	Is the contact between the drum and developer material normal?	Adjust the doctor-sleeve gap and polarity.
Developer material/Toner/ Drum	9	Using the specified developer mate- rial, toner and drum?	Use the specified developer material, toner and drum.
	10	Have the developer material and drum reached their PM life?	Replace the developer material and drum.
	11	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	12	Is the drum cleaned properly?	Check the pressure of the drum cleaning blade.
Toner dusting	13	Is toner heaped on the seal of the developer unit?	Remove the toner and clean the developer unit.

3) Moire/lack of sharpness



Fig. 5-3

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 (04-113).	When defects occur, perform the cor- responding troubleshooting proce- dure.

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 (04-113).	When defects occur, perform the cor- responding troubleshooting proce- dure.
	4	Check the image processing parameters.	Check the encircled areas A and B in the image, and change the sharp- ness intensity in the sharpness adjustment mode.

4) Toner offset



Fig. 5-4

Toner offset (Shadow image appears approx. 94 mm 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 nor- mal?	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? 08-407, 410, 411, 450, 515, 516
Paper	7	Has the appropriate paper type been selected?	Select a proper mode.
	8	Is the setting temperature of the fuser roller in each paper type normal?	Check the setting and correct it. 08-412, 413, 437, 438, 451, 452, 453, 518, 520, 521
	9	Using the recommended paper?	Use the recommended paper.
Developer material	10	Using the specified developer mate- rial?	Use the specified developer material and toner.
Scanner	11	Are the original glass (especially the position of shading correction plate), mirror and lens dirty?	Clean them.

5) Blurred image





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 prop- erly?	Check the connection of connector. Replace the ozone exhaust fan.
	5	Is the ozone filter stained or dam- aged?	Replace the ozone filter.

6) Poor fusing



Fig. 5-6

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. 08-407, 410, 411, 450, 515, 516
Developer material/Toner	5	Using the specified developer mate- rial 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. 08-412, 413, 437, 438, 451, 452, 453, 518, 520, 521
	9	Using the recommended paper?	Use the recommended paper.



Fig. 5-7

Defective area	Step	Check items	Prescription
Transfer charger wire	1	Is the transfer charger wire cut off?	Replace the transfer charger wire.
High-voltage transformer (Transfer charger, Devel- oper bias)	2	Is the high-voltage transformer out- put defective?	Adjust the output, or replace the transformer.
	3	Are the connectors of the high-volt- age 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 prop- erly?	Check and correct the engaging con- dition 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 prop- erly?	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 con- nected? Check if the harnesses connecting the boards are open circuited.	Connect the connectors securely. Replace the harness.



Fig. 5-8

Defective area	Step	Check items	Prescription
Exposure lamp and inverter	1	Does the exposure lamp light?	Check if the connector contacts with the exposure lamp terminal. Replace the defective inverter.
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 out- put defective?	Adjust the output, or replace the transformer.
	7	Are the connectors of the high-volt- age 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 con- nected? Check if the harnesses connecting the boards are open circuited.	Connect the connectors securely. Replace the harness.

9) White banding (in the feeding direction)



Fig. 5-9

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.
Transfer charger wire	3	Is there any foreign matter or stain on the transfer charger wire?	Clean the transfer charger wire.
Developer unit	4	Is the developer material transported properly?	Remove the foreign matter if there is any.
	5	Is there a foreign matter or dew on the drum seal?	Remove the foreign matter or dew.
	6	Is the upper drum seal of the devel- oper unit in contact with the drum?	Correct the position of the drum seal or replace it.
Drum	7	Is there a foreign matter on the drum surface?	Replace the drum.
Transport path	8	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	9	Is any of the discharge LEDS off?	Replace the discharge LED.
Scanner	10	Is there a foreign matter on the light path?	Remove the foreign matter.
	11	Are the original glass (especially the position of shading correction plate) mirror and lens dirty?	Clean them.
Cleaner	12	Is there any foreign matter, which contacts the drum on the cleaner stay?	Remove the foreign matter.

10)White banding (at right angle with the feeding direction)



Fig. 5-10

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 nor- mally?	Replace the discharge LED or check the harness and the circuit.
Developer unit	5	Is the developer sleeve rotating nor- mally? Is there any abnormality on the sleeve surface?	Check the drive system of the devel- oper unit, or clean the sleeve sur- face.
Drive system	6	Are the drum and scanner jittering?	Check each drive system.
High-voltage transformer (Main charger / Developer bias / Transfer charger)	7	Is the high-voltage transformer out- put defective?	Adjust the output, or replace the transformer.
Transfer charger	8	Is any foreign matter such as paper shred sticking to the transfer charger wire?	Remove the foreign matter from the wire.
Feed system	9	Is the aligning amount proper?	Adjust the aligning amount.

11)Skew (inclined image)



Fig. 5-11

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 sheets or less. (2500 sheets or less/stack for LCF)
	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 regis- tration 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.
Carriage-1	9	Is the carriage-1 slanted?	Adjust the carriage-1.

12)Black banding (in the feeding direction)



Fig. 5-12

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 elec- trode.
	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 sur- face?	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.

13)Black banding (at right angle with the feeding direction)



Fig. 5-13

Defective area	Step	Check items	Prescription
Main charger	1	Is the needle electrode dirty or deformed?	Clean or replace the needle elec- trode.
Fuser unit	2	Are the fuser roller, separation finger for fuser roller and thermistor dirty?	Clean them.
	3	Has the cleaning roller, pressure roller, fuser roller and separation fin- ger for fuser roller reached their PM life?	Replace them.
High-voltage transformer (Main charger / Developer bias / Transfer charger)	4	Is the high-voltage transformer out- put 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 condi- tion of the cleaning blade and recov- ery blade.
Scanner	7	Is there a foreign matter on the car- riage rail?	Remove the foreign matter.



Fig. 5-14

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 mate- rial, 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 sur- face?	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 elec- trode.
High-voltage transformer (Main charger / Developer bias / Transfer charger)	10	Is the high-voltage transformer out- put defective?	Adjust the output, or replace the transformer.
Transfer/Separation charger	11	Is there any foreign matter such as fiber in the paper transport area of the transfer/separation charger?	Clean the transfer/separation charger.

15)Poor image transfer



Fig. 5-15

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 charger	5	Is the transfer charger case dirty?	Clean the transfer charger case.
	6	Is the transfer charger wire dirty?	Clean the transfer charger wire.
Registration roller	7	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 charger)	8	Is the high-voltage transformer out- put defective?	Adjust the output, or replace the transformer.

16)Uneven image density



Fig. 5-16

Defective area	Step	Check items	Prescription
Main charger	1	Is the main charger dirty?	Clean or replace the needle elec- trode and main charger grid.
Transfer charger	2	Is the transfer charger dirty?	Clean the transfer charger.
	3	Is the transfer charger wire dirty?	Clean the transfer charger wire.
Laser optical unit	4	Is there any foreign matter or stain on the slit glass?	Remove the foreign matter or stain.
Discharge LED	5	Are the connectors of discharge LED harness securely connected?	Reconnect the harness securely.
	6	Is the discharge LED dirty?	Clean the discharge LED.
	7	Is any of the discharge LEDs off?	Replace the discharge LED.
Developer unit	8	Is the magnetic brush in proper con- tact with the drum?	Adjust the doctor-sleeve gap.
	9	Is the developer sleeve pressuriza- tion mechanism working?	Check the mechanism.
	10	Is the developer material transported normally?	Remove foreign matters if there is any.
Scanner section	11	Is the platen cover or RADF opened?	Close the platen cover or RADF.
	12	Are the original glass (especially the position of shading correction plate), mirror and lens dirty?	Clean them.

17)Faded image (low density, abnormal gray balance)



Fig. 5-17

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 car- tridge?	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 con-	Check the installation of the devel-
			Adjust the doctor-sleeve gap and polarity.
	8	Is the developer sleeve pressuriza- tion mechanism working?	Check the mechanism.
Main charger	9	Is the main charger dirty?	Clean it or replace the needle elec- trode 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 charger	12	Is the transfer charger wire cut off?	Replace the transfer charger wire.
High-voltage transformer	13	Is the setting for the high-voltage transformer proper?	Adjust the output from the high-volt- age transformer.
	14	Are the connectors of the high-volt- age 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.

18)Image dislocation in feeding direction



Fig. 5-18

Defective area	Step	Check items	Prescription
Scanner/Printer adjust- ment	1	Have the printed images been dislo- cated 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 alco- hol. Securely attach the springs.
	3	Is the registration roller working prop- erly?	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.

5

19) Jittering image



Fig. 5-19

Defective area	Step	Check items	Prescription
_	1	Is the toner image on the drum nor- mal?	If normal, perform steps 2 to 4. Per- form step 5 and followings in case the image is abnormal.
Registration roller	2	Is the registration roller rotating nor- mally?	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 car- riage foot?	Replace the carriage foot.
	7	Is the tension of the timing belt nor- mal?	Adjust the tension.
	8	Is there any problem with the drive system of the carriage?	Check the drive system of the car- riage.
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.

20)Poor cleaning



Fig. 5-20

Defective area	Step	Check items	Prescription
Developer material	1	Using the specified developer mate- rial?	Use the specified developer material and toner.
Cleaner	2	Is the cleaning blade in proper con- tact with the drum?	Check the cleaning blade.
	3	Has the cleaning blade been turned up?	Replace the cleaning blade. Check and replace drum if neces- sary.
Toner recovery auger	4	Is the toner recovered normally?	Clean the toner recovery auger. Check the pressure of the cleaning blade.
Fuser unit	5	Is the cleaning roller damaged or has it reached its PM life?	Replace the cleaning roller.
	6	Are there bubble-like scratches on the fuser roller (94 mm pitch on the image)?	Replace the fuser roller. Check and adjust the temperature control circuit.
	7	Has the fuser roller reached its PM life?	Replace the fuser roller.
	8	Is the pressure of the fuser roller nor- mal?	Check and adjust the mechanism.
	9	Is the setting temperature of the fuser roller normal?	Check the setting and correct it. 08-407, 410, 411, 450, 515, 516

21)Uneven light distribution



Fig. 5-21

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, mir- rors, lens, and original glass (espe- cially 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.



Fig. 5-22

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.
Separation	3	Is the output from the separation charger too high?	Adjust the output, from the separa- tion charger.
Transfer	4	Is the transfer charger case dirty?	Clean the transfer charger case.
	5	Is the transfer charger wire dirty?	Clean the transfer charger wire.
High-voltage transformer (Transfer charger)	6	Is the output from the high-voltage transformer normal?	Adjust the output. Replace the trans- former if necessary.

5.3 Replacement of PC Boards and HDD

When the HDD requires replacement, refer to \square P. 5-118 "5.3.1 Replacing HDD". When the SYS board requires replacement, refer to \square P. 5-121 "5.3.2 Replacing SYS board".

5.3.1 Replacing HDD

<<CAUTION IN REPLACING 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.

Notes:

- 1. <u>To maintain the security, ask users to perform the backup/restore for users' data/information</u> in the HDD. The service technician can perform them only when users permit it.
- 2. Some data in the HDD cannot be backed up and can be kept only on the paper.
- When 08-690 is performed, the HDD self-certificate is not available, so the SSL-related setting becomes disabled. (e-STUDIO202L/203L/232/233/282/283)

The procedure for replacing the HDD is as follows.

[A] Ask users to back up the data in the HDD. See the following for the item of data, and the possibility and the measure of the backup.

- Image data in the Electronic Filing 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".
- (2) F-code information, Template registration information, Address book Back them up in the "Administrator" menu of TopAccess.
- (3) Department management data Export them in "Administrator" menu of TopAccess.
- (4) Log data (Print, Scan, FAX (Transmission / Reception)) Export them in the "Administrator" menu of TopAccess. (Import cannot be performed.)
- (5) Data in the shared folder (Scanned data, Saved data of copy / FAX transmission) 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.)
 Finish printing them after the paper supply and the jam release, etc. (The data cannot be kept.)
- (7) Print job (Private print data, Schedule print data)If any job is left, print them. (The data cannot be backed up.)
- (8) FAX saved data (Confidential / Bulletin board data) Print them. (The data cannot be backed up.)
- (9) Registration data for FAX transmission (Delayed transmission / Recovery transmission) The data cannot be backed up.

[B] Print out the "FUNCTION LIST FOR MAINTENANCE" (content of Function Mode (13) setting) list.

- (1) Press the [USER FUNCTIONS] button and then the [USER] button.
- (2) Press the [LIST] button.
- (3) Key in [*] [#] [*] [*] [3] [3] and then press the [START] button. \rightarrow The list is outputted.

[C] Print out the "FUNCTION" list.

- (1) Press the [USER FUNCTIONS] button.
- (2) Press the [ADMIN] button, enter the password, and then press the [ENTER] button.
- (3) Press the [LIST/REPORT] button and then the [LIST] button.
- (4) Press the [FUNCTION] button. \rightarrow The list is outputted.

[D] Replace the HDD.

[E] Update of HDD program data and UI data.

- Create partitions. (In case of using the download jig, this is not necessary.) While pressing [3] and [CLEAR] button, turn the power ON. When "Firmware Version Up Mode" appears on the LCD, key in [3] and press the [START] button.
- (2) Format the HDD. (Setting Mode (08-690: 2))
- Update with the download jig or USB storage.
 See P. 6-1 "6. FIRMWARE UPDATING" for details.
- (4) Format the HDD. (Setting Mode (08-690: 2))
 * When the FAX unit (GD-1150/1151) is installed. Start up with the FAX Clearing Mode (1*) Perform the 1*-100 (FAX Set Up), 1*-102 (Clearing the image data) of the FAX Clearing Mode.

[F] Ask users to reset the user's setting items and to restore the data/information. See the following for the reset and the restore.

- (1) Printer driver Upload them in the "Administrator" menu of TopAccess.
- (2) F-code information, Template registering information, Address book Restore them in the "Administrator" menu of TopAccess
- (3) Department management data Import them in the "Administrator" menu of TopAccess.
- (4) Image data in the Electronic Filing Upload them in the "e-Filing" of TopAccess.

(5) When the SSL is enabled, perform the setting of the following items again with "Create self-certificate" of TopAccess. (e-STUDIO202L/203L/232/233/282/283)

Country Name State or Province Name Locality Name Organization Name Organizational Unit Name Common Name Email Address

(6) 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. (e-STUDIO202L/203L/232/233/282/283)
 CA certificate
 User certificate

[G] Referring to the "FUNCTION LIST FOR MAINTENANCE" list which was printed beforehand, perform the re-setting.

- (1) Print out the "FUNCTION LIST FOR MAINTENANCE" list after the formatting. (Refer to the procedure of (2).)
- (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.
- [H] Referring to the "FUNCTION" list which was printed beforehand, perform the re-setting of the default setting of the FAX function.
 - (1) Press the [USER FUNCTIONS] button.
 - (2) Press the [ADMIN] button, enter the password, and then press the [ENTER] 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.

5.3.2 Replacing SYS board

<<CAUTION IN REPLACING the SYS board>> The procedure for replacing the SYS board is as follows.

<After replacing the SYS board>

- (1) Install DIMM (main memory) to the new SYS board (from the old SYS board).
- (2) Install NVRAM to the new SYS board (from the old SYS board).
- (3) Install NIC board to the new SYS board (from the old SYS board). (e-STUDIO200L/230/230L/ 280)
- (4) Update the version of system ROMs (System Firmware, OS data, UI data) (The ROMs had been used for the old SYS board).
 - * See 🛄 P. 6-1 "6. FIRMWARE UPDATING" for the details of System ROM update.
- (5) Turn the power OFF and start up with the Setting Mode (08).

Note:

Be sure to start up with the Setting Mode (08), not the normal mode immediately after the System ROM update, and then perform the following steps.

- (6) When the message "SRAM ERROR DOES IT INITIALIZE?" is displayed on the LCD, press the [INITIALIZE] button.
 - * SRAM is cleared
 - If SRAM is not performed, F090 error occurs when starting up.

Notes:

• When SRAM is cleared, following items need to be re-set, so make sure the contents of settings are kept as a record.

<FAX settings> Terminal ID Default setting of fax

<E-mail settings> Setting of properties for E-mail message

<Internet Fax> Setting of properties for Internet Fax

- When SRAM is cleared, the toner cartridge consumed count of Automatic ordering function of supplies becomes 0, however, it cannot be re-set.
- (7) [If a scrambler board has already been installed] Perform 08-698 (Entering the key code for scrambler board). Have the user enter the key code.
- (8) Perform 08-200 (date and time setting) to set Date/Time.
- (9) Check the serial number after performing 08 Code 995. If the number is different from the number on the label attached on the rear cover of the machine, re-input the correct number with 08 Code 995. (e-STUDIO202L/203L/232/233/282/283)
- (10) Perform 08-693 (initialization of the NIC information). (e-STUDIO202L/203L/232/233/282/283)

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- (11) Turn the power OFF.
 - * If the FAX board has not been installed, skip to step (13).
- (12) Start up with the FAX Clearing Mode (1*)
- (13) Perform 1*-102 (Clearing the image data).

Note:

Following image data are deleted when 1*-102 is performed.

- Images of fax polling transmission
- Images of fax Mailbox and box information
- Images of fax transmission
- Images of fax reception
- (14) Turn the power OFF.
- (15) Turn the power ON.
- (16) Set the dial type. [USER FUNCTIONS] →[ADMIN] →[FAX] →[INITIAL SETUP]
5.3.3 Caution when Data overwrite kit (GP-1050/1060) is installed

When the Data overwrite kit (GP-1050/1060) is installed, follow the cautions below.

<<Caution when disposing of the HDD>>

Be sure to perform 08-1426 (forcible HDD data clearing) before disposing of the HDD of the equipment.

* When the scrambler board is installed, data in the HDD are overwritten with encrypted data and erased.

<<Caution when disposing of the SYS board>>

Before the SYS board is disposed, the following codes can be performed.

- 08-1427 (Forcible NVRAM data all clearing)
- 08-1428 (Forcible SRAM backup data all clearing)

Caution:

If these codes are performed, the equipment cannot be started up.

5.3.4 HDD information display

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 08-670.

— HDD manufacturer	Model name	e HDD seria	l numb	er	
100% 670 TEST MODE]				
<pre> {WDCXWD800BB-22JHC0> (WD- </pre>	WMAM9204944	13)			
ID NAME		VALUE	NAV	Worst	
01 Read Error Rate		0	200	200	
02 Throughput Performan	се				
03 Spin Up Time		2691	166	165	
04 Spin Start/Stop Coun	t	216	100	100	
05 Re-allocated Sector	Count	0	200	200	
Prev	ENTER				1/6

- 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		Description	Diagnosis	
ID	VALUE	Description	Diagnosis	
05	0	Low possibility of physical failure	HDD replacement	
c5	0		is not required.	
05	From 1 to 999	Defective sector has been reassigned and HDD is recovered.	HDD replacement	
c5	0		is not required.	
05	Any value	High possibility of defective sector existence. (There will be a	HDD replacement	
c5	1 or more	possibility of physical failure depending on the use of HDD.)	is recommended.	
05	Either one is at	High possibility of physical failure	HDD replacement	
c5	least 1000.		is recommended.	
05	All values are dis-	High possibility of physical failure (A HDD connector, harness	HDD replacement	
c5	played as "".	or SYS board may be one of the causes.)	is recommended.	

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 dur- ing 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 reallo- cation 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 uncorrect- able 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.

5.3.5 Replacing or clearing NVRAM

<<Caution in replacing or clearing NVRAM>>

When NVRAM has been replaced or cleared ("System all clearing (08-669)"), the setting must be performed according to the following procedure.

- (1) Take off the FAX board if installed.
- (2) Turn the power OFF and start up with the Setting Mode (08).

Note:

Be sure to start up with the Setting Mode (08), not the normal mode immediately after the NVRAM replacement or clearing, and then perform the following steps.

- (3) Perform the panel calibration (08-692).
- (4) Perform the counter copying (08-257 Sub-code: 1).
- (5) Perform the initialization at the software version upgrade (08-947).
- (6) Check the serial number after performing "Equipment number display" (08-995). If the number is different from the one on the label attached to the rear cover of the equipment, enter the correct serial number again with 08-995.

Note:

The MAC address of the equipment is generated based on this serial number. Entering the incorrect serial number may result in an inability to access the network due to an invalid MAC address.

- (7) Initialize the NIC information (08-693).
- (8) Turn the power OFF.
- (9) Install the FAX board taken off in step (1).
 * If the FAX board has not been installed, the following steps are not necessary.
- (10) Start up with the Setting Mode (08).
- (11) Set the destinction with "Destination setting of FAX machine" (08-701).
- (12) Start up with FAX Clearing Mode (1*).
- (13) Perform "FAX Set Up" (1*-100).
- (14) Turn the power OFF.
- (15) Turn the power ON.
- (16) Set the dial type. [USER FUNCTIONS] →[ADMIN] →[FAX] →[INITIAL SETUP]

6. FIRMWARE UPDATING

In	this	equipment.	following	firmware	is written	on the	ROM on	each board.
		oquipritorit,	ronoming	mmunu	10 111111011	011 010	110101	ouon bound.

Firmware	Stored	Update method
Master data (HDD program data, UI data)	Hard disk	USB Storage Device
System ROM (System firmware, OS data, UI data)	System control PC board (SYS board) <e-studio202l 203l="" 232="" 233="" 282="" 283=""> The system firmware is stored into the hard disk from the FROM basic section software version "V1.00/4.22".</e-studio202l>	USB Storage Device * When replacing the system control PC board (SYS board), update with the Download jig.
Engine ROM (Machine firmware)	Logic PC board (LGC board)	USB Storage Device * Updating with the Download jig is also possible.
Scanner ROM (Scanner firmware)	Scanning section control PC board (SLG board)	USB Storage Device * Updating with the Download jig is also possible.
NIC ROM (NIC firmware) (e-STUDIO200L/230/230L/280 only)	NIC board	Download jig
RADF ROM (RADF firmware)	RADF control PC board (MR-3016/MR- 3020)	Download jig
Finisher ROM (Finisher firmware)	Finisher control PC board (MJ-1025)	Download jig
FAX ROM (FAX firmware)	FAX board (GD-1150/1151)	Download jig

When you want to update the firmware above or the equipment becomes inoperative status due to some defectives of the firmware, updating the firmware is available by the following actions.

<e-STUDIO200L/230/230L/280>

- Updating with the download jig
 P.6-3 "6.1 Firmware Updating with Download Jig (e-STUDIO200L/230/230L/280)"
- Updating with PC connected
 P.6-60 "6.3 Firmware Updating with FSMS (Field Service Manager) (e-STUDIO200L/230/230L/ 280)"
- Updating with the USB Storage Device
 □ P.6-72 "6.4 Firmware Updating with USB Storage Device (e-STUDIO200L/230/230L/280)"

<e-STUDIO202L/203L/232/233/282/283>

- Updating with the download jig
 P.6-32 "6.2 Firmware Updating with Download Jig (e-STUDIO202L/203L/232/233/282/283)"
 Updating with the USB Storage Device
- Updating with the USB Storage Device
 P.6-86 "6.5 Firmware Updating with USB Storage Device (e-STUDIO202L/203L/232/233/282/ 283)"

Notes:

- < e-STUDIO202L/203L/232/233/282/283 > Before updating the firmware, check the FROM basic section software version (perform the code 08-920).
- < e-STUDIO202L/203L/232/233/282/283 > For updating with the USB Storage Device; The firmware can be updated to the latest version by storing the update program together with the firmware data file for updating in the USB Storage Device.
- < e-STUDIO202L/203L/232/233/282/283 > For updating with the download jig; Before the FROM basic section software is updated from "V1.00 / 1.12" or earlier version to the latest one, update it to "V1.00 / 4.22" first. Select all of the SYS, OS, UI and HDD when updating "V1.00 / 1.12" or earlier versions.
- 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 NIC board and FAX board. The latest version of the firmware at the delivery is written on the RADF control PC board and finisher control PC board.

When any of above boards is replaced with a new one in the field, confirm the other firmware version used with and then write the suitable version of the firmware.

• 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, confirm the other firmware version used with and then write the suitable version of the firmware.

6.1 Firmware Updating with Download Jig (e-STUDIO200L/230/230L/280)

In this equipment, it is feasible to update the firmware automatically by connecting the download jig using the dedicated connector and turning ON the equipment.

The download jig consists of the ROM, in which the program is written, and the jig board. And three types of the download jigs are available for each type of the firmware.

For updating the firmware, in addition to the current ways such as updating each firmware individually, the batch update of the firmware of the equipment is available (except the hard disk and the option).

Firmwore	Stored	Download jig		
Firmware	Stored	Individual update	Batch update	
Master data	Hard disk	PWA-DWNLD-350-JIG2 (48 MB)	_	
System ROM	System control PC board (SYS board)	PWA-DWNLD-350-JIG1 (16 MB)		
Engine ROM	Logic PC board (LGC board)	K-PWA-DLM-320 or PWA-DWNLD-350-JIG1 (16 MB)	PWA-DWNLD-350-JIG1 (16 MB)	
Scanner ROM	Scanning section control PC board (SLG board)	K-PWA-DLM-320 or PWA-DWNLD-350-JIG1 (16 MB)		
NIC ROM	NIC board	PWA-DWNLD-350-JIG1 (16 MB)		
RADF ROM	RADF control PC board (MR-3016)	K-PWA-DLM-320		
Finisher ROM	Finisher control PC board (MJ-1025)	K-PWA-DLM-320	_	
FAX ROM	FAX board (GD-1150)	K-PWA-DLM-320	—	

Refer to the following for the details to update with each download jig.

P.6-5 "6.1.1 PWA-DWNLD-350-JIG2 (48 MB)"

P.6-12 "6.1.2 PWA-DWNLD-350-JIG1 (16 MB)"

P.6-22 "6.1.4 K-PWA-DLM-320"

6



Fig. 6-1 Jig board: PWA-DWNLD-350-JIG2 (48 MB)





Important:

 The download jig (PWA-DWNLD-350-JIG) has two types having different ROM capacity. ROM capacity for each jig is as follows.

Download jig	ROM capacity	Application
PWA-DWNLD-350-JIG2 (48 MB)	8 MB x 6	Updating the master data
PWA-DWNLD-350-JIG1 (16 MB)	8 MB x 2	Updating the system ROM, engine ROM, scanner ROM, NIC ROM

- * "PWA-DWNLD-350-JIG2 (48 MB)" is substitutable for "PWA-DWNLD-350-JIG1 (16 MB)"
- The download jig (PWA-DWNLD-350-JIG) is different type jig. The Flash ROM is installed 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.
 P.6-21 "6.1.3 Writing the data to the download jig (PWA-DWNLD-350-JIG)"



Fig. 6-3 Jig board: K-PWA-DLM-320

Important:

Pay attention to the direction of the ROM.

6.1.1 PWA-DWNLD-350-JIG2 (48 MB)

The master data written on the hard disk can be updated by using PWA-DWNLD-350-JIG2 (48 MB). Update the master data according to the need such as the case of replacing the hard disk. The data to be overwritten are as follows.

- HDD program data (RIP data, list data, Web data, filing box control data)
- UI data (fixed section data, common section data, the language 1 to 7 data, the language 1 to 6 data for Web)

[A] Update procedure

Important:

- Use the download jig "PWA-DWNLD-350-JIG2 (48 MB)".
- Turn OFF the power before installing and removing the download jig.
- Do not turn OFF the power during the update. The data could be damaged and not be operated properly.
- Write the data to the download jig.
 P.6-21 "6.1.3 Writing the data to the download jig (PWA-DWNLD-350-JIG)"
- (2) Turn OFF the power of the equipment.
- (3) Remove the cover plate.



Fig. 6-4

6

(4) Connect the download jig with the jig connector (CN100) on the SYS board.



(5) Turn ON the power.
 Downloading starts automatically and the processing status is displayed on LCD screen.

Download Board Firmware Update Mode Download Board -> HDD Update Start. Check Devices - Checking Update Status -

Fig. 6-6

(6) "Update Completed!!" is displayed at the bottom of the LCD screen after the updating is completed properly.

```
Download Board Firmware Update Mode
Download Board -> HDD Update Start.
Check Devices - Completed
Update Status - Completed
Update Completed!!
```

Fig. 6-7

"Update Failed." is displayed at the bottom of the LCD screen when the updating is not completed properly. Turn OFF the power, and then check the following items. After confirming and clearing the problems, 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?

```
Download Board Firmware Update Mode
Download Board -> HDD Update Start.
Check Devices - Checking
Update Status -
Update Failed.
```

Fig. 6-8

- (7) Turn OFF the power, and then remove the download jig.
- (8) Perform the "Updating System ROM" continuously.
 P.6-12 "6.1.2 PWA-DWNLD-350-JIG1 (16 MB)" <Updating System ROM>

6

[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 was overwritten properly.

08-900: System ROM version 08-920: FROM basic section software version 08-921: FROM internal program version 08-922: UI data fixed section version 08-923: UI data common section version 08-924: Version of UI data language 1 in HDD 08-925: Version of UI data language 2 in HDD 08-926: Version of UI data language 3 in HDD 08-927: Version of UI data language 4 in HDD 08-928: Version of UI data language 5 in HDD 08-929: Version of UI data language 6 in HDD 08-931: Version of UI data language 7 in HDD 08-930: Version of UI data in FROM displayed at power ON 08-933: HDD unit data version 08-934: Version of Web UI data language 1 in HDD 08-935: Version of Web UI data language 2 in HDD 08-936: Version of Web UI data language 3 in HDD 08-937: Version of Web UI data language 4 in HDD 08-938: Version of Web UI data language 5 in HDD 08-939: Version of Web UI data language 6 in HDD

[C] Display during the update

The processing status is displayed as follows on the LCD screen during the update.



When the device check completes, copying the data to HDD starts.







Download Board Firmware Update Mode Download Board -> HDD Update Start. Check Devices Completed --Update Status Completed ххх/ууу Update Completed!!

Г

* If an error occurs, the following error message is displayed and the update is interrupted.



Error message

6.1.2 PWA-DWNLD-350-JIG1 (16 MB)

The firmware of the equipment except the hard disk and the option can be updated individually or in a batch by using PWA-DWNLD-350-JIG1 (16 MB). 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, scanning section control PC board, or NIC board.

The data to be overwritten by this update are as follows.

<Updating System ROM>

- System firmware (System firmware data, FROM internal program data)
- OS data (FROM basic section software)
- UI data (fixed section data, common section data, UI data in FROM displayed at power ON)

<Updating Engine ROM> Engine ROM data

<Updating Scanner ROM> Scanner ROM data

<Updating NIC ROM> NIC ROM data

[A] Update procedure

Important:

- Use the download jig "PWA-DWNLD-350-JIG1 (16 MB)". ("PWA-DWNLD-350-JIG2 (48 MB)" is substitutable.)
- Turn OFF the power before installing and removing the download jig.
- Do not turn OFF the power during the update. The data could be damaged and not be operated properly.
- Write the ROM data to be updated to the download jig.
 P.6-21 "6.1.3 Writing the data to the download jig (PWA-DWNLD-350-JIG)"
- (2) Turn OFF the power of the equipment.
- (3) Remove the cover plate.



Fig. 6-9

(4) Connect the download jig with the jig connector (CN100) on the SYS board.



Fig. 6-10

(5) Turn ON the power while [8] button and [9] button are pressed simultaneously. The screen for selecting the items to be updated is displayed. "*" is displayed next to the items to be updated. (All items are selected in the default settings.)

		Version in upda	ate media
Downlo	oad Board Firmware Update Mode		
Selec	t Update Item	OS Version	Vx. xx/x. xx
		UIF Version	Vxxx. xxx. x
*1.	OS Update	UIO Version	Vxxx. xxx. x
*2.	UI Update	UI1 Version	Vxxx. xxx. x
*3.	System Firmware Update	SYS Version	Vxxx. xxx. x
*4.	NIC Firmware Update	NIC Version	XXXXXXXX. XXX
*5.	Scanner Firmware Update	SCN Version	xxxxx-xxx
*6.	Machine Firmware Update	MCN Version	xxxxx-xxx

Fig. 6-11

(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. All items are selected in the default settings.

- Select all items to update the firmware of the equipment in a batch.
- · Select items as follows to update it individually.

<Updating System ROM> Select "1. OS Update", "2. UI Update", and "3. System Firmware".

- <Updating Engine ROM> Select "6. Machine Firmware Update" only.
- <Updating Scanner ROM> Select "5. Scanner Firmware Update" only.
- <Updating NIC ROM> Select "4. NIC Firmware Update" only.

Example: Updating the system ROM (Updating the system ROM is taken as an example and explained.)

		Version in upda	ate media
Downlo	oad Board Firmware Update Mode		
Selec	t Update Item	OS Version	Vx. xx/x. xx
		UIF Version	Vxxx. xxx. x
*1.	OS Update	UIO Version	Vxxx. xxx. x
*2.	UI Update	UI1 Version	Vxxx. xxx. x
*3.	System Firmware Update	SYS Version	Vxxx. xxx. x
4.	NIC Firmware Update	NIC Version	XXXXXXXX. XXX
5.	Scanner Firmware Update	SCN Version	xxxxx-xxx
6.	Machine Firmware Update	MCN Version	xxxxx-xxx



(7) Press the [START] button.

Updating starts and the processing status is displayed on the LCD screen.

Download Board Firmware Update Mode Download Board -> FROM Update Start. Check Devices -Checking Update Status _ Data Check

Fig. 6-13

(8) "Update Completed!!" is displayed at the bottom of the LCD screen after the updating is completed properly.

```
Download Board Firmware Update Mode
                                       OS Update
                                                                Completed
                                                   . . .
Download Board -> FROM Update Start.
                                      UI Data Update ...
                                                                Completed
                                      SysFirm Update ...
                                                                Completed
  Check Devices -
                      Completed
  Update Status –
                      Completed
  Data Check -
                      Completed
                            Update Completed!!
```

Fig. 6-14

"Update Failed." is displayed at the bottom of the LCD screen when the updating is not completed properly. Turn OFF the power, and then check the following items. After confirming and clearing the problems, 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?

```
Download Board Firmware Update Mode
Download Board -> FROM Update Start.
Check Devices - Checking
Update Status -
Data Check -
Update Failed.
```



* When the updating of the NIC firmware is failed, an error message is displayed as the figure below. Turn OFF the power and then check the above-mentioned items. After confirming them, select only "4. NIC Firmware Update" and restart updating from the beginning. This may complete the updating properly.

Download Board Firmware Update Mode Download Board -> FROM Update Start. Check Devices - Completed Update Status - Completed Data_Check Completed (NIC UPDATE FAILED 1)	OS Update UI Data Update SysFirm Update NICFirm Update	Completed Completed Completed Flash Update
Update Fai	led.	

NIC error message

Fig. 6-16

If the updating of the NIC firmware is still failed, check the prescription corresponding to the error message. After confirming and clearing the problem, restart updating from the beginning.

NIC Error Message	Error Contents	Prescription
NIC UPDATE FAILED 1	NIC initialization time-out	 The IP address may not be assigned correctly. Is the IP address assigned correctly? Does the IP address conflict with the other system? If the error still occurs, replace the NIC board because it may be destroyed.
NIC UPDATE FAILED 2	ATA driver initialization error	 The HDD cable may be disconnected. Is the HDD cable connected correctly? If the HDD cable is connected correctly, replace the SYS board because it may be destroyed.
NIC UPDATE FAILED 3	HDD partition mount error	Replace the HDD because it may be destroyed.
NIC UPDATE FAILED 4	NIC setting information backup error	Replace the HDD because it may be destroyed.
NIC UPDATE FAILED 5	NIC firmware transfer error	Replace the NIC board because it may be destroyed.
NIC UPDATE FAILED 6	NIC firmware writing error	Replace the NIC board because it may be destroyed.
NIC UPDATE FAILED 7	NIC status time-out	Replace the NIC board because it may be destroyed.

Note:

If the updating of the NIC firmware is not completed properly, wait 5 minutes or more from the beginning of the updating before turning OFF the power, and then restart updating from the beginning. If you turn OFF the power within 5 minutes, HDD may be destroyed.

- (9) Turn OFF the power, remove the download jig and install the cover plate.
- (10) Perform the initialization of the updating data (NVRAM updating).
 - Turn ON the power while [0] button and [8] button are pressed simultaneously.
 - Key in "947", 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 was overwritten properly.

<Updating System ROM> 08-900: System ROM version 08-920: FROM basic section software version 08-921: FROM internal program version 08-922: UI data fixed section version 08-923: UI data common section version 08-930: Version of UI data in FROM displayed at power ON

<Updating Engine ROM> 08-903: Engine ROM version

<Updating Scanner ROM> 08-905: Scanner ROM version

<Updating NIC ROM> 08-916: NIC ROM version

6

[C] Display during the update

The processing status is displayed as follows on the LCD screen during the update. (As an example, the display for updating the system ROM is explained below.)



Press [START] button after selecting the item to 7 be updated. The device check starts.

```
Download Board Firmware Update Mode
Download Board -> FROM Update Start.
Check Devices - Checking
Update Status -
Data Check -
```



When the device check completes, erasing the data in the ROM of the equipment starts.

Download Board F Download Board —:	irmware Update Mode > FROM Update Start.	OS Update	
Check Devices Update Status Data Check	- Completed - Erasing -		

When erasing the data completes, copying the data to the ROM of the equipment starts. Л

Download Board Firmware Update Mode Download Board -> FROM Update Start.	OS Update
Check Devices - Completed Update Status - Installing Data Check -	

When copying the data completes, verifying the data starts.

Download Board Fi Download Board ->	irmware Update Mode > FROM Update Start	e OS Update t.	
Check Devices Update Status Data Check	 Completed Completed Verifying 		

When verifying the data completes, copying Л and verifying the other data are implemented repeatedly.

6

Download Board Fi	rmware Update Mode	OS Update	Completed
Download Board ->	FROM Update Start.	UI Data Update	
Check Devices Update Status Data Check	- Completed - Installing -		

 $\frac{1}{\sqrt{2}}$

When copying and verifying all the data com-plete, the update completes with the following screen.

Download Board Firmware Update Mode OS Update ... UI Data Update ... OS Update Completed Download Board -> FROM Update Start. Completed SysFirm Update ... Completed Check Devices -Completed Update Status -Completed Data Check – Completed Update Completed!!

* If an error occurs, the following error message is displayed and the update is interrupted.



Error message

6.1.3 Writing the data to the download jig (PWA-DWNLD-350-JIG)

The download jig (PWA-DWNLD-350-JIG) differs from the existing jigs in that the Flash ROM is mounted on the board of the jig 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. 6-17

Note:

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	PWA-DL-ADP-350-1881
(or equivalent)	(model 1881)
Minato Electronics MODEL 1893/1895/1931/1940	PWA-DL-ADP-350-1931
(or equivalent)	(model 1931)



Fig. 6-18 PWA-DL-ADP-350-1881



Fig. 6-19 PWA-DL-ADP-350-1931

6

[A] Precaution when writing the data

- Set the writing voltage (VID) to 3.3V.
- When writing the data, set the address from 0 to 3FFFFF. The data may not be written correctly if it is not set.
- The Flash ROM in which the data will be written, on the download jig is selected by switching the rotary switch on the adapter. Be sure to switch the rotary switch on the adapter depending on the data (file) to be written.

Important:

When an error such as "Over current detects" appears while the data are being written to the download jig and the writing cannot be finished, set the writing voltage (VID) to 12 V and then write them.

	File I		
Rotary Switch	Master Data (PWA-DWNLD-350-JIG2)	System, Engine, Scanner and NIC data (PWA-DWNLD-350-JIG1)	Flash ROM
1	ROM. bin	ROM. bin	ROM1
2	1	Sysfirm. bin	ROM2
3	2	N/A	ROM3
4	3	N/A	ROM4
5	4	N/A	ROM5
6	N/A	N/A	ROM6

Note:

Be sure not to confuse different ROM Versions since the file name is identical although the ROM version is different.

6.1.4 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.

The data to be overwritten by this update are as follows.

<Updating Engine ROM>

Engine ROM data

- <Updating Scanner ROM> Scanner ROM data
- <Updating RADF ROM> RADF ROM data
- <Updating Finisher ROM> Finisher ROM data
- <Updating FAX ROM> FAX ROM data

[A] Update Procedure

Since the procedure differs depending on the data, see the each procedure below.

Important:

- Turn OFF the power before installing or removing the download jig.
- Do not turn OFF the power during the update. The data could be damaged and not be operated properly.

<Updating Engine ROM>

- Install the ROM to the download jig. Make sure the direction is correct (P.6-4 "Fig. 6-3").
- (2) Turn OFF the power of the equipment.
- (3) Take off the connector cover.



Fig. 6-20

(4) Remove the cover plate.



Fig. 6-21

6 - 23

(5) Connect the download jig with the jig connector (CN316) on the logic PC board (LGC board).



Fig. 6-22

- (6) Turn ON the power while [0] button and [8] button are pressed simultaneously. 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 in approx. 20 sec. since the update starts. It is assumed that the update is failed if it does not start blinking even though 1 min. has passed. In this case, turn OFF the power and check the following items. Then, clear the problem 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) Turn OFF the power, remove the download jig and install the cover plate and the connector cover.

<Updating Scanner ROM>

- (1) Install the ROM to the download jig. Make sure the direction is correct (P.6-4 "Fig. 6-3").
- (2) Turn OFF the power of the equipment.
- (3) Take off the right upper cover-1.



Fig. 6-23

(4) Take off the right upper cover-2.



Fig. 6-24

(5) Remove the cover plate.



(6) Connect the download jig with the jig connector (CN22) on the scanning section control PC board (SLG board).





- (7) Turn ON the power while [0] button and [8] button are pressed simultaneously. 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 in approx. 20 sec. since the update starts. It is assumed that the update is failed if it does not start blinking even though 1 min. has passed. In this case, turn OFF the power and check the following items. Then, clear the problem 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) Turn OFF the power, remove the download jig and install the cover plate, the right upper cover-1 and the right upper cover-2.

<Updating RADF ROM (MR-3016)>

- Install the ROM to the download jig. Make sure the direction is correct (P.6-4 "Fig. 6-3").
- (2) Turn OFF the power of the equipment.
- (3) Take off the RADF rear cover.



Fig. 6-27

(4) Connect the download jig with the jig connector (CN14) on the RADF control PC board.





- (5) Turn ON the power while [0] button and [8] button are pressed simultaneously. Updating starts automatically and the LED on the download jig lights.
- (6) After the update is completed properly, the LED on the download jig blinks. The LED starts blinking in approx. 15 sec. since the update starts. It is assumed that the update is failed if it does not start blinking even though 1 min. has passed. In this case, turn OFF the power and check the following items. Then, clear the problem 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?
- (7) Turn OFF the power, remove the download jig and install the RADF rear cover.

<Updating Finisher ROM>

- Install the ROM to the download jig. Make sure the direction is correct (P.6-4 "Fig. 6-3").
- (2) Turn OFF the power of the equipment.
- (3) Take off the finisher rear cover.



Fig. 6-29

- * Connect the finisher interface cable with the equipment after removing the finisher rear cover.
- (4) Connect the download jig with the jig connector on the finisher control PC board.



Fig. 6-30

(5) Change the setting of he DIP switch on the finisher control PC board. Change all the setting of the DIP switch (1-8) to OFF.

Note:

Record the current settings of the DIP switch before changing them. After the updating is completed, return the DIP switch to the status as record.



Fig. 6-31

- (6) Turn ON the power while [0] button and [8] button are pressed simultaneously. 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 slowly. The LED starts blinking in approx. 20 sec. since the update starts. It is assumed that the update is failed if it does not start blinking even though 1 min. has passed, or LED flashes fast. In this case, turn OFF the power and check the following items. Then, clear the problem 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?
 - · Is the DIP switch on the finisher control PC board set properly?
- (8) Turn OFF the power, remove the download jig and return the DIP switch to the status before updating.
- (9) Install the finisher rear cover.

<Updating FAX ROM>

Important:

- Before updating the FAX ROM, make sure to print out the current Function list for maintenance, Function list (ADMIN), Phone book number information 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.
- Install the ROM to the download jig. Make sure the direction is correct (P.6-4 "Fig. 6-3").
- (2) Turn OFF the power of the equipment.
- (3) Remove the cover plate.



Fig. 6-32

(4) Connect the download jig with the jig connector (CN602) on the FAX board.



Fig. 6-33

- (5) Turn ON the power while [0] button and [8] button are pressed simultaneously. Updating starts automatically and the LED on the download jig lights.
- (6) After the update is completed properly, the LED on the download jig blinks. The LED starts blinking in approx. 30 sec. since the update starts. It is assumed that the update is failed if it does not start blinking even though 1 min. has passed. In this case, turn OFF the power and check the following items. Then, clear the problem 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?
- (7) Turn OFF the power, remove the download jig and install the cover plate.
- (8) In the FAX Clearing Mode, perform the "FAX Set up".
 - Confirm the destination setting is correct in the Setting Mode (08).
 08-201: Destination setting of the equipment
 08-701: Destination setting of the FAX machine
 - Turn ON the power 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).
 08-201: Destination setting of the equipment
 08-701: Destination setting of the FAX machine
- Turn ON the power while [1] button and [*] button are pressed simultaneously.
- Key in "102".
- Press the [START] button.

[B] Confirmation of the updated data

After the updating is completed, check each data version in Setting Mode (08) to confirm that the data was overwritten properly.

<Updating Engine ROM> 08-903: Engine ROM version

<Updating Scanner ROM> 08-905: Scanner ROM version

<Updating RADF ROM> 08-907: RADF ROM version

<Updating Finisher ROM> 08-908: Finisher ROM version

<Updating FAX ROM> 08-915: FAX ROM version

6.2 Firmware Updating with Download Jig (e-STUDIO202L/203L/232/233/282/283)

In this equipment, it is feasible to update the firmware automatically by connecting the download jig using the dedicated connector and turning ON the equipment.

The download jig consists of the ROM, in which the program is written, and the jig board.

And two types of the download jigs are available for each type of the firmware.

For updating the firmware, in addition to the current ways such as updating each firmware individually, the batch update of the firmware of the equipment is available (except the hard disk and the option).

Firmwara	Stored	Download jig		
Filliwale		Batch update	Individual update	
System ROM	System control PC board (SYS board) * The system firmware is stored into the hard disk from the FROM basic section software version "V1.00/4.22".	PWA-DWNLD-350- JIG2 (48 MB)	-	
Engine ROM	Logic PC board (LGC board)		K-PWA-DLM-320	
Scanner ROM	Scanning section control PC board (SLG board)		K-PWA-DLM-320	
RADF ROM	RADF control PC board (MR-3020)	-	K-PWA-DLM-320	
Finisher ROM (Finisher firmware)	Finisher control PC board (MJ-1025)	-	K-PWA-DLM-320	
Finisher ROM (Saddle stitcher firmware)	Finisher control PC board (MJ-1024)	-	K-PWA-DLM-320	
FAX ROM	FAX board (GD-1150/1151)	-	K-PWA-DLM-320	

Refer to the following for the details to update with each download jig.

P.6-34 "6.2.1 PWA-DWNLD-350-JIG2 (48 MB)"

P.6-48 "6.2.2 Writing the data to the download jig (PWA-DWNLD-350-JIG)"
PWA-DWNLD-350-JIG2 (48MB)



Fig. 6-34 Jig board: PWA-DWNLD-350-JIG2 (48 MB)

Important:

The download jig (PWA-DWNLD-350-JIG) 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.

K-PWA-DLM-320



Fig. 6-35 Jig board: K-PWA-DLM-320

Important:

Pay attention to the direction of the ROM.

6.2.1 PWA-DWNLD-350-JIG2 (48 MB)

The firmware of the equipment except for the hard disk and the option can be updated individually or in a batch by using PWA-DWNLD-350-JIG2 (48 MB). 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.

The data to be overwritten by this update are as follows.

<Updating System ROM>

- System firmware (System firmware data, FROM internal program data)
- OS data (FROM basic section software)
- UI data (fixed section data, common section data, UI data in FROM displayed at power ON)

<Updating Engine ROM> Engine ROM data

<Updating Scanner ROM> Scanner ROM data

[A] Update procedure

Important:

- Turn OFF the power before installing and removing the download jig.
- Do not turn OFF the power during the update. The data could be damaged and not be operated properly.
- Write the ROM data to be updated to the download jig.
 P.6-48 "6.2.2 Writing the data to the download jig (PWA-DWNLD-350-JIG)"
- (2) Shut down the equipment.
- (3) Remove the cover plate.



(4) Connect the download jig with the jig connector (CN100) on the SYS board.



(5) Turn ON the power while [8] button and [9] button are pressed simultaneously. The screen for selecting the items to be updated is displayed. "*" is displayed next to the items to be updated. (All items are selected in the default settings.)

When the FROM basic section software version to be updated is "V1.00 / 1.12" or earlier:

Download Board Firmware Update Mode Select Update Item	Version in update media OS Version Vx.xx/x.xx x UIF Version Vxxx.xxx x
*0. OS Update	UIO Version Vxxx.xxx x
*1. UI Data Update	UI1 Version Vxxx.xxx x
*2. System Firmware Update	SYS Version Vxxx.xxx x
*3. Engine Firmware Update	ENG Version xxxxx-xx
*4. Scanner Firmware Update	SCN Version xxxxx-xx



When the FROM basic section software version to be updated is "V1.00 / 4.22" or later:

Download Board Firmware Update Mode Select Update Item

- *1. OS UI Update
- *2. Engine Firmware Update
- *3. Scanner Firmware Update

Version in update media OS Version... Vx. xx/x. xx x UIF Version... Vxxx. xxx x UIO Version... Vxxx. xxx x UI1 Version... Vxxx. xxx x ENG Version... xxxxx-xx SCN Version... xxxxx-xx

Fig. 6-39

(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. All items are selected in the default settings.

- Select all items to update the firmware of the equipment in a batch.
- Select items as follows to update it individually.

Types of Firmware	Items <items basic="" depending="" from="" on="" section="" software="" the="" vary="" version<br="">to be updated.></items>		
	"V1.00/1.12" or earlier	"V1.00/4.22" or later	
System ROM	 OS Update UI Update System Firmware Update 	1. OS UI Update	
Engine ROM	3. Engine Firmware Update	2. Engine Firmware Update	
Scanner ROM	4. Scanner Firmware Update	3. Scanner Firmware Update	

Example: Updating the system ROM

When the FROM basic section software version to be updated is "V1.00 / 1.12" or earlier:

Download Board Firmware Update Mode Select Update |tem

- *0. OS Update
- *1. UI Data Update
- *1. UI Data opuaco *2. System Firmware Update
- 3. Engine Firmware Update
- 4. Scanner Firmware Update

Version in update media OS Version... Vx.xx/x.xx x UIF Version... Vxxx.xx x UIO Version... Vxxx xxx x UI1 Version... Vxxx xxx x SYS Version... Vxxx.xxx x ENG Version... xxxxx-xx SCN Version... xxxxx-xx

Fig. 6-40

When the FROM basic section software version to be updated is "V1.00 / 4.22" or later:

Download Board Firmware Update Mode Select Update Item

- *1. OS UI Update
- 2. Engine Firmware Update
- 3. Scanner Firmware Update

Version in update media OS Version... Vx.xx/x.xx x UIF Version... Vxxx.xxx x UIO Version... Vxxx.xxx x UI1 Version... Vxxx.xxx x ENG Version... xxxxx-xx SCN Version... xxxxx-xx

Fig. 6-41

(Updating all the items is taken as an example and explained in the following procedures.)

(7) Press the [START] button.

Updating starts and the processing status is displayed on the LCD screen.

When the FROM basic section software version to be updated is "V1.00 / 1.12" or earlier:

Download Board F	irmware Update Mode	
Download Board Check Devices Update Status	-> FROM Update Start. - Completed - Installing	OS Update
Data Check	_	Engine MAIN Update Flash Update Scanner Firm Update Flash Update

Fig. 6-42

Status display during update	Status display when update is completed
OS Update	OS UpdateCompleted
UI Data Update	UI Data UpdateCompleted
SysFirm Update	SysFirm UpdateCompleted
Engine MAIN Update Flash Update	Engine MAIN UpdateCompleted
Scanner Firm Update Flash Update	Scanner Firm UpdateCompleted

When the FROM basic section software version to be updated is "V1.00 / 4.22" or later:

Download Board Firmware Update Mode				
Download Board Check Devices Update Status Data Check	-> FROM Update Start. - Completed - Installing -	OS UI Update Engine MAIN Update Flash Update Scanner Firm Update Flash Update		
Engine Update Sta xxxx/nnnnn Scanner Update S ⁻ xxxx/nnnnn	atus tatus			

Fig. 6-43

Status display during update	Status display when update is completed	
OS UI Update	OS UI UpdateCompleted	
Engine MAIN UpdateFlash Update	Engine MAIN UpdateCompleted	
Scanner Firm UpdateFlash Update	Scanner Firm UpdateCompleted	

(8) "Update Completed." is displayed at the bottom of the LCD screen after the updating is completed properly.

```
When the FROM basic section software version to be updated is "V1.00 / 1.12" or earlier:
```

Download Board Firmware Update Mode		
	OS Update UI Data Update SysFirm Update Engine MAIN Update Scanner Firm Update	Completed Completed Completed Completed Completed
	Update Completed.	

Fig. 6-44

When the FROM basic section software version to be updated is "V1.00 / 4.22" or later:

Download Board Firmware Update Mode	
	OS UI Update Completed Engine MAIN Update Completed Scanner Firm Update Completed
	Update Completed.

Fig. 6-45

"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. Turn OFF the power, and then check the following items. After confirming and cleaning the problems, 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?



When the FROM basic section software version to be updated is "V1.00 / 1.12" or earlier:

Download Board Firmware Update Mode	
	OS Update Completed UI Data Update Completed SysFirm Update Completed Engine MAIN Update Failed Scanner Firm Update Completed
	Update Failed.



When the FROM basic section software version to be updated is "V1.00 / 4.22" or later:

Download Board Firmware Update Mode	
	OS UI Update Completed Engine MAIN Update Failed Scanner Firm Update Completed
	Update Failed.

Fig. 6-47

- (9) Turn OFF the power, remove the download jig and install the cover plate and the connector cover.
- (10) Perform the initialization of the updating data.
 - Turn ON the power while [0] button and [8] button are pressed simultaneously.
 - Key in "947", 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 was overwritten properly.

<Updating System ROM> 08-900: System ROM version 08-920: FROM basic section software version 08-921: FROM internal program version 08-922: UI data fixed section version 08-923: UI data common section version 08-930: Version of UI data in FROM displayed at power ON

<Updating Engine ROM> 08-903: Engine ROM version

<Updating Scanner ROM> 08-905: Scanner ROM version

[C] Display during the update (When the FROM basic section software version to be updated is "V1.00 / 1.12" or earlier:)



Update is performed in parallel as shown in the transition diagram below.

Fig. 6-48

Below is an example of the changes of the LCD screen during update. Note that the screen order may be different from the actual one, because a parallel update is performed in the process.



Select items to be updated and press the [START] button to start updating the [System ROM], [Engine ROM] and [Scanner ROM] in parallel.

Download Board Firmware Update Mode	
Download Board -> FROM Update Start. Check Devices - Completed Update Status - Installing	OS Update
Data Check –	Engine MAIN Update Flash Update Scanner Firm Update Flash Update
Engine Update Status xxxx/nnnnn	
Scanner Update Status xxxx/nnnnn	

 \int

When the [System ROM]-[OS Update] has been updated, "OS Update...Completed" is displayed and the [UI Update] update will start.

Download Board F	irmware Update Mode		
Download Board Check Devices Update Status	-> FROM Update Start. - Completed - Installing	OS Update Comp UI Data Update	oleted
Data Check	-	Engine MAIN UpdateFlas Scanner Firm UpdateFlas	sh Update sh Update
Engine Update St xxxx/nnnnn	atus		
Scanner Update S xxxx/nnnnn	tatus		

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When the [System ROM]-[UI Update] has been updated, "UI Data Update...Completed" is displayed and the [System Firmware Update] update will start.

Download Board F	irmware Update Mode	
Download Board Check Devices Update Status Data Check	-> FROM Update Start. - Completed - Installing -	OS Update Completed (UI Data Update Completed) SysFirm Update Engine MAIN Update Flash Update Scanner Firm Update Flash Update
Engine Update St xxxx/nnnnn Scanner Update S xxxx/nnnnn	atus tatus	



When the [Engine ROM] has been updated, "Engine MAIN Update..Flash Update" is changed to "Engine MAIN Update..Completed".

Download Board F	irmware Update Mode	
Download Board Check Devices Update Status Data Check	-> FROM Update Start. - Completed - Installing -	OS Update Completed UI Data Update Completed SysFirm Update (Engine MAIN Update Completed) Scanner Firm Update Flash Update
Scanner Update S xxxx/nnnnn	tatus	

Ϋ́

When the [System ROM]-[System Firmware Update] has been updated, "SysFirm Update...Completed" is displayed.

Download Board Firmware Update Mode	
	OS Update Completed
	UI Data Update Completed
	Systirm Update Completed
	Scanner Firm Update Flash Update
Scanner Update Status xxxx/nnnnn	

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When the [Scanner ROM] has been updated, "Scanner Firm Update..Flash Update" is changed to "Scanner Firm Update..Completed".

When all data has been updated, "Update Completed" is displayed.

Download Board Firmware Update Mode	
	OS Update Completed UI Data Update Completed SysFirm Update Completed Engine MAIN Update Completed Scanner Firm Update Completed
	(Update Completed.)

* "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.



[D] Display during the update (When the FROM basic section software version to be updated is "V1.00 / 4.22" or later)

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.



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Select items to be updated and press the [START] button.

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Download Board Fi	rmware Update Mode	
Download Board Check Devices Update Status Data Check	-> FROM Update Start. - Completed - Installing -	OS UI Update Engine MAIN Update Flash Update Scanner Firm Update Flash Update
Engine Update Sta xxxx/nnnnn Scanner Update St xxxx/nnnnn	atus Catus	

 \int

When the [System ROM]-[OS Update] has been updated, "OS UI Update...Completed" is displayed.

Download Board F	irmware Update Mode	
Download Board Check Devices Update Status Data Check	-> FROM Update Start. - Completed - Installing -	OS UI Update Completed) Engine MAIN Update Flash Update Scanner Firm Update Flash Update
Engine Update St xxxx/nnnnn Scanner Update S xxxx/nnnnn	atus tatus	

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When the [Engine ROM] has been updated, "Engine MAIN Update..Flash Update" is changed to "Engine MAIN Update.. Completed".

Download Board Firmware Update Mode OS UI Update Download Board -> FROM Update Start. Completed Check Devices _ Completed (Engine MAIN Update ... Completed) Scanner Firm Update ... Flash Update Update Status _ Installing Data Check _ Scanner Update Status xxxx/nnnnn

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_	

When the [Scanner ROM] has been updated, "Scanner Firm Update..Flash Update" is changed to "Scanner Firm Update.. Completed".

When all data has been updated, "Update Completed" is displayed.

Download Board Firmware Update Mode	
	OS UI Update Completed Engine MAIN Update Completed (Scanner Firm Update Completed)
	Update Completed.)

"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.

Download Board Firmware Update Mode	
	OS UI Update Completed Engine MAIN Update Failed Scanner Firm Update Completed
	(Update Failed.)
Failed	l items Error message

6.2.2 Writing the data to the download jig (PWA-DWNLD-350-JIG)

The download jig (PWA-DWNLD-350-JIG) 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.





Note:

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. 6-50 PWA-DL-ADP-350-1881



[PWA-DL-ADP-350-1931]

Fig. 6-51 PWA-DL-ADP-350-1931

- Precaution when writing the data
 - Set the writing voltage (VID) to 3.3 V.
 - When writing the data, set the address from 0 to 3FFFF. The data may not be written correctly if it is not set.

- The Flash ROM in which the data will be written, on the download jig is selected by switching the rotary switch on the adapter. Be sure to switch the rotary switch on the adapter depending on the data (file) to be written.

Important:

When an error such as "Over current detects" appears while the data are being written to the download jig and the writing cannot be finished, set the writing voltage (VID) to 12 V and then write them.

RotarySwitch	File Name	Flash ROM
1	firmImage 0.bin	ROM1
2	firmImage 1.bin	ROM2
3	firmImage 2.bin	ROM3
4	N/A	ROM4
5	N/A	ROM5
6	N/A	ROM6

Note:

Be sure not to confuse different ROM Versions since the file name is identical although the ROM version is different.

6.2.3 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.

The data to be overwritten by this update are as follows.

<Updating Engine ROM> Engine ROM data

<Updating Scanner ROM> Scanner ROM data

<Updating RADF ROM> RADF ROM data

<Updating Finisher ROM> Finisher ROM data

<Updating FAX ROM> FAX ROM data

[A] Update Procedure

Since the procedure differs depending on the data, see the each procedure below.

Important:

- Turn OFF the power before installing or removing the download jig.
- Do not turn OFF the power during the update. The data could be damaged and not be operated properly.

<Updating Engine ROM>

- (1) Install the ROM to the download jig. Make sure the direction is correct (P.6-33 "Fig. 6-35").
- (2) Turn OFF the power of the equipment.
- (3) Take off the connector cover.



Fig. 6-52

(4) Remove the cover plate.



Fig. 6-53

(5) Connect the download jig with the jig connector (CN316) on the logic PC board (LGC board).



Fig. 6-54

- (6) Turn ON the power while [0] button and [8] button are pressed simultaneously. 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 in approx. 20 sec. since the update starts. It is assumed that the update is failed if it does not start blinking even though 1 min. has passed. In this case, turn OFF the power and check the following items. Then, clear the problem 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) Turn OFF the power, remove the download jig and install the cover plate and the connector cover.

<Updating Scanner ROM>

- (1) Install the ROM to the download jig. Make sure the direction is correct (P.6-33 "Fig. 6-35").
- (2) Turn OFF the power of the equipment.
- (3) Take off the right upper cover-1.



Fig. 6-55

(4) Take off the right upper cover-2.



Fig. 6-56

(5) Remove the cover plate.



(6) Connect the download jig with the jig connector (CN22) on the scanning section control PC board (SLG board).



Fig. 6-58

- (7) Turn ON the power while [0] button and [8] button are pressed simultaneously. 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 in approx. 20 sec. since the update starts. It is assumed that the update is failed if it does not start blinking even though 1 min. has passed. In this case, turn OFF the power and check the following items. Then, clear the problem 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) Turn OFF the power, remove the download jig and install the cover plate, the right upper cover-1 and the right upper cover-2.

<Updating RADF ROM (MR-3020)>

- Install the ROM to the download jig. Make sure the direction is correct (P.6-33 "Fig. 6-35").
- (2) Turning OFF the power of the equipment.
- (3) Take off the RADF rear cover.
- (4) Connect the download jig with the connector (CN81) on the PC board.



Fig. 6-59

- (5) Turn ON the power while [0] button and [8] button are pressed simultaneously. Updating starts automatically and the LED on the download jig lights.
- (6) When the data rewriting is completed, the LED blinks slowly (at an interval of 0.8 sec.). If the LED blinks fast (at an interval of 0.1 sec.), the rewriting has been failed. In this case, turn OFF the power and check the following items. Then, clear the problem 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?
- (7) Turn OFF the power, remove the download jig and install the RADF rear cover.

6

<Updating Finisher ROM>

- (1) Install the ROM to the download jig. Make sure the direction is correct (P.6-33 "Fig. 6-35").
- (2) Turn OFF the power of the equipment.
- (3) Take off the finisher rear cover.



Fig. 6-60

- * Connect the finisher interface cable with the equipment after removing the finisher rear cover.
- (4) Connect the download jig with the jig connector on the finisher control PC board.



Fig. 6-61

(5) Change the setting of he DIP switch on the finisher control PC board. Change all the setting of the DIP switch (1-8) to OFF.

Note:

Record the current settings of the DIP switch before changing them. After the updating is completed, return the DIP switch to the status as record.



Fig. 6-62

- (6) Turn ON the power while [0] button and [8] button are pressed simultaneously. 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 slowly. The LED starts blinking in approx. 20 sec. since the update starts. It is assumed that the update is failed if it does not start blinking even though 1 min. has passed, or LED flashes fast. In this case, turn OFF the power and check the following items. Then, clear the problem 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?
 - · Is the DIP switch on the finisher control PC board set properly?
- (8) Turn OFF the power, remove the download jig and return the DIP switch to the status before updating.
- (9) Install the finisher rear cover.

6

<Updating FAX ROM>

Important:

- Before updating the FAX ROM, make sure to print out the current Function list for maintenance, Function list (ADMIN), Phone book number information 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.
- Install the ROM to the download jig. Make sure the direction is correct (P.6-33 "Fig. 6-35").
- (2) Turn OFF the power of the equipment.
- (3) Remove the cover plate.





(4) Connect the download jig with the jig connector (CN602) on the FAX board.



Fig. 6-64

- (5) Turn ON the power while [0] button and [8] button are pressed simultaneously. Updating starts automatically and the LED on the download jig lights.
- (6) After the update is completed properly, the LED on the download jig blinks. The LED starts blinking in approx. 30 sec. since the update starts. It is assumed that the update is failed if it does not start blinking even though 1 min. has passed. In this case, turn OFF the power and check the following items. Then, clear the problem 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?
- (7) Turn OFF the power, remove the download jig and install the cover plate.
- (8) In the FAX Clearing Mode, perform the "FAX Set up".
 - Confirm the destination setting is correct in the Setting Mode (08).
 08-201: Destination setting of the equipment
 08-701: Destination setting of the FAX machine
 - Turn ON the power 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).
 08-201: Destination setting of the equipment
 08-701: Destination setting of the FAX machine
- Turn ON the power while [1] button and [*] button are pressed simultaneously.
- Key in "102".
- Press the [START] button.

[B] Confirmation of the updated data

After the updating is completed, check each data version in Setting Mode (08) to confirm that the data was overwritten properly.

<Updating Engine ROM> 08-903: Engine ROM version

<Updating Scanner ROM> 08-905: Scanner ROM version

<Updating RADF ROM> 08-907: RADF ROM version

- <Updating Finisher ROM> 08-908: Finisher ROM version
- <Updating FAX ROM> 08-915: FAX ROM version

6

6.3 Firmware Updating with FSMS (Field Service Manager) (e-STUDIO200L/230/230L/280)

In this equipment, it is feasible to update the downloaded firmware from the PC connected with the equipment by using the utility software "FSMS (Field Service Manager)".

Refer to the Field Service Manager Operator's Manual for the details about installation method and functions of FSMS.



Fig. 6-65

Important:

- Updating through USB is not feasible for Windows NT4.0 since this operating system does not support USB.
- When updating through USB (using FSMS), a printer driver needs to be installed in the PC in advance.

Refer to the Printing Guide about the installation method of the printer driver.

The types of firmware which can be updated with this method are as follows in the table below.

Firmware	Stored	Data file name
Master data	Hard disk	uidata2.tz, uidata3.tz, uidata4.tz, uidata5.tz, uidata6.tz, uidata7.tz, webdata1.tz, webdata2.tz, webdata3.tz, webdata4.tz, webdata5.tz, webdata6.tz, all.tz
System ROM	System control PC board (SYS board)	sysfirm.tz, uidataF.tz, uidata0.tz, uidata1.tz
Engine ROM	Logic PC board (LGC board)	mfirm.tz
Scanner ROM	Scanning section control PC board (SLG board)	scnfirm.tz
NIC ROM	NIC board	nicfirm.tz

[A] Update procedure

Important:

- Do not operate the equipment or send a print job to the equipment during the update. This interferes the updating operation and the firmware may not be written properly.
- Do not turn OFF the power of equipment or PC during the update. The data could be damaged and not to be continued to function properly.
- When using FSMS, set "1" at FSMS permission code (08-258) in the Setting Mode (08) in advance.
- The data file (tz file format) of each firmware is recommended to save at the local drive in the PC (C drive, etc.) where FSMS program is installed.
- (1) Connect the equipment and PC with the cable.



Fig. 6-66 USB connection

- * Connect the PC end of the cable to the USB port on the PC.
- (2) Turn ON the power of the equipment.

Remark:

When updating with FSMS, updating can be performed in any of the normal mode, Adjustment Mode (05) and Setting Mode (08). To avoid an interruption during the update, using the Setting Mode (08) is recommended.

(3) Turn ON the power of the PC.

(4) Activate FSMS.

Select "TOSHIBA FSMS" starting with the Start menu.

(5) Enter the login password and click the [OK] button.

🚊 Enter your password	
Password	ОК
*****	Cancel

Fig. 6-67

* Set the login password at the installation of FSMS.

(6) Click the [F/W Download] button.

🖴 TOSHIBA FIELD SERVICE MANAGER			
TOSHIBA Version 3.9.6			
FIELD SERVIC	E MANAGER		
Diagnosis	Options		
Diagnosis	Data Sharing		
	F/W Download		
Information Databases	Pattern Setting		
Customer	Optimize		
Machine	MAPfile Update		
	COM Port		
Maintenance	Database Security		
Exit			



(7) Select the model name of the equipment to be updated from the drop-down menu and click the [OK] button.



Fig. 6-69

(8) Click the [OFFLINE] button.

Firmware Selection	
Firmware Update	
🗖 Program	🗖 UI Data
NIC ROM	🗖 Scan ROM
MROM	🗖 Common UI Data
🗖 1st Language UI Data	
Generic Update	
🗖 Generic	
C Comm Port	
🗘 USB Port	
Download File from Folder	OK Cancel

Fig. 6-70

(9) The connection status between the printer driver installed in the PC and the equipment to be connected is displayed. Select the equipment to be updated and click the [Activate FSMS] button.

Select Interface		×
Toshiba MFP's	Status	
TOSHIBA e-STUDIO350-450 PSL3	UDI0350-450 PSL3 Connected	
		Refresh
		Cancel



Remark:

The content of "Status" display can be renewed to the latest status by clicking the [Refresh] button. When the status is displayed as "Disconnected" because the start up of the equipment is delayed, the status can be renewed to "Connected" by clicking this. (10) Check the firmware to be updated and click the [OK] button.

Firmware Selection	X
Firmware Update	
🔽 Program	🔽 UI Data
VIC ROM	🔽 Scan ROM
MROM	🔽 Common UI Data
🔽 1st Language UI Data	
- Generic Update	
Generic	
C Comm Port	
🕫 USB Port	
Download File from Folder	Cancel

Fig. 6-72

Remark:

The relation between the types of firmware to be updated and items to check is as follows in the table below.

ltem	Firmware	Data file name to update
Program	System ROM	sysfirm.tz
UI Data		uidataF.tz
Common UI Data		uidata0.tz
1st Language UI Data		uidata1.tz
MROM	Engine ROM	mfirm.tz
Scan ROM	Scanner ROM	scnfirm.tz
NIC ROM	NIC ROM	nicfirm.tz
Generic	Master data	uidata2.tz, uidata3.tz, uidata4.tz, uidata5.tz, uidata6.tz, uidata7.tz, webdata1.tz, webdata2.tz, webdata3.tz, webdata4.tz, webdata5.tz, webdata6.tz, all.tz

6

(11) Select the data file to be updated and click the [OK] button.

There are two data filing methods: Selecting the multiple data files in a batch (select the folder where the files are saved) and selecting each data file individually.

- · Selecting the multiple data files in a batch
 - Select "Download File Folder".
 - Click the [Browse] button and select the folder where the files are saved.

wnload File Folder		OK	
imware).	B	Fxit	
e Name Conversion			
	Firmwar	e Selection	
File Name for Program (sysfirm.tz)		File Name for UI Data (uidataf.tz)	
	Browse		Browse
File Name for MROM (mfirm.tz)		File Name for NIC ROM (nicfirm.tz)	
	Browse		Browse
File Name for SROM (scnfirm tz)		Generic Driver (*.*)	
	Browse	. ,	
File Name for Common Data / idets			- toronipp
File Name for Common Data (uldata	Browse		
File Name for 1st Language UI Data	(uidata1.tz)		
4	Browse	1	

Fig. 6-73

- Selecting each data file individually
 - Select "File Name Conversion".
 - Click the [Browse] button of each data and select the file. When "Generic Driver" is used, check the checkbox of the file to be selected.

nivau rile roluei	В	rowse OK	
Name Conversion			
	Firmwa	e Selection	
File Name for Program (sysfirm.tz)		File Name for UI Data (uidataf.tz)	
G:\Firmware\sysfim.tz	Browse	G Firmware/uidataf.tz	Browse
File Name for MROM (mfirm.tz)		File Name for NIC ROM (nicfirm.tz)	
G:\Firmware\mfirm.tz	Browse	G 1F immware inicfirm.tz	Browse
File Name for SROM (scnfirm.tz)		Generic Driver (*.*)	
G.\Firmware\scnfirm.tz	Browse	✓ uidata2.tz	Browse
File Name for Common Data (uidata	(0.tz)	idəta3.tz	
G1Firmware\uidata0.tz	Browse		
File Name for 1 st Language UI Data	(uidata1.tz)		
G:\Firmware\uidata1.tz	Browse	1	

Fig. 6-74

Remark:

When selecting the multiple files in a batch, the name of the unselected data file (not saved in the folder) may be displayed. In this case, click the [OK] button and then the update of all files except the displayed file starts.

Field Service Manager
Following files are not present in selected directory
sysfirm.tz uidataf.tz nicfirm.tz mfirm.tz scnfirm.tz uidata0.tz
ОК

Fig. 6-75

(12) The selected data is transmitted to the equipment. The data file name being transmitted and transmission condition are displayed at the bottom.

	File Name for Common Data (uidata0.tz) File Name for 1st Language UI Data (uidata1.tz) Browse	
C:\Firmwa	are\mfirm.tz	66.67 % completed

Fig. 6-76

Remark:

During transmission, the message "WAIT" or "NOW SERVICING" is displayed on the LCD screen of the equipment. In this case, all the button operations are locked.

(13) When the data transmission is completed, the following screen is displayed. Then click the [OK] button.

Field Se	rvice Manager 🛛 🛛 🔀
(į)	Firmware Upload done succesfully.
	(ОК]

Fig. 6-77

(14) The equipment restarts automatically and the items to be updated and processing status are displayed on the LCD screen.

	Remote Firmware Update Mode 0. Os Update(vxworks.bin) *1. System Firmware Update(sysfirm.tz) *2. Fixed UI Data Update(uidataF.tz) *3. Common UI Data Update(uidata0.tz) *4. 1st UI Data Update(uidata1.tz) *5. Machine Firmware Update(mfirm.tz) *6. NIC Firmware Update(nicfirm.tz) *7. Scanner Firmware Update(scnfirm.tz) *8. HDD Update(hdd.tz*XX)	Completed Completed Completed
ا — ا ')	Number of master data to be updated tems "*" is displayed next to the items to be updated.)	Processing status of each item Completed : Update completed

Fig. 6-78
(15) "Update Completed!!" is displayed at the bottom of the LCD screen after the updating is completed properly.

Remote Firmware Update Mode				
0. Os Update (vxworks.bin)				
*1. System Firmware Update(sysfirm.tz)	Completed			
*2. Fixed UI Data Update(uidataF.tz)	Completed			
*3. Common UI Data Update(uidata0.tz)	Completed			
*4. 1st UI Data Update(uidata1.tz)	Completed			
*5. Machine Firmware Update(mfirm.tz)	Completed			
*6. NIC Firmware Update(nicfirm.tz)	Completed			
*7. Scanner Firmware Update(scnfirm.tz)	Completed			
*8. HDD Update(hdd.tz*XX)	Completed			
Update Completed!!				

Fig. 6-79

"Update Failed!!" is displayed at the bottom of the LCD screen when the updating is not completed properly. Turn OFF the power, and then check the following items. After confirming and clearing the problems, restart updating from the beginning.

- Are the equipment and PC properly connected?
- Is the selected data file proper?
- Do the cable, equipment and PC operate properly?
- · Are FSMS and printer driver properly installed?

Remote Firmware Update Mode

- 0. Os Update(vxworks.bin)
- *1. System Firmware Update(sysfirm.tz)
- *2. Fixed UI Data Update(uidataF.tz)
- *3. Common UI Data Update (uidata0.tz)
- *4. 1st UI Data Update(uidata1.tz)
- *5. Machine Firmware Update(mfirm.tz)
- *6. NIC Firmware Update(nicfirm.tz)
- *7. Scanner Firmware Update(scnfirm.tz)
- *8. HDD Update(hdd.tz*XX)

Update Failed!!

Completed Completed Completed Completed Completed Completed Failed

* When the updating of the NIC firmware is failed, an error message is displayed as the figure below. Turn OFF the power and then check the above-mentioned items. After confirming them, select only "NIC ROM" (6. NIC Firmware Update) and restart updating from the beginning. This may complete the updating properly.



NIC error message



If the updating of the NIC firmware is still failed, check the prescription corresponding to the error message. After confirming and clearing the problem, restart updating from the beginning.

NIC Error Message	Error Contents	Prescription
NIC UPDATE FAILED 1	NIC initialization time-out	 The IP address may not be assigned correctly. Is the IP address assigned correctly? Does the IP address conflict with the other system? If the error still occurs, replace the NIC board because it may be destroyed.
NIC UPDATE FAILED 2	ATA driver initialization error	 The HDD cable may be disconnected. Is the HDD cable connected correctly? If the HDD cable is connected correctly, replace the SYS board because it may be destroyed.
NIC UPDATE FAILED 3	HDD partition mount error	Replace the HDD because it may be destroyed.
NIC UPDATE FAILED 4	NIC setting information backup error	Replace the HDD because it may be destroyed.
NIC UPDATE FAILED 5	NIC firmware transfer error	Replace the NIC board because it may be destroyed.
NIC UPDATE FAILED 6	NIC firmware writing error	Replace the NIC board because it may be destroyed.
NIC UPDATE FAILED 7	NIC status time-out	Replace the NIC board because it may be destroyed.

Note:

If the updating of the NIC firmware is not completed properly, wait 5 minutes or more from the beginning of the updating before turning OFF the power, and then restart updating from the beginning. If you turn OFF the power within 5 minutes, HDD may be destroyed.

- (16) Turn OFF the power of the equipment.
- (17) Perform the initialization of the updating data (NVRAM updating).
 - Turn ON the power while [0] button and [8] button are pressed simultaneously.
 - Key in "947", 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 was overwritten properly.

<Updating Master data>

08-925: Version of UI data language 2 in HDD 08-926: Version of UI data language 3 in HDD 08-927: Version of UI data language 4 in HDD 08-928: Version of UI data language 5 in HDD 08-929: Version of UI data language 6 in HDD 08-931: Version of UI data language 7 in HDD 08-933: HDD data unit version 08-934: Version of Web UI data language 1 in HDD 08-935: Version of Web UI data language 2 in HDD 08-936: Version of Web UI data language 3 in HDD 08-937: Version of Web UI data language 4 in HDD 08-938: Version of Web UI data language 5 in HDD 08-938: Version of Web UI data language 5 in HDD 08-939: Version of Web UI data language 6 in HDD

<Updating System ROM>

08-900: System ROM version
08-922: UI data fixed section version
08-923: UI data common section version
08-924: Version of UI data language 1 in HDD
08-930: Version of UI data in FROM displayed at power ON

<Updating Engine ROM> 08-903: Engine ROM version

- <Updating Scanner ROM> 08-905: Scanner ROM version
- <Updating NIC ROM> 08-916: NIC ROM version

6

6.4 Firmware Updating with USB Storage Device (e-STUDIO200L/230/230L/280)

In this equipment, it is feasible to update the firmware by connecting the USB storage device on which the firmware data is written to the USB connector mounted on the system control PC board and turning ON the power.

The type of firmware to be updated can be selected on the LCD screen in this method. This allows to update only the necessary firmware individually or to update all firmware in a batch.

The type of firmware which can be updated with this method are as follows in the table below. Also, the data file of each firmware can be used commonly in the updating methods with USB storage device and Download jig.

Firmware	Stored	Data file name
Master data	Hard disk	 1, 2, 3 n * The file name should be consecutive numbers from 1 to "n" without file extension. The capacity of each file is approx. 8 MB. However, the file capacity of "n" (last number) may be less than 8 MB.
System ROM	System control PC board (SYS board)	sysfirm.bin, ROM.bin
Engine ROM	Logic PC board (LGC board)	ROM.bin
Scanner ROM	Scanning section control PC board (SLG board)	
NIC ROM	NIC board	

Important:

- The following USB storage devices are recommended for updating.
 - MELCO ClipDrive (RUF-C128M)
 - Lexar Media JumpDrive (RD128-231)
 - Mini USB Drive (Mini 128 MB USB Drive) lomega
- ٠ Only the USB storage device which meets 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 storage device with a flash memory (to be connected directly to the USB port) and its capacity is 64 MB or more
 - A USB storage device which is complied with the following standards regulated by USB-IF (USB Implementers Forum)

```
Class number:
                 8 (=08h)
Sub-class number: 6 (=06h)
```

(Mass-storage class) (SCSI transfer command set)

- Protocol number: 80 (=50h) (Bulk-Only)
- Most common USB storage devices are complied with the specification above and can be used for updating. However, the operation in this equipment is not always guaranteed since the most of these devices are developed based on the use in PC environment (Windows or Macintosh).

Therefore, confirm thoroughly that the device is operational in this equipment when purchasing the device.

- The USB storage device complied with USB1.1 and USB2.0 can be used for updating. However, the update is performed in the speed of USB1.1 when the device complied with USB2.0 is used.
- 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.

[A] Update procedure

Important:

- The file system of USB storage device should be formatted in FAT format. Be careful since the devices formatted in FAT32 or NTFS format will not be operated. The file system can be confirmed on the properties in applications such as Explorer of Windows.
- Do not turn OFF the power during the update. The data could be damaged and not to be • operated properly.
- (1) Connect the USB storage device to the PC and write the data file.
 - age Device (e-STUDIO200L/230/230L/280)").
 - The file system of USB storage device should be formatted in FAT format.
 - Windows 95 and NT do not support USB. Be careful since the data can not be written on the devices in the PCs with these operating systems.
- (2) Turn OFF the power of equipment.

(3) Connect the USB storage device to the USB connector (host) on the SYS board.



Notes:

- Do not connect multiple USB storage devices together.
- The USB storage device can be connected to either of 2 USB connectors (host).
- In case the printer kit (GM-1020 or 1030), printer/scanner kit (GM-2020 or 2030) and scanner upgrade kit (GM-3020 or 3030) are used, the update must be performed after all the "don-gles" are disconnected from the USB connector (host) and only the USB storage device is connected.

(4) Turn ON the power while [4] button and [9] button are pressed simultaneously. The screen for selecting the items to be updated is displayed after 3 minutes. "*" is displayed next to the items to be updated. (All items other than "0. OS Update" are selected in the default settings.)

	Version in update media
Download Storage Firmware Update Mode	
Select Update Item	
0. OS Update	UIF Version Vxxx.xxx.x
*1. HDD Update	UIO Version Vxxx.xxx.x
*2. UI Data Update	UI1 Version Vxxx.xxx.x
*3. System Firmware Update	SYS Version Vxxx xxx x
*4. NIC Firmware Update	NIC Version xxxxxxxxx xxx
∗5. Scanner Firmware Update	SCN Version xxxxx-xxx
∗6. Machine Firmware Update	MCN Version xxxxx-xxx

Fig. 6-83

Note:

The display of items on this screen varies depending on the types of data written on the USB storage device. Each item is displayed only when each data file is written on the USB storage device in the following conditions.

Item	Condition
0. OS Update	ROM.bin is written.
1. HDD Update	All master data files (1, 2, 3 n) are written.
2. UI Data Update	ROM.bin is written.
3. System Firmware Update	sysfirm.bin and ROM.bin are written.
4. NIC Firmware Update	ROM.bin is written.
5. Scanner Firmware Update	ROM.bin is written.
6. Machine Firmware Update	ROM.bin is written.

If the USB storage device is not recognized properly, the following message is displayed. In this case, turn OFF the power of the equipment and connect the device properly. Then repeat the procedure from (4).

Please Set Correct USB Storage Key

(5) 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.

• Select all items to update the firmware of the equipment in a batch.

· Select items as follows to update individually.

<Updating OS data> Select "0. OS Update" only.

<Updating Master data> Select "1. HDD Update" only.

<Updating System ROM> Select "2. UI Data Update" and "3. System Firmware Update".

<Updating Engine ROM> Select "6. Machine Firmware Update" only.

<Updating Scanner ROM> Select "5. Scanner Firmware Update" only.

<Updating NIC ROM> Select "4. NIC Firmware Update" only.

Example: Updating the master data and system ROM (Updating the master data and system ROM is taken as an example and explained.)

	Version in update media
Download Storage Firmware Update Mode	
Select Update Item	
0. OS Update	UIF Version Vxxx.xxx.x
*1. HDD Update	UIO Version Vxxx.xxx.x
*2. UI Data Update	UI1 Version Vxxx.xxx.x
*3. System Firmware Update	SYS Version Vxxx xxx x
4. NIC Firmware Update	NIC Version xxxxxxxxx xxx
5. Scanner Firmware Update	SCN Version xxxxx-xxx
6. Machine Firmware Update	MCN Version xxxxx-xxx

(6) Press the [START] button.

Updating starts and the processing status is displayed on the LCD screen. When the multiple items are selected, updating starts in order of item number.

Download Storage Firmware Update Mode Download Storage -> HDD Update Start. Check Devices - HDD Checking Update Status -

Fig. 6-86

(7) "Update Completed." is displayed at the bottom of the LCD screen after the updating is completed properly.



Remark:

Updating can be continued with another USB storage device on which the firmware data is written in the following procedure when the updating is completed.

- 1. Confirm the message "Please Connect Next Storage Key. Push 'START' Button!!" is displayed at the bottom of the LCD screen.
- 2. Replace the USB storage device while the power is left ON.
- 3. Press the [START] button.
- 4. The screen for selecting the items to be updated is displayed. Continue the updating from procedure (5). However, the items already updated are not displayed on the screen.

"Update Failed." is displayed at the bottom of the LCD screen when the updating is not completed properly. Turn OFF the power, and then check the following items. After confirming and clearing the problems, restart updating from the beginning.

- Does the USB storage device meet the conditions to be used for updating (
 P.6-72 "6.4 Firmware Updating with USB Storage Device (e-STUDIO200L/230/230L/280)")?
- Is the data file written properly on the USB storage device?
- Is the USB storage device installed properly?
- Do the USB storage device and equipment operate properly?

```
Download Storage Firmware Update Mode
Download Storage -> HDD Update Start.
Check Devices - HDD Checking
Update Status -
Update Failed.
```

Fig. 6-88

* When the updating of the NIC firmware is failed, an error message is displayed as the figure below. Turn OFF the power and then check the above-mentioned items. After confirming them, select only "4. NIC Firmware Update" and restart updating from the beginning. This may complete the updating properly.

Download Storage Firmware Update Mode Download Storage -> FROM Update Start. Check Devices - Completed	OS Update HD Data Update UI Data Update SysFirm Update NICFirm Update	Completed Completed Completed Completed Flash Update
Data_Cheek Completed NIC UPDATE FAILED 1>		
Update Fa	Iled.	

NIC error message

ſ

Fig. 6-89

If the updating of the NIC firmware is still failed, check the prescription corresponding to the error message. After confirming and clearing the problem, restart updating from the beginning.

NIC Error Message	Error Contents	Prescription
NIC UPDATE FAILED 1	NIC initialization time-out	 The IP address may not be assigned correctly. Is the IP address assigned correctly? Does the IP address conflict with the other system? If the error still occurs, replace the NIC board because it may be destroyed.
NIC UPDATE FAILED 2	ATA driver initialization error	 The HDD cable may be disconnected. Is the HDD cable connected correctly? If the HDD cable is connected correctly, replace the SYS board because it may be destroyed.
NIC UPDATE FAILED 3	HDD partition mount error	Replace the HDD because it may be destroyed.
NIC UPDATE FAILED 4	NIC setting information backup error	Replace the HDD because it may be destroyed.
NIC UPDATE FAILED 5	NIC firmware transfer error	Replace the NIC board because it may be destroyed.
NIC UPDATE FAILED 6	NIC firmware writing error	Replace the NIC board because it may be destroyed.
NIC UPDATE FAILED 7	NIC status time-out	Replace the NIC board because it may be destroyed.

Note:

If the updating of the NIC firmware is not completed properly, wait 5 minutes or more from the beginning of the updating before turning OFF the power, and then restart updating from the beginning. If you turn OFF the power within 5 minutes, HDD may be destroyed.

- (8) Turn OFF the power, remove the USB storage device.
- (9) Perform the initialization of the updating data (NVRAM updating).
 - Turn ON the power while [0] button and [8] button are pressed simultaneously.
 - Key in "947", 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 was overwritten properly.

<Updating Master data>

- 08-924: Version of UI data language 1 in HDD 08-925: Version of UI data language 2 in HDD 08-926: Version of UI data language 3 in HDD 08-927: Version of UI data language 4 in HDD 08-928: Version of UI data language 5 in HDD 08-929: Version of UI data language 6 in HDD 08-931: Version of UI data language 7 in HDD 08-933: HDD unit data version 08-934: Version of Web UI data language 1 in HDD 08-935: Version of Web UI data language 2 in HDD 08-936: Version of Web UI data language 3 in HDD 08-937: Version of Web UI data language 4 in HDD 08-938: Version of Web UI data language 5 in HDD 08-938: Version of Web UI data language 4 in HDD 08-939: Version of Web UI data language 5 in HDD
- <Updating System ROM>
 - 08-900: System ROM version
 - 08-920: FROM basic section software version
 - 08-921: FROM internal program version
 - 08-922: UI data fixed section version
 - 08-923: UI data common section version
 - 08-930: Version of UI data in FROM displayed at power ON

<Updating Engine ROM> 08-903: Engine ROM version

- <Updating Scanner ROM> 08-905: Scanner ROM version

<Updating NIC ROM> 08-916: NIC ROM version

[C] Display during the update

The processing status is displayed as follows on the LCD screen during the update. (As an example, the display for updating the system ROM is explained below.)

	\checkmark	The initial screen is displayed and the recognition of the USB storage device connected to the equipment is started.
ownload Storage Update Mode lease wait now Initialization		
	Ŷ	When the device is recognized properly after minutes, the screen for selecting items is di played.



Press the [START] button after selecting the item to be updated. The device check starts.

```
Download Storage Firmware Update Mode

Download Storage -> HDD Update Start.

Check Devices - HDD Checking

Update Status -
```

- $\sqrt[n]{\Gamma}$
 - When the device check completes, copying the data to the HDD starts.



 $\frac{1}{2}$

When all files have been copied, the backup of RIP font starts.

Download Storage Firmware Update Mode HD Data Update ... Download Storage -> HDD Update Start. Check Devices - Completed Update Status - Backup file /PRF -> /PR2 1/n xxx/ yyy 2/n xxx/ yyy 3/n xxx/ yyy n/n xxx/ yyy



When the backup of RIP font is completed, the following screen is displayed. Updating the master data is completed.

Download Storage Firmware Update Mode Download Storage -> HDD Update Start.	HD Data Update	Completed
Check Devices - Completed Update Status - Completed		1/n xxx/ yyy 2/n xxx/ yyy 3/n xxx/ yyy 4/n xxx/ yyy



Updating the system ROM starts subsequently. The device check starts.

Download Storage Firmware Update Mode Download Storage -> FROM Update Start.	HD Data Update	Completed
Check Devices - Checking Update Status - Data Check -		

 $\frac{1}{2}$

When the device check completes, copying the data to the ROM of the equipment starts.



٦



Download Storage Firmware Update Mode Download Storage -> FROM Update Start. Check Devices - Completed Update Status - Installing Data Check -Completed Data Update ... HD Data Update ... UI Data Update ... SysFirm Update ...



When copying all the data complete, the update completes with the following screen.

Download Storage Firmware Update Mode HD Data Update ... Completed Download Storage -> FROM Update Start. UI Data Update ... Completed SysFirm Update ... Completed Check Devices -Completed Update Status -Completed Data Check -Completed Update Completed. Please Connect Next Storage Key, Push 'START' Button!!

* If the USB storage device is not recognized properly, the following message is displayed and the update is interrupted.

Please Set Correct USB Storage Key

* If an error occurs, the following error message is displayed and the update is interrupted.

Check Devices -Checking Update Status -Data Check ----. (Update Failed.) · - - - -

Error message

6

6.5 Firmware Updating with USB Storage Device (e-STUDIO202L/203L/232/233/282/283)

In this equipment, it is feasible to update the firmware by connecting the USB storage device on which the firmware data is written to the USB connector mounted on the system control PC board and turning ON the power.

The type of firmware to be updated can be selected on the LCD screen in this method. This allows to update only the necessary firmware individually or to update all firmware in a batch. The type of firmware which can be updated with this method are as follows in the table below.

Firmware	Stored	Model specific folder name	Data file name
Master data	Hard disk	202_282	1, 2, 3 n * The file name should be consecutive numbers from 1 to "n" without file extension. The capacity of each file is approx. 8 MB. However, the file capacity of "n" (last number) may be less than 8 MB.
System ROM	System control PC board (SYS board) * The system firmware is stored into the hard disk from the FROM basic section software version "V1.00/4.22".		firmImage0.bin, firmImage1.bin
Engine ROM	Logic PC board (LGC board)		firmImage2.bin
Scanner ROM	Scanning section control PC board (SLG board)		

Important:

- Only the USB storage device which meets 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 storage device with a flash memory (to be connected directly to the USB port) and its capacity is between 64 MB to 512 MB (or 1 GB).
 - Operation of the USB storage device used for updating has been confirmed at the input check of this equipment (Test mode 03).
 - (P.2-32 "2.2.2 Input check (Test mode 03) (e-STUDIO202L/203L/232/233/282/283)")
 - A USB storage device which is complied 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 storage devices are complied 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 the use in PC environment (Windows or Macintosh). Therefore, confirm thoroughly that the device is operational in the equipment for which the updating will be performed when purchasing the device.
- The data file for updating is stored in the model specific folder. Never change the model specific folder name since it is used for discriminating the data file when the updating data files for multiple models are stored in the USB storage device.
- Store the model specific folder in the root directory of the USB storage device.
- Storing the data file directly in the root directory is possible when the updating data files for one specific model is stored in the USB storage device.
 However, if the model specific folder for the same model as that of the data file stored in the root directory already exists, the model specific folder will have the priority.
- The USB storage device complied with USB1.1 and USB2.0 can be used for updating. However, the update is performed in the speed of USB1.1 when the device complied with USB2.0 is used.
- 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.

6

Update program

The firmware can be updated to the latest version without considering the current one by storing the update program together with the firmware data file for updating in the USB Storage Device.

Name	File name	Stored
Tool object for updating	mentusb.o	root
Update program	dlFirmWare_202_282	[202_282] folder (Model specific folder)



Fig. 6-90

Important:

- The "mentusb.o" file stored in the root of the USB storage device is a common file in e-STUDIO850 Series, e-STUDIO451c Series and e-STUDIO452 Series. To save the firmware of more than one model into one USB storage device, one "mentusb.o" file stored in the root of USB storage device is sufficient.
- Be careful not to mix up the "mentusb.o" file because there is a file whose name is the same in the localization tool.

[A] Update procedure

Important:

- The file system of USB storage device should be formatted in FAT format. Be careful since the devices formatted in FAT32 or NTFS format will not be operated. The file system can be confirmed on the properties in applications such as Explorer of Windows.
- Do not turn OFF the power during the update. The data could be damaged and not to be operated properly.
- (1) Connect the USB storage device to the PC and write the model specific folder in which the data file is stored.

 - The file system of USB storage device should be formatted in FAT format.
 - Windows 95 and NT do not support USB. Be careful since the data can not be written on the devices in the PCs with these operating systems.
- (2) Shut down the equipment.
- (3) Connect the USB storage device to the USB connector (host) on the SYS board.





Notes:

- Do not connect multiple USB storage devices together.
- The USB storage device can be connected to either of 2 USB connectors (host).
- In case the printer kit (GM-1070/1071/1080U/1081U), printer/scanner kit (GM-2070/2071/ 2080U/2081U) and scanner upgrade kit (GM-4070 or GM-4080U) are used, the update must be performed after all the "dongles" are disconnected from the USB connector (host) and only the USB storage device is connected.

(4) Turn ON the power while [4] button and [9] button are pressed simultaneously. When the update program is used, the following screen appears.

Download USB Maintenance Module

Fig. 6-92

dlFirmWare Version VX.XX

After the update program is finished being loaded, the following screen appears.

Download Storage Update Mode Please wait... now Initialization

Fig. 6-93

Note:

If the "dlFirmWare_202_282" file of the update program is not stored in the USB storage device though "mentusb.o" file exists, or the loading of the update program fails, the following screen appears. In this case, check if the update program is correctly stored and repeat step (5) and after.

Error loadModule

(5) Check the items to be updated.

The screen for selecting the items to be updated is displayed after 3 minutes. "*" is displayed next to the items to be updated. (When the FORM basic section software version of the equipment is "V1.00/1.12" or earlier: All items other than "0. OS Update" are selected in the default settings. When the FORM basic section software version of the equipment is "V1.00/4.22" or later: All items are selected in the default settings.)

When the FROM basic section software version of the equipment is "V1.00 / 1.12" or earlier:

Download Storage Firmware Update Mode Select Update Item	Version in update media
0. OS Update	UIF Version Vxxx.xxx.x
*1. HDD Update	UIO Version Vxxx.xxx.x
*2. UI Data Update	UI1 Version Vxxx.xxx.x
*3. System Firmware Update	SYS Version Vxxx.xxx x
*4. Engine Firmware Update	ENG Version xxxxx-xx
*5. Scanner Firmware Update	SCN Version xxxxx-xx

Fig. 6-95

Note:

The display of items on this screen varies depending on the types of data written on the USB storage device. Each item is displayed only when each data file is written on the USB storage device in the following conditions.

Item	Condition
0. OS Update	firmImage0.bin is written.
1. HDD Update	All master data files (1, 2, 3 n) are written.
2. UI Data Update	firmImage0.bin is written.
3. System Firmware Update	firmImage0.bin and firmImage1.bin are written.
4. Engine Firmware Update	firmImage2.bin is written.
5. Scanner Firmware Update	firmImage2.bin is written.

When the FROM basic section software version of the equipment is "V1.00 / 4.22" or later:

Download Storage Firmware Update Mode Select Update Item	Version in update media
*1. OS UI Update *2. HDD SYS Update *3. Engine Firmware Update *4. Scanner Firmware Update	UIF Version Vxxx.xxx.x UIO Version Vxxx.xxx.x UI1 Version Vxxx.xxx.x SYS Version Vxxx.xxx x ENG Version xxxxx-xx SCN Version xxxxx-xx

Fig. 6-96

Note:

The display of items on this screen varies depending on the types of data written on the USB storage device. Each item is displayed only when each data file is written on the USB storage device in the following conditions.

ltem	Condition
1. OS UI Update	firmImage0.bin, firmImage1.bin are written.
2. HDD SYS Update	All master data files (1, 2, 3 n) are written.
3. Engine Firmware Update	firmImage2.bin is written.
4. Scanner Firmware Update	firmImage2.bin is written.

If the USB storage device is not recognized properly, the following message is displayed. In this case, disconnect the USB storage device and connect it again within 3 minutes, or turn OFF the power of the equipment and connect the device properly. Then repeat the procedure from (4).

Please Set Correct USB Storage Device

If the updating data file does not exist or a data file for other model is stored, the following message is displayed. In this case, turn OFF the power of the equipment and confirm if the data file stored in the USB storage device is correct. Then repeat the procedure from (4).

Note:

"If you still want to continue, Please Push Start Key" will not be displayed if the FROM basic section software version of the equipment is "V1.00 / 4.22" or later.

-----WARNING: ROMDATA MISMATCH!!----ROMDATA Version is V***.*** * Please REBOOT to use Correct ROMDATA

If you still want to continue, Please Push Start Key

Fig. 6-98

If an attempt to update the FROM basic section software "V1.00 / 1.12" or earlier version to the latest firmware version without the update program, the following screen appears. In this case, store "mentusb.o" and "dlFirmWare_202_282", which are the files for update program, in the specified folder and repeat step (5) and after.

Inflate Error Please Change USB Storage or Please Check ROMDATA

(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. All items are selected in the default settings.

- Select all items to update the firmware of the equipment in a batch.
- Select items as follows to update individually.

Types of Firmware	Items <items basic="" depending="" from="" on="" section="" software="" the="" vary="" version<br="">of the equipment></items>	
	"V1.00/1.12" or earlier	"V1.00/4.22" or later
System ROM (OS data)	0. OS Update	1. OS UI Update
System ROM (UI data)	2. UI Data Update	
Master data	1. HDD Update	2. HDD SYS Update
System ROM (System firmware)	3. System Firmware Update	
Engine ROM	4. Engine Firmware Update	3. Engine Firmware Update
Scanner ROM	5. Scanner Firmware Update	4. Scanner Firmware Update

Example: Updating the master data and system ROM When the FROM basic section software version of the equipment is "V1.00 / 1.12" or earlier:

Download Storage Firmware Update Mode
Select Update ItemVersion in update media*0. OS Update
*1. HDD UpdateUIF Version... Vxxx.xxx.x
UIO Version... Vxxx.xxx x
*2. UI Data Update
*3. System Firmware Update
4. Engine Firmware UpdateUIF Version... Vxxx.xxx.x
UIO Version... Vxxx.xxx x
SYS Version... Vxxx.xxx x
ENG Version... xxxx-xx
SCN Version... xxxx-xx

Fig. 6-100

When the FROM basic section software version of the equipment is "V1.00 / 4.22" or later:

Download Storage Firmware Update Mode Select Update Item *1. OS UI Update *2. HDD SYS Update 3. Engine Firmware Update 4. Scanner Firmware Update 5. Scanner

Fig. 6-101

(Updating all the items is taken as an example and explained in the following procedures.)

(7) Press the [START] button.Updating starts and the processing status is displayed on the LCD screen.

When the FROM basic section software version of the equipment is "V1.00 / 1.12" or earlier:

Download Storage	Firmware Update Mode	
Download Board Check Devices Update Status Data Check -	-> FROM Update Start. - Completed - Installing	OS Update HD Data Update
		Engine MAIN Update Flash Update Scanner Firm Update Flash Update

Fig. 6-102

Status display during update	Status display when update is completed
OS Update	OS UpdateCompleted
HD Data Update	HD Data UpdateCompleted
UI Data Update	UI Data UpdateCompleted
SysFirm Update	SysFirm UpdateCompleted
Engine MAIN UpdateFlash Update	Engine MAIN Update Completed
Scanner Firm UpdateFlash Update	Scanner Firm UpdateCompleted

When the FROM basic section software version of the equipment is "V1.00 / 4.22" or later:

Download Storage Firmware Update Mode	
Download Board -> FROM Update Start. Check Devices - Completed Update Status - Installing Data Check -	OS UI Update HDD SYS Update Engine MAIN Update Flash Update Scanner Firm Update Flash Update
Download Storage -> HDD copying 1/n	
Engine Update Status xxxx/nnnnn	
Scanner Update Status xxxx/nnnnn	

Status display during update	Status display when update is completed
OS UI Update	OS UI UpdateCompleted
HDD SYS Update	HDD SYS UpdateCompleted
Engine MAIN UpdateFlash Update	Engine MAIN UpdateCompleted
Scanner Firm UpdateFlash Update	Scanner Firm UpdateCompleted

(8) "Update Completed." is displayed at the bottom of the LCD screen after the updating is completed properly.

When the FROM basic section software version of the equipment is "V1.00 / 1.12" or earlier:

Download Storage Firmware Update Mode OS Update Completed HD Data Update Completed UI Data Update Completed SysFirm Update Completed Engine MAIN Update ... Completed Scanner Firm Update ... Completed Update Completed.

Fig. 6-104

When the FROM basic section software version of the equipment is "V1.00 / 4.22" or later:

Download Storage Firmware Update Mode OS UI Update Completed HDD SYS Update Completed Engine MAIN Update ... Completed Scanner Firm Update ... Completed

"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. Turn OFF the power, and then check the following items. After confirming and clearing the problems, restart updating from the beginning.

- Does the USB storage device meet the conditions to be used for updating (
 P.6-86 "6.5 Firmware Updating with USB Storage Device (e-STUDIO202L/203L/232/233/ 282/283)")?
- · Is the data file written properly on the USB storage device?
- · Is the USB storage device installed properly?
- Do the USB storage device and equipment operate properly?

When the FROM basic section software version of the equipment is "V1.00 / 1.12" or earlier:

Download Storage Firmware Update Mode OS Update Completed HD Data Update Completed UI Data Update Completed SysFirm Update Completed Engine MAIN Update ... Failed Scanner Firm Update ... Completed Update Failed.



When the FROM basic section software version of the equipment is "V1.00 / 4.22" or later:

Download Storage Firmware Update Mode OS UI Update Completed HDD SYS Update Completed Engine MAIN Update .. Failed Scanner Firm Update .. Completed Update Failed.

- (9) Turn OFF the power, remove the USB storage device and install the cover plate.
- (10) Perform the initialization of the updating data.
 - Turn ON the power while [0] button and [8] button are pressed simultaneously.
 - Key in "947", 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 was overwritten properly.

<Updating Master data>
08-924: Version of UI data language 1 in HDD
08-925: Version of UI data language 2 in HDD
08-926: Version of UI data language 3 in HDD
08-927: Version of UI data language 4 in HDD
08-928: Version of UI data language 5 in HDD
08-929: Version of UI data language 6 in HDD
08-931: Version of UI data language 7 in HDD
08-933: HDD unit data version
08-934: Version of Web UI data language 2 in HDD
08-935: Version of Web UI data language 2 in HDD
08-936: Version of Web UI data language 3 in HDD
08-937: Version of Web UI data language 4 in HDD
08-938: Version of Web UI data language 5 in HDD
08-938: Version of Web UI data language 4 in HDD
08-938: Version of Web UI data language 4 in HDD
08-938: Version of Web UI data language 4 in HDD

<Updating System ROM> 08-900: System ROM version 08-922: UI data fixed section version 08-923: UI data common section version 08-930: Version of UI data in FROM displayed at power ON

<Updating Engine ROM> 08-903: Engine ROM version

<Updating Scanner ROM> 08-905: Scanner ROM version

[C] Display during the update (When the FROM basic section software version of the equipment is "V1.00 / 1.12" or earlier:)

Update is performed in parallel as shown in the transition diagram below.



Fig. 6-108

Below is an example of the changes of the LCD screen during update.

Note that the screen order may be different from the actual one, because a parallel update is performed in the process.

Turn ON the power while [4] button and	[9] button are pressed simultaneously
Ϋ́	The initial screen is displayed and the recogni tion of the USB storage device connected to the equipment is started.
Download Storage Update Mode Please wait now Initialization	
Ϋ́	When the device is recognized properly, the screen for selecting update items is displayed
Download Storage Firmware Update Mode Select Update Item	Version in update media
 *0. OS Update *1. HDD Update *2. UI Data Update *3. System Firmware Update *4. Engine Firmware Update *5. Scanner Firmware Update 	UIF Version Vxxx.xxx x UIO Version Vxxx.xxx x UI1 Version Vxxx.xxx x SYS Version Vxxx.xxx x ENG Version xxxxx-xx SCN Version xxxxx-xx
	Select items to be updated and press the



Select items to be updated and press the [START] button to start updating the [System ROM], [Master Data], [Engine ROM] and [Scanner ROM] in parallel.

Download Storage Firmware Update Mode	
Download Board -> FROM Update Start. Check Devices - Completed Update Status - Installing Data Check -	OS Update Completed HD Data Update
Download Storage -> HDD copying 1/n	Engine MAIN Update Flash Update Scanner Firm Update Flash Update
Engine Update Status xxxx/nnnnn Scanner Update Status xxxx/nnnnn	

Ω

When the [System ROM]-[OS Update] has been updated, "OS Update...Completed" is displayed and the [UI Update] update will start.

Download Storage Firmware Update Mode	
Download Board -> FROM Update Start. Check Devices - Completed Update Status - Installing Data Check -	OS Update Completed HD Data Update UI Data Update
Download Storage -> HDD copying 1/n	Engine MAIN Update Flash Update Scanner Firm Update Flash Update
Engine Update Status xxxx/nnnnn	
Scanner Update Status xxxx/nnnnn	

 \mathcal{V}

When the [System ROM]-[UI Update] has been updated, "UI Data Update...Completed" is displayed and the [System Firmware Update] update will start.

Download Storage Firmware Update Mode	
Download Board -> FROM Update Star Check Devices - Completed Update Status - Installing Data Check -	t. OS Update Completed <u>HD Data Update</u> <u>UI Data Update Completed</u> SysFirm Update Engine MAIN Update
Download Storage -> HDD copying 1/n Engine Update Status xxxx/nnnnn Scanner Update Status	Scanner Firm Update Flash Update
xxxx/nnnnn	

6

Ϋ́

When the [Engine ROM] has been updated, "Engine MAIN Update..Flash Update" is changed to "Engine MAIN Update..Completed".

Download Storage Firmware Update Mode	
Download Storage -> FROM Update Start. Check Devices - Completed	OS Update Completed HD Data Update
Update Status – Installing	UI Data Update Completed
Data Check —	SysFirm Update
	(Engine MAIN Update Completed)
Download Storage -> HDD copying 1/n xxx/ yyy	Scanner Firm Update Flash Update
2/n xxx/ yyy	
Scanner Update Status xxxx/nnnnn	

When the [System ROM]-[System Firmware Update] has been updated, "SysFirm Update...Completed" is displayed.

Download Storage Firmware Update Mode	
Download Storage -> HDD copying 1/n xxx/ yyy 2/n xxx/ yyy 3/n Scanner Update Status xxxx/nnnn	OS Update Completed HD Data Update UI Data Update Completed SysFirm Update Completed Engine MAIN Update Completed Scanner Firm Update Flash Update
File name of master data	—— Total files —— Copies

When the [Master Data] has been updated, "HD Data Update...Completed" is displayed.

Download Storage Firmware Update Mode	
	OS Update Completed (HD Data Update Completed) UI Data Update Completed SysFirm Update Completed Engine MAIN Update Completed Scanner Firm Update Flash Update
Scanner Update Status xxxx/nnnnn	

Ŷ

When the [Scanner ROM] has been updated, "Scanner Firm Update..Flash Update" is changed to "Scanner Firm Update..Completed".

When all data has been updated, "Update Completed" is displayed.

Download Storage Firmware Update Mode

OS Update	Completed
HD Data Update	Completed
UI Data Update	Completed
SysFirm Update	Completed
Engine MAIN Update Completed	
(Scanner Firm Update	Completed)

Update Completed.

6 - 103 05/11

* If the USB storage device is not recognized properly, the following message is displayed and the update is interrupted.

Please Set Correct USB Storage Device

* "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.

Download Storage Firmware Update Mode	
	OS Update Completed HD Data Update Completed UI Data Update Completed SysFirm Update Completed Engine MAIN Update Failed Scanner Firm Update Completed
Failed	l items Error message
[D] Display during the update (When the FROM basic section software version of the equipment is "V1.00 / 4.22" or later:)

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.

Turn ON the power while [4] button and [9] button are pressed simultaneously



The initial screen is displayed and the recognition of the USB storage device connected to the equipment is started.

Download Storage Update Mode Please wait ... now Initialization



When the device is recognized properly, the screen for selecting update items is displayed.

Download Storage Firmware Update Mode Select Update Item *1. OS UI Update *2. HDD SYS Update *3. Engine Firmware Update *4. Scanner Firmware Update Diff Version... Vxxx. xxx. x UIF Version... Vxxx. xxx. x UIO Version... Vxxx. xxx. x UI1 Version... Vxxx. xxx x SYS Version... Vxxx. xxx x ENG Version... xxxxx-xx SCN Version... xxxxx-xx

 \int_{Γ}

Select items to be updated and press the [START] button.

Download Storage Firmware Update Mode -> FROM Update Start. Download Board OS UI Update HDD SYS Update Check Devices Completed — _ Update Status Installing Engine MAIN Update ... Flash Update Data Check _ Scanner Firm Update ... Flash Update Download Storage -> HDD copying 1/n Engine Update Status xxxx/nnnnn Scanner Update Status xxxx/nnnnn

When the [OS data] / [UI data] has been updated, "OS UI Update...Completed" is displayed.

Download Storage Firmwar	e Update Mode		
Download Board -> FRC Check Devices - Cc Update Status - Ir Data Check -	OM Update Start. ompleted nstalling	OS UI Update HDD SYS Update Engine MAIN Update Scanner Firm Update	Completed) Flash Update Flash Update
Download Storage -> HDD 1) copying /n		
Engine Update Status xxxx/nnnnn Scanner Update Status xxxx/nnnnn			

When the [Engine ROM] has been updated, "Engine MAIN Update..Flash Update" is changed to "Engine MAIN Update.. Completed".

Download Storage Firmware Update Mode	
	OS UI Update Completed HDD SYS Update Engine MAIN Update Completed) Scanner Firm Update Flash Update
Download Storage -> HDD copying 1/n xxx/ yyy 2/n xxx/ yyy	
Scanner Update Status xxxx/nnnnn	
File name of master data	— Total files — Copies
Ŷ	When the [Master Data] / [System firmware] has been updated, "HDD SYS Update Completed" is displayed.
Download Storage Firmware Update Mode	
	OS UI Update Completed HDD SYS Update Completed Engine MAIN Update Completed Scanner Firm Update Flash Update
Scapper Update Status	
xxxx/nnnnn	
Ū.	When the [Scanner ROM] has been updated, "Scanner Firm UpdateFlash Update" is changed to "Scanner Firm Update Completed".
	When all data has been undeted "I is data

When all data has been updated, "Update Completed" is displayed.

Download Storage Firmware Update Mode	
	OS UI Update Completed HDD SYS Update Completed Engine MAIN Update Completed Scanner Firm Update Completed
	Update Completed.)

If the USB storage device is not recognized properly, the following message is displayed and the * update is interrupted.

Please Set Correct USB Storage Device	

"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. *

Download Storage Firmware Update Mode	
	OS UI Update Completed HDD SYS Update Completed Engine MAIN Update Failed Scanner Firm Update Completed
	Update Failed.
Failed	l items Error message

6.6 Appendix

6.6.1 e-STUDIO200L/230/230L/280

[A] Assist Mode

This equipment has the Assist Mode to enable the following functions.

- NVRAM flag clearing ("Clear NvRAM flags.") 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 NVRAM 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 NVRAM on the SYS board, the flags are cleared with this function.
- 2) Data storage partition formatting ("Format UID rom PRF PR2 SMS Partition.")
 When a defection 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.)
- 3) HDD partition creation ("All Partition delete and create UID rom PRF PR2 SMS Partition.") When the HDD is replaced or UI data, etc. are downloaded using the FSMS or 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 and scrambler board are installed since all data in the current HDD are erased by this operation.

[B] 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 Version Up Mode
Select Number(1-3) and Press START key.
> 1 : Clear NvRAM flags.
2 : Format UID rom PRF PR2 SMS Partition.
3 : All Partition delete and create UID rom PRF PR2 SMS Partition.

Fig. 6-110

(2) Select the item with the digital keys and press the [START] button.

6.6.2 e-STUDIO202L/203L/232/233/282/283

[A] Assist Mode

This equipment has the Assist Mode to enable the following functions.

(1) NVRAM flag clearing ("Clear NvRAM flags.")

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 NVRAM 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 NVRAM on the SYS board, the flags are cleared with this function.

- (2) Data storage partition formatting ("Format Loader Partition.") When a defection 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.)
- (3) HDD partition creation ("All Partition Delete and Create Loader Partition.") 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:

- 1. When downloading with a download jig, it is not necessary to format a partition in advance.
- 2. Perform the HDD partition formatting only when a new HDD and scrambler board are installed since all data in the current HDD are erased by this operation.

[B] 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 Version Up Mode
Select Number(1-3) and Press START key.
> 1 : Clear NvRAM flags.
 2 : Format Loader partition.
 3 : All Partition Delete and Create Loader Partition.

(2) Select the item with the digital keys and press the [START] button.

7. POWER SUPPLY UNIT

7.1 Output Channel

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

1)	+3.3V		
• /	+3.3VA	:	CN705 Pins 13, 14, 15 and 16
			Output to the SYS board
	+3.3VB	:	CN705 Pins 19 and 20
			Output to the SYS board
	+3.3VB	÷	CN706 PIN 30 Output to the LCC heard
	+3 3\/B		CN708 Pins 9 and 10
	.0.040	•	Output to the SLG board
2)	+5.1V		
	+5.1VA	:	CN705 Pins 24 and 26
	±5 1\/B		CNIZOS Pin 25
	13.100	•	Output to the SYS board
	+5.1VB	:	CN706 Pin 26
	-		Output to the FUS board
	+5.1VB	:	CN706 Pins 27 and 28
			Output to the LGC board, PFP/ LCF (via LGC board),
			Bridge unit / Job separator / Offset tray (via LGC board)
	+5.1VB	:	CN/0/ Pin 4 Output to the finisher
	+5 1\/B		CN708 Pipe 3 and 4
	10.100	•	Output to the SLG board
	+5.1VB	:	CN708 Pins 5 and 6
			Output to the RADF
<u>_</u>	. 40) (
3)	+12V		
	TIZVA	·	Output to the SYS board
	+12VB	•	CN705 Pin 5
		•	Output to the SYS board
	+12VB	:	CN706 Pin 22
			Output to the LGC board
	+12VB	:	CN708 Pin 13
			Output to the SLG board
4)	-12V		
• /	-12VA	:	CN705 Pin 9
			Output to the SYS board
	-12VB	:	CN705 Pin 3
			Output to the SYS board
5)	+24\/		
5)	+24VB	•	Not used

7

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

1) +5.1V	
+5.1VD :	CN706 Pin 2
	Output to the LGC board
2) +24V	
+24VD1 :	CN706 Pins 11, 12, 13 and 14
	Output to the LGC board, PFP/LCF (via LGC board)
+24VD1 :	CN707 Pins 15 and 16
	Output to the main motor
+24VD2 :	CN706 Pins 5 and 6
	Output to the LGC board, High-voltage transformer (via LGC board),
	Bridge unit / Job separator / Offset tray (via LGC board)
+24VD2 :	CN707 Pins 11 and 12
	Output to the ADU board
+24VD3 :	CN708 Pins 23 and 24
	Output to the RADF
+24VD4 :	CN708 Pins 19 and 20
	Output to the SLG board
+24VD5 :	CN707 Pin 8
	Output to the finisher

<<Output connector>>

Not linked with the door switch

Connector	Destination	Voltage
CN705	For the SYS board	+3.3VA, +3.3VB, +5.1VA, +5.1VB, +12VA, +12VB, -12VA, -12VB
CN706	For the LGC board, FUS board, PFP/LCF (via LGC board), Bridge unit / Job separator / Offset tray (via LGC board)	+3.3VB, +5.1VB, +12VB
CN707	For the finisher	+5.1VB
CN708	For the SLG board, RADF	+3.3VB, +5.1VB, +12VB

Linked with the door switch

Connector	Destination	Voltage
CN706	For the LGC board, High-voltage transformer (via LGC board), PFP/LCF (via LGC board), Bridge unit / Job separator / Offset tray (via LGC board)	+5.1VD, +24VD1, +24VD2
CN707	For the ADU board, finisher	+24VD1, +24VD2, +24VD5
CN708	For the SLG board, RADF	+24VD3, +24VD4

7.2 Fuse

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

Voltage	Board/Unit	Part	Fuse type
+24VD1	LGC	Main motor	F3:8A (Semi time-lag)
		Toner motor	
		Polygonal motor	
		Tray-up motor	
		Internal cooling fan 1	
		Internal cooling fan 2	
		Auto-toner sensor	
		Upper drawer feed clutch	
		Lower drawer feed clutch	
		Registration roller clutch	
		Upper transport clutch	
		Middle transport clutch	
		Lower transport clutch	
		Discharge LED	
	Main switch		
	PFP/LCF		
+24VD2	LGC	Exit motor	F5:8A (Semi time-lag)
		ADU motor	
		Exhaust fan	
		Bypass feed clutch	
		ADU clutch	
		Bypass pickup solenoid	
		High-voltage transformer	
	Key copy count	er / Copy key card	
	Bridge unit / Jol	o separator / Offset tray	
+24VD3	RADF		F6:4A (Semi time-lag)
+24VD4	SLG	Scan motor	F5:8A (Semi time-lag)
		Exposure lamp (Lamp inverter)	
+24VD5	Finisher		F4:5A (Semi time-lag)

7.3 Configuration of Power Supply Unit





e-STUDIO200L/202L/203L/230/230L/232/233/280/282/283 POWER SUPPLY UNIT © 2004 - 2010 TOSHIBA TEC CORPORATION All rights reserved

8. REMOTE SERVICE

There are following functions as Remote Service.

- 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.

8.1 Auto Supply Order

8.1.1 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

When the toner empty occurs, the number of occurrences is counted. And when it reaches the specified number for CONDITION, the 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.

8

8.1.2 Setting Item

To enable Auto Supply Order, the following settings are required.

Note:

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 (08-765) 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

- Basic 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.

[ADMIN] > [SERVICE] > [SUPPLY ORDER SETUPJ > [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 username of this equipment

*1 When sending an E-mail, validity of the address is checked. If the address is invalid, it is not sent.

 Output of setting list of the Auto Supply Order Keying in the following buttons and keys prints the setting list. [USER FUNCTIONS] [USER] [LISTS] [*] [#] [*] [*] [3] [8] [START]

8.1.3 Setting procedure

- (1) Start up the self-diagnosis setting mode 08-765, 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] button.
 - When the Administrator Password has been set, ADMINISTRATOR PASSWORD screen is displayed.

ADDRESS	COUNTER	USER	ADMIN	
ADMINISTRATOR PA	SSWORD			
	سی *****	PASSWORD		

Fig. 8-1

- (5) Press the [PASSWORD] button and the screen is switched to a full keyboard. Then key in the Administrator Password and press the [ENTER] button.
 - * Confirm the password to the administrator.





(6) Press the [SERVICE] button in the ADMIN screen.

(7) The SERVICE screen is displayed.





(8) Press the [SUPPLY ORDER SETUP] button.

ADDRESS	
RETURN	

Fig. 8-4

- (9) Press the [ORDER INFORMATION] button.
- (10) The ORDER INFORMATION screen is displayed.

ADDRESS COUNTER	ADMIN
ORDER INFORMATION	
AUTO SUPPLY ORDER FAX MAIL HTTP OFF FAX NUMBER E-MAIL	UPL Frikt Namep Ø
	CANCEL ENTER Next

Fig. 8-5

 (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 [NEXT] button.

(Press the [ENTER] 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) SER-VICE screen.)

(13) The CUSTOMER/SUPPLIER screen is displayed.

ADDRESS	COUNTER	USER	ADMIN		
CUSTOMER NAME TEL NUMBER E-MAIL ADDRESS			SUPPLIER NAME ADDRESS		
				ENTER	Next Prev

Fig. 8-6

(14) Press the buttons of the screen of CUSTOMER/SUPPLIER 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.

SUPPLIER

[NAME] --- Input the name of supplier. [ADDRESS] --- Input the address of supplier.

(15) Press the [NEXT] button.

(16) The SERVICE TECHNICIAN/ RESULT PRINTING screen is displayed.

SERVICE TECHNICIAN NUMBER NAME TEL NUMBER E-MAIL	DESCRIPTION RESULT PRINTING OFF ALWAYS ON ERROR
	CANCEL ENTER Prev



(17) Press a button on the screen of SERVICE TECHNICIAN/ RESULT PRINTING to set the required item.

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.

[DESCRIPTION] --- Input the remarks if you want to register.

RESULT PRINTING

[OFF] / [ALWAYS] / [ON ERROR] --- Whichever you press, the result list is printed.

- (18) Press the [ENTER] button to register and complete the order information setting.
- (19) The SERVICE screen is returned.

ADDRESS	COUNTER	USER	ADMIN	
SERVICE				
su	PPLYORDER SETUP			
RETURN				

Fig. 8-8

(20) Press the [SUPPLY ORDER SETUP] button.

ADDRESS	COUNTER	USER	ADMIN	
	PERER NAME TEL.			
RETURN				



- (21) Press the [TONER ORDERING] button.
- (22) The TONER ORDERING screen is displayed.

ADDRESS COUNTER USER ADMIN
TONER ORDERING
TONER
RETURN

Fig. 8-10

(23) Press the [TONER] button. (Select the part to be ordered.)

		_
ADDRESS COUNTER	USER ADMIN	
BLACK(K) TONER ORDER PART NUMBER CONDITION QUANTITY 1	AUTO ORDER	
	CANCEL	ENTER



(24) Input the order information of TONER. [PART NUMBER] --- Toner number

[CONDITION] ---

The order is placed when the number of toner empty reaches the number specified for the CON-DITION.

[QUANTITY] --- Quantity to be ordered

AUTO ORDER

[ON]/[OFF]--- Allows you to select whether each part to be ordered is placed automatically or not.

- (25) Press the [ENTER] button to register the setting of toner order.
- (26) The screen returns to the TONER ORDERING.
- (27) 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.

Note:

Auto Supply Order setting is also available from the following setting mode (08).

ltems	08 code	Contents
The transmitting way of order [FAX] / [MAIL] / [OFF]	732	0: Ordered by FAX 1: Ordered by E-mail 2: Ordered by HTTP 3: OFF
SUPPLIER [FAX NUMBER]	733	Maximum 32 digits
SUPPLIER [E-MAIL]	734	Maximum 192 letters
CUSTOMER [NAME]	738	Maximum 50 letters
CUSTOMER [TEL NUMBER]	739	Maximum 32 letters
CUSTOMER [E-MAIL]	740	Maximum 192 letters
CUSTOMER [ADDRESS]	741	Maximum 100 letters
SUPPLIER [NAME]	746	Maximum 50 letters
SUPPLIER [ADDRESS]	747	Maximum 100 letters
SERVICE TECHNICIAN [NUMBER]	742	Maximum 5 digits
SERVICE TECHNICIAN [NAME]	743	Maximum 50 letters
SERVICE TECHNICIAN [TEL NUMBER]	744	Maximum 32 digits
SERVICE TECHNICIAN [E-MAIL]	745	Maximum 192 letters
Remarks [DESCRIPTION]	748	Maximum 128 letters
TONER [PART NUMBER]	758	Maximum 20 digits
TONER [CONDITION]	760	1-99
TONER [QUANTITY]	759	1-99

8.1.4 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.)

CUSTOMER NUMBER CUSTOMER NAME CUSTOMER ADDRESS CUSTOMER TEL NUMBER CUSTOMER E-MAIL ADDRESS SERVICE TECHNICIAN TEL NUMBER SERVICE TECHNICIAN E-MAIL SUPPLIER NAME SUPPLIER ADDRESS	:99-99-99 99:99 :XXX :XXXXXXXXXXXXXXXXXXXXXXXXX
TONER CARTRIDGE	PART NUMBER QUANTITY
BLACK	: XXXXXXXXXXX 99
DESCRIPTION AREA	
DEVICE DESCRIPTION	:xxxxxxxxxxxxxxxxxxxxx
SERIAL NUMBER	:XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
DEVICE FAX NUMBER	:XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
DEVICE E-MAIL ADDRESS	:XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TOTAL	
TOTAL PRINT COUNTER 999999999	

Fig. 8-12

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



Fig. 8-13

3) Result list

DATE & TIME CUSTOMER NUMBER CUSTOMER NAME CUSTOMER ADDRESS CUSTOMER TEL NUMBER CUSTOMER E-MAIL ADDRESS SERVICE TECHNICIAN TEL NUMBER SERVICE TECHNICIAN E-MAIL SUPPLIER NAME SUPPLIER ADDRESS	ORDER XXXXXXXX :99-99-'99 99:99 :XXX :XXX: :XXXXXXXXXXXXXXXXXXX
TONER CARTRIDGE	PART NUMBER QUANTITY
BLACK	: *************************************
DESCRIPTION AREA	
DEVICE DESCRIPTION	:XXXXXXXXXXXXXXXXXXXXXXXX
	:XXXXXXXXXXXXXXXXXXXXXXXX
DEVICE FAX NUMBER	:XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TOTAL	
PRINT COUNTER 999999999	
SCAN COUNTER 999999999	

Fig. 8-14

8

8.2 Service Notification

8.2.1 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 sheet counter has reached to its setting value, or the present PM driving counter has reached to its setting value.

8.2.2 Setting (e-STUDIO200L/230/230L/280)

Note:

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).

08-774 Setting of notification display

- 0: Invalid (Default)
- 1: Valid

[2] Setting procedure

- (1) Press the [USER FUNCTIONS] button and select the [ADMIN] button. Then enter the password and press the [ENTER] button.
 - Confirm the password to the administrator.

ADDRESS	COUNTER	USER	ADMIN		
ADMINISTRATOR	PASSWORD				
	~~~) *****_	PASSWORD]	

Fig. 8-15

(2) Press the [SERVICE] button.





(3) Press the [SERVICE NOTIFICATION] button.





- (4) Press the [E-MAIL] or [FAX] button in "SERVICE NOTIFICATION".
 - When the [OFF] button is pressed, all functions related Service Notification become ineffective.

SERVICE NOTIFICATION
OFF E-MAIL FAX
CANCEL

Fig. 8-18

- (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 [ENTER] button. (Maximum 3 addresses can be set.)

ADDRESS COUNTER USER	ADMIN
SERVICE NOTIFICATION E-MAIL aaa@toshiba.com E-MAIL	TOTAL COUNTER TRANSMIT



• Press the [FAX NUMBER] button, key in the FAX number and then press the [ENTER] button.

ADDRESS COUNTER USER	ADMIN
SERVICE NOTIFICATION	TOTAL COUNTER TRANSMIT ON OFF ON OFF ON OFF

Fig. 8-20

(6) Press the [ON] button to notify or [OFF] button not to notify of each item for E-mail and FAX. When the Total Count Transmit is set ON, the screen to set the notification date is displayed. Then set the notification date with the following procedure. (The information is notified on the set date and time every month.)

ADDRESS	
TOTAL COUNTER DETAILS	
	Date : II SET
	Time : 20 15 RESET



- Key in the date (acceptable values: 1-31) in "Date" and press the [SET] button. (Correct the
 value by pressing the [CLEAR] button if the [SET] button is not yet pressed. Correct the value
 by pressing the [RESET] button to move the cursor back to the digit to be corrected if the
 [SET] button is already pressed.)
- Key in the time (acceptable values: 00:00-23:59) in "Time".
 Key in the time in the hour column of "Time", press the [SET] button, key in the time in the minute column of "Time" and press the [SET] button. (Correct the value by pressing the [CLEAR] button if the [SET] button is not yet pressed. Correct the value by pressing the [RESET] button to move the cursor back to the digit to be corrected if the [SET] button is already pressed.)
- Press the [ENTER] button to set all. The display returns to the screen at procedure (5).
- (7) Press the [ENTER] button. The setting completes.

Note:

Service Notification setting is also available from the following setting mode (08).

Items	08 code	Contents
Service Notification setting	767	0: OFF (Invalid) 1: E-mail 2: FAX
E-mail address 1	768	Maximum 192 letters
E-mail address 2	777	Maximum 192 letters
E-mail address 3	778	Maximum 192 letters
FAX number	1145	Maximum 32 digits
Total Counter Transmit setting	769	0: OFF (Invalid) 1: ON (Valid)
Total counter transmission date setting	770	1 to 31
Total counter transmission interval setting (Hour/Hour/Minute/Minute)	776	00:00-23:59
Service Call Transmit setting	775	0: OFF (Invalid) 1: ON (Valid)
PM Counter Transmit setting	771	0: OFF (Invalid) 1: ON (Valid)

8.2.3 Items to be notified (e-STUDIO200L/230/230L/280)

The items to be notified are shown below.

- 1) Total Counter Transmit / PM Counter Transmit by E-mail (XML file attached to E-mail has also the same format.)
 - Subject: Counter Notification
 - (In case of the PM Counter Transmit, it is shown as "Periodical Maintenance Notification".)

(1) Date : 07/11/2004 15:54	
(2) Machine Model : TOSHIBA e-STUDIO280	
(3) Serial Number : 1234567890	
(4) Total Counter : 00300000	
ChargeCounterFormat:	
5 LargeSizeChargeCount 1	
6 LargeSizeChargePaperDefinition 1	
PMCounterFormat:	
7 LargeSizePMCount 1	
8 LargeSizePMPaperDefinition 1	
Charge Counter:	
Large Small	
<print counter=""></print>	
(9) Copy 0000000 0000000	
00000000 00000000 00000000	
(f) List 0000000 0000000	
(12) FAX 0000000 0000000	
<scan counter=""></scan>	
(13) Copy Scan 00000000 00000000	
(i) FAX Scan 00000000 00000000	
(15) Net Scan 00000000 00000000	
<fax counter=""></fax>	
(16) Transmit 00000000 00000000	
(17) Receive 00000000 00000000	
Periodical Maintenance Counter:	
(18)————————————————————————————————————	
(19) Current PM 0000000	
20 Set PMTime 00000000	
Current PMTime 00000000	
22 Printer Error History:	
Date Time ErrorCode	
05/08/2004 16:44 F110 T	
05/15/2004 22:28 F110	
05/15/2004 22:23 F110 - (*1)	
04/15/2004 22:23 F110	
03/25/2004 11:12 F110	
	_

Fig. 8-22

- 1 Date
- 2 Machine model name
- ③ Serial number
- 4 Total counter value
- (5) Count setting of large-sized paper (Fee charging system counter)
- (6) Definition setting of large-sized paper (Fee charging system counter)
- (7) Count setting of large-sized paper (PM)
- (8) Definition setting of large-sized paper (PM)
- (9) Number of output pages in the Copier Function
- 10 Number of output pages in the Printer Function
- (1) Number of output pages at the List Print Mode
- (12) Number of output pages in the FAX Function
- (13) Number of scanning pages in the Copier Function
- 14 Number of scanning pages in the FAX Function
- 15 Number of scanning pages in the Network Scanning Function
- (16) Number of transmitted pages in the FAX Function
- (17) Number of received pages in the FAX Function
- (18) PM sheet counter setting value
- (19) PM sheet counter present value
- 20 PM driving counter setting value
- 21 PM driving counter present value

22 History of error

*1 The latest 20 errors are displayed.

- 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".

	COUNTER NOTIFICATION (*1)		
1- 2- 3- 4-	-DATE : 05/03/10 13:47 -MACHINE MODEL : TOSHIBA e-STUDIO280 -SERIAL NUMBER : 1234567890 -TOTAL COUNTER : 00004787		
	CHARGE COUNTER FORMAT	PM COUNTER FORMAT	
(5)	LARGE SIZE CHARGE COUNT : 1 LARGE SIZE CHARGE PAPER DEFINITION : 1	⑦-LARGE SIZE PM COUNT : 1 ⑧-LARGE SIZE PM PAPER DEFINITION : 1	
	CHARGE COUNTER		
	PRINT COUNTER	SCAN COUNTER	
9 (1) (1) (1) (1)	LARGE SMALL COPY 0000000 0000000 PRINT 0000000 0000000 LIST 0000000 0000000 FAX 0000000 0000000	LARGE SMALL (13)— COPY SCAN 0000000 0000000 (14)— FAX SCAN 00000000 00000000 (15)— NET SCAN 00000000 00000000	
	FAX COUNTER	PERIODICAL MAINTENANCE COUNTER	
16— 17—	LARGE SMALL TRANSMIT 00000000 00000000 RECEIVE 00000000 00000000	18—SET PM :00000000 19—CURRENT PM :00000000 20—SET PM TIME :00000000 21—CURRENT PM TIME :00000000	
@	- PRINTER ERROR HISTORY		
	DATETIMEERROR CODE05/03/0916:44F11005/03/0522:28F11005/03/0522:23F11005/02/1522:23F11005/01/2511:12F110	DATE TIME ERROR CODE	

Fig. 8-23

- 1 Date
- 2 Machine model name
- (3) Serial number
- 4 Total counter value
- (5) Count setting of large-sized paper (Fee charging system counter)
- (6) Definition setting of large-sized paper (Fee charging system counter)
- (7) Count setting of large-sized paper (PM)
- (8) Definition setting of large-sized paper (PM)
- (9) Number of output pages in the Copier Function
- 10 Number of output pages in the Printer Function
- (1) Number of output pages at the List Print Mode
- 12 Number of output pages in the FAX Function
- (13) Number of scanning pages in the Copier Function
- 14 Number of scanning pages in the FAX Function
- (15) Number of scanning pages in the Network Scanning Function
- (16) Number of transmitted pages in the FAX Function
- 17 Number of received pages in the FAX Function
- (18) PM sheet counter setting value
- (19) PM sheet counter present value
- 20 PM driving counter setting value
- 21 PM driving counter present value
- (22) History of error
 - *2 The latest 20 errors are displayed.

Service Call Transmit Subject: Serviceman Call Notification

1— (4)— (5)— (6)— (7)—	 Date: 07/11/2004 13:4 <u>Machine Name: e-STI</u> Function: Print Severity: Error ErrorCode: XXXX Message: XXXXXXXXXXXXXXXXXX 	7 JDIO280 <u>SerialNumber: 1234567890</u> (2) (XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
8—	– Printer Error History:	
	Date Time	ErrorCode
	05/18/2004 16:44 05/15/2004 22:28 05/15/2004 22:23 04/15/2004 22:23 03/25/2004 11:12	F110 F110 F110 F110 F110 F110

Fig. 8-24

- 1 Date (When an error occurs)
- 2 Machine model name
- ③ Serial number
- (4) Function: Fixed at "Print"
- (5) Severity: Fixed at "Error"
- 6 Error code
- (7) Error message: The content of error is displayed.
- (8) History of error
 - *1 The latest 20 errors are displayed.

8.2.4 Setting (e-STUDIO202L/203L/232/233/282/283)

Note:

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).

08-774 Setting of notification display 0: Invalid (Default) 1: Valid

[2] Setting procedure

- (1) Press the [USER FUNCTIONS] button and select the [ADMIN] button. Then enter the password and press the [ENTER] button.
 - Confirm the password to the administrator.

ADDRESS	COUNTER	IISEP	
	COONTER	0021	
ADMINISTRATOR	PASSWORD		
	ححت) *****	PASSWORD	

Fig. 8-25

(2) Press the [SERVICE] button.





(3) Press the [SERVICE NOTIFICATION] button.

ADDRESS COUNTER SERVICE	USER
	NSERVICE.

- (4) Press the [E-MAIL] or [FAX] button in "SERVICE NOTIFICATION".
 - When the [OFF] button is pressed, all functions related Service Notification become ineffective.

ADDRESS COUNTER USER ADMIN		
SERVICE NOTIFICATION		
OFF E-MAIL FAX		
CANCEL		

Fig. 8-28

- (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 [ENTER] button. (Maximum 3 addresses can be set.)

ADDRESS COUNTER USER	ADMIN
SERVICE NOTIFICATION E-MAIL aaa@toshiba.com E-MAIL E-MAIL	TOTAL COUNTER TRANSMIT ON OFF FM COUNTER TRANSMIT ON OFF SERVICE CALL TRANSMIT ON OFF CANCEL ENTER

Fig. 8-29

• Press the [FAX NUMBER] button, key in the FAX number and then press the [ENTER] button.

ADDRESS COUNTER USER	ADMIN
SERVICE NOTIFICATION	TOTAL COUNTER TRANSMIT

Fig. 8-30
(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.

ADDRESS COUNTER	ADMIN
TOTAL COUNTER DETAILS Sunday Monday Tuesday Wednesday Thursday Friday Saturday	Time : 10:00 CHANGE SEND NOW
DATE	

Fig. 8-31

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".

8

• 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.

ADDRESS	COUNTER	USER		
TOTAL COUNTER D	ETAILS			
	Notif	y Date 1 :	0 SET	
			CANCEL ENTER	

Fig. 8-32

Key in the date (acceptable values: 0-31) in "Notify Date 1" or "Notify Date 2" and press the [SET] button.

([SET] button not pressed: Correct the value after pressing the [CLEAR] button.

[SET] button already pressed: Correct the value after pressing the [RESET] button to move the cursor back to the digit to be rectified.)

• 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".

ADDRESS	COUNTER	IISEP	
TOTAL COUNTER	DETAILS		
	Г	ime : 10	0 SET
			CANCEL

Fig. 8-33

Key in the time (acceptable values: 00:00-23:59) in "Time".

Key in the time in the hour column of "Time", press the [SET] button, key in the time in the minute column of "Time" and press the [SET] button.

([SET] button not pressed: Correct the value after pressing the [CLEAR] button.

[SET] button already pressed: Correct the value after pressing the [RESET] button to move the cursor back to the digit to be rectified.)

After all the settings are completed, press the [ENTER] button. The display returns to the screen in step (5).

(7) Press the [ENTER] button. The setting completes.

Note:

Service Notification setting is also available from the following setting mode (08).

Items	08 code	Contents
Service Notification setting	767	0: OFF (Invalid) 1:E-mail 2:FAX
E-mail address 1	768	Maximum 192 letters
E-mail address 2	777	Maximum 192 letters
E-mail address 3	778	Maximum 192 letters
FAX number	1145	Maximum 32 digits
Total Counter Transmit setting	769	0: OFF (Invalid) 1: ON (Valid)
Total counter transmission date setting	770	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, Fri- day, Saturday
Total counter transmission interval setting (Hour/Hour/Minute/Minute)	776	00:00-23:59
Service Call Transmit setting	775	0: OFF (Invalid) 1: ON (Valid)
PM Counter Transmit setting	771	0: OFF (Invalid) 1: ON (Valid)

8.2.5 Items to be notified (e-STUDIO202L/203L/232/233/282/283)

The items to be notified are shown below.

- 1) Total Counter Transmit / PM Counter Transmit by E-mail (XML file attached to E-mail has also the same format.)
 - Subject: Counter Notification

(In case of the PM Counter Transmit, it is shown as "Periodical Maintenance Notification".)

(1)—	- Data : 01/01/2007 12:24
ğ—	Machine Model : TOSHIBA e-STUDIOxxx
3_	— SerialNumber : 1234567890
(4)-	- Iotal Counter : 00004787
6	Supplier: Name : SUPPLIER_NAME Tel Number : 1122334455 E-Mail : Supplier_emailaddress@cccc.xxx Address : SUPPLIER_ADDRESS
6—	— Customer: Name : CUSTOMER_NAME Tel Number : 1234567890
	E-Mail : <u>customer_emailaddress@dddd.xx</u> x Address : CUSTOMER_ADDRESS
7—	Service Technician:
	Number : svc12 Name : SERVICE_TECHNICIAN_NAME Tel Number : 0987654321 E-Mail : <u>svc@toshibatec.co.jp</u>
0	ChargeCounterFormat:
<u>®</u>	LargeSizeChargeCount 1 LargeSizeChargePaperDefinition 1
e	PMCounterFormat:
(10)—	LargeSizePMCount 1
<u>(1</u>)—	LargeSizePMPaperDefinition 0
	Charge Counter:
	Print Counter>
(12)	Copy 0000000 0000000
(13)	Print 0000000 0000000
(15)	Eist 00000000 0000000 FAX 0000000 0000000
0	<scan counter=""></scan>
16—	Copy Scan 0000000 0000000
(1)-	FAX Scan 00000000 0000000
0	
(19—	Transmit 00000000 0000000
20—	Receive 00000000 00000000
	Periodical Maintenance Counter:
21-	Set PM00150000
22-	Current PM 00004787
ă—	CurrentPMTime 0000000
25—	Printer Error History:
0	Date Time ErrorCode
	12/13/2006 16:44 F110
	12/12/2006 22:28 F110 (*1)
	1/1/15/2006 22:23 F110 (')
	10/25/2006 11:12 F110

Fig. 8-34

- (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
- (13) Number of output pages in the Printer Function
- (14) Number of output pages at the List Print Mode
- (15) Number of output pages in the FAX Function
- (16) Number of scanning pages in the Copier Function
- (17) Number of scanning pages in the FAX Function
- (18) Number of scanning pages in the Network Scanning Function
- (19) Number of transmitted pages in the FAX Function
- (20) Number of received pages in the FAX Function
- (21) PM count setting value
- (22) PM count present value
- (23) PM driving count setting value
- (24) PM driving count present value
- (25) History of error
 - *1 The latest 20 errors are displayed.

- 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".





- (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
- (13) Number of output pages in the Printer Function
- (14) Number of output pages at the List Print Mode
- (15) Number of output pages in the FAX Function
- (16) Number of scanning pages in the Copier Function
- (17) Number of scanning pages in the FAX Function
- (18) Number of scanning pages in the Network Scanning Function
- (19) Number of transmitted pages in the FAX Function
- (20) Number of received pages in the FAX Function
- (21) PM count setting value
- (22) PM count present value
- (23) PM driving count setting value
- (24) PM driving count present value
- (25) History of error
 *2 The latest 20 errors are displayed.

8

Service Call Transmit Subject: Service Call Notification



Fig. 8-36

- (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.

8

9. DATA CLONING with USB STORAGE DEVICE (e-STUDIO202L/203L/232/233/282/283)

In this equipment, the user data, setting items and SRAM data can be backed up / restored by turning the power ON after connecting the USB storage device on which the data cloning programs have been written to the USB connector mounted on the SYS board.

The type of data to be backed up/restored can be selected on the LCD screen in this method.

This allows you to back up/restore only the necessary data individually or to back up/restore all data in a batch.

Programs needed for data cloning with this method are given in the following table.

Storage location	Program file name
Root directory	rootusb, clone_202_282

Important:

- 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 data cloning. Registered / set data are lost.
- The USB storage device 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 storage device with a flash memory (to be connected directly to the USB port) and its capacity is between 128 MB and 512 MB (or 1 GB).
 - A device compliant with the following specifications established by USB-IF (USB Implementers Forum)

Class number:	8 (=08h)
Sub-Class number:	6 (=06h)
Protocol number:	80 (=50h)

(Mass storage class) (SCSI transfer command set) (Bulk-only)

9

- * Most of the common USB storage devices 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 storage devices compliant with both USB 1.1 and USB 2.0 can be used for this data cloning. However, the operating speed when using a device compliant with USB 2.0 is equivalent to the one with a device compliant with USB 1.1.
- 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.
- If "Department management" or "User management information" is restored, the counter values are copied as well, so clear all of them. However, the total counter is not copied.
- Before starting data cloning, check that "Acceptance of data cloning using USB storage device (08-9889)" is set at "0" (Accepted). If this is set at "1" (Not accepted), data cloning is disabled. In this case, ask the administrator to enable it on the TopAccess menu.
- Delete the backed up data in the USB storage device after the data cloning.

[A] Data cloning procedure (Backup)

Important:

- The file system for the USB storage device should be in the FAT format. Note that any device formatted in FAT32 or NTFS will not be operated. Its file system can be confirmed by opening the properties of the device from Windows Explorer.
- Never turn the power of the equipment OFF during data cloning, or the data could be damaged and the operation not carried out properly.
- Back up or restore SRAM data only for the same equipment in the same ROM version. If SRAM data are restored into the other equipment, problems such as overlapping serial numbers may occur.
- (1) Connect the USB storage device to the PC and delete all data in the USB storage device.
 - The file system for the USB storage device should be in the FAT format.
 - Windows95 and NT do not support USB. The data cannot be written into the device with the PC in which these OS are installed.
- (2) Write the program file.
 - Write the data cloning program into the root directory.
- (3) Shut down the equipment.
- (4) Connect the USB storage device to the USB connector (host) on the SYS board.





Notes:

- Do not connect multiple USB storage devices together.
- The USB storage device can be connected to either of 2 USB connectors (host).
- In case the printer kit (GM-1070/1071/1080U/1081U), printer/scanner kit (GM-2070/2071/ 2080U/2081U) and scanner kit (GM-4070 or GM-4080U) are used, the data must be backed up after all the "dongles" are disconnected from the USB connector (host) and only the USB storage device is connected.

<User Data Backup>

(5) Turn the power ON while pressing the [5] and [9] button simultaneously. The screen to select the backup/restore items is displayed.

Select No.rootusb clone_xx_xxxxversion X. XX version X. XX1: User Data Back Up 2: User Data Restore 3: Setting Back Up 4: Setting Restore 5: SRAM Data Back Up 6: SRAM Data Restoreversion X. XX				
1: User Data Back Up 2: User Data Restore 3: Setting Back Up 4: Setting Restore 5: SRAM Data Back Up 6: SRAM Data Restore	Select No.	rootusb clone_xx_xxxxx_xxx	version X.XX version X.XX	
	1: User Data Back Up 2: User Data Restore 3: Setting Back Up 4: Setting Restore 5: SRAM Data Back Up 6: SRAM Data Restore			

Fig. 9-2

Note:

When "Disable" is set for the [Data Cloning Function] in TopAccess, the following screen is displayed. Contact and ask the administrator to change the setting on TopAccess.

The cloning tool cannot be started for permission. Please ask your customer administrator to set the cloning permission of the TopAccess setting.

Fig. 9-3

- (6) Select the items to be performed with the digital keys.
 - In case of backup, select one of the following items.

<Backing up User data> Select "1: User Data Back Up". <Backing up Setting item> Select "3: Setting Back Up". <Backing up SRAM data> Select "5: SRAM Data Back Up".

Note:

After the item is selected with the digital keys, displaying the next menu may take a long time.

(7) Press the [1] button.

The screen to select the user data backup item is displayed. In this screen, the items to be backed up are shown after the mark "*". (The items "4", "5" and "6" are selected in the screen by default.)

User Data Backup

1: Address Book 2: Mail Box 3: Template *4: Combined *5: Department Code *6: User Info

Fig. 9-4

- (8) Select the items to be backed up with the digital keys. The mark "*" is shown on the selected item. The mark "*" can be deleted or added each time the corresponding digital key is pressed.
 - To back up the data in a batch, select "4", "5" or "6". (Selecting "4" performs "1", "2" and "3" together.)
 - To back up the data individually, select the following items.
 <Backing up Address book>

Select "1: Address Book" only.

<Backing up Mail box>

Select "2: Mail Box" only.

< Backing up Template>

Select "3: Template" only.

<Backing up 1: Address Book, 2: Mail Box and 3: Template in a batch> Select "4: Combined" only.

<Backing up Department management>

Select "5: Department Code" only.

< Backing up User management information> Select "6: User Info" only.

In case of backing up the department management and user management information

User Data Backup

1: Address Book 2: Mail Box 3: Template 4: Combined *5: Department Code *6: User Info

Fig. 9-5

9

05/11

E.g.:

(The following screens are given as an example of when all items are backed up.)

(9) Press the [Start] button.

The backup starts and the backing up status is displayed on the LCD screen.

User Data Backup
1: Address Book 2: Mail Box 3: Template *4: CombinedCompleted *5: Department Code *6: User Info



(10) "Back Up Completed" is displayed on the LCD screen when the backup has been properly completed.

User Data Backup	Back Up Completed
1: Address Book 2: Mail Box 3: Template *4: Combined *5: Department Code *6: User Info	Completed Completed Completed

Fig. 9-7

(11) Turn the power OFF and remove the USB storage device.

<Setting Backup>

- (12) Connect the USB storage device to the USB connector (host) on the SYS board.
- (13) Turn the power ON while pressing the [5] and [9] button simultaneously. The screen to select the backup/restore items is displayed.

Select No.	rootusb clone_xx_xxxxx_xxx	version X.XX version X.XX	
1: User Data Back Up 2: User Data Restore 3: Setting Back Up 4: Setting Restore 5: SRAM Data Back Up 6: SRAM Data Restore			

Fig. 9-8

Notes:

- After the item is selected with the digital keys, displaying the next menu may take a long time.
- When "Disable" is set for the [Data Cloning Function] in TopAccess, the following screen is displayed. Contact and ask the administrator to change the setting on TopAccess.

The cloning tool cannot be started for permission. Please ask your customer administrator to set the cloning permission of the TopAccess setting.

Fig. 9-9

(14) Press the [3] button.

The screen to select the setting backup item is displayed. In this screen, the items to be backed up are shown after the mark "*". (No items are selected in the screen by default.)

Setting Back Up

AdminSetting 1: Network/Print Service 2: SaveAsFile/Email/InternetFAX 3: Notification 4: Directory Service Setting for Option 5: FAX Kit 6: WirelessLAN/Bluetooth Kit

Fig. 9-10

© 2004 - 2010 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO200L/202L/203L/230/230L/232/233/280/282/283 DATA CLONING with USB STORAGE DEVICE (e-STUDIO202L/203L/232/233/282/283) (15) Select the items to be backed up with the digital keys.

The mark "*" is shown on the selected item. The mark "*" can be deleted or added each time the corresponding digital key is pressed.

- To back up the data individually, select the following items.
 - <Backing up TopAccess: Network/Print Service>
 - Select "1: Network/Print Service" only.
 - <Backing up TopAccess: SaveAsFile/Email/InternetFAX> Select "2: SaveAsFile/Email/InternetFAX" only.
 - <Backing up TopAccess: Notification > Select "3: Notification" only.
 - <Backing up TopAccess: Directory Service>
 - Select "4: Directory Service" only.
 - <Backing up Option: Fax setting> Select "5: FAX Kit" only.
 - <Backing up Option: WirelessLAN/Bluetooth setting> Select "6: WirelessLAN/Bluetooth Kit" only.

(The following screens are given as an example of when all TopAccess items are backed up.)

(16) Press the [Start] button.

The backup starts and the backing up status is displayed on the LCD screen.

Setting Back Up AdminSetting *1: Network/Print ServiceCompleted *2: SaveAsFile/Email/InternetFAX *3: Notification *4: Directory Service Setting for Option 5: FAX Kit 6: WirelessLAN/Bluetooth Kit

Fig. 9-11

(17) "Back Up Completed" is displayed on the LCD screen when the backup has been properly completed.

Setting Back Up	Back Up Completed
AdminSetting *1: Network/Print Service *2: SaveAsFile/Email/InternetFAX *3: Notification *4: Directory Service Setting for Option 5: FAX Kit 6: WirelessLAN/Bluetooth Kit	Completed Completed Completed Completed

Fig. 9-12

(18) Turn the power OFF and remove the USB storage device.

<SRAM Data Backup>

- (19) Connect the USB storage device to the USB connector (host) on the SYS board.
- (20) Turn the power ON while pressing the [5] and [9] button simultaneously. The screen to select the backup/restore items is displayed.

Select No.	rootusb clone_xx_xxxxx_xxx	version X.XX version X.XX
 1: User Data Back Up 2: User Data Restore 3: Setting Back Up 4: Setting Restore 5: SRAM Data Back Up 6: SRAM Data Restore 		

Fig. 9-13

Notes:

- After the item is selected with the digital keys, displaying the next menu may take a long time.
- When "Disable" is set for the [Data Cloning Function] in TopAccess, the following screen is displayed. Contact and ask the administrator to change the setting on TopAccess.

The cloning tool cannot be started for permission. Please ask your customer administrator to set the cloning permission of the TopAccess setting.

Fig. 9-14

(21) Press the [5] button.

The screen to select the SRAM data backup item is displayed. In this screen, the item to be backed up is shown after the mark "*". (The item is not selected in the screen by default.)

SRAM Data Back Up

1. SRAM

Fig. 9-15

(22) Select the item to be backed up with the digital keys.

The mark "*" is shown on the selected item. The mark "*" can be deleted or added each time the corresponding digital key is pressed.

 To back up the data individually, select the following item.
 <Backing up SRAM Data> Select "1. SRAM".

Note:

The backup/restore of the SRAM data can be performed only for the same model. The ROM version must be the same when the data are backed up and restored.

(The following screens are given as an example of when SRAM data are backed up.)

(23) Press the [Start] button.

The backup starts and the backing up status is displayed on the LCD screen.

SRAM Data Back Up	
*1. SRAM	

Fig. 9-16

(24) "Back Up Completed" is displayed on the LCD screen when the backup has been properly completed.

SRAM Data Back Up	Back Up Completed
*1. SRAM	Completed

9

Fig. 9-17

(25) Turn the power OFF and remove the USB storage device.

^{07/11}

[B] Data cloning procedure (Restore)

Important:

- The file system for the USB storage device should be in the FAT format. Note that any device formatted in FAT32 or NTFS will not be operated. Its file system can be confirmed by opening the properties of the device from Windows Explorer.
- Never turn the power of the equipment OFF during data cloning, or the data could be damaged and the operation not carried out properly.
- (1) Shut down the equipment.
- (2) Connect the USB storage device to the USB connector (host) on the SYS board.



Fig. 9-18

Notes:

- Do not connect multiple USB storage devices together.
- The USB storage device can be connected to either of 2 USB connectors (host).
- In case the printer kit (GM-1070/1071/1080U/1081U), printer/scanner kit (GM-2070/2071/ 2080U/2081U) and scanner kit (GM-4070 or GM-4080U) are used, the data must be restored after all the "dongles" are disconnected from the USB connector (host) and only the USB storage device is connected.

<User Data Restore>

(3) Turn the power ON while pressing the [5] and [9] button simultaneously. The screen to select the backup/restore items is displayed.

Select No.	rootusb clone_xx_xxxxx_xxx	version X.XX version X.XX	
1: User Data Back Up 2: User Data Restore 3: Setting Back Up 4: Setting Restore 5: SRAM Data Back Up 6: SRAM Data Restore			

Fig. 9-19

Note:

When "Disable" is set for the [Data Cloning Function] in TopAccess, the following screen is displayed. Contact and ask the administrator to change the setting on TopAccess.

The cloning tool cannot be started for permission. Please ask your customer administrator to set the cloning permission of the TopAccess setting.

Fig. 9-20

- (4) Select the items to be performed with the digital keys.
 - In case of restore, select the following items. <Restoring User data> Select "2: User Data Restore". <Restoring Setting item> Select "4: Setting Restore". <Restoring SRAM data> Select "6: SRAM Data Restore".

Note:

•

After the item is selected with the digital keys, displaying the next menu may take a long time.

07/11

(5) Press the [2] button.

The screen to select the user data restore item is displayed. In this screen, the items to be restored are shown after the mark "*". (The items "4", "5" and "6" are selected in the screen by default.)

User Data Restore 1: Address Book 2: Mail Box 3: Template *4: Combined *5: Department Code *6: User Info

Fig. 9-21

- (6) Select the items to be restored with the digital keys. The mark "*" is shown on the selected item. The mark "*" can be deleted or added each time the corresponding digital key is pressed.
 - To restore the data in a batch, select "4", "5" or "6". (Selecting "4" performs "1", "2" and "3" together.)
 - To restore the data individually, select the following items. Be sure to select the same item as the one backed up individually.
 <Restoring Address book> Select "1: Address Book" only.
 <Restoring Mail box> Select "2: Mail Box" only.
 < Restoring Template> Select "3: Template" only.
 <Restoring 1: Address Book, 2: Mail Box and 3: Template in a batch> Select "4: Combined" only.
 <Restoring Department management> Select "5: Department Code" only.
 <Restoring User management information> Select "6: User Info" only.

E.g.:

In case of restoring the department management and user management information

User Data Restore

1: Address Book 2: Mail Box 3: Template 4: Combined *5: Department Code *6: User Info

Fig. 9-22

9 - 15

(The following screens are given as an example of when all items are restored.)

(7) Press the [Start] button.

The restore starts and the restoring status is displayed on the LCD screen.

User Data Restoer	
1: Address Book 2: Mail Box 3: Template *4: CombinedCompleted *5: Department Code *6: User Info	



(8) "Restore Completed" is displayed on the LCD screen when the restore has been properly completed.

User Data Restoer	Restore Completed
1: Address Book 2: Mail Box 3: Template *4: Combined *5: Department Code *6: User Info	Completed Completed Completed

Fig. 9-24

- (9) Turn the power OFF and remove the USB storage device.
- (10) Clear the counter (in case of restoring "Department Code" and "User Info"). Since the counter values are also copied, clear all of them. However, the total counter is not copied.
 - <Procedure>

Press the buttons as follows: [USER FUNCTION] \rightarrow [ADMIN] \rightarrow Enter the password \rightarrow

[COUNTER] →[DEPARTMENT SETTING] →Enter the password →[RESET ALL COUNTERS]
* Enable the department management when the [RESET ALL COUNTERS] button is set to be disabled.

<Setting Restore>

- (11) Connect the USB storage device to the USB connector (host) on the SYS board.
- (12) Turn the power ON while pressing the [5] and [9] button simultaneously. The screen to select the backup/restore items is displayed.

Select No.	rootusb clone_xx_xxxxx_xxx	version X.XX version X.XX
 1: User Data Back Up 2: User Data Restore 3: Setting Back Up 4: Setting Restore 5: SRAM Data Back Up 6: SRAM Data Restore 		

Fig. 9-25

Notes:

- After the item is selected with the digital keys, displaying the next menu may take a long time.
- When "Disable" is set for the [Data Cloning Function] in TopAccess, the following screen is displayed. Contact and ask the administrator to change the setting on TopAccess.

The cloning tool cannot be started for permission. Please ask your customer administrator to set the cloning permission of the TopAccess setting.

Fig. 9-26

(13) Press the [4] button.

The screen to select the setting restore item is displayed. In this screen, the items to be restored are shown after the mark "*". (No items are selected in the screen by default.)

Setting Restore

AdminSetting 1: Network/Print Service 2: SaveAsFile/Email/InternetFAX 3: Notification 4: Directory Service Setting for Option 5: FAX Kit

6: WirelessLAN/Bluetooth Kit

Fig. 9-27

© 2004 - 2010 TOSHIBA TEC CORPORATION All rights reserved e-STUDIO200L/202L/203L/230/230L/232/233/280/282/283 DATA CLONING with USB STORAGE DEVICE (e-STUDIO202L/203L/232/233/282/283)

07/11

(14) Select the items to be restored with the digital keys.

The mark "*" is shown on the selected item. The mark "*" can be deleted or added each time the corresponding digital key is pressed.

To restore the data individually, select the following items.
<Restoring TopAccess: Network/Print Service> Select "1: Network/Print Service" only.
<Restoring TopAccess: SaveAsFile/Email/InternetFAX> Select "2: SaveAsFile/Email/InternetFAX" only.
<Restoring TopAccess: Notification > Select "3: Notification" only.
<Restoring TopAccess: Directory Service> Select "4: Directory Service" only.
<Restoring Option: Fax setting> Select "5: FAX Kit" only.
<Restoring Option: WirelessLAN/Bluetooth setting> Select "6: WirelessLAN/Bluetooth Kit" only.

Note:

Be sure to restore the same option items in the same condition as when the option items were backed up.

(The following screens are given as an example of when all TopAccess items are restored.)

(15) Press the [Start] button.

The restore starts and the restoring status is displayed on the LCD screen.

Setting Kestore	
AdminSetting *1: Network/Print ServiceCompleted *2: SaveAsFile/Email/InternetFAX *3: Notification *4: Directory Service Setting for Option 5: FAX Kit 6: WirelessLAN/Bluetooth Kit	

Fig. 9-28

(16) "Restore Completed" is displayed on the LCD screen when the restore has been properly completed.

Setting Restore	Restore Completed
AdminSetting *1: Network/Print Service *2: SaveAsFile/Email/InternetFAX *3: Notification *4: Directory Service Setting for Option 5: FAX Kit 6: WirelessLAN/Bluetooth Kit	Completed Completed Completed Completed

Fig. 9-29

(17) Turn the power OFF and remove the USB storage device.

05/11

<SRAM Data Restore>

- (18) Connect the USB storage device to the USB connector (host) on the SYS board.
- (19) Turn the power ON while pressing the [5] and [9] button simultaneously. The screen to select the backup/restore items is displayed.

Select No.	rootusb clone_xx_xxxxx_xxx	version X.XX version X.XX	
 1: User Data Back Up 2: User Data Restore 3: Setting Back Up 4: Setting Restore 5: SRAM Data Back Up 6: SRAM Data Restore 			

Fig. 9-30

Notes:

- After the item is selected with the digital keys, displaying the next menu may take a long time.
- When "Disable" is set for the [Data Cloning Function] in TopAccess, the following screen is displayed. Contact and ask the administrator to change the setting on TopAccess.

The cloning tool cannot be started for permission. Please ask your customer administrator to set the cloning permission of the TopAccess setting.

Fig. 9-31

(20) Press the [6] button.

The screen to select the SRAM data restore item is displayed. In this screen, the item to be restored is shown after the mark "*". (The item is not selected in the screen by default.)

SRAM Data Restore

1. SRAM

Fig. 9-32

(21) Select the item to be restored with the digital keys.

The mark "*" is shown on the selected item. The mark "*" can be deleted or added each time the corresponding digital key is pressed.

To restore the data individually, select the following item.
 <Restoring SRAM Data>
 Select "1. SRAM".

Note:

The backup/restore of the SRAM data can be performed only for the same model. The ROM version must be the same when the data are backed up and restored.

(The following screens are given as an example of when SRAM data are restored.)

(22) Press the [Start] button.

The restore starts and the restoring status is displayed on the LCD screen.

SRAM Data Restore	
*1. SRAM	

Fig. 9-33

(23) "Restore Completed" is displayed on the LCD screen when the restore has been properly completed.

SRAM Data Restore	Restore Completed
*1. SRAM	Completed

Fig. 9-34

(24) Turn the power OFF and remove the USB storage device.

[C] Confirmation of the error

"Back Up ERROR X" (X: Error number) is displayed at the top of the LCD screen when the data have not been properly backed up / restored. 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 storage device meet the conditions being used for this cloning?
- Is the updated program file written on the USB storage device properly?
- Is the USB storage device installed properly?
- Is the USB storage device or the equipment damaged?

User Data Backup	Back Up ERROR X
1: Address Book 2: Mail Box 3: Template *4: Combined *5: Department Code *6: User Info	ERROR

Fig. 9-35

Error number	Error content
ERROR 1	Copy error
ERROR 2	I/F error
ERROR 3	USB memory full error
ERROR 4	Working folder error
ERROR 5	File not found error
ERROR 6	Security error
ERROR 7	Checksum error
ERROR 8	Model check error
ERROR 9	Version check error
ERROR 10	Destination check error
ERROR 11	Serial number check error

[D] Backup file

Backed up data files are encrypted.

<User data file>

The folder "user_data" is created in the root directory and the following files are stored in it.

Data item	File name
Address book	BACKUP_ADDR.sct
Mailbox	BACKUP_MBOX.sct
Template	BACKUP_TEMP.sct
Back up the Address book, Mailbox and Template in a batch	BACKUP_ALL.sct
Department management information	BACKUP_Department.sct
User management information	BACKUP_User.sct

<Setting data file>

The folder "setting_data" is created in the root directory and the following files are stored in it.

Data item	File name
Network / Print service	network.sct
SaveAsFile / Email / InternetFAX	scan.sct
Notification setting	notice.sct
Directory Service	ldap.sct
FAX setting	fax.sct
Wireless LAN setting / Bluetooth setting	wl.sct, bl.sct

<SRAM data file>

The folder "sram_data" is created in the root directory and the following file is stored in it.

Data item	File name
SRAM	sram.sct

* In addition to the backed up data, the following files are created in each folder.

Back up item	File name
User data	user_data.txt
Setting item data	setting_data.txt
SRAM data	sram_data.txt

<Contents of file>



- File format (user_data.txt, setting_data.txt, sram_data.txt: all in common) Line 1: Version
 Line 2: Serial number
 - Line 3: Date

10. WIRE HARNESS CONNECTION DIAGRAMS

10.1 AC Wire Harness



10
10.2 DC Wire Harness (e-STUDIO200L/230/230L/280/280S)

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	J518 1519 1519 1519 1521	1549 1549 1549 1519 1519 1519 1519 1519 1519 1519 1519 1519 1519 1519 1519 1519 1519 1519 1519 1519 1518 1519 1519 1519 1519 1519 1518 1519 1518	UULE 280 (AUD/MUD/IRD/CND/TVD), (CND) MODELS: STANDARD (NAD/ASD), (MJD) MODELS: STANDARD (MJD) MODELS: OPTION 280(ASD)ASU/SAD), (MJD) MODELS: OPTION	N ⁷²¹ 1 MAIN CHARGER WIRE N ⁷²² 1 MAIN CHARGER WIRE N ⁷²² 1 MAIN CHARGER WIRE N ⁷²³ 1 DEVELOPER BIAS N ⁷²⁴ 1 TRANSFER BIAS N ⁷²⁶ 1 TRANSFER BIAS 1 TRANSFER GUIDE BIAS 1 REGISTRATION BIAS 1 REGISTRATION ROLLER BIAS	36 1 1 EDG-HTR 1 1 EDG-HTR 1 1 1 1 EXTSW-1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 0 1 1 1 1 0 1 1 1 1 0 1 1 1 1	RSTSW-OA J641 RSTSW-OA J641 +24VD1 1 +54VD1 1 HMS-1A 1 HMS-1A 3 HMS-1A 3 HMS-1A 3 HMS-1A 4 FRNT- 4 FCOVSW-0 J643 FCOVSW-0 J643 FCOVSW-0 J643 FCOVSW-0 J643 PO J643 ATSUP1 1 ATSUP1 ATTNR-SNR	BRTMP-0 J647 So 1 So 1 FSTSW-OA J647 +51VB 1 +51VB J640 +51VB J640 +51VB J640 FEN-A 1 1 1 RESETSW J640 +51VB J640 FEOVSW-0 J643 FEOVSW-0 J643 1 TEMP-A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ATS-TA 4 ATSVR-TA 1 +24VD1 1 ATSVR-TA 1 ATSVR-TA 1 BRTMP-1 1647 SG 1 THMS-DRM 1 +5.1VB 1640 +5.1VB 1 ATNR-SNR ATSVR-TA 1 +5.1VB 1 ASTSW-OA 1 HMS-TA 1 ASTSW-OA 1 HMS-TA 1 ASTSW-OA 1 HMS-TA 1 AST 1 B 1 AST 1 B 1 AST 1
ω	NC J616 NC P-1 6 2 CUEMP-1 B 4 4 4 4 P-1 2 5 3 CUEMP-1 B 3 5 CUTOP-1 B 3 5 CURGC-0 01 4 3 5 5 B 3 5 5 5 B 3 5 5 5 B 4 4 4 4 A 3 <	LoA LoA P-1 B-1 P-1 P-1 P-1 P-1 P-1 P-1 P-1 P	PRAWER MOD PRAWER MOD e-STUDIO230/2 e-STUDIO230/2 e-STUDIO230/2 e-STUDIO230/2 e-STUDIO230/2 	10 KoA KoA WW-IA WW-IA WW-IA WW-IA WW-IA WW-IA WW-IA WW-IA WW-IA WW-IA WW-IA WW-IA WW-IA WW-IA OA B-0A OA COA COA COA COA COA COA COA	A 3 6 FTH-1A W 1 8 45VSW W1 2 1 1 W1 2 2 0 W1 3 0 1 1 DA 6 6 1 2 2 M1 6 6 1 1 2 2 M1 6 6 1 1 2 1 1 2 1	2-1 W-OA W-OA W-OA M	-1 -2 -2 -2 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	A R-1A R-1A H H H H H H H H H H H H H
\neg	CN307 A1 SC A2 CUEM A2 CUEM A2 CUEM A3 CUTO A4 CUTO A6 A1 CURG A5 CUTO A6 CUTO A6 CUTO A6 CUTO A6 CUTO A6 CUTO A6 CUTO A7 CUEM CUEM A7	A14 A14 A14 2NDC A15 2NDC A15 2NDC B1 A14 2NDC B2 451VC B1 A14 A15 2AVC B2 A14 A15 2AVC B2 A14 A15 2AVC A14 A14 A14 A14 A14 A14 A14 A14 A14 A14	813 COS	B15 CLSW B15 CLSW B15 CLSW CR33 A1 A1 HVSD A2 HVSD A3 HVSD A4 HVTGI A6 HVTGI A6 HVTGI A6 HVTGI A6 HVTGI A7 HVTGI A6 HVTGI A7 HVTGI A11 HVTM A11 HVTM A11 HVTM B1 B1 B2 MTH+ B3 MTH+ B4 MTH+	BB ETH B7 5505 B11 NC A10 A15C A1 <	A11 NC A12 NC B1 CPSW B1 CPSW B1 CPSW B2 RSTS B3 #24VL B5 HMS1 B1 TEMP B5 HMS1 B1 TEMP B1 TEMP B1 EG B1 NC B1 NC B1 NC B1 NC B1 NC CN303 SG CN303 CN303 A12VL A12VL A12VL A12VL	All DRTH All DRTH All DRTH All DRTH All DRTH Bl All DR Bl A A A A A A A A A A A A A A A A A A A	
7	PWA- I I CN202 BDI V.1 S PWA- I 1 0	10 11	PFP/LCF P PFP/LCF 10 23 23 24 23 223 3126-0.01 234 3126-0.01 235 3126-0.01 236 231 237 3126-0.01 238 3126-0.01 239 3126-0.01 231 3126-0.01 232 3126-0.01 231 3126-0.01 232 3126-0.01 233 3126-0.01 234 8126-0.01 113 8157-0.01 114 86 112 86 113 86 114 86 115 86 116 86 117 86 118 86 119 86 110 86 111 10 111 10 111 10 111 10 111 <th>FEED- 1 150 1 150 1 150 1 150 1 150 1 150 1 151 1 150 1 151<th>Jefo Sts22-0 Jefo SiZE-SiR Jefo Sts22-0 B SiZE-SiR Jefo 1 1 SiZE-SiR Jose 1 1 Jose Jose 1 1 1 SiZE-SiR Jose Jose 1 1 Jose Jose Jose 1 1 Jose Jose Jose Jose 1 Jose Jose Jose Jose Jose Jose<!--</th--><th>MUTOMATIC DUPLEXING UNIT ¹¹ +5.1VB ¹² - 5.0V214 ¹² - 5.0V214 ¹¹ +5.1VB ¹² - 5.0V214 ¹² - 5.0V21 ¹² - 5.0V21 ¹¹ - 5.0V21 ¹¹ - 5.0V11-1 ¹¹ /th><th>e-STUDIO230/280(NAD/AUD/IRD/CNU) MODELS: STANDARD e-STUDIO230/2805(NDD/PDFJP/ASD/ASU/SAD/TWD), e-STUDIO230(NUD) MODELS: OPTION e-STUDIO230(S0D) MODELS: OPTION f</th><th>Image: Second control of the second control of th</th></th></th>	FEED- 1 150 1 150 1 150 1 150 1 150 1 150 1 151 1 150 1 151 <th>Jefo Sts22-0 Jefo SiZE-SiR Jefo Sts22-0 B SiZE-SiR Jefo 1 1 SiZE-SiR Jose 1 1 Jose Jose 1 1 1 SiZE-SiR Jose Jose 1 1 Jose Jose Jose 1 1 Jose Jose Jose Jose 1 Jose Jose Jose Jose Jose Jose<!--</th--><th>MUTOMATIC DUPLEXING UNIT ¹¹ +5.1VB ¹² - 5.0V214 ¹² - 5.0V214 ¹¹ +5.1VB ¹² - 5.0V214 ¹² - 5.0V21 ¹² - 5.0V21 ¹¹ - 5.0V21 ¹¹ - 5.0V11-1 ¹¹ /th><th>e-STUDIO230/280(NAD/AUD/IRD/CNU) MODELS: STANDARD e-STUDIO230/2805(NDD/PDFJP/ASD/ASU/SAD/TWD), e-STUDIO230(NUD) MODELS: OPTION e-STUDIO230(S0D) MODELS: OPTION f</th><th>Image: Second control of the second control of th</th></th>	Jefo Sts22-0 Jefo SiZE-SiR Jefo Sts22-0 B SiZE-SiR Jefo 1 1 SiZE-SiR Jose 1 1 Jose Jose 1 1 1 SiZE-SiR Jose Jose 1 1 Jose Jose Jose 1 1 Jose Jose Jose Jose 1 Jose Jose Jose Jose Jose Jose </th <th>MUTOMATIC DUPLEXING UNIT ¹¹ +5.1VB ¹² - 5.0V214 ¹² - 5.0V214 ¹¹ +5.1VB ¹² - 5.0V214 ¹² - 5.0V21 ¹² - 5.0V21 ¹¹ - 5.0V21 ¹¹ - 5.0V11-1 ¹¹ /th> <th>e-STUDIO230/280(NAD/AUD/IRD/CNU) MODELS: STANDARD e-STUDIO230/2805(NDD/PDFJP/ASD/ASU/SAD/TWD), e-STUDIO230(NUD) MODELS: OPTION e-STUDIO230(S0D) MODELS: OPTION f</th> <th>Image: Second control of the second control of th</th>	MUTOMATIC DUPLEXING UNIT ¹¹ +5.1VB ¹² - 5.0V214 ¹² - 5.0V214 ¹¹ +5.1VB ¹² - 5.0V214 ¹² - 5.0V21 ¹² - 5.0V21 ¹¹ - 5.0V21 ¹¹ - 5.0V11-1 ¹¹	e-STUDIO230/280(NAD/AUD/IRD/CNU) MODELS: STANDARD e-STUDIO230/2805(NDD/PDFJP/ASD/ASU/SAD/TWD), e-STUDIO230(NUD) MODELS: OPTION e-STUDIO230(S0D) MODELS: OPTION f	Image: Second control of the second control of th
9	COPY KEY CARD CONTROLLER PG CONTROLLER BKCTR MC RUN MC RUN MC RUN MC RUN FLCTR SG CONTROLLER PG CONTROLLER PG CONTROLLER PG CONTROLLER PG CONTROLLER PG CONTROLLER PG CONTROLLER PG CONTROLLER PG CONTROLLER PG CONTROLLER PG CONTROLLER PG CONTROLLER PG CONTROLLER PG CONTROLLER PG CONTROLLER CO	CTRCNT2 CTRCNT2 CO CO CO CO CO CO CO CO CO CO	C-0A EXTMC-0A 3 MÖT D-0A EXTMD-0A 2 MÖT 2 +24V02 1 2 -214V02 1 1 1 1	50 J512 (OPTION) 80 J512 (OPTION) 70 J11 J00 SEPARATOR 70 J00 SEPARATOR J01 SEPARATOR 70 J00 SEPARATOR J01 SEPARATOR 70 J01 SEPARATOR J01 SEPARATOR 70 J01 SEPARATOR J01 SEPARATOR 71 J01 SEPARATOR J01 SEPARATOR 72 J1 SEPARATOR J01 SEPARATOR 73 J1 SEPARATOR J01 SEPARATOR 74 J1 SEPARATOR J01 SEPARATOR	T-1A T-1A T-0A T-0A T-0A T-0A T-0A T-0A T-0A T-0A T-0A T-0A T-0A T-0A T-0A T-0A T-0A T-12 T-0A T-12 T	Image: Second state of the second state of	L-1 MAMPL-OA MC NC NC NC NC NC NC NC NC NC N	CIN431 CIN431 SG1 2 PWA-F- BWA-F- ADFLUP/ASD/AUD/ SG2 2 PWA-F- MODELS: STANDARD MODELS: OPTION FII



05/11

10.3 Connector Table (e-STUDIO200L/230/230L/280/280S)

CN301 PWA-F-LGC (CN301) <-> COIN CONTROLLER (OPTION)/ CN301 PWA-F-LGC (CN301) <-> COIN CONTROLLER (OPT COPY KEY CARD (OPTION) Pin No Symbol Name A1 +24 VD2 +24 V A2 CTRON Total counter ON signal A3 CTRCNT Copy key card connection detection signal A4 M/C RUN M/C run signal A5 EXTCTR Exit sensor ON signal A6 PG Power ground A7 BKCTR Black and white mode counter ON signal and CST-CTR signal A8 MNCTR Mono-color mode counter ON signal and reverse side counter signal Active L L L B1 FLCTR Full color mode counter ON signal and reverse side counter signal B2 SG Signal ground B3 TSIZE3 Paper size signal-3 B4 TSIZE2 Paper size signal-2 B5 TSIZE1 Paper size signal-1 B6 TSIZE0 Paper size signal-0 B7 +5.1VB +5.1 V B8 CTRCNT2 Copy key card /Coin counter judgment signal CN302 PWA-F-LGC (CN302) <-> KEY COPY COUNTER (OPTION) Pin No Symbol Name Active

.1	NC	Not connected	-
2	SG	Signal ground	
3	KCTRC-0	Key copy counter/Copy key card connection detection signal	L
4	+24VD2	+24 V	-
5	KCTRO-0	Key copy counter ON signal	-
6	NC	Not connected	-
	2 3 4 5 6	2 SG 3 KCTRC-0 4 +24VD2 5 KCTRO-0 6 NC	1 Not connected 2 SG Signal ground 3 KCTRC-0 Key copy counter/Copy key card connection detection signal 4 +24VD2 +24 V 5 KCTRO-0 Key copy counter ON signal 6 NC Not connected

CN303 PWA-F-LGC (CN303) <-> LP-ERS, ATTNR-SNR, THMS-DRM, MAIN-SW (RESET), TEMP/HUMI-SNR,

Pin No	Symbol	Name	Active
A1	ATSCNT-1	PU connection detection signal	L
A2	ERSLP-0A	Exposure lamp drive signal	-
A3	+24VD1	+24 V	-
A4	PG	Power ground	-
A5	ATS-1A	Auto-toner sensor detection signal	Analog
A6	+24VD1	+24 V (Auto-toner sensor)	-
A7	ATSVR-1A	Auto-toner sensor detection signal	Analog
A8	DRTH-1	Drum thermistor detection signal	Analog
A9	SG	Signal ground	-
A10	SG	Signal ground	-
B1	RSTSW-0A	Reset signal to the main switch	Н
B2	+24VD1	+24 V	-
B3	+5.1VB	+5.1 V	-
B4	HMS-1A	Humidity sensor signal	Analog
B5	SG	Signal ground	-
B6	TEMP-1	Temperature sensor signal	Analog
B7	FCOVSW-1	Front cover opening/closing switch signal	-
B8	SG	Signal ground	-
B9	NC	Not connected	-
B10	NC	Not connected	-

CN303 PWA-F-LGC (CN303) <-> LP-ERS, ATTNR-SNR, THMS-DRM, MAIN-SW (RESET), TEMP/HUMI-SNR.

FRNT-COV-SW (e-STUDIO230/230L)

Pin No	Symbol	Name	Active
A1	ATSCNT-1	PU connection detection signal	L
A2	ERSLP-0A	Exposure lamp drive signal	-
A3	+24VD1	+24 V	-
A4	PG	Power ground	-
A5	ATS-1A	Auto-toner sensor detection signal	Analog
A6	+24VD1	+24 V (Auto-toner sensor)	-
A7	ATSVR-1A	Auto-toner sensor detection signal	Analog
A8	DRTH-1	Drum thermistor detection signal	Analog
A9	SG	Signal ground	-
A10	SG	Signal ground	-
A11	NC	Not connected	-
B1	NC	Not connected	-
B2	RSTSW-0A	Reset signal to the main switch	Н
B3	+24VD1	+24 V	-
B4	+5.1VB	+5.1 V	-
B5	HMS-1A	Humidity sensor signal	Analog
B6	SG	Signal ground	-
B7	TEMP-1	Temperature sensor signal	Analog
B8	FCOVSW-1	Front cover opening/closing switch signal	-
B9	SG	Signal ground	-
B10	NC	Not connected	-
B11	NC	Not connected	-

Pin No	FRNT-COV-S	SW (e-STUDIO280/280S)	Active
A1 A2	ATSCNT-1 ERSLP-0A	PU connection detection signal Exposure lamp drive signal	
A3 A4	+24VD1 PG	+24 V Power ground	-
A5 A6 A7	+24VD1 ATSVR-14	+24 V (Auto-toner sensor) Auto-toner sensor detection signal	Analog - Analog
A8 A9	DRTH-1 SG	Drum thermistor detection signal Signal ground	Analog -
A10 A11	SG NC	Signal ground Not connected	-
A12 B1 B2	CPSW2-0 SG	Not used Signal ground	-
B3 B4	RSTSW-0A +24VD1	Reset signal to the main switch +24 V	H -
B5 B6	+5.1VB HMS-1A	+5.1 V Humidity sensor signal	- Analog
B7 B8	SG TEMP-1	Signal ground Temperature sensor signal	Analog
B10 B11	SG NC	Signal ground Not connected	- -
B12 N304	PWA-F-LGC SID-COV-SN	Not connected (CN304) <-> PWA-F-ADU (CN211, 212), A IR, SFB-SIZE-SNR, SFB-SNR, SFB-FEED	- DU-CLT,
Pin No A1	SFB-SOL, S Symbol ADM1D-0A	B-FEED-SNR-2 Name ADU motor drive signal-D	Active -
A2 A3	ADM1B-0A ADM1C-0A	ADU motor drive signal-B ADU motor drive signal-C	
A4 A5 A6	ADUVR-1 ADTR2-1	ADU motor current control reference voltage ADU exit sensor detection signal	-
A7 A8	5.1VB SG	+5.1 V Signal ground	-
A9 A10	ADCNT-1 ADTR1-1	ADU connection detection signal ADU entrance sensor detection signal	
A11 A12 A13	+24VD2	ADU opening/closing switch detection signal +24 V ADU clutch drive signal	-
A14 A15	SG CSTCSW-1	Signal ground Side cover opening/closing sensor detection signal	L
A16 A17	+5.1VB NC	+5.1 V Not connected	
A18 A19	NC NC	Not connected Not connected	-
B1 B2	SFSZ3-0 SG	Not used Signal ground	-
B3 B4	SG SFSZ0-0	Signal ground Bypass paper size detection signal-1	-
B5 B6	SFSZ1-0 SFSZ2-0	Bypass paper size detection signal-2 Bypass paper size detection signal-3	-
B8 B8	SFBEMP-1 5.1VB	Bypass paper detection signal +5.1 V	-
B10 B11	+24VD2 SFBCL1-0	+24 V Bypass feed clutch drive signal	- - L
B12 B13	+24VD2 SFBCL2-0	+24 V Bypass pickup solenoid drive signal	-
B14 B15	SG SFBTRY-1	Signal ground	-
B16 B17 B18	SG 2NDFFD_1	Signal ground 2nd transport sensor detection signal	-
B19 B20	+5.1VB SFBCNT-1	+5.1 V Bypass unit connection detection signal	-
N305	PWA-F-LGC SW, TNR-SV REAR-FAN-I TR-M-CLT	(CN305) <-> FEED-SNR-1, RGST-SNR, T V, AUG-LOCK-SW, TNR-MOT, MAIN-MOT, MOT, MID-FAN-MOT, RGST, CLT.TR-U-CL	R-COV , T,
Pin No A1	SG SG	Name Signal ground	Active
A2 A3	1STFEED-1 +5.1VB	1st transport sensor detection signal +5.1 V	
A4 A5	SG PSTPSW-1	Signal ground Registration sensor detection signal	-
A6 A7 A8	SG SDCSW-1	Signal ground Transfer cover opening/closing detection signal	-
A9 A10	NC TNRSW-1	Not connected Toner cartridge installation detection signal	-
A11 A12	SG TNRFULL-1	Signal ground Cleaner auger lock detection signal	-
A13 A14	SG TNRMT-0A	Signal ground Toner motor drive signal	-
A15 A16 A17	NC	Not connected	-
B1 B2	RGTCL-0A +24VD1	Registration roller clutch drive signal +24 V	-
B3 B4	1STCLL-0A	Middle transport clutch drive signal +24 V	-
	124001		
B5 B6	1STCLH-0A +24VD1	+24 V	- - I · Brakin
B5 B6 B7 B8	1STCLH-0A +24VD1 MAMBK-0A MAMPL-1	Upper transport clutch drive signal +24 V Main motor brake signal Main motor PLL signal	- L: Brakin H: Norma L: Norma
B5 B6 B7 B8 B9	1STCLH-0A +24VD1 MAMBK-0A MAMPL-1 MAMCW-0A	Upper transport clutch drive signal +24 V Main motor brake signal Main motor PLL signal Main motor rotational direction signal	- L: Brakin H: Norma L: Norma L: CW, H: CCW
B5 B6 B7 B8 B9 B10 B11	1STCLH-0A +24VD1 MAMBK-0A MAMPL-1 MAMCW-0A MAMCK-1 MAMON-0A	Upper transport clutch drive signal +24 V Main motor brake signal Main motor PLL signal Main motor rotational direction signal Main motor reference clock signal Main motor QN/QEE signal	- L: Brakin H: Norma L: Norma L: CW, H: CCW - L: ON,
B5 B6 B7 B8 B9 B10 B11 B12 B13	1STCLH-0A +24VD1 MAMBK-0A MAMPL-1 MAMCW-0A MAMCK-1 MAMON-0A SG +5 1//B	Upper transport clutch drive signal +24 V Main motor brake signal Main motor PLL signal Main motor rotational direction signal Main motor reference clock signal Main motor ON/OFF signal Signal ground +51 V	- L: Brakin H: Norma L: Norma L: CW, H: CCW - L: ON, H: OFF -
B5 B6 B7 B8 B9 B10 B11 B12 B13 B14	1STCLH-0A +24VD1 MAMBK-0A MAMPL-1 MAMCW-0A MAMCK-1 MAMON-0A SG +5.1VB +24VD1 PWRFN-0A	Upper transport clutch drive signal +24 V Main motor brake signal Main motor PLL signal Main motor rotational direction signal Main motor reference clock signal Main motor ON/OFF signal Signal ground +5.1 V +24 V Internal cooling fan2 motor drive signal	L: Brakin H: Norma L: Norma L: CW, H: CCW L: ON, H: OFF - - -
B5 B6 B7 B8 B9 B10 B11 B12 B13 B14 B15 B16 B17	1STCLH-0A +24VD1 MAMBK-0A MAMPL-1 MAMCW-0A MAMCK-1 MAMON-0A SG +5.1VB +24VD1 PWRFN-0A +24VD1 CLNFN-0A	Upper transport clutch drive signal +24 V Main motor brake signal Main motor PLL signal Main motor rotational direction signal Main motor roference clock signal Main motor ON/OFF signal Signal ground +5.1 V +24 V Internal cooling fan2 motor drive signal +24 V Internal cooling fan1 motor drive signal	- L: Brakin H: Norm: L: Norm: L: CW, H: CCW, H: CCW, H: COFF - - - - -
B5 B6 B7 B8 B9 B10 B11 B12 B13 B14 B15 B16 B17 CN306 Pin No	1STCLH-0A +24VD1 MAMBK-0A MAMPL-1 MAMCW-0A MAMCK-1 MAMON-0A SG +5.1VB +24VD1 PWRFN-0A +24VD1 CLNFN-0A PWA-F-LGC SEPARATOF BRIDGE UN	Upper transport clutch drive signal +24 V Main motor brake signal Main motor PLL signal Main motor rotational direction signal Main motor reference clock signal Main motor ON/OFF signal Signal ground +5.1 V +24 V Internal cooling fan2 motor drive signal +224 V Internal cooling fan1 motor drive signal (CN306) <-> EXIT-MOT, EXIT-FAN-MOT, A (OPTION)/OFFSET TRAY (OPTION)/ IT (OPTION) Name	L: Brakin H: Norma L: Norma L: CW, H: CCW - L: ON, H: OFF - - - - - - - - - - - - - - - - - -
B5 B6 B7 B8 B9 B10 B11 B12 B13 B14 B15 B16 B17 N306 Pin No A1 A2 A2	1STCLH-0A +24VD1 MAMBK-0A MAMPL-1 MAMCW-0A MAMCK-1 MAMON-0A SG +5.1VB +24VD1 PWRFN-0A +24VD1 CLNFN-0A PWA-F-LGC SEPARATOP BRIDGE UN Symbol +24VD2 EXTMA-0A EXTMA-0A	Upper transport clutch drive signal +24 V Main motor brake signal Main motor PLL signal Main motor rotational direction signal Main motor rotational direction signal Main motor rotational direction signal Main motor ON/OFF signal Signal ground +5.1 V +5.4 V Internal cooling fan2 motor drive signal +24 V Internal cooling fan1 motor drive signal (CN306) <-> EXIT-MOT, EXIT-FAN-MOT, COPTION)/IT (OPTION)/IT (OPTION) T (OPTION) Name +24 V Exit motor drive signal-A Fxit motor drive signal-A	L: Brakin H: Norma L: Norma L: CW, H: CCW H: CCW H: CON, H: OFF - - - - - - - - - - - - - - - - - -
B5 B6 B7 B8 B9 B10 B11 B12 B13 B14 B15 B16 B17 SN306 Pin No A1 A1 A3 A4 A5	1STCLH-0A +24VD1 MAMBK-0A MAMPL-1 MAMCW-0A MAMCK-1 MAMON-0A SG +5.1VB +24VD1 PWRFN-0A +24VD1 CLNFN-0A PWA-F-LGC SEPARATOF BRIDGE UN Symbol +24VD2 EXTIMA-0A EXTIMB-0A EXTIMD-0A	Upper transport clutch drive signal +24 V Main motor brake signal Main motor PLL signal Main motor rotational direction signal Main motor reference clock signal Main motor ON/OFF signal Signal ground +5.1 V +24 V Internal cooling fan2 motor drive signal +24 V Internal cooling fan1 motor drive signal (CN306) <-> EXIT-MOT, EXIT-FAN-MOT, - (OPTION)/OFFSET TRAY (OPTION)/ IT (OPTION) Name +24 V Exit motor drive signal-A Exit motor drive signal-C Exit motor drive signal-C Exit motor drive signal-D	L: Brakin H: Norma L: Norma L: CW, H: CCW H: CCW - L: ON, H: OFF - - - - - - - - - - - - - - - - - -
B5 B6 B7 B8 B9 B10 B11 B12 B13 B14 B15 B16 B17 CN306 Pin No A1 A2 A3 A4 A5 A7 A7	13TCLH-0A +24VD1 MAMBK-0A MAMPL-1 MAMCW-0A MAMCK-1 MAMON-0A SG +5.1VB +24VD1 PWRFN-0A +24VD1 CLNFN-0A +24VD1 CLNFN-0A PWA-F-LGC SEPARATOP BRIDGE UM Symbol +24VD2 EXTMB-0A EXTMD-0A EXTMD-0A EXTMD-0A EXTMD-0A EXTMD-0A	Upper transport clutch drive signal +24 V Main motor brake signal Main motor PLL signal Main motor rotational direction signal Main motor rotational direction signal Main motor rotational direction signal Main motor ON/OFF signal Signal ground +5.1 V +5.1 V +24 V Internal cooling fan2 motor drive signal (CN306) <-> EXIT-MOT, EXIT-FAN-MOT, COPTION)/IT (OPTION) IT (OPTION) Name +24 V Exit motor drive signal-A Exit motor drive signal-B Exit motor drive signal-C Exit motor drive signal-D +24 V	L: Brakin H: Norma L: Norma L: CW, H: CCW, H: CON, H: OFF - - - - - - - - - - - - - - - - - -
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B5 B6 B7 B8 B9 B10 B11 B12 B13 B14 B15 B16 B17 N306 Pin No A1 A2 A3 A4 A5 A6 A7 A8 A9 A11 A2 A3 A4 B1 B2 B3 B4 B5 B6 B7 B10 B11 B12 B3 B4 B5 B6 B7 B10 B11 B12 B13 B14 B15 B16 B17 B18	13TCLH-0A 13TCLH-0A +24VD1 MAMBK-0A MAMPL-1 MAMCK-1 MAMCK-1 MAMCK-1 MAMCK-1 MAMCK-1 MAMON-0A SG +5.1VB +24VD1 PWRFN-0A +24VD1 CLNFN-0A *24VD2 EXTMA-0A EXTMB-0A *24VD2 EXTMA-0A EXTMO-0A *24VD2 EXTMO-0A *24VD2 EXTMO-0A *24VD2 EXTMO-0A *24VD2 EXTMO-0A *24VD2 VCMFN-0 NC NC <tr< td=""><td>Upper transport clutch drive signal +24 V Main motor brake signal Main motor reference clock signal Main motor oN/OFF signal Signal ground +5.1 V +24 V Internal cooling fan2 motor drive signal +24 V Internal cooling fan1 motor drive signal +24 V Internal cooling fan1 motor drive signal +24 V Internal cooling fan1 motor drive signal (CN306) <-> EXIT-MOT, EXIT-FAN-MOT, C ROPTION/IOFFSET TRAY (OPTION)/ IT (OPTION) ************************************</td><td>L: Brakin H: Norma L: CW, H: CCW H: C</td></tr<>	Upper transport clutch drive signal +24 V Main motor brake signal Main motor reference clock signal Main motor oN/OFF signal Signal ground +5.1 V +24 V Internal cooling fan2 motor drive signal +24 V Internal cooling fan1 motor drive signal +24 V Internal cooling fan1 motor drive signal +24 V Internal cooling fan1 motor drive signal (CN306) <-> EXIT-MOT, EXIT-FAN-MOT, C ROPTION/IOFFSET TRAY (OPTION)/ IT (OPTION) ************************************	L: Brakin H: Norma L: CW, H: CCW H: C
B5 B6 B7 B8 B9 B10 B11 B12 B13 B16 B17 N306 Pin No A1 A2 A3 A4 A5 A6 A7 A8 A10 A11 A2 A3 A4 A5 A6 A7 A8 B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B112 B13 B14 B15 B16 B77 B8 B9 B10 B112 B13 B14	13TCLH-0A 13TCLH-0A +24VD1 MAMBK-0A MAMPL-1 MAMCK-1 MAMCK-1 MAMCK-1 MAMCK-1 MAMON-0A SG +5.1VB +24VD1 PWRFN-0A +24VD1 CLNFN-0A +24VD1 CLNFN-0A *24VD1 EXTMD-0A +24VD2 EXTMD-0A *24VD2 EXTMC-0A EXTMC-0A *24VD2 EXTMC-0A *24VD2 VCMFN-0 NC	Upper transport clutch drive signal +24 V Main motor brake signal Main motor reference clock signal Main motor ON/OFF signal Signal ground +5.1 V +24 V Internal cooling fan2 motor drive signal +24 V Internal cooling fan1 motor drive signal +24 V Internal cooling fan1 motor drive signal +24 V Internal cooling fan1 motor drive signal +24 V (CN306) <-> EXIT-MOT, EXIT-FAN-MOT, C ROPTION/OFFSET TRAY (OPTION)/ IT (OPTION) Name +24 V Exit motor drive signal-C Exit motor drive signal-D +24 V Exit motor drive signal Not connected Not connec	L: Brakin H: Norma L: CVM H: CCM H: CCM C C C C C C C C C C C C C C C C C C

	Symbol	Name	Active
A1	HVCLK-0A	Developer AC bias high-voltage clock signal	-
A2	HVSDWN-1A	High-voltage power supply leakage detection signal	L
A3	HVSAV-1A	Separation bias voltage output reference voltage	Analog
A4 A5	HVTGB-0A	Transfer quide bias voltage ON/OFF signal	-
A6	HVTVR-1A	Transfer bias high-voltage output reference voltage	Analog
A7	HVTT-0A	Transfer bias high-voltage ON/OFF signal	-
A8	HVAVR-1A	Developer AC bias high-voltage output reference	Analog
		voltage	7 androg
A9	HVIAC-0A	Developer AC bias high-voltage ON/OFF signal Developer DC bias high-voltage output reference	-
A10	HVDVR-1A	voltage	Analog
A11	HVMVR-1A	Main charger grid output reference voltage	Analog
A12		Main needle electrode charger voltage ON/OFF	
AIZ	TTV TIVI-OA	signal	-
A13	SG	Signal ground	-
A14 B1	+24VD2 FUSSW-1A	+24 V Euser roller thermistor connection detection signal	-
B2	MTH+-1A	Fuser roller center thermistor + signal	Analog
B3	MTH1A	Fuser roller center thermistor - signal	Analog
B4	STH+-1A	Fuser roller side thermistor + signal	Analog
B5	STH1A	Fuser roller side thermistor - signal	Analog
B0 B7	ETH1A	Fuser roller edge thermistor + signal	Analog
B8	+5.1VSW	+5.1 V	-
B9	SG	Signal ground	-
B10	EXTSW-1	Exit sensor detection signal	-
B11	+5.1VB	+5.1 V	-
B12	NC	Not connected	-
B13	NC NC	Not connected	-
5.1			
N310 F	WA-F-LGC	(CN310) <-> PFP (OPTION)/LCF (OPTIO	N)
Pin No	Symbol	Name	Active
A1	CLKC-1A	PFP/LCF driver control latch signal (C)	-
A2	CLKB-1A	PFP/LCF driver control latch signal (B)	-
A3	SCSWC-0A	PEP/LCF sensor detection port enable signal (C)	-
A4 45	DRV7-1A	PEP/LCF driver control signal	-
A6	DRV5-1A	PFP/LCF driver control signal	
A7	DRV4-1A	PFP/LCF driver control signal	-
A8	DRV3-1A	PFP/LCF driver control signal	-
A9	DRV2-1A	PFP/LCF driver control signal	-
A10	DRV1-1A	PFP/LCF driver control signal	-
A11 A12	DRV0-IA	PFP/LCF driver control signal	-
A13	+5.1VB	+5.1 V	-
A14	SG	Signal ground	-
A15	+24VD1	+24 V	-
A16	+24VD1	+24 V	-
B1 B2	PG	Power ground Power ground	-
B3	SIZE0-0A	Size data bus-0	
B4	SIZE1-0A	Size data bus-1	-
B5	SIZE2-0A	Size data bus-2	-
B6	SIZE3-0A	Size data bus-3	-
B7	REIS0-0A	PFP/LCF sensor detection signal	-
B0 B9	RETS1-0A	PEP/LCF sensor detection signal	
B10	RETS3-0A	PFP/LCF sensor detection signal	-
5.44	RETS/-0A	PFP/LCF sensor detection signal	
B11			-
B11 B12	RETS5-0A	PFP/LCF sensor detection signal	-
B11 B12 B13	RETS5-0A RETS6-0A	PFP/LCF sensor detection signal PFP/LCF sensor detection signal	-
B11 B12 B13 B14 B15	RETS5-0A RETS6-0A RETS7-0A	PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection signal DFD/LCF sensor detection signal /P)	-
B11 B12 B13 B14 B15 B16	RETS5-0A RETS6-0A RETS7-0A SCSWB-0A LCCNT-0	PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection port enable signal (B) ICF connection detection signal	- - - - -
B11 B12 B13 B14 B15 B16	RETS5-0A RETS5-0A RETS7-0A SCSWB-0A LCCNT-0	PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection port enable signal (B) LCF connection detection signal	- - - - L
B11 B12 B13 B14 B15 B16 N312 I	RETS5-0A RETS6-0A RETS7-0A SCSWB-0A LCCNT-0 PWA-F-LGC	PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection port enable signal (B) LCF connection detection signal (CN312) <-> M/DC-POL	- - - - L
B11 B12 B13 B14 B15 B16 CN312 F Pin No	RETS5-0A RETS6-0A RETS7-0A SCSWB-0A LCCNT-0 PWA-F-LGC Symbol	PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection port enable signal (B) LCF connection detection signal (CN312) <-> M/DC-POL Name	- - - L Active
B11 B12 B13 B14 B15 B16 CN312 F Pin No 1	RETS5-0A RETS6-0A RETS7-0A SCSWB-0A LCCNT-0 PWA-F-LGC Symbol POMCK-0	PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection port enable signal (B) LCF connection detection signal (CN312) <-> M/DC-POL Name Polygonal motor reference clock signal	- - - L Active
B11 B12 B13 B14 B15 B16 CN312 F Pin No 1 2	RETS5-0A RETS6-0A RETS7-0A SCSWB-0A LCCNT-0 POMCF-LGC POMCK-0 POMOL-0	PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection port enable signal (B) LCF connection detection signal (CN312) <-> M/DC-POL Name Polygonal motor reference clock signal Polygonal motor PLL signal	Active
B11 B12 B13 B14 B15 B16 CN312 F Pin No 1 2 3	RETS5-0A RETS6-0A RETS6-0A RETS7-0A SCSWB-0A LCCNT-0 PWA-F-LGC Symbol POMCK-0 POMCK-0 POMOL-0 POMON-0	PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection port enable signal (B) LCF connection detection signal (CN312) <-> M/DC-POL Name Polygonal motor reference clock signal Polygonal motor PLL signal Polygonal motor ON/OFF signal	Active
B11 B12 B13 B14 B15 B16 CN312 F Pin No 1 2 3 4	RETS5-0A RETS6-0A RETS6-0A RETS6-0A RETS7-0A SCSWB-0A LCCNT-0 PWA-F-LGC POMCK-0 POMCK-0 POMOL-0 POMON-0 PG	PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection port enable signal (B) LCF connection detection port enable signal (B) LCF connection detection signal (CN312) <-> M/DC-POL Name Polygonal motor reference clock signal Polygonal motor ON/OFF signal Power ground	Active - L L: Norma L: ON H: OF
B11 B12 B13 B14 B15 B16 CN312 I Pin No 1 2 3 4 5	RETS5-0A RETS6-0A RETS6-0A RETS7-0A SCSWB-0A LCCNT-0 PWA-F-LGC Symbol POMCK-0 POMOL-0 POMOL-0 POMON-0 PG +24VD1	PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection port enable signal (B) LCF connection detection signal (CN312) <-> M/DC-POL Name Polygonal motor reference clock signal Polygonal motor PLL signal Polygonal motor ON/OFF signal Power ground +24 V	
B11 B12 B13 B14 B15 B16 CN312 I Pin No 1 2 3 4 5	RETS5-0A RETS5-0A RETS7-0A SCSWB-0A LCCNT-0 PWA-F-LGC Symbol POMCK-0 POMOL-0 POMOL-0 POMON-0 PG +24VD1	PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection port enable signal (B) LCF connection detection signal (CN312) <-> M/DC-POL Name Polygonal motor reference clock signal Polygonal motor ON/OFF signal Power ground +24 V	Active - L: Norma L: ON H: OFF
B11 B12 B13 B14 B15 B16 CN312 I Pin No 1 2 3 4 5 CN313 I	RETS5-0A RETS6-0A RETS6-0A RETS7-0A SCSWB-0A LCCNT-0 POMA-F-LGC POMOL-0 POMOL-0 POMOL-0 POMON-0 PG +24VD1 PWA-F-LGC	PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection port enable signal (B) LCF connection detection signal (CN312) <-> M/DC-POL Name Polygonal motor reference clock signal Polygonal motor ON/OFF signal Power ground +24 V (CN313) <-> PWA-F-LRL (CN204)	Active - L: Norma L: ON H: OFF -
B11 B12 B13 B14 B15 B16 CN312 I Pin No 1 2 3 4 5 CN313 I Pin No	RETS5-0A RETS6-0A RETS6-0A RETS7-0A SCSWB-0A LCCNT-0 POMA-F-LGC POMOL-0 POMOL-0 POMON-0 PG +24VD1 POMON-0 PG +24VD1	PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection port enable signal (B) LCF connection detection signal (CN312) <-> M/DC-POL Name Polygonal motor reference clock signal Polygonal motor ON/OFF signal Power ground +24 V (CN313) <-> PWA-F-LRL (CN204) Name	Active
B11 B12 B13 B14 B15 B16 CN312 F Pin No 1 2 3 4 5 CN313 F Pin No 1 2 CN313 F Pin No 1 2	RETS5-0A RETS6-0A RETS6-0A RETS7-0A SCSWB-0A LCCNT-0 POMA-F-LGC POMOL-0 POMOL-0 POMOL-0 POMON-0 PG +24VD1 PG +24VD1 PG +24VD1	PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection port enable signal (B) LCF connection detection port enable signal (B) LCF connection detection signal (CN312) <-> M/DC-POL Name Polygonal motor reference clock signal Polygonal motor ON/OFF signal Polygonal motor ON/OFF signal Power ground +24 V (CN313) <-> PWA-F-LRL (CN204) Name Signal ground	Active
B12 B13 B14 B15 B16 B16 CN312 F Pin No 1 2 3 4 5 CN313 F Pin No 1 2 2 3 4 5	Number Number RETSS-0A RETSS-0A RETSS-0A RETS7-0A SCSWB-0A LCCNT-0 PWA-F-LGC Symbol POMOL-0 POMON-0 PG +24VD1 PWA-F-LGC Sgmbol SG +55VD	PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection port enable signal (B) LCF connection detection signal (CN312) <-> M/DC-POL Name Polygonal motor reference clock signal Polygonal motor PLL signal Polygonal motor ON/OFF signal Power ground +24 V (CN313) <-> PWA-F-LRL (CN204) Name Signal ground +5.1 V	Active Active L: Norma L: ON H: OFF - - -
B11 B12 B13 B14 B15 B16 B16 B16 CN312 F Pin No 1 2 3 4 5 CN313 F Pin No 1 2 3 4 5	Science RETS5-0A RETS5-0A RETS7-0A SCSWB-0A LCCNT-0 PWA-F-LGC Symbol POMCK-0 POMOL-0 PG +24VD1 SG SG +5VD SG	PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection port enable signal (B) LCF connection detection signal (CN312) <-> M/DC-POL Name Polygonal motor reference clock signal Polygonal motor PLL signal Polygonal motor ON/OFF signal Power ground +24 V (CN313) <-> PWA-F-LRL (CN204) Name Signal ground +5.1 V +5.1 V Signal ground	Active L: Norma L: Norma L: OFF Active C. Active
B11 B12 B13 B14 B15 B16 CN312 F Pin No 1 2 3 4 5 CN313 F Pin No 1 2 3 4 5 CN313 F Pin No 1 2 3 4 5 CN313 F Pin No	RETS5-0A RETS5-0A RETS6-0A RETS6-0A RETS7-0A SCSWB-0A LCCNT-0 POMA-F-LGC Symbol POMCK-0 POMOL-0 PG +24VD1 SG SG WRLVL-1	PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection port enable signal (B) LCF connection detection signal (CN312) <-> M/DC-POL Name Polygonal motor reference clock signal Polygonal motor PLL signal Polygonal motor ON/OFF signal Power ground +24 V (CN313) <-> PWA-F-LRL (CN204) Name Signal ground +5.1 V +5.1 V Signal ground Laser power control signal (reference voltage)	Active Control
B12 B13 B14 B15 B15 B16 CN312 F Pin No 1 2 3 4 5 CN313 F Pin No 1 2 3 4 5 5 6 -	RETS5-0A RETS6-0A RETS6-0A RETS7-0A SCSWB-0A LCCNT-0 POMA-F-LGC Symbol POMCK-0 POMOL-0 POMON-0 PG +24VD1 PG +24VD1 PG SG +5VD SG WRLVL-1 SG 	PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection port enable signal (B) LCF connection detection port enable signal (B) LCF connection detection signal (CN312) <-> M/DC-POL Name Polygonal motor reference clock signal Polygonal motor ON/OFF signal Power ground +24 V (CN313) <-> PWA-F-LRL (CN204) Name Signal ground +5.1 V +5.1 V +5.1 V Signal ground Laser power control signal (reference voltage) Signal ground	Active Control
B11 B12 B13 B14 B15 B16 B16 CN312 F Pin No 1 2 3 4 5 CN313 F Pin No 1 2 3 4 5 CN313 F Pin No 1 2 3 4 5 CN313 F Pin No 1 2 7 CN313 F Pin No 1 7 CN312 F Pin No 1 7 CN312 F Pin No 1 7 CN312 F Pin No 1 7 CN312 F Pin No 1 7 CN312 F Pin No 1 7 CN312 F Pin No 1 7 CN312 F Pin No 1 7 CN312 F Pin No 1 7 CN312 F Pin No 1 7 CN312 F Pin No 1 7 CN312 F Pin No 1 7 CN312 F Pin No 1 7 CN312 F Pin No 1 7 CN312 F Pin No 1 7 CN312 F Pin No 1 7 CN312 F Pin No 1 7 CN312 F Pin No 1 7 CN312 F CN312 F Pin No 1 7 CN312 F CN312 F C	RETS5-0A RETS6-0A RETS6-0A RETS7-0A SCSWB-0A LCCNT-0 PWA-F-LGC POMOL-0 POMOL-0 POMOL-0 POMON-0 PG +24VD1 PG +24VD1 PG +5VD SG SG SG WRLVL-1 SG BDIN-1 PD PD PD PD PD PD PD PD PD PD	PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection port enable signal (B) LCF connection detection port enable signal (B) LCF connection detection signal (CN312) <-> M/DC-POL Name Polygonal motor reference clock signal Polygonal motor ON/OFF signal Power ground +24 V (CN313) <-> PWA-F-LRL (CN204) Name Signal ground +5.1 V +5.1 V Signal ground Laser power control signal (reference voltage) Signal (H-sync)	
B11 B12 B13 B14 B15 B16 B16 CN312 F Pin No 1 2 3 4 5 CN313 F Pin No 1 2 3 4 5 5 CN313 F Pin No 1 2 3 4 5 5 CN313 F 7 8 8 7 8 8 7 8 7 8 8 7 8 7 8 7 8 7 8	RETS5-0A RETS5-0A RETS7-0A SCSWB-0A LCCNT-0 PWA-F-LGC POMCK-0 POMOL-0 POMOL-0 POMOL-0 POMON-0 PG +224VD1 PWA-F-LGC SG +5VD +5VD SG WRLVL-1 SG BDIN-1 SG BDIN-1 SG BDIN-1	PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection port enable signal (B) LCF connection detection port enable signal (B) LCF connection detection signal (CN312) <-> M/DC-POL Name Polygonal motor reference clock signal Polygonal motor PLL signal Polygonal motor ON/OFF signal Power ground +24 V (CN313) <-> PWA-F-LRL (CN204) Name Signal ground +5.1 V +5.1 V Signal ground Laser power control signal (reference voltage) Signal ground Laser beam position detection signal (H-sync) Signal ground	Active
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B11 B12 B13 B14 B15 B16 CN312 F Pin No 1 2 3 4 5 CN313 F Pin No 1 2 3 4 5 CN313 F Pin No 1 2 3 4 5 5 CN313 F Pin No 1 2 3 4 5 5 CN312 F Pin No 1 2 3 4 5 5 CN312 F Pin No 1 2 3 4 5 5 CN312 F Pin No 1 1 2 CN312 F Pin No 1 2 CN312 F Pin No 1 1 2 CN312 F Pin No 1 1 1 2 CN312 F Pin No 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RETS5-0A RETS6-0A RETS6-0A RETS7-0A SCSWB-0A LCCNT-0 POMCK-0 POMOL-0 POMOL-0 POMOL-0 POMON-0 PG +24VD1 POMON-0 PG +24VD1 POMON-0 PG +5VD SG BDIN-1 SG PIDT-1 PIDT-0 SG	PFP/LCF sensor detection signal PFP/LCF sensor detection signal PFP/LCF sensor detection port enable signal (B) LCF connection detection signal (CN312) <-> M/DC-POL Name Polygonal motor reference clock signal Polygonal motor PLL signal Polygonal motor ON/OFF signal Power ground +24 V (CN313) <-> PWA-F-LRL (CN204) Name Signal ground +5.1 V +5.1 V Signal ground Laser power control signal (reference voltage) Signal ground Laser power control signal (reference voltage) Signal ground Laser pixen position detection signal (H-sync) Signal ground Laser image data (differential signal -) Signal ground	
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 A[14]

112	PWA-F-SYS	(CN112) <-> HDD (CN170) (STANDA	ARD)	CN121	PWA-F-SYS	(CN121) <-> PWA-F-NI
n No	Symbol	Name	Active	Pin No	Symbol	Name
1	/RESET	Reset signal	-	1	+3.3VA	+3.3 V
2	SG	Signal ground	-	2	+3.3VA	+3.3 V
3	DD7	Data bus [7]	-	3	+3.3VA	+3.3 V
4	DD8	Data bus [8]	-	4	NC (/CS2P)	Not connected
5	DD6	Data bus [6]	-	5	D15	I/F data bus [15]
6	DD9	Data bus [9]	-	6	D14	I/F data bus [14]
7	DD5	Data bus [5]	-	7	D13	I/F data bus [13]
8	DD10	Data bus [10]	-	8	SG	Signal ground
9	DD4	Data bus [4]	-	9	D12	I/F data bus [12]
10	DD11	Data bus [11]	-	10	D11	I/F data bus [11]
11	DD3	Data bus [3]	-	11	D10	I/F data bus [10]
12	DD12	Data bus [12]	-	12	SG	Signal ground
13	DD2	Data bus [2]	-	13	D09	I/F data bus [9]
14	DD13	Data bus [13]	-	14	D08	I/F data bus [8]
15	DD1	Data bus [1]	-	15	/INTPR1	Interrupt PR1 signal
16	DD14	Data bus [14]	-	16	SG	Signal ground
17	DD0	Data bus [0]		17	A03	I/F address bus [3]
18	DD15	Data bus [15]		18	A02	I/F address bus [2]
19	SG	Signal ground		19	A01	I/F address bus [1]
20	NC(KEY)	Not connected		20	NC (SRXD)	Not connected
21	MDARQ	DMA request signal	н	21	A00	I/F address bus [0]
22	SG	Signal ground	-	22	D07	I/F data bus [7]
23	/DIOW	I/O write signal	-	23	D06	I/F data bus [6]
24	SG	Signal ground		24	A15	I/F address bus [15]
25	/DIOR	I/O read signal		25	D05	I/F data bus [5]
26	SG	Signal ground		26	A14	I/F address bus [14]
27	IORDY	I/O ready signal		27	D04	I/F data bus [4]
28	SG	Signal ground		28	A13	I/F address bus [13]
29	/DMACK	DMA acknowledge signal		29	D03	I/F data bus [3]
30	SG	Signal ground		30	A12	I/F address bus [12]
31	INTRO	Interrunt request signal	н	31	D02	I/E data bus [2]
01	NC/RESERV	interrupt requeet signal		32	Δ11	I/F address bus [11]
32		Reserve signal		32	D01	I/F data bus [1]
00	ED)	Device address [4]		34	A10	I/F address bus [10]
33	DAT	Device address [1]	-	34	D00	I/I address bus [10]
34	/PDIAG	Passed diagnostics	L	30	000	I/F data bus [0]
35	DA0	Device address [0]	-	30	A09	I/F address bus [9]
36	DA2	Device address [2]	-	37	A04	I/F address bus [4]
37	/CS0	Chip select-0	L	38	AU8	I/F address bus [8]
38	/CS1	Chip select-1	L	39	/RESEI	System reset signal
39	/DASP	Device active or slave present signal	L	40	A07	I/F address bus [7]
40	SG	Signal ground	-	41	/ACK	Acknowledge signal
				42	A06	I/F address bus [6]
J113 I	PWA-F-SYS	(CN113) <-> HDD (CN171)		43	/CSP1	Chip select signal
in No	Symbol	Nome	Activo	44	A05	I/F address bus [5]
1		inallie	Active	45	NC (OEO)	Not connected
	+12V	FIZ V		46	NC (STXD)	Not connected
2	30	Signal ground	- · -	47	RW	Read/write to NIC
3	15 11/4		- · -	48	SG	Signal ground
4	±0.1VA	T0.1 V	-	49	A16	I/F address bus [16]
				50	SG	Signal ground
N116 I	PWA-F-SYS	(CN116) <->DIMM (0)		51	+3.3VA	+3.3 V
in No	Symbol	Name	Active	52	SG	Signal ground
1	SG	Signal ground		53	NC (DACK)	Not connected
2	DQ0	Memory data bus [0]	<u> </u>	54	+3.3VA	+3.3 V
3	DQ1	Memory data bus [1]	<u> </u>	55	/INTPR2	PR2 interrupt signal
4	DQ2	Memory data bus [2]	<u> </u>	56	SG	Signal ground
5	DQ3	Memory data bus [3]		57	BRDNIN	NIC board connection detection
ě	+3.3VA	+3.3 V	<u> </u>	58	+3.3VA	+3.3 V
	D04	Memory data bus [4]		59	+3.3VA	+3.3 V
7		Memory data bus [5]		60	+3.3VA	+3.3 V
7	DO5			-		•
7 8	DQ5	Memory data bus [6]				
7 8 9	DQ5 DQ6 DQ7	Memory data bus [6]		CN1404		(CN12) / 2 5 DCI / CN12
7 8 9 10	DQ5 DQ6 DQ7	Memory data bus [6] Memory data bus [7]		CN124	PWA-F-SYS	(CN124) <-> PCI (CN15
7 8 9 10 11	DQ5 DQ6 DQ7 DQ8	Memory data bus [6] Memory data bus [7] Memory data bus [8]		CN124	PWA-F-SYS SCRAMBLE	(CN124) <-> PCI (CN15 R BOARD (OPTION)
7 8 9 10 11 12	DQ5 DQ6 DQ7 DQ8 SG	Memory data bus [6] Memory data bus [7] Memory data bus [8] Signal ground		CN124	PWA-F-SYS SCRAMBLE Symbol	(CN124) <-> PCI (CN15 R BOARD (OPTION)
7 8 9 10 11 12 13	DQ5 DQ6 DQ7 DQ8 SG DQ9 DQ9	Memory data bus [6] Memory data bus [7] Memory data bus [8] Signal ground Memory data bus [9]		CN124	PWA-F-SYS SCRAMBLE Symbol	(CN124) <-> PCI (CN15 R BOARD (OPTION) Name
7 8 9 10 11 12 13 14	DQ5 DQ6 DQ7 DQ8 SG DQ9 DQ10	Memory data bus [6] Memory data bus [7] Memory data bus [8] Signal ground Memory data bus [9] Memory data bus [10]		CN124 Pin No	PWA-F-SYS SCRAMBLE Symbol +3.3VA +3.3VA	(CN124) <-> PCI (CN15 R BOARD (OPTION) Name +3.3 V
7 8 9 10 11 12 13 14 15	DQ5 DQ6 DQ7 DQ8 SG DQ9 DQ10 DQ11	Memory data bus [6] Memory data bus [7] Memory data bus [8] Signal ground Memory data bus [9] Memory data bus [10] Memory data bus [11]	- - - - - - - - - - - - -	CN124 Pin No 2 3	PWA-F-SYS SCRAMBLE Symbol +3.3VA +3.3VA +3.3VA	(CN124) <-> PCI (CN15 R BOARD (OPTION) +3.3 V +3.3 V +3.3 V
7 8 9 10 11 12 13 14 15 16	DQ5 DQ6 DQ7 DQ8 SG DQ9 DQ10 DQ11 DQ11 DQ12	Memory data bus [6] Memory data bus [7] Memory data bus [8] Signal ground Memory data bus [9] Memory data bus [10] Memory data bus [12]		Pin No 1 2 3	PWA-F-SYS SCRAMBLE Symbol +3.3VA +3.3VA +3.3VA SG	(CN124) <-> PCI (CN15 R BOARD (OPTION) +3.3 V +3.3 V +3.3 V Signal ground
7 8 9 10 11 12 13 14 15 16 17	DQ5 DQ6 DQ7 DQ8 SG DQ9 DQ10 DQ11 DQ11 DQ12 DQ13	Memory data bus [6] Memory data bus [7] Memory data bus [8] Signal ground Memory data bus [9] Memory data bus [10] Memory data bus [11] Memory data bus [12]		Pin No 1 2 3 4	PWA-F-SYS SCRAMBLE Symbol +3.3VA +3.3VA +3.3VA +3.3VA SG 12VA	(CN124) <-> PCI (CN15 R BOARD (OPTION) +3.3 V +3.3 V +3.3 V Signal ground 42 V

19 DQ14 20 DQ15 21 NO 22 NO

25 NC 26 +3.3VA 27 /WE 28 DQMB0 29 DQMB1 30 /CS0 31 NC 22 SC

 34
 A2

 35
 A4

 36
 A6

 37
 A8

 38
 A10

 39
 BA1

 40
 +3.3VA

 41
 +3.3VA

 42
 CLK0

 43
 SG

 44
 NC

 45
 ICS2

23 SG 24 NC

32 SG 33 A0 34 A2

Signal ground	-	30	A12	I/F address bus [12]	-
Interrupt request signal Reserve signal Device address [1]	н -	31 32 33 34	D02 A11 D01 A10	I/F data bus [2] I/F address bus [11] I/F data bus [1] I/F address bus [10]	
Passed diagnostics Device address [0] Device address [0] Device address [2]	- L -	35 36 37	D00 A09 A04	I/F data bus [0] I/F data bus [0] I/F address bus [9] I/F address bus [4]	-
Chip select-0 Chip select-1 Device active or slave present signal		38 39 40 41	A08 /RESET A07 /ACK	I/F address bus [8] System reset signal I/F address bus [7] Acknowledge signal	
(CN113) <-> HDD (CN171)	Active	42 43 44	A06 /CSP1 A05	I/F address bus [6] Chip select signal I/F address bus [5]	-
H12 V Signal ground Signal ground	- - -	45 46 47 48	NC (OEO) NC (STXD) RW SG	Not connected Not connected Read/write to NIC	
+5.1 V (CN116) <->DIMM (0)	-	40 49 50 51	A16 SG +3.3VA	UF address bus [16] Signal ground +3.3 V	-
Name Signal ground Memory data bus [0]	Active - -	52 53 54	SG NC (DACK) +3.3VA	Signal ground Not connected +3.3 V	-
Memory data bus [1] Memory data bus [2] Memory data bus [3]		55 56 57 58	SG BRDNIN +3.3VA	PR2 interrupt signal Signal ground NIC board connection detection signal +3.3 V	
+3.3 V Memory data bus [4] Memory data bus [5] Memory data bus [6]	-	59 60	+3.3VA +3.3VA	+3.3 V +3.3 V	-
Memory data bus [7] Memory data bus [8] Signal ground		CN124 I	PWA-F-SYS (SCRAMBLEF	(CN124) <-> PCI (CN150)/ R BOARD (OPTION)	A - 41-2-
Memory data bus [9] Memory data bus [10] Memory data bus [11]	- - -	Pin No 1 2 3	Symbol +3.3VA +3.3VA +3.3VA	Name +3.3 V +3.3 V	Active - -
Memory data bus [12] Memory data bus [13] +3.3 V		3 4 5 6	+3.3VA SG -12VA -12VA	+3.3 V Signal ground -12 V -12 V	
Memory data bus [14] Memory data bus [15] Not connected	-	7 8 9	+5.1VA +5.1VA +3.3VA	+5.1 V +5.1 V +3.3 V	
Signal ground Not connected Not connected		10 11 12	OPBINT(2) OPBINT(0) SG	Interrupt request-2 Interrupt request-0 Signal ground	
+3.3 V Data write enable signal Output disable/write mask-0	- - -	13 14 15	PCICLK(5) SG PCICLK(3)	PCI clock-5 (Not used) Signal ground PCI clock-3	
Output disable/write mask-1 Chip select signal-0 Not connected Signal ground		17 17 18 19	REQ(1)# REQ(0)# +3.3VA	Data request signal-1 Data request signal-0 +3.3 V	
Memory address bus [0] Memory address bus [1] Memory address bus [2]	-	20 21 22	AD[31] AD[29] SG	PCI address/data bus [31] PCI address/data bus [29] Signal ground	-
Memory address bus [3] Memory address bus [4] Memory address bus [10]	- - -	23 24 25 26	AD[27] AD[25] +3.3VA	PCI address/data bus [27] PCI address/data bus [25] +3.3 V	
Bank select-1 +3.3 V +3.3 V Clock 0 input		20 27 28 29	AD[23] SG AD[21]	PCI address/data bus [23] Signal ground PCI address/data bus [21]	
Signal ground Not connected Chin select signal-2	-	30 31 32	AD[19] +3.3VA AD[17]	PCI address/data bus [19] +3.3 V PCI address/data bus [17]	-
Output disable/write mask-2 Output disable/write mask-3 Not connected	-	33 34 35	C/BE(2)# SG IRDY#	Command and byte enable-2 Signal ground Initiator ready	- - L
+3.3 V Not connected Not connected		36 37 38	DEVSEL# SG LOCK#	Device select Signal ground Lock	
Not connected Not connected Signal ground Memory data bus [46]		40 41 42	PERR# +3.3VA SERR#	Data parity Error +3.3 V System Error	
Memory data bus [17] Memory data bus [17] Memory data bus [18] Memory data bus [19]		43 44 45	+3.3VA C/BE(1)# AD[14]	+3.3 V Command and byte enable-1 PCI address/data bus [14]	
+3.3 V Memory data bus [20] Not connected	- - -	46 47 48	AD[12] AD[10]	PCI address/data bus [12] PCI address/data bus [10] PCI bus 66 MHz dock cochta circuit	
Not connected Clock enable signal Not connected Memory data bus [21]		49 50 51 52	SG AD[8] AD[7]	Signal ground PCI address/data bus [8] PCI address/data bus [7]	
Memory data bus [21] Memory data bus [22] Memory data bus [23] Signal ground		53 54 55	+3.3VA AD[5] AD[3]	+3.3 V PCI address/data bus [5] PCI address/data bus [3]	
Memory data bus [24] Memory data bus [25] Memory data bus [26]		56 57 58	SG AD[1] +3.3VA	Signal ground PCI address/data bus [1] +3.3 V 45.1 V	
Memory data bus [27] +3.3 V Memory data bus [28]	- - -	59 60 61	+5.1VA SG +3.3VA +3.3VA	T3.1 V Signal ground +3.3 V +3.3 V	
Memory data bus [29] Memory data bus [30] Memory data bus [31] Singal grund		62 63 64 65	+3.3VA SG +12VA	+3.3 V Signal ground +12 V	
Clock-2 input Not connected Not connected		66 67 68	+12VA +5.1VA +5.1VA	+12 V +5.1 V +5.1 V	
PD serial data PD serial clock +3.3 V		69 70 71	+3.3VA OPBINT(1) +3.3VA	+3.3 V Interrupt request-1 +3.3 V PCI reset signal	
Signal ground Memory data bus [32] Memory data bus [33]		72 73 74 75	+3.3VA PCICLK(4) +3.3VA	+3.3 V PCI clock-4 +3.3 V	
Memory data bus [34] Memory data bus [35] +3.3 V Memory data bus [36]		76 77 78	GNT(1)# GNT(0)# SG	Grant-1 Grant-0 Signal ground	
Memory data bus [37] Memory data bus [38] Memory data bus [39]		79 80 81	PME# AD[30] +3.3VA	Power Management Event PCI address/data bus [30] +3.3 V PCI address/data bus [30]	
Memory data bus [40] Signal ground Memory data bus [41]		82 83 84 85	AD[26] SG AD[24]	PCI address/data bus [28] PCI address/data bus [26] Signal ground PCI address/data bus 1241	
Memory data bus [42] Memory data bus [43] Memory data bus [44] Memory data bus [45]		86 87 88	+3.3VA +3.3VA AD[22]	+3.3 V +3.3 V PCI address/data bus [22]	
+3.3 V Memory data bus [46] Memory data bus [47]	- - -	89 90 91	AD[20] SG AD[18] AD[16]	PCI address/data bus [20] Ground PCI address/data bus [18] PCI address/data bus [16]	
Not connected Not connected Signal ground		92 93 94 95	+3.3VA FRAME# SG	+3.3 V Cycle frame Signal ground	
Not connected +3.3 V Column address stroke signal		96 97 98	TRDY# SG STOP#	Target ready Signal ground Stop	
Output disable/write mask-4 Output disable/write mask-5 Chip select signal-1		99 100 101	+3.3VA +3.3VA SG	+3.3 V +3.3 V Signal ground	
Row address strobe signal Signal ground Memory address bus [1]	- - -	102 103 104	SG PAR AD[15] +3 3\/A	Signai ground Parity PCI address/data bus [15] +3.3 V	
Memory address bus [3] Memory address bus [5] Memory address bus [7] Memory address bus [7]		105 106 107 108	AD[13] AD[11] SG	PCI address/data bus [13] PCI address/data bus [11] Signal ground	
Bank select-0 Memory address bus [11] +3.3 V		109 110 111	AD[9] SG C/BE(0)#	PČI address/data bus [9] Signal ground Command and byte enable-0	
Clock-1 input Memory address bus [12] Signal ground	- - -	112 113 114	+3.3VA AD[6] AD[4] ISG	T3.3 V PCI address/data bus [6] PCI address/data bus [4]	
Clock enable signal Chip select signal-3 Output disable/write mask-6 Output disable/write mask 7		115 116 117 118	AD[2] AD[0] +3.3VA	PCI address/data bus [2] PCI address/data bus [0] +3.3 V	
Memory address bus [13] +3.3 V Not connected		119 120	+5.1VA +5.1VA	+5.1 V +5.1 V	-
Not connected Not connected Vot connected Vot connected Vot connected		CN126 (PWA-F-SYS (COPY KEY C	CN126) <-> COIN CONTROLLER (OPTI ARD (OPTION)	ON)/
Signal ground Memory data bus [48] Memory data bus [49]	-	1 2 3	L/S FULL-C MONO-C	Paper size signal Full-color mode signal Mono-color mode signal	
Memory data bus [51] +3.3 V Memory data bus [52]		4 5 6	B/W +5.1VA SG	Black and white mode signal +5.1 V Signal ground	
Not connected Not connected Not connected	- - -	7 CN705 I	PS-ACC (CN	705) <-> PWA-F-SYS (CN122)	
Signal ground Memory data bus [53] Memory data bus [54] Memory data bus [55]	-	Pin No 1 2	Symbol PWR-EN PWR-DN	Name Power supply enable signal AC main power down signal 12 V	Active L L
Signal ground Memory data bus [56] Memory data bus [57]		3 4 5	SG +12VB SG	Signal ground +12 V Signal ground	
Memory data bus [58] Memory data bus [59] +3.3 V		0 7 8 9	+12VA SG -12VA	+12 V Signal ground -12 V	
Memory data bus [60] Memory data bus [61] Memory data bus [62]		10 11 12	SG SG SG	Signal ground Signal ground Signal ground	
Vienory data bus [63] Signal ground Clock-3 input Not connected		13 14 15	+3.3VA +3.3VA +3.3VA +3.3VA	+3.3 V +3.3 V +3.3 V +3.3 V +3.3 V	
PD address [0] PD address [1] PD address [2]		16 17 18 19	SG SG +3.3VB	Signal ground +3.3 V	
+3.3 V CN117) <-> PWA-F-LGC (CN309)		20 21 22	+3.3VB SG SG	+3.3 V Signal ground Signal ground	
+5.1 V System command busy	Active -	23 24 25	SG +5.1VA +5.1VB	Signal ground +5.1 V +5.1 V +5.1 V	
Command data System status acknowledge signal System status error signal	- - -	26 CN706 I	PS-ACC (CN	706) <-> PWA-F-LGC (CN311),	
System status busy signal Status data System command acknowledge signal System command acknowledge signal	-	Pin No	PWA-F-FUS (Symbol	(CN431) Name Signal ground	Active
Signal ground Signal ground Signal ground		2 3 4	+5.1VD PG PG	+5.1 V Power ground Power ground	-
Clock signal input for image data transmission Signal ground Horizontal scanning synchronized signal		5 6 7	+24VD2 +24VD2 PG	+24 V +24 V Power ground Power ground	
Signal ground Vertical scanning synchronized signal LGC board connection detection signal	-	9 10 11	PG PG +24VD1	Power ground Power ground +24 V	
IDA Transmitted data bus [0] IDA Transmitted data bus [1] IDA Transmitted data bus [1]		12 13 14	+24VD1 +24VD1 +24VD1	+24 V +24 V +24 V	
IDA Transmitted data bus [3] IDA Transmitted data bus [4] IDA Transmitted data bus [5]	- -	15 16 17	NC NC HTR20NI 14	Not connected Not connected Side heater ON/OEE signal of fuces relian	
IDA Transmitted data bus [6] IDA Transmitted data bus [7] Signal ground		18 19 20 21	HTR10N-1A PSPDWN-1 SG	Center heater ON/OFF signal of luser roller AC main power down signal Signal ground	
Signal ground Data enable of the horizontal scanning direction Signal ground		22 23 24	+12VB SG SG	+12 V Signal ground Signal ground	
Data enable of the vertical scanning direction +3.3 V	-	25 26 27 28	+5.1VB +5.1VB +5.1VR	+5.1 V +5.1 V	
CN118) <-> PWA-F-DSP (J427) Name LCD data transmission clock	Active -	29 30	SG +3.3VB	Signal ground +3.3 V	-
LCD data latch pulse LCD frame signal LCD scanning line start signal	H H H	CN707	PS-ACC (CN FINISHER (J	707) <-> PWA-FAX (CN702) (OPTION)/ 599) (OPTION)/PWA-F-ADU (CN212) (O	PTION)/
Signal ground Buzzer-ON signal Panel connection detection signal LED serial clock	 L H -	Pin No	VIAIN MOTO	Name Signal ground	Active -
LED serial data LED data latch signal LED drive selection signal-1		2 3 4	SG +5.1VB	Signal ground +5.1 V (to FINISHER) Not connected	
LED drive selection signal-0 Signal ground +5.1 V +5.1 V	- L -	6 7 8	NC PG +24VD5	Not connected Signal ground +24 V (to FINISHER)	
+5.1 V +5.1 V +5.1 V Reset signal		9 10 11	PG PG +24VD2	Power ground Power ground +24 V (to ADU) ADU (to ADU)	
Signal ground Key controller SIO Transmission request signal Key controller SIO Transmission enabled signal	- - -	12 13 14	PG PG +24VD1	Power ground Power ground +24 V (to main motor)	
Key controller SIO received serial data Signal ground		15 16	+24VD1	+24 V (to main motor) +24 V (to main motor)	-
LCD display data-3 LCD display data-2 LCD display data-1		CN708 F Pin No	S-AUC (CN RADF (CN1) Symbol	(OPTION)	Active
Signal ground LCD enable signal	- - H	1 2 3	SG SG +5.1VB	Signal ground Signal ground +5.1 V +5.1 V	
CN119) <-> USB DEVICE Name	Active	4 5 6 7	+5.1VB +5.1VB +5.1VB SG	+5.1 V (to RADF) +5.1 V (to RADF) Signal ground	
USB serial data USB serial data Signal ground		8 9 10	SG +3.3VB +3.3VB	Signal ground +3.3 V +3.3 V	
CN120) <-> USB HOST		11 12 13	SG SG +12VB	Signal ground Signal ground +12 V	
+5.1 V USB serial data USB serial data	ACUVE - -	14 15 16	NC NC SG	Not connected Signal ground	
Signal ground +5.1 V USB serial data		1/ 18 19	SG +24VD4 +24VD4	Signal ground +24 V +24 V	

|
 |

 |
 | +3.3VA
+3.3VA
+3.3VA
+3.3VA
+ NC (/CS2P)
5 D15
5 D14
7 D13
3 SG
9 D12
0 D11
1 D12

 | +3.3 V
+3.3 V | ACTIVE | -
 | 11-11/0 | Name |

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---|--|--
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|
 |

 |
 | 3 73.3VA
4 NC (/CS2P)
5 D15
6 D14
7 D13
8 SG
9 D12
10 D11
11 D12

 | 12.2.1/ | - | 2
 | +5.1VB
+5.1VB | +5.1 V
+5.1 V
Signal ground |
|
 |

 |
 | 6 D14
7 D13
8 SG
9 D12
10 D11

 | Not connected I/F data bus [15] | <u>+</u> :-] | 3
4
5
 | SG
CCDRS | Signal ground
CCD RS signal |
|
 |

 |
 | 8 SG
9 D12
10 D11

 | I/F data bus [14]
I/F data bus [13] | | 5
6
7
 | SG
CCDCP | Signal ground
CCD CP signal |
|
 |

 |
 | 10 D11

 | Signal ground
I/F data bus [12] | - | 8
 | SG
CCDSH | Signal ground
CCD SH signal |
|
 |

 |
 | 10 חוטן וו

 | I/F data bus [11]
I/F data bus [10] | - | 10
11
 | SG
CCDCK2B | Signal ground
CCD shift clock-2B |
|
 |

 |
 | 12 SG
13 D09

 | Signal ground
I/F data bus [9] | - | 12
13
 | SG
CCDCK2A | Signal ground
CCD shift clock-2A |
|
 |

 |
 | 14 D08
15 /INTPR1

 | I/F data bus [8]
Interrupt PR1 signal | -
L | 14
15
 | SG
CCDCK1A | Signal ground
CCD shift clock-1A |
|
 |

 |
 | 7 A03

 | I/F address bus [3] | - | 10
 | CCD-EVEN | CCD even data |
|
 |

 |
 | A01

 | I/F address bus [1] Not connected | | 19
 | CCD-ODD
SG | CCD odd data
Signal ground |
|
 |

 |
 | A00
D07

 | I/F address bus [0]
I/F data bus [7] | - | 21
22
 | AG
AG | Analog ground
Analog ground |
|
 |

 |
 | D06
A15

 | I/F data bus [6]
I/F address bus [15] | - | 23
24
 | AG
+12VB | Analog ground
+12 V |
|
 |

 |
 | 5 D05
6 A14
7 D04

 | I/F data bus [5]
I/F address bus [14] | - | 25
26
 | +12VB
+12VB | +12 V
+12 V |
|
 |

 |
 | 28 A13
29 D03

 | I/F data bus [4]
I/F address bus [13]
I/F data bus [3] | | CN2
 | PWA-F-SLG | (CN2) <-> PLTN-SNR, HOME |
|
 |

 |
 | 30 A12
31 D02

 | I/F address bus [12] | | Pin No
 | Symbol
SG | Name
Signal ground |
|
 |

 |
 | 32 A11
33 D01

 | I/F address bus [11]
I/F data bus [1] | | 2
 | PLTN-1A
+5V | Platen sensor detection signal
+5.1 V |
|
 |

 |
 | 34 A10
35 D00

 | I/F address bus [10]
I/F data bus [0] | - | 4
5
 | HOME-1A | Carriage home position sensor dete |
|
 |

 |
 | 36 A09
37 A04

 | I/F address bus [9]
I/F address bus [4] | - | 017
 | | |
|
 |

 |
 | 38 A08
39 /RESET

 | I/F address bus [8]
System reset signal | - | CN7
Pin No
 | PWA-F-SLG | (CN7) <-> RADF (CN2) (OPT
Name |
|
 |

 |
 | 40 A07
41 /ACK

 | I/F address bus [7]
Acknowledge signal | - | 1 2
 | ACK
SCN-STR | RADF acknowledge signal
VARID signal from RADF |
|
 |

 |
 | 42 A06
43 /CSP1
44 A05

 | I/F address bus [6]
Chip select signal | - | 3
 | RXD
SG | Received serial data
Signal ground |
|
 |

 |
 | 45 NC (OEO)
46 NC (STXD)

 | Not connected | | 5
6
7
 | SG
DE-ACK | Signal ground |
|
 |

 |
 | 47 RW
48 SG

 | Read/write to NIC
Signal ground | - | 8
 | DF-RRQ
DF-RRQ
RFQ | Request signal from RADF |
|
 |

 |
 | 49 A16
50 SG

 | I/F address bus [16] | - | 10
 | CNT | RADF connection detection signal |
|
 |

 |
 | 51 +3.3VA
52 SG

 | +3.3 V
Signal ground | - | CN9
 | PWA-F-SLG | (CN9) <-> INV-EXP (CN1) |
|
 |

 |
 | 53 NC (DACK)
54 +3.3VA

 | Not connected
+3.3 V | - | 1
2
 | PG
PC | Name
Power ground |
|
 |

 |
 | 55 /INTPR2
56 SG

 | PR2 interrupt signal
Signal ground | - | 3
 | LMPON-A | Exposure lamp ON signal |
|
 |

 |
 | 58 +3.3VA
59 +3.3VA

 | +3.3 V
+3.3 V | | 5
 | +24VD4 | +24 V |
|
 |

 |
 | 60 +3.3VA

 | +3.3 V | - | CN10
 | PWA-F-SLG | (CN10) <-> SLG-FAN-MOT, |
|
 |

 |
 | N124 PWA-F-SYS

 | (CN124) <-> PCI (CN150)/ | | Pin No
 | Symbol | Name |
|
 |

 |
 | Pin No Symbol

 | | Active | 2
 | NC
NC | Not connected
Not connected |
|
 |

 |
 | 2 +3.3VA
3 +3.3VA

 | +3.3 V
+3.3 V | | 4
 | +5VAPS
APSR | +5 V
Automatic original detection sensor |
|
 |

 |
 | 4 SG
5 -12VA

 | Signal ground
-12 V | - | 6
7
8
 | +5VAPS | Signal ground
+5 V |
|
 |

 |
 | o -12VA
7 +5.1VA
8 +5.1VA

 | +5.1 V
+5.1 V
+5.1 V | | 8
9
10
 | SG
+5VAPS | Signal ground
+5 V |
|
 |

 |
 | 9 +3.3VA
10 OPRINIT/2

 | +3.3 V
Interrupt request-2 | | 10
11
12
 | APS3
SG | Automatic original detection sensor
Signal ground |
|
 |

 |
 | 11 OPBINT(0)
12 SG

 | Interrupt request-0
Signal ground | | 13
14
 | +5VAPS
APS2 | +5 V
Automatic original detection sensor |
|
 |

 |
 | 13 PCICLK(5)
14 SG

 | PCI clock-5 (Not used)
Signal ground | | 15
16
 | SG
+5VAPS | Signal ground
+5 V |
|
 |

 |
 | 15 PCICLK(3)
16 SG

 | PCI clock-3
Signal ground | | 17
18
 | SG | Signal ground |
|
 |

 |
 | 18 REQ(1)#
18 REQ(0)#
19 +3.3VA

 | Data request signal-0
+3.3 V | + <u>:</u> | CN19
 | PWA-F-SLG | (CN19) <-> SCAN-MOT |
|
 |

 |
 | 20 AD[31]
21 AD[29]

 | PCI address/data bus [31]
PCI address/data bus [29] | | Pin No
 | SCNM-BB
+24\/D4 | Name
Scan motor drive signal-B
+24 V |
|
 |

 |
 | 22 SG
23 AD[27]

 | Signal ground
PCI address/data bus [27] | | 3
 | SCNM-B | Scan motor drive signal-B |
|
 |

 |
 | 24 AD[25]
25 +3.3VA

 | PCI address/data bus [25]
+3.3 V | | 5
 | +24VD4
SCNM-A | +24 V
Scan motor drive signal-A |
|
 |

 |
 | 26 C/BE(3]#
27 AD[23]

 | Command and byte enable-3
PCI address/data bus [23] | | CN22
 | PWA-F-SI C | (CN22) <-> DOWNI OAD 110 |
|
 |

 |
 | 20 SG
29 AD[21]
30 AD[10]

 | PCI address/data bus [21]
PCI address/data bus [10] | <u>†</u> ≓] | Pin No
 | Symbol
MDTI01 | Name ROM data bus f01 |
|
 |

 |
 | 31 +3.3VA
32 AD[19]

 | +3.3 V
PCI address/data bus [17] | | 2
 | MDT[2]
MDT[41 | ROM data bus [2]
ROM data bus [4] |
|
 |

 |
 | 33 C/BE(2)#
34 SG

 | Command and byte enable-2
Signal ground | | 4
 | MDT[6]
MRD | ROM data bus [6]
ROM data read signal |
|
 |

 |
 | 35 IRDY#
36 +3.3VA

 | Initiator ready
+3.3 V | | 6
7
 | PNLDT[0]
PNLDT[1] | D/L address bus [0]
D/L address bus [2] |
|
 |

 |
 | 37 DEVSEL#
38 SG

 | Device select
Signal ground | | 8
 | MAD[4]
MAD[6] | ROM address bus [4]
ROM address bus [6] |
|
 |

 |
 | 39 LOCK#
40 PERR#

 | Lock
Data parity Error | | 10
11
 | MAD[8]
MAD[10] | ROM address bus [8]
ROM address bus [10] |
|
 |

 |
 | 41 +3.3VA
42 SERR#

 | +3.3 V
System Error | | 12
13
 | MAD[12]
MAD[14] | ROM address bus [12]
ROM address bus [14] |
|
 |

 |
 | 43 +3.3VA
44 C/BE(1)#

 | Command and byte enable-1 | | 14
15
 | MAD[16]
MAD[18] | ROM address bus [16]
ROM address bus [18] |
|
 |

 |
 | 40 AD[14]
46 SG
47 AD[40]

 | Signal ground | | 16
17
 | SG
MDT[1] | Signal ground
ROM data hus [1] |
|
 |

 |
 | 48 AD[10]
49 M66EN

 | PCI address/data bus [10]
PCI bus 66 MHz clock enable signal | | 18
19
20
 | MDT[3]
MDT[51 | ROM data bus [3]
ROM data bus [5] |
|
 |

 |
 | 50 SG
51 AD[8]

 | Signal ground
PCI address/data bus [8] | | 21
22
 | MDT[7]
PNL_CS | ROM data bus [7]
Chip select signal |
|
 |

 |
 | 52 AD[7]
53 +3.3VA

 | PCI address/data bus [7]
+3.3 V | | 23
24
 | PNLDT1
PNLDT3 | D/L address bus [1]
D/L address bus [3] |
|
 |

 |
 | 54 AD[5]
55 AD[3]

 | PCI address/data bus [5]
PCI address/data bus [3] | | 25
26
 | MAD[5] | ROM address bus [5] |
|
 |

 |
 | 56 SG
57 AD[1]

 | Signal ground
PCI address/data bus [1] | - | 28
 | MAD[9]
MAD[11] | ROM address bus [9]
ROM address bus [11] |
|
 |

 |
 | 59 +5.1VA

 | +5.1 V
Signal ground | | 30
31
 | MAD[15]
MAD[17] | ROM address bus [15]
ROM address bus [15] |
|
 |

 |
 | 61 +3.3VA
62 +3.3VA

 | +3.3 V
+3.3 V | | 32
 | ROMDT
+5.1VB | ROM connection detection signal
+5.1 V |
|
 |

 |
 | 63 +3.3VA
64 SG

 | +3.3 V
Signal ground | - | 34
 | LED | LED drive signal |
|
 |

 |
 | 65 +12VA
66 +12VA

 | +12 V
+12 V | - | CN2
Pin No
 | INV-EXP (CN
Symbol | 2) <-> LP-EXPO |
|
 |

 |
 | 67 +5.1VA
68 +5.1VA
69 +3.3VA

 | +5.1 V
+5.1 V
+3.3 V | - | 1 2
 | -
NC | Exposure lamp high-voltage output
Not connected |
|
 |

 |
 | 70 OPBINT(1)
71 +3.3VA

 | Interrupt request-1
+3.3 V | | 3
 | NC - | Not connected
Exposure lamp high-voltage output |
| 1 100000 Classical 1000000 1000000 1000000 1000000 1000000 10000000 100000000000 1000000000000000000000000000000000000
 |

 |
 | 72 PCIRST#
73 +3.3VA

 | PCI reset signal
+3.3 V | - | J422
 | PWA-F-DSP | (J422) <-> LCD PANEL |
|
 |

 |
 | 74 PCICLK(4)
75 +3.3VA

 | PCI clock-4
+3.3 V | - | Pin No
1
 | Symbol
YD | Name
Y-axis touch position detection tern |
|
 |

 |
 | 76 GNT(1)#
77 GNT(0)#

 | Grant-1
Grant-0 | - | 2
 | KL
XR | X-axis touch position detection term
X-axis touch position detection term |
|
 |

 |
 | 78 SG
79 PME#
80 AD[30]

 | Signal ground
Power Management Event
PCL address/data bus [30] | - | 4
 | YU | Y-axis touch position detection term |
|
 |

 |
 | 81 +3.3VA
82 AD[28]

 | +3.3 V
PCI address/data bus [28] | | J423
Pin No
 | PWA-F-DSP | (J423) <-> LCD BACK LIGH
Name |
|
 |

 |
 | 83 AD[26]
84 SG

 | PCI address/data bus [26]
Signal ground | - | 1
2
3
 | NC | High-voltage terminal
Not connected |
| Image: Project
 | 1

 |
 | 85 AD[24]
86 +3.3VA

 | PCI address/data bus [24]
+3.3 V | - |
 | | |
|
 |

 |
 | 87 +3.3VA
88 AD[22]
89 AD[20]

 | +3.3 V
PCI address/data bus [22]
PCI address/data bus [20] | - | J424
Pin No
 | Symbol | (J424) <-> LCD PANEL
Name |
| Image: Note of the second se
 |

 |
 | 90 SG
91 AD[18]

 | PCI address/data bus [20]
Ground
PCI address/data bus [18] | - | 1
 | FRAME
LAOD | LCD scanning line start signal
LCD data latch pulse |
| 1 1
 | III IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII

 |
 | 92 AD[16]
93 +3.3VA

 | PCI address/data bus [16]
+3.3 V | | 3
 | SG
+5 1\/A | Signal ground
+5,1 V |
| 9 100
 |

 |
 | 94 FRAME#
95 SG

 | Cycle frame
Signal ground | | 6
 | SG | Signal ground |
| $\frac{1}{2} = \frac{1}{2} $
 | 8 100

 | 0
 | 96 TRDY#
97 SG

 | Target ready
Signal ground | | 8
 | D.OFF
D0 | LCD enable signal
LCD display data-0 |
|
 |

 |
 | 99 +3.3VA
100 +3.3VA

 | +3.3 V
+3.3 V | | 10
 | D1
D2
D3 | LCD display data-1
LCD display data-2 |
| $\frac{1}{12}$ $\frac{1}{12$
 | No. Prof. P

 | $\frac{1}{12}$
 | 101 SG

 | Signal ground
Signal ground | - | .1425
 | | (1425) <-> PWA-F-KEY (142) |
| $\frac{1}{12} \frac{1}{12}
 | Image: Project

 | $\frac{100}{100}$ $\frac{100}{100}$ $\frac{100}{100}$ $\frac{100}{100}$ $\frac{100}{1000}$ $\frac{100}{1000}$ $\frac{100}{10000}$ $\frac{100}{100000000000000000000000000000000$
 | 102 SG
 | Parity
PCI address/data bus [15]
 | - | Pin No | Symbol
 | Name |
|
 | $\frac{1}{12}$ $\frac{1}{12$

 | Top Top <thtop< th=""> <thtop< th=""> <thtop< th=""></thtop<></thtop<></thtop<>
 | 102 SG
103 PAR
104 AD[15]
105 +3.3\/A

 | PCI address/data bus [13]
PCI address/data bus [11] | | 2
 | LDFC-2
LDFC-4 | LED driver output-2
LED driver output-4 |
| Image of the stand of
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$\frac{10}{12}$ <b< td=""><td></td><td>102 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11]</td><td></td><td><u> </u></td><td>4</td><td>LDFC-5
LDFC-6</td><td>LED driver output-5
LED driver output-6</td></b<>

 |
 | 102 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11]

 | | <u> </u> | 4
 | LDFC-5
LDFC-6 | LED driver output-5
LED driver output-6 |
|
 | 110 110 <td>$\frac{11}{10} \frac{1}{10}$</td> <td>102 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9]</td> <td>Signal ground
PCI address/data bus [9]</td> <td></td> <td>7</td> <td>LDFC-8</td> <td>LED driver output-8</td>

 | $\frac{11}{10} \frac{1}{10} $
 | 102 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9]
 | Signal ground
PCI address/data bus [9] |
 | 7 | LDFC-8 | LED driver output-8
 |
|
 | $\frac{11}{12}$ $\frac{11}{12$

 | $\frac{10}{10}$ $\frac{10}{10$
 | IU2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)#

 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0 | |
 | LDFC-9 | LED driver output-10
LED driver output-11 |
|
 |

 | $\frac{11}{12}$ $\frac{11}{12$
 | 1U2 \$\$G\$ 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 \$\$G\$ 109 AD[9] 110 \$\$G\$ 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4]

 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [4]
PCI address/data bus [4] | | 9
 | LDFC-9
LDFC-10
LDFC-11 | LED driver output-12 |
| 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100
 | 10 <

 |
 | IU2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2]

 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2] | | 9
10
11
12
 | LDFC-9
LDFC-10
LDFC-11
LDFC-12
LDFC-13 | LED driver output-13 |
|
 |

 | 1131 PMA-F.W1 (PMA) N N N N N N N N N N N N N N N N N N N N N N N N N N N
 | IU2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA

 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V | | 9
10
11
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13
14
 | LDFC-9
LDFC-10
LDFC-11
LDFC-12
LDFC-13
LDFC-15
LDON0 | LED driver output-13
LED driver output-15
LED common driver signal-0 |
| COUPY KEY CARD (JOP 100) Numa Adam 1 <t< td=""><td></td><td></td><td>1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA</td><td>Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [0]
+5.1 V
+5.1 V</td><td></td><td>9
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16</td><td>LDFC-9
LDFC-10
LDFC-11
LDFC-12
LDFC-13
LDFC-13
LDFC-15
LDON0
LDON1
SG</td><td>LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground</td></t<>
 |

 |
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA

 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [0]
+5.1 V
+5.1 V | | 9
10
11
12
13
14
15
16
 | LDFC-9
LDFC-10
LDFC-11
LDFC-12
LDFC-13
LDFC-13
LDFC-15
LDON0
LDON1
SG | LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground |
| 1 10 C Page an appar 1 1 10 100000 1000000 1000000 1000000 1000000 1000000 10000000 10000000 1000000000 1000000000000000000000000000000000000
 | $\frac{1}{2} \frac{1}{2} \frac{1}$

 | $\frac{1}{10}$ $\frac{1}{$
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 120 +5.1VA 120 +5.1VA 20 +5.1VA
 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
 | | 9
10
11
12
13
14
15
16
J426 | LDFC-9
LDFC-10
LDFC-11
LDFC-12
LDFC-13
LDFC-15
LDON0
LDON1
SG
PWA-F-DSP
 | LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429 |
| 1 1000°C 1000°C 1000°C 1000°C 1000°C 1000°C 100°C
 |

 | $\frac{1}{2}$ 0000/2
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 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 120 +5.1VA

 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CONTROLLER (OPTION) | | 9
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J426
Pin No
1 | LDFC-9
LDFC-10
LDFC-11
LDFC-12
LDFC-13
LDFC-13
LDFC-15
LDON0
LDON1
SG
PWA-F-DSP (
SCN15
 | LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5 |
| 1 0
 | $\frac{1}{2} + \frac{1}{2} + \frac{1}{10} + $

 | $\frac{1}{2}$ $\frac{1}{10}$ $\frac{1}{1$
 | 1U2 \$\$\$G\$ 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 \$\$G\$ 109 AD[9] 110 \$\$G\$ 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 \$\$G\$ 116 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 120 +5.1VA 120 +5.1VA 20 FULL-C PIN NO Symbol 1 L/\$ 2 FULL-C
 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [7]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CN126) <-> COIN CONTROLLER (OPT
CN126) COPTION)
Paper size signal
Paper size signal
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J426
Pin No
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4 | LDFC-9
LDFC-10
LDFC-11
LDFC-12
LDFC-13
LDFC-15
LDON0
LDON1
SG
PWA-F-DSP
SCN15
SCN14
SCN13
SCN13
 | LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-4
Button scanning signal-3
Button scanning signal-3 |
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 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 120 +5.1VA 120 +5.1VA 2COPY KEY Pin No Symbol 1 L/S 2 FULL-C 3 MONO-C 4 BrW

 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CN126) <-> COIN CONTROLLER (OPT
CN126) Signal
Paper size signal
Full-color mode signal
Mono-color mode signal
Black and white mode signal | | 9
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J426
Pin No
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 | LDFC-9
LDFC-10
LDFC-11
LDFC-12
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LDFC-15
LDON0
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SG
PWA-F-DSP (
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SC | LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-4
Button scanning signal-3
Button scanning signal-2
Button scanning signal-2
Button scanning signal-1 |
|
 | International Control (Control) (Contro) (Contro) (Contro) (Control) (Control) (Control) (Control) (Contr

 |
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 120 +5.1VA 120 +5.1VA 120 +5.1VA 120 +5.1VA 120 +5.1VA 120 +5.1VA 2 FULL-C 3 MONO-C 4 BW 5 +5.1VA 6 SG 7 N/C

 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CARD (OPTION)
Paper size signal
Full-color mode signal
Full-color mode signal
Black and white mode signal
+5.1 V
Signal ground
Not connected | | 9
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J426
Pin No
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 | LDFC-9
LDFC-10
LDFC-11
LDFC-12
LDFC-13
LDFC-15
LDON0
LDON1
SG
PWA-F-DSP
SG
PWA-F-DSP
SG
SCN13
SCN14
SCN13
SCN14
SCN12
SCN11
RET0
RET1
RET2
RET1 | LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-3
Button scanning signal-2
Button scanning return signal-0
Button scanning return signal-1
Button scanning return signal-1 |
| Image: Part of the stand method and the stand me
 |

 | $ \begin{array}{c} 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 $
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 120 +5.1VA 20 +5.1VA 210 +5.1VA 22 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC

 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [6]
PCI address/data bus [2]
PCI a | | 9
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J426
Pin No
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LDFC-10
LDFC-11
LDFC-12
LDFC-13
LDFC-15
LDON0
LDON1
SG
PWA-F-DSP
SCN15
SCN15
SCN14
SCN13
SCN14
SCN11
RET0
RET1
RET2
RET3
RET8
PF72
 | LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-4
Button scanning signal-4
Button scanning signal-3
Button scanning return signal-1
Button scanning return signal-2
Button scanning return signal-2
Button scanning return signal-3
Button scanning return signal-3 |
| 4 BO Separation
 | $\frac{1}{2}$ Signal ground
$\frac{1}{2}$ $\frac{1}{2}$ <

 | 4 Signal ground
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[6] 118 +3.3VA 120 +5.1VA 120 +5.1VA 120 +5.1VA 120 +5.1VA 120 +5.1VA 120 +5.1VA 2 FUIL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC CN705 PS-ACC (C Pin No Symbol 1 Symbol 1 Symbol

 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CN126) <-> COIN CONTROLLER (OPT
CARD (OPTION)
Paper size signal
Full-color mode signal
Full-color mode signal
Black and white mode signal
+5.1 V
Signal ground
Not connected
705) <-> PWA-F-SYS (CN122)
Name | | 9
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J426
Pin No
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J426
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Pin No
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LDFC-9
LDFC-10
LDFC-11
LDFC-12
LDFC-13
LDFC-15
LDON0
LDON1
SG
PWA-F-DSP
SG
PWA-F-DSP
SG
SCN15
SCN14
SCN15
SCN14
SCN13
SCN12
SCN11
RET0
RET1
RET2
RET3
RET3
RET8
RET9 | LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-3
Button scanning signal-2
Button scanning return signal-0
Button scanning return signal-1
Button scanning return signal-2
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-8
Button scanning return signal-8 |
| 0 16G Eggs provid 1 1 100 <td>6 150 Tappat pound 1 1 100<!--</td--><td>$\theta_{1}$$\theta_{2}$$\theta_{1}$$\theta_{2}$<</td><td>1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[6] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 22 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC CN705 PS-ACC (C Pin No Symbol 1 PWR-EN 2 PWR-DN 3 -12V/R</td><td>Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [7]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CN126) <-> COIN CONTROLLER (OPT
CARD (OPTION)
Paper size signal
Full-color mode signal
Black and white mode signal
Hono-color mode signal
Mono-color mode signal
Black and white mode signal
Hono-color mode signal
Mono-color mode signal
Ac main power down signal
AC main power down signal
AC main power down signal
AC main power down signal
AC main power down signal</td><td></td><td>9
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J426
Pin No
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LDFC-10
LDFC-11
LDFC-12
LDFC-13
LDFC-15
LDON0
LDON1
SG
PWA-F-DSP
SCN15
SCN15
SCN14
SCN14
SCN14
SCN14
SCN14
SCN11
RET0
RET1
RET0
RET1
RET3
RET3
RET8
RET9
PWA-F-NIC (.</td><td>LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-4
Button scanning signal-3
Button scanning signal-1
Button scanning return signal-1
Button scanning return signal-2
Button scanning return signal-2
Button scanning return signal-3
Button scanning return signal-9
J2) <-> LAN (10BASE-T/100
Name</td></td>
 | 6 150 Tappat pound 1 1 100 </td <td>$\theta_{1}$$\theta_{2}$$\theta_{1}$$\theta_{2}$<</td> <td>1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[6] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 22 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC CN705 PS-ACC (C Pin No Symbol 1 PWR-EN 2 PWR-DN 3 -12V/R</td> <td>Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [7]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CN126) <-> COIN CONTROLLER (OPT
CARD (OPTION)
Paper size signal
Full-color mode signal
Black and white mode signal
Hono-color mode signal
Mono-color mode signal
Black and white mode signal
Hono-color mode signal
Mono-color mode signal
Ac main power down signal
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AC main power down signal
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AC main power down signal</td> <td></td> <td>9
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LDFC-10
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SCN15
SCN15
SCN14
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SCN14
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SCN11
RET0
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RET8
RET9
PWA-F-NIC (.</td> <td>LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-4
Button scanning signal-3
Button scanning signal-1
Button scanning return signal-1
Button scanning return signal-2
Button scanning return signal-2
Button scanning return signal-3
Button scanning return signal-9
J2) <-> LAN (10BASE-T/100
Name</td>
 | θ_{1} θ_{2} θ_{1} θ_{2} <
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[6] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 22 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC CN705 PS-ACC (C Pin No Symbol 1 PWR-EN 2 PWR-DN 3 -12V/R

 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [7]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CN126) <-> COIN CONTROLLER (OPT
CARD (OPTION)
Paper size signal
Full-color mode signal
Black and white mode signal
Hono-color mode signal
Mono-color mode signal
Black and white mode signal
Hono-color mode signal
Mono-color mode signal
Ac main power down signal
AC main power down signal
AC main power down signal
AC main power down signal
AC main power down signal | | 9
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J426
Pin No
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LDFC-10
LDFC-11
LDFC-12
LDFC-13
LDFC-15
LDON0
LDON1
SG
PWA-F-DSP
SCN15
SCN15
SCN14
SCN14
SCN14
SCN14
SCN14
SCN11
RET0
RET1
RET0
RET1
RET3
RET3
RET8
RET9
PWA-F-NIC (.
 | LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-4
Button scanning signal-3
Button scanning signal-1
Button scanning return signal-1
Button scanning return signal-2
Button scanning return signal-2
Button scanning return signal-3
Button scanning return signal-9
J2) <-> LAN (10BASE-T/100
Name |
| 1 1000000000000000000000000000000000000
 |

 | a box byped grant i 11 500 Sping grant i<
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 120 +5.1VA 120 +5.1VA 120 +5.1VA 120 +5.1VA 120 +5.1VA 120 +5.1VA 6 SG 7 NC CN705 PS-ACC (C Pin No Symbol 1 L/W-F-N 2 PWR-EN 3 -12VB 4 SG 5 +12VB

 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
ARD (OPTION)
Paper size signal
Full-color mode signal
Full-color mode signal
Black and white mode signal
Black and white mode signal
Hono-color mode signal
Signal ground
Not connected
705) <-> PWA-F-SYS (CN122)
Name
Power supply enable signal
AC main power down signal
-12 V
Signal ground
+12 V | | 9
10
11
12
13
14
15
16
J426
Pin
No
1
2
3
4
5
6
7
7
8
9
10
11
J2
J3
J4
J5
16
J4
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Signal ground
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Button scanning signal-5
Button scanning signal-3
Button scanning signal-2
Button scanning return signal-0
Button scanning return signal-1
Button scanning return signal-3
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 | Signal ground
PCI address/data bus [9]
Signal ground
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+3.3 V
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+3.3 V
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+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
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Paper size signal
Full-color mode signal
Black and white mode signal
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LED common driver signal-0
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(J426) <-> PWA-F-KEY (J429
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Signal ground
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(CN126) <-> COIN CONTROLLER (OPT
ARD (OPTION)
Paper size signal
Full-color mode signal
Full-color mode signal
Full-color mode signal
Black and white mode signal
+5.1 V
Signal ground
Not connected
Power supply enable signal
AC main power down signal
-12 V
Signal ground
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Signal ground
(J426) <-> PWA-F-KEY (J429
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Button scanning signal-2
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 | 1U2 \$\$G\$ 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 \$\$G\$ 109 AD[9] 110 \$\$G\$ 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 \$\$G\$ 116 AD[2] 117 AD[0] 118 +3.3VA 120 +5.1VA 120 +5.1VA 120 +5.1VA 120 +5.1VA 120 +5.1VA 6 \$\$G\$ 7 NC COPY KEY Pin No \$\$ymbol\$ 1 L/S 2 FUL-C 3 MONO-C 4 B/W 5 +5.1VA 6 \$\$G\$ 7 NC <td>Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
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(CN126) <-> COIN CONTROLLER (OPT
ARD (OPTION)
Paper size signal
Full-color mode signal
Full-color mode signal
Full-color mode signal
Black and white mode signal
+5.1 V
Signal ground
Not connected
Power supply enable signal
AC main power down signal
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(J426) <-> PWA-F-KEY (J429
Name
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Button scanning signal-3
Button scanning signal-2
Button scanning return signal-0
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Command and byte enable-0
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Signal ground
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+3.3 V
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+5.1 V
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(CN126) <-> COIN CONTROLLER (OPT
ARD (OPTION)
Paper size signal
Full-color mode signal
Full-color mode signal
Full-color mode signal
Black and white mode signal
+5.1 V
Signal ground
Not connected
Power supply enable signal
AC main power down signal
-12 V
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FA45 | LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-0
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-3
Button scanning signal-2
Button scanning return signal-0
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-4
Button scanning signal-4
Button scanning signal-4
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Button scanning signal-4
Button scanning signal-4
Button scanning signal-4
Button scanning signal-4
Button scanning signal-4
Button scanning signal-4
B |
| 10 13.30A 1-3.30A 1-3.30A 1-3.30A 10 13.30A 1-3.30A 1-3.30A 1-3.30A 11 13.30A 1-3.30A 1-
 | 10 1-3.3/4 1-3.3/4 1-3.3/4 10 1-3.3/4 1-3.3/4 1-3.3/4 11 10 1-3.3/4 1-3.3/4 11 10 1-3.3/4 1-3.3/4 11 1-3.3/4 1-3.3/4 1-3.3/4 12 1-3.3/4 1-3.3/4 1-3.3/4 13 1-3.3/4 1-3.3/4 1-3.3/4 13 1-3.3/4 1-3.3/4 1-3.3/4 13 1-3.3/4 1-3.3/4 1-3.3/4 14 1-3.3/4 1-3.3/4 1-3.3/4 15 1-3.3/4 1-3.3/4 1-3.3/4 15 1-3.3/4 1-3.3/4 1-3.3/4 1-3.3/4 15 1-3.3/4 1-3.3/4 1-3.3/4 1-3.3/4 12 1-3.3/4 1-3.3/4 1-3.3/4 1-3.3/4 12 1-3.3/4 1-3.3/4 1-3.3/4 1-3.3/4 12 1-3.3/4 1-3.3/4 1-3.3/4 1-3.3/4 12 1-3.3/4 1-3.3/4 1-3.3/4

 | 10 1-33/W 1-33 11 1-33/W 1-33 12 1-33/W 1-33 13 33.0 1-33 14 1-33/W 1-33 15 1-10 1-10 15 1-10 1-10 16 1-10 1-10 17 1-10 1-10 1-10 18 1-10 1-10 1-10 19 1-10 1-10 1-10 10 1-10 1-10 1-10 10 1-10 1-10 1-10 10 1-10 <t< td=""><td>1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 114 AD[4] 115 SG 114 AD[6] 114 AD[6] 114 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 22 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC CN705 PS-ACC (C Pin No Symbol 1 PWR-DN <</td><td>Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CARD (OPTION)
Name
Paper size signal
Full-color mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
AC main power down signal
-12 V
Signal ground
+12 V
Signal ground
+12 V
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-12 V
Signal ground
Signal ground</td><td></td><td>9
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J426
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LDFC-10
LDFC-11
LDFC-12
LDFC-13
LDFC-15
LDON0
LDON1
SG
PWA-F-DSP
Symbol
SCN15
SCN14
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RET0
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Symbol
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LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-3
Button scanning signal-3
Button scanning signal-3
Button scanning return signal-0
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-3
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Button scanning return signal-4
Butt</td></t<>
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 114 AD[4] 115 SG 114 AD[6] 114 AD[6] 114 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 22 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC CN705 PS-ACC (C Pin No Symbol 1 PWR-DN <
 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CARD (OPTION)
Name
Paper size signal
Full-color mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
AC main power down signal
-12 V
Signal ground
+12 V
Signal ground
+12 V
Signal ground
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Signal ground
Signal ground
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LDON0
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PWA-F-DSP
Symbol
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PWA-F-NIC
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LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-3
Button scanning signal-3
Button scanning signal-3
Button scanning return signal-0
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-4
Butt |
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 | 1.1 1.2 1.2 1.1 1.2 1.2 1.2 1.2 1.2 2.3 2.3 1.2 1.2 1.3 2.3 2.3 1.2 1.2 1.3 2.3 2.3 1.2 1.2 1.3 2.3 1.2 1.2 1.2 1.2 1.3 2.3 1.3 1.2 <
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 120 +5.1VA 120 +5.1VA 120 +5.1VA 2 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC 2 FWR-DN 3 -12VB 4 SG 5 +12VA 8 SG 9 -12VA 10 SG

 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
ARD (OPTION)
Paper size signal
Full-color mode signal
Full-color mode signal
Full-color mode signal
Black and white mode signal
+5.1 V
Signal ground
Not connected
Not connected
Power supply enable signal
AC main power down signal
-12 V
Signal ground
+12 V
Signal ground
+12 V
Signal ground
Signal ground
Signal ground
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+3.5 V | | 9
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LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-3
Button scanning signal-3
Button scanning signal-2
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-4
Button scanning staturn signal-4
B |
| 0 1-300
 | 0 1.530 1.530 1.530 21 850 Signal ground 1.530 22 850 Signal ground 1.530 23 850 Signal ground 1.510 23 850 Signal ground 1.510 24 850 1.510 1.510 25 1.510 1.510 1.510 PMA F 1205 (CM33) 1.510 1.510 1.510 PA FG Power ground 1.510 1.510 1.10 2.3200 2.4210 1.510 1.510 1.10 2.3200 2.4210 1.510 1.510 1.11 1.100 1.510 1.510 1.510 1.11 1.100 1.100 1.100 1.100 1.11 1.100 1.100 1.100 1.100 <td>Product Number 1 Product Number 1 Number 1 21 Signal ground - 22 Signal ground - 23 Signal ground - 24 Signal ground - 25 Signal ground - 25 Signal ground - 25 Signal ground - 25 Signal ground - 26 Signal ground - 27 Signal ground - 28 Signal ground - 29 Signal ground - 1706 PSACC (CN769) <> PEN/F-LIAC (CM170) - 1716 PSACC (CN769) <>> PEN/F-LIAC (CM170) - 21 Signal ground - - 22 Signal ground - - 23 Signal ground - - 24 Signal ground - -</td> <td>1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[6] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 22 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC CN705 PS-ACC (C Pin No Symbol 1 L/S 7 NC CN705 PS-ACC (C Pin No Symbol 1 PWR-DN</td> <td>Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CARD (OPTION)
Name
Paper size signal
Full-color mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Commence address
Signal ground
Not connected
705) <-> PWA-F-SYS (CN122)
Name
Power supply enable signal
AC main power down signal
+12 V
Signal ground
+12 V
Signal ground
+12 V
Signal
ground
+13.3 V
+3.3 V</td> <td>Active Active Active Active Active </td> <td>9
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J426
Pin No
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10</td> <td>LDFC-9
LDFC-10
LDFC-11
LDFC-12
LDFC-13
LDFC-15
LDON0
LDON1
SG
PWA-F-DSP
SGN13
SCN14
SCN15
SCN14
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SCN11
RET0
RET1
RET3
RET3
RET3
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RET9
PWA-F-NIC (
Symbol
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SCN17</td> <td>LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-3
Button scanning signal-3
Button scanning signal-3
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-4
Butt</td> | Product Number 1 Product Number 1 Number 1 21 Signal ground - 22 Signal ground - 23 Signal ground - 24 Signal ground - 25 Signal ground - 25 Signal ground - 25 Signal ground - 25 Signal ground
 - 26 Signal ground - 27 Signal ground - 28 Signal ground - 29 Signal ground - 1706 PSACC (CN769) <> PEN/F-LIAC (CM170) - 1716 PSACC (CN769) <>> PEN/F-LIAC (CM170) - 21 Signal ground - - 22 Signal ground - - 23 Signal ground - - 24 Signal ground - -
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[6] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 22 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC CN705 PS-ACC (C Pin No Symbol 1 L/S 7 NC CN705 PS-ACC (C Pin No Symbol 1 PWR-DN
 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CARD (OPTION)
Name
Paper size signal
Full-color mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Commence address
Signal ground
Not connected
705) <-> PWA-F-SYS (CN122)
Name
Power supply enable signal
AC main power down signal
+12 V
Signal ground
+12 V
Signal ground
+12 V
Signal ground
+13.3 V
+3.3 V | Active Active Active Active Active
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Pin No
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LDFC-10
LDFC-11
LDFC-12
LDFC-13
LDFC-15
LDON0
LDON1
SG
PWA-F-DSP
SGN13
SCN14
SCN15
SCN14
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SCN17 | LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-3
Button scanning signal-3
Button scanning signal-3
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-4
Butt |
| 22 8G Signal ground - 23 8G Signal ground - 23 9G Signal ground - 23 9G Signal ground - 24 15/100 - - 25 15/100 - - 24 15/100 - - 25 15/100 - - 26 15/100 - - 26 15/100 - - 26 15/100 - - 27 15/100 - - 28 15/100 - - 27 15/100 - - 28 15/100 - - 29 15/100 - - 21 15/100 - - 21 15/100 - - 21 15/100 - - 21 15/100 - -
 | 22 35 Signal ground

 | 22 So Sourd ground - 23 So Sourd ground - 24 Sourd ground - 25 Sourd ground - 26 Sourd ground - 27 Strive Strive 28 Sourd ground - 27 Strive Sourd ground 28 Sourd ground - 29 Strive Sourd ground 10 Form Form Formand 10 Form Formand Sourd ground 11 Sourd ground - 12 Form Formand Sourd ground 13 Formand Sourd ground - 14 Sourd Ground - - 15 Formand Formand - 16 Sourd Ground - - 17 Formand - - 18 Sourd Ground - - 19 Formand - - 19 Sourd Ground - <t< td=""><td>1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 120 +5.1VA 120 +5.1VA 2 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC 2 FUR-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC 2 PWR-EN</td><td>Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CN126) <-> COIN CONTROLLER (OPT
Signal ground
+5.1 V
Signal ground
+5.1 V
Signal ground
+12 V
Signal ground
+12 V
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Signal ground
Signal grou</td><td>Active Active Active Active </td><td>9
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SCN14</td><td>LED driver output-13
LED driver output-15
LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-0
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-3
Button scanning signal-4
Button scanning signal-2
Button scanning return signal-0
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning
return signal-3
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-4
Button scanning state stat</td></t<> | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 120 +5.1VA 120 +5.1VA 2 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC 2 FUR-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC 2 PWR-EN
 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CN126) <-> COIN CONTROLLER (OPT
Signal ground
+5.1 V
Signal ground
+5.1 V
Signal ground
+12 V
Signal ground
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Signal ground
Signal grou | Active Active Active Active
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J426
Pin No
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LED driver output-15
LED driver output-15
LED common driver signal-0
LED common
driver signal-0
LED common driver signal-0
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-3
Button scanning signal-4
Button scanning signal-2
Button scanning return signal-0
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-4
Button scanning state stat |
| 4 15.11V 1 25 15.11V 1 26 15.11V 1 1000 1000 1000 1100 1000 1000 1100 15.11V 1 1100 15.11V 1 1100 15.11V 1 1110 15.11V 1 1110 15.11V 1 1110 15.11V 15.11V 1111 15.11V 15.11V 11111 15.11V 15.11V <td>4 4-1-3.1V 4-1 20 15.1V 1-1 21 15.1V 1-1 22 15.1V 1-1 23 15.1V 1-1 24 15.0V 1-1 25 15.1V 1-1 26 15.1V 1-1 27 15.1V 1-1 28 15.1V 1-1 24 15.1V 1-1 25 15.1V 1-1 26 15.1V 1-1 27 15.1V 1-1 28 15.1V 1-1 29 15.1V 1-1 20 17.0V 1-1 21 17.0V 1-1 21 17.0V 1-1 21 17.0V 1-1 21 10.1V<td>4-3 1-10 ->17 28 ->1707 ->1707 708 ->1707 ->1707</td><td>1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 116 AD[9] 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 21 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC CN705 PS-ACC (C Pin No Symbol 1 PWR-DN 3 -12VB 6 SG <!--</td--><td>Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
(Command and byte enable-0
+3.3 V
PCI address/data bus [6]
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Signal ground
PCI address/data bus [2]
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PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CARD (OPTION)
Name
Paper size signal
Full-color mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Commence address
Signal ground
Not connected
705) <-> PWA-F-SYS (CN122)
Name
Power supply enable signal
AC main power down signal
-12 V
Signal ground
+12 V
Signal ground
+12 V
Signal ground
+3.3 V
+3.3 V
Signal ground
+3.3 V
+3.3 V
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Signal ground
+3.3 V</td><td>Active Active ctive Active</td><td>9
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J426
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LDFC-11
LDFC-12
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LDFC-15
LDON0
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SCN14
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PWA-F-NIC
(RD+)FA3
(TD-)FA2
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LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
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Button scanning signal-3
Button scanning signal-3
Button scanning signal-3
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-4
Button scanning return signal-9
J2) <-> LAN (10BASE-T/100
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Transmitted data -
Received data -
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PCI address/data bus [9]
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Command and byte enable-0
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PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
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PCI address/data bus [0]
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+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CARD (OPTION)
Name
Paper size signal
Full-color mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Commence address
Signal ground
Not connected
705) <-> PWA-F-SYS (CN122)
Name
Power supply enable signal
AC main power down signal
-12 V
Signal ground
+12 V
Signal ground
+12 V
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+3.3 V
Signal ground
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+3.3 V</td><td>Active Active ctive Active</td><td>9
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LDON0
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PWA-F-DSP
SCN14
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SCN12
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SCN11
RET0
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RET3
RET3
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RET9
PWA-F-NIC
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LED driver output-15
LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-3
Button scanning signal-3
Button scanning signal-3
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-4
Button scanning return signal-9
J2) <-> LAN (10BASE-T/100
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Transmitted data +
Transmitted data -
Received data -
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 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 116 AD[9] 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 21 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC CN705 PS-ACC (C Pin No Symbol 1 PWR-DN 3 -12VB 6 SG </td <td>Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
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+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
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PCI address/data bus [2]
PCI address/data bus [0]
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(CN126) <-> COIN CONTROLLER (OPT
CARD (OPTION)
Name
Paper size signal
Full-color mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Commence address
Signal ground
Not connected
705) <-> PWA-F-SYS (CN122)
Name
Power supply enable signal
AC main power down signal
-12 V
Signal ground
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+3.3 V</td> <td>Active Active ctive Active</td> <td>9
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PWA-F-NIC
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LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-3
Button scanning signal-3
Button scanning signal-3
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
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Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-4
Button scanning return signal-9
J2) <-> LAN (10BASE-T/100
Name
Transmitted data +
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Transmitted data -
Received data -
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PCI address/data bus [0]
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+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CARD (OPTION)
Name
Paper size signal
Full-color mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Commence address
Signal ground
Not connected
705) <-> PWA-F-SYS (CN122)
Name
Power supply enable signal
AC main power down signal
-12 V
Signal ground
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LED common driver signal-0
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Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-3
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Button scanning signal-3
Button scanning return signal-1
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Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
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J2) <-> LAN (10BASE-T/100
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PWA-F-LGS (CN431) PMA PWA F-LGS (CN431) Name Active
3 PMN b Symbol Mag and ground - 3 PG Prover ground - 3 PG Prover ground - 4 PSUVD-1 Laser imag data (differmitti sign
9 - 7 PG Prover ground - - 8 PSUVD-1 Laser imag data (differmitti sign
9 - 7 PG Prover ground - - 1 PSUVD-1 - - - 1 NCO Strutt - - 1 NCO St
 | Intern Intern Intern N706 PS-ACC (CN706) <> PWA-FLGC (CN311). PWA-FLW (CM31) PWA-FLW (CM31) Name Active PWA (PMA) Segnal ground CH3

 | Construct List / Image: Construct Construct Construct Construct Construct 1706 PSACC (CN030) <
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[14] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 120 +5.1VA 120 +5.1VA 2 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC CN705 PS-ACC (C Pin No Symbol 1 PWR-EN 2 PWR-EN 3 -12VB 4 SG 5 +12VA

 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CN126) <-> COIN CONTROLLER (OPT
Signal ground
+5.1 V
Signal ground
+5.1 V
Signal ground
+12 V
Signal ground
+12 V
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 | LED driver output-13
LED driver output-15
LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-0
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-3
Button scanning signal-3
Button scanning signal-2
Button scanning return signal-0
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning statun scannal-3
Button scann |
| Introd Symbol
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 | It or D = Particle (LM131),
PWA = FLUS (CM431) PWA = FLUS (CM43) Name Active
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 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 116 AD[9] 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA CN126 PWA-F-SYS COPY KEY Pin No Symbol 1 L/S 2 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC CN705 PS-ACC (C Pin No Symbol
 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CARD (OPTION)
Name
Paper size signal
Full-color mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Connected
705) <-> PWA-F-SYS (CN122)
Name
Power supply enable signal
AC main power down signal
-12 V
Signal ground
+12 V
Signal ground
+12 V
Signal ground
+3.3 V
+3.3 V
Signal ground
+5.1 V
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LDON0
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PWA-F-DSP
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PWA-F-DSP
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 | LED driver output-13
LED driver output-15
LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-3
Button scanning signal-3
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-4
Button scanning return signal-5
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-8
Button scanning return signal-9
U2) <-> LAN (10BASE-T/100
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 | Pin No.SymbolNameActive15GSignal ground-245 VU45 VU-316Forward ground-416VV5724VD2424 V-6724VD2424 V-775 VD81785 VD-9PGPower ground-10PGPower ground-1124VD124V-1224VD124V-1335 VD1424VD124V-15NCCNot connected-16NGCNot connected-17NCCNot connected-18HTRON-LASide batter CMCVF signal of fuser roller-18NGCNot connected-19NGCNot connected-21152V451 V 16 FUS board)-22152V451 V 16 FUS board)-23163Signal ground-24172V451 V 16 FUS board)-25173753 VB-27153VB733 VL-28173 VD29173 VD20173 VD21172VD22172VP23173 VD24173 VD <t< td=""><td>in NoSymbolNameActive253Signal ground-21510015310015100410015100514400212410071001241007100124100101241001001112412410010124124100111241241001212412410013124124100141241241001512412410016111241101712412411018117124110191171241101011712411011124110110121241101101311611011014110110110151101101101611011011017110110110181101101101911011011010110110110111101101101212012011013110110110141401101101511011011016</td></t<> <td>1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[14] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 20 +5.1VA 210 +5.1VA 6 SG 7 NC 21 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC 2N705 PS-ACC (C Pin No Symbol 1 PWR-EN 3 -12VB<</td> <td>Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CN126) <-> COIN CONTROLLER (OPT
Name
Paper size signal
Full-color mode signal
Black and white mode signal
+5.1 V
Signal ground
Not connected
Power supply enable signal
AC main power down signal
-12 V
Signal ground
+12 V
Signal ground
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Signal ground
+13.3 V
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+5.1 V
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+5.1 V</td> <td>Active Active Active Active Active </td> <td>9
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LED driver output-15
LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-0
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-4
Button scanning signal-2
Button scanning return signal-0
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
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Button scanning return signal-7
Button scanning return signal scan-8
Button scanning return signal scan-9
Signal ground
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 | in NoSymbolNameActive253Signal ground-21510015310015100410015100514400212410071001241007100124100101241001001112412410010124124100111241241001212412410013124124100141241241001512412410016111241101712412411018117124110191171241101011712411011124110110121241101101311611011014110110110151101101101611011011017110110110181101101101911011011010110110110111101101101212012011013110110110141401101101511011011016
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[14] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 20 +5.1VA 210 +5.1VA 6 SG 7 NC 21 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC 2N705 PS-ACC (C Pin No Symbol 1 PWR-EN 3 -12VB<

 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CN126) <-> COIN CONTROLLER (OPT
Name
Paper size signal
Full-color mode signal
Black and white mode signal
+5.1 V
Signal ground
Not connected
Power supply enable signal
AC main power down signal
-12 V
Signal ground
+12 V
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LED driver output-15
LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-0
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-4
Button scanning signal-2
Button scanning return signal-0
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-4
Button scanning return signal-4
Button scanning return signal-7
Button scanning return signal-7
Button scanning return signal scan-8
Button scanning return signal scan-9
Signal ground
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Signal ground
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Signal |
| LT.V.ITUTO2FORM ground-3FORM ground-4FORM ground-5FORM ground-6FORM ground-7FORFORM ground8FORM ground-10FORFORM ground11FORM ground-12FORM ground-13FORM ground-14SECOTO Signal ground-15FORM ground-16FORM ground-17FORM ground-18FORM ground-19FORM ground-19FORM ground-10FORM ground-11FORM ground-12FORM ground-13FORM ground-14SECOTON ground-15FORM ground-16FORM ground-17FORM ground-18FORM ground-19FORM ground-10FORM ground-11FORM ground-12FORM ground-13FORM ground-14FORM ground-15FORM ground-16FORM ground-17FORM ground-18FORM ground-19FORM ground-11FORM ground-11FORM ground </td <td></td> <td>- -</td> <td>1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 114 AD[6] 114 AD[6] 114 AD[6] 114 AD[6] 114 AD[6] 115 SG 116 AD[2] 117 AD[6] 118 +3.3VA 19 +5.1VA CN126 PWA-F-SYS COPY KEY Pin No Symbol 1 1 L/S 2 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6</td> <td>Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CARD (OPTION)
Name
Paper size signal
Full-color mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Common et all the signal
Power supply enable signal
AC main power down signal
+12 V
Signal ground
+12 V
Signal ground
+12 V
Signal ground
+3.3 V
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Signal ground
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To6) <-> PWA-F-LGC (CN311),
(CN431)</td> <td></td> <td>9
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LED driver output-15
LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-3
Button scanning signal-3
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-4
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Button scanning return signal-9
U2) <-> LAN (10BASE-T/100
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 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 114 AD[6] 114 AD[6] 114 AD[6] 114 AD[6] 114 AD[6] 115 SG 116 AD[2] 117 AD[6] 118 +3.3VA 19 +5.1VA CN126 PWA-F-SYS COPY KEY Pin No Symbol 1 1 L/S 2 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6

 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CARD (OPTION)
Name
Paper size signal
Full-color mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Common et all the signal
Power supply enable signal
AC main power down signal
+12 V
Signal ground
+12 V
Signal ground
+12 V
Signal ground
+3.3 V
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+5.1 V
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To6) <-> PWA-F-LGC (CN311),
(CN431) | | 9
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SCN7 | LED driver output-13
LED driver output-15
LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-3
Button scanning signal-3
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-4
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Button scanning return signal-3
Button scanning return signal-9
U2) <-> LAN (10BASE-T/100
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PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CN126) <-> COIN CONTROLLER (OPT
Name
Paper size signal
Full-color mode signal
Black and white mode signal
+5.1 V
Signal ground
Not connected
Power supply enable signal
AC main power down signal
-12 V
Signal ground
+12 V
Signal ground
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LED common driver signal-0
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-4
Button scanning signal-2
Button scanning return signal-0
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal (reference
Signal ground
Laser image data (differential signal
Laser image data (differential sign</td> | - component -
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 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[14] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 2 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC 2 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC 2 PWR-EN 3 -12VB 4 SG
 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CN126) <-> COIN CONTROLLER (OPT
Name
Paper size signal
Full-color mode signal
Black and white mode signal
+5.1 V
Signal ground
Not connected
Power supply enable signal
AC main power down signal
-12 V
Signal ground
+12 V
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SCN | LED driver output-13
LED driver output-15
LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-0
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-4
Button scanning signal-2
Button scanning return signal-0
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal (reference
Signal ground
Laser image data (differential signal
Laser image data (differential sign |
| 7 Pbg
 | PPd Power ground - 9 PS Power ground - 10 PS Power ground - 11 -24001 -2401 - - 11 -24001 -240 - - - 11 -24001 -240 - - - - 11 -24001 -240 -

 | The Procent ground
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 116 AD[9] 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 21 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC CN705 PS-ACC (C Pin No Symbol 1 PWR-EN 2 PWR-EN 3 -12VA

 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CARD (OPTION)
Name
Paper size signal
Full-color mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Nonc-color mode signal
Black and white mode signal
Connected
705) <-> PWA-F-SYS (CN122)
Name
Power supply enable signal
AC main power down signal
-12 V
Signal ground
+12 V
Signal ground
+12 V
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+3.3 V
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Signal ground
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Laser shut down signal
Signal ground
+ 5.1 V</td></td<>
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[14] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 20 +5.1VA 210 +5.1VA 6 SG 7 NC 211 L/S 2 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC 20 FWR-EN 3 -12/VB 4 SG
 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
 | Active Active Active Active
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J426
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S | LED driver output-13
LED driver output-15
LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-0
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-3
Button scanning signal-2
Button scanning return signal-0
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-7
Button scanning return signal-8
Button scanning return signal-7
Button scanning return signal-7
Button scanning return signal signal ground
Laser image data (differential signal
Laser image data (differential signal
Laser image data (differential signal
Signal ground
Laser image data (differential
signal
Signal ground
Laser image data (differential signal
Signal ground
Laser shut down signal
Signal ground
+ 5.1 V |
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 | I T=3VU1 T=4V I 13 24VD1 244 V - 13 62VD1 244 V - 14 15 16 0 - 15 16 NC Not connected - 16 NC Not connected - - 17 NC Not connected - - 16 NTRUSANA Side heater ONOFF signal of Luar roller - - 16 17 NC Not connected - - 14 14 15 - - High-voltage to main needed elect 17 NA Signal ground - - - 1707 PSACC (CN707) <> PWA-FAX (CN702) (OPTION)/ FIN No Symbol Name 1707 PSACC (CN707) <> PWA-FAX (CN702) (OPTION)/ - -<
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 116 AD[9] 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 21 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC CN705 PS-ACC (C Pin No Symbol 1 PWR-DN 3 -12VA 6 SG </td <td>Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CARD (OPTION)
Name
Paper size signal
Full-color mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Signal ground
Not connected
705) <-> PWA-F-SYS (CN122)
Name
Power supply enable signal
AC main power down signal
-12 V
Signal ground
+12 V
Signal ground
+12 V
Signal ground
+3.3 V
+3.3 V
+3.3 V
+3.3 V
+3.3 V
+3.3 V
+3.3 V
+3.3 V
+3.3 V
+5.1 V
T06) <->
PWA-F-LGC (CN311),
(CN431)
Name
Signal ground
Signal ground
Power ground
Power ground
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SCN1</td> <td>LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-3
Button scanning signal-3
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-3
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Button scanning return signal-4
Button scanning return signal-5
Button scanning return signal-5
Button scanning return signal-6
Button scanning return signal-5
Button scanning return signal-6
Button scanning return signal-7
Button scanning return signal (reference
Signal ground
Not used
Signal ground
Not used
Sign</td> | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CARD (OPTION)
Name
Paper size signal
Full-color
mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Signal ground
Not connected
705) <-> PWA-F-SYS (CN122)
Name
Power supply enable signal
AC main power down signal
-12 V
Signal ground
+12 V
Signal ground
+12 V
Signal ground
+3.3 V
+3.3 V
+3.3 V
+3.3 V
+3.3 V
+3.3 V
+3.3 V
+3.3 V
+3.3 V
+5.1 V
T06) <-> PWA-F-LGC (CN311),
(CN431)
Name
Signal ground
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SCN1 | LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-3
Button scanning signal-3
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-3
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Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-5
Button scanning return signal-5
Button scanning return signal-6
Button scanning return signal-5
Button scanning return signal-6
Button scanning return signal-7
Button scanning return signal (reference
Signal ground
Not used
Signal ground
Not used
Sign |
| 1 1 1 1 Start Start 15 NC Not connected
 | → T-eve U T-eve V - 14 T24V1 T24V1 <td>$\frac{1}{12} + \frac{1}{24} \sqrt{12} + \frac{1}{24} \sqrt$</td> <td>1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[6] 115 SG 116 AD[2] 117 AD[6] 118 +3.3VA 119 +5.1VA COPY KEY PIn No Symbol 1 1 L/S 2 FULL-C 3 MONO-C 4 BW 5 +5.1VA 6 SG 7 NC 2 FULL-C 3 -12VB 4 SG 5 +12VB 4 SG 7 NC <t< td=""><td>Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CARD (OPTION)
Paper size signal
Full-color mode signal
Full-color mode signal
Black and white mode signal
+5.1 V
Signal ground
Not connected
Power supply enable signal
AC main power down signal
-12 V
Signal ground
+12 V
Signal ground
+12 V
Signal ground
+12 V
Signal ground
+12 V
Signal ground
+13.3 V
+3.3 V
+3.3 V
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+3.3 V
Signal ground
Signal ground
Sign</td><td>Active Active Active Active Active </td><td>9
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J426
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LDFC-15
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SCN</td><td>LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-3
Button scanning signal-2
Button scanning return signal-2
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-2
Button scanning return signal
Signal ground
Laser image data (differential signal
Laser image data (differential signal
Signal ground
Laser image data (differential signal
Signal ground
APC write signal
Not used
Not used
Signal ground
Laser shut down signal
Signal ground
APC write signal
Not used
Signal ground
Laser shut down signal
Signal ground
APC write signal
Signal ground
APC write signal
Signal ground
CN207) <-> PWA-F-SNS (CI</td></t<></td> | $\frac{1}{12} + \frac{1}{24} \sqrt{12} + \frac{1}{24} \sqrt$

 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[6] 115 SG 116 AD[2] 117 AD[6] 118 +3.3VA 119 +5.1VA COPY KEY PIn No Symbol 1 1 L/S 2 FULL-C 3 MONO-C 4 BW 5 +5.1VA 6 SG 7 NC 2 FULL-C 3 -12VB 4 SG 5 +12VB 4 SG 7 NC <t< td=""><td>Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CARD (OPTION)
Paper size signal
Full-color mode signal
Full-color mode signal
Black and white mode signal
+5.1 V
Signal ground
Not connected
Power supply enable signal
AC main power down signal
-12 V
Signal ground
+12 V
Signal ground
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+13.3 V
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Signal ground
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LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-3
Button scanning signal-2
Button scanning return signal-2
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-2
Button scanning return signal
Signal ground
Laser image data (differential signal
Laser image data (differential signal
Signal ground
Laser image data (differential signal
Signal ground
APC write signal
Not used
Not used
Signal ground
Laser shut down signal
Signal ground
APC write signal
Not used
Signal ground
Laser shut down signal
Signal ground
APC write signal
Signal ground
APC write signal
Signal ground
CN207) <-> PWA-F-SNS (CI</td></t<>
 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CARD (OPTION)
Paper size signal
Full-color mode signal
Full-color mode signal
Black and white mode signal
+5.1 V
Signal ground
Not connected
Power supply enable signal
AC main power down signal
-12 V
Signal ground
+12 V
Signal ground
+12 V
Signal ground
+12 V
Signal ground
+12 V
Signal ground
+13.3 V
+3.3 V
+3.3 V
+3.3 V
+3.3 V
+3.3 V
+3.3 V
+3.3 V
Signal ground
Signal ground
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LDFC-9
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SCN | LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-3
Button scanning signal-2
Button scanning return signal-2
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-2
Button scanning return signal
Signal ground
Laser image data (differential signal
Laser image data (differential signal
Signal ground
Laser image data (differential signal
Signal ground
APC write signal
Not used
Not used
Signal ground
Laser shut down signal
Signal ground
APC write signal
Not used
Signal ground
Laser shut down signal
Signal ground
APC write signal
Signal ground
APC write signal
Signal ground
CN207) <-> PWA-F-SNS (CI |
| 16 NC NC<
 | 16 100 101 101 101 18 HTRZON-TA Nide header ONOFF signal of fuser roller - 18 HTRZON-TA Side header ONOFF signal of fuser roller - 20 PSPDWN-TA Camar power down signal L 21 SG Signal ground - 22 1720 Signal ground - 23 SG Signal ground - 24 PSDWN-TA CN721 PS-HVT (OUT2) <> HVT-GRID 23 SG Signal ground - 24 PSDWD Si V - 27 +5.1 VB +5.1 V - 28 Signal ground - - 70 PSACC (CN707) <> PWA-FAX (CN702) (OPTION)/ FIN No Symbol Name 1 PIN No Symbol - Name 2 Y44 V (DFAX baard) - - 3 SG Signal ground - 4 +5.1 V FSINWB Sin V (DENSHER) -

 | NC
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[6] 114 AD[6] 114 AD[6] 114 AD[6] 114 AD[13] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 120 +5.1VA 20 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC 20 PWR-EN 2 PWR-EN 2 PWR-EN 3 -12VA 6 SG

 | Signal ground
PCI address/data bus [9]
Signal ground
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CARD (OPTION)
Name
Paper size signal
Full-color mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Signal ground
Not connected
705) <-> PWA-F-SYS (CN122)
Name
Power supply enable signal
AC main power down signal
-12 V
Signal ground
+12 V
Signal ground
+12 V
Signal ground
+3.3 V
+3.3 V
+5.1 V
T06) <-> PWA-F-LGC (CN311),
(CN431)
Name
Signal ground
Signal | - | 9
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SCN17 | LED driver output-13
LED driver output-15
LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-3
Button scanning signal-3
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-5
Button scanning return signal-5
Button scanning return signal-6
Button scanning return signal-6
Button scanning return signal-7
Button scanning return signal (reference
Signal ground
Laser image data (differential signal
Laser image data (differential signal
Signal ground
APC write signal
Not used
Laser shut down signal
Signal ground
KON Signal ground
CN207) <-> PWA-F-SNS (CN
Name
+ 5.1 V
Signal ground |
| Image: Note Nate: Note: Name 18 HTTR2DN:1A. State Nexter CNUCPF signal of fuser roller - 20 PSPDVIN-1 Actimatin needle electric - 21 SG Signal ground - 22 +12VG +12 V - 23 SG Signal ground - 24 SG Signal ground - 25 SG Signal ground - 26 FSI/W +5.1 V - 27 +5.1 VB +5.1 V - 28 SG Signal ground - 27 +5.1 VB +5.1 V - 28 YB +3.3 VB +3.3 V - 70 PS-ACC (CN707) <> PWA-FAX (CN702) (OPTION)/ FINISHER (J 599) (OPTION)/FWA-FADU (CN212) (OPTION)/ MAIN MOTOR Name - - 1 +24VD5 +24 V (to FAX beard) - 2 +24VD5 +24 V (to FAX beard) - 1 - H
 | 18 ITTRZON-TA Side heater ONIOF signal of fuser roller 1 19 ITRTRANTA Center heater ONIOF signal of fuser roller 1 20 PSPDWN-TA Center heater ONIOF signal of fuser roller 1 21 SG Signal ground 1 1 INTR Market ONIOF signal of fuser roller 22 147.08 Signal ground 1 1 INTR Market ONIOF signal of fuser roller 22 147.09 Signal ground 1 1 INTR Signal of the onion of the on

 | 18 THT2ON-IA State Name 19 THT2ON-IA Signal ground - 20 Signal ground - - 21 SG Signal ground - 22 SG Signal ground - 23 SG Signal ground - 24 SG Signal ground - 25 SVB TSVB SVV - 24 SG Signal ground - - 27 SS VB SVV - 28 SVB Signal ground - - 700 PSACC (CN707) <> PWA-FAX (CN702) (OPTION)/
FINISHER (J 599) (OPTION)/PWA-FADU (CN212) (OPTION)/
FINISHER (J 500) Ground - 1 - Herroreduction - 1 - Signal ground - 1 - Signal ground - 1 - - Signal ground
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[6] 115 SG 116 AD[2] 117 AD[6] 118 +3.3VA 119 +5.1VA COPY KEY COPY KEY CN126 PWA-F-SYS COPY KEY S 7 NC Smbol 1 1 L/S 2 FUIL-C 3 MONO-C 4 BW 5 +5.1VA 6 SG 7 NC Smbol 1 1 PWR-DN 3 -12VB <td>Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CARD (OPTION)
Paper size signal
Full-color mode signal
Full-color mode signal
Black and white mode signal
+5.1 V
Signal ground
Not connected
Not connected
Power supply enable signal
AC main power down signal
-12 V
Signal ground
+12 V
Signal ground
+12 V
Signal ground
+12 V
Signal ground
Signal ground
+13.3 V
+3.3 V
+3.3 V
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+3.3 V
Signal ground
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Active Ac</td> <td>9
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LED common driver signal-0
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Signal ground
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Signal ground
Laser image data (differential signal
Signal ground
Laser shut down signal
Signal ground
Laser shut down signal
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Laser beam position detection signal
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Button scanna</td> | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CARD (OPTION)
Paper size signal
Full-color mode signal
Full-color mode signal
Black and white mode signal
+5.1 V
Signal ground
Not connected
Not connected
Power supply enable signal
AC main power down signal
-12 V
Signal ground
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+12 V
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Signal ground
+13.3 V
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 | LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-3
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Button scanning return signal-1
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Button scanning return signal-7
Button scanning return signal-7
Button scanning return signal signal ground
Laser image data (differential signal
Laser image data (differential signal
Signal ground
Laser image data (differential signal
Signal ground
Laser shut down signal
Signal ground
Laser shut down signal
Signal ground
Laser beam position detection signal
Button scannal
Button scannal signal sound
Button scannal sound
Button scannal sound
Button scannal sound
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Button scanna sound
Button scannal sound
Button scannal sound
Button scanna |
| 20 PSPDWN-T AC main power down signal L 21 SG Signal ground - 22 F12VB - - 23 SG Signal ground - 24 SG Signal ground - 25 SG Signal ground - 26 F5.1VB +5.1VF - 27 +5.1VB +5.1VF - 27 +5.1VB +5.1VF - 27 +5.1VB +5.1VF - 20 +3.3VB Topper Job Signal ground - 30 +3.3VB Topper Job Signal ground - 1 IMBNO Signal ground - - 1 +10 Signal ground - 2 +24/VB +24 V (to FAX bard) - 2 +24/VD +24 V (to FAX bard) - 3 SG Signal ground - 1 +10 High-voltage to transer guade bas 1
 | 20 PSPDWN-1 AC main power down signal L 21 SG Signal ground - 22 +12/VB +12/V - 23 SG Signal ground - 24 SG Signal ground - 25 SG Signal ground - 26 +5.1V +5.1 V - 27 +5.1VB +5.1 V - 26 +5.1VB +5.1 V - 27 +5.1VB +5.1 V - 28 SG Signal ground - 30 >53.VE >S.S.V Signal ground - 78 SG Signal ground - - 1 +24/VD +24/VD +24/VI FAIN Signal ground - 1 +24/VD +24/VI FAIN Signal ground - - 1 +24/VD +24/VI FAIN Signal ground - - 1 +2

 | 20 PSPOWN-T AC main power down signal L 21 SG Signal ground - 22 13K Signal ground - 23 SG Signal ground - 24 SG Signal ground - 24 SG Signal ground - 25 SG Signal ground - 26 F5/TVB F5.1 VI - 27 F5/TVB F5.1 VI - 28 SG Signal ground - 27 F5/TVB F5.1 VI - 28 SG Signal ground - 1707 PS-ACC (CN707) <> PWA-FAX (CN702) (OPTION)/
FINISHER - 1 FOS Signal ground - 1 PG Signal ground - 1 PG Signal ground - 1 PG Power ground - 1 PG Power ground - 1 PS/FOS
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 116 AD[13] 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[2] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 6 SG 7 NC 20 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC 20 PWR-DN 3 -12VA

 | Signal ground
PCI address/data bus [9]
Signal ground
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CARD (OPTION)
Name
Paper size signal
Full-color mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Signal ground
Not connected
Not connected
Signal ground
Signal ground
+12 V
Signal ground
+12 V
Signal ground
Signal gr | Image: constraint of the second sec | 9
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LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-3
Button scanning signal-3
Button scanning signal-3
Button scanning return signal-0
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal
Signal ground
Laser image data (differential signal
Signal ground
Laser image data (differential signal
Signal ground
Laser shut down signal
Signal ground
Laser shut down signal
Signal ground
Laser shut down signal
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Laser shut down signal
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Laser shut down signal
Signal ground
Laser beam position detection signal
Si |
| ∠∠ 112VIs 112V
 | 22 112.VU 112.VU Name 23 SG Signal ground - 24 SG Signal ground - 25 SG Signal ground - 26 +5.1V +5.1V - 27 +5.1VB +5.1 - 28 SG Signal ground - 29 SG Signal ground - 20 +3.3V - - 70 PSACC (CN707) <> PWA-FAX (CN702) (OPTION)/ FINISHER (J 599) (OPTION)/PWA-F-ADU (CN212) (OPTION)/ FINISHER (J 599) (OPTION)/PWA-F-ADU (CN212) (OPTION)/ - High-voltage to transfer charger Ei 7 PG Signal ground - - 30 +5.1VE - - - 7 PG Signal ground - - 7 PG Signal ground - - 11 +24/UD +24/U (D 40U) - - 12 +24/UD +24/U (D 40U) - - 11 +24/UD +24/U (D 40U) - - </td <td>$z_{d}$$1/2v_{d}$<th< td=""><td>1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 114 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 22 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC 2 FUR-DN 3 -12VB 4 SG 5 +12VB 6 SG 7 NC 2 PWR-DN</td><td>Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
+5.1 V
+5.1 V
Signal (CN126)
Name
Paper size signal
Full-color mode signal
Black
and white mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Signal ground
Not connected
705)
Name
Power supply enable signal
AC main power down signal
+12 V
Signal ground
+12 V
Signal ground
+12 V
Signal ground
+3.3 V
+3.3 V
+3.3 V
+3.3 V
Signal ground
Signal ground
+5.1 V
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SCN</td><td>LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-3
Button scanning signal-2
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-4
Button scanning return
signal-4
Button scanning return signal-5
Button scanning return signal-7
Button scanning return signal-8
Button scanning return signal-8
Button scanning return signal-8
Button scanning return signal-9
X
Signal ground
Not used
Not used
Not used
Not used
Signal ground
Laser image data (differential signal
Laser image data (differential signal
Laser image data (differential signal
Signal ground
APC write signal
Not used
Laser shut down signal
Signal ground
APC write signal
Not used
Laser shut down signal
Signal ground
Laser beam position detection signal
T) <-> HVT-MAIN
Name
High-voltage to main needle elector</td></th<></td> | z_{d} $1/2v_{d}$ <th< td=""><td>1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 114 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 22 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC 2 FUR-DN 3 -12VB 4 SG 5 +12VB 6 SG 7 NC 2 PWR-DN</td><td>Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
+5.1 V
+5.1 V
Signal (CN126)
Name
Paper size signal
Full-color mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Signal ground
Not connected
705)
Name
Power supply enable signal
AC main power down signal
+12 V
Signal ground
+12 V
Signal ground
+12 V
Signal ground
+3.3 V
+3.3 V
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Signal ground
Signal ground
+5.1 V
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PWA-F-DSP
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SCN</td><td>LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-3
Button scanning signal-2
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-4
Button scanning return signal-4
Button scanning return signal-5
Button scanning return signal-7
Button scanning return signal-8
Button scanning return signal-8
Button scanning return signal-8
Button scanning return signal-9
X
Signal ground
Not used
Not used
Not used
Not used
Signal ground
Laser image data (differential signal
Laser image data (differential signal
Laser image data (differential signal
Signal ground
APC write signal
Not used
Laser shut down signal
Signal ground
APC write signal
Not used
Laser shut down signal
Signal ground
Laser beam position detection signal
T) <-> HVT-MAIN
Name
High-voltage to main needle elector</td></th<> | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 114 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 22 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC 2 FUR-DN 3 -12VB 4 SG 5 +12VB 6 SG 7 NC 2 PWR-DN

 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [4]
Signal ground
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
+5.1 V
+5.1 V
Signal (CN126)
Name
Paper size signal
Full-color mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Signal ground
Not connected
705)
Name
Power supply enable signal
AC main power down signal
+12 V
Signal ground
+12 V
Signal ground
+12 V
Signal ground
+3.3 V
+3.3 V
+3.3 V
+3.3 V
Signal ground
Signal ground
+5.1 V
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SCN | LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-3
Button scanning signal-2
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-4
Button scanning return signal-4
Button scanning return signal-5
Button scanning return signal-7
Button scanning return signal-8
Button scanning return signal-8
Button scanning return signal-8
Button scanning return signal-9
X
Signal ground
Not used
Not used
Not used
Not used
Signal ground
Laser image data (differential signal
Laser image data (differential signal
Laser image data (differential signal
Signal ground
APC write signal
Not used
Laser shut down signal
Signal ground
APC write signal
Not used
Laser shut down signal
Signal ground
Laser beam position detection signal
T) <-> HVT-MAIN
Name
High-voltage to main needle elector |
| 4 1>0 Signal ground - 25 SG Signal ground (b US board) - 26 +5.1V8 +5.1 V - 27 +5.1V8 +5.1 V - 28 +5.1V8 +5.1 V - 29 SG Signal ground - 30 +3.3V8 +3.3 V - 1 - High-voltage to developer charger 10 FO/Signal ground - 11 +3.3V8 +3.3 V 1 FO Signal ground - 1 FG Signal ground - 1 FG Signal ground - 2 Signal ground - - 2 Signal ground - - 2 Signal ground - - 3 51/08 Signal ground - 1 +24VD2 +24 V (to FAIX beard) - 1 +24VD2 +24 V (to ADU) -
 | e4 iso isignal ground - 25 Signal ground - - 26 +5.1VB +5.1V - - 28 +5.1VB +5.1V - - 28 Signal ground - - - 28 Signal ground - - - 30 +3.3VB +3.3V - - 70 PS-ACC (CN707) <> PWA-FAX (CN702) (OPTION)/
FINISHER (J 599) (OPTION)/PWA-F-ADU (CN212) (OPTION)/
MAIN MOTOR Name - 70 PS-MCC (DN707) <> PWA-FAX (CN702) (OPTION)/
MAIN MOTOR Name Active - 7 PG Signal ground - - 3 +5.1VB +5.1V (b FAX isord) - - 3 +24.4VD5 +24.4V (b FAX isord) - - 7 PG Signal ground - - 1 +24.4VD5 +24.4V (b FAX isord) - - 1 +24.4VD5 +24.4V (b ADU) - -

 | 4 350 Isignal ground - 25 SG Signal ground for US board) - 26 155 Signal ground for US board) - 27 +551WB +51.1V (b FUS board) - 28 +51.0WB +51.1V - - 20 +33.0W +33.0V - - 100 PG Signal ground - - 2 +24.0V (b FAX board) - - - 3 +100 ⁻ Name - - 1 +24.0V (b FAX board) - - - 2 +24.0V (b FNISHER) - - - 11 +24.0V (b ADU) - - -
 | IU2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[2] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 6 SG 7 NC 21 FUL-C 3 MONO-C 7 NC 21 FUL-C 3 MONO-C 21 FUL-C 3 MONO-C 21 SG 7 NC 21 SG 3 +12VB

 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [2]
PCI address/data bus [2]
PAC address/data bus [2]
PAC address/data bus [2]
Power supply enable signal
AC main power down signal
-12 V
Signal ground
+12 V
Signal ground
+12 V
Signal ground
+12 V
Signal ground
-12 V
Signal ground
-13 N
-13 N
-14 -12 N
Signal ground
-14 -12 V
Signal ground
-15 N
-15 N
-16 -17 N
Signal ground
Signal ground
Power ground
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LED common driver signal-0
LED common driver signal-0
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-3
Button scanning signal-4
Button scanning signal-2
Button scanning return signal-0
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-7
Button scanning return signal-4
Button scanning return signal
Signal ground
Laser image data (differential signal
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Signal ground
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Signal ground
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 | IU2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 22 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC 2 FUR-DN 3 -12VB 6 SG 7 NC 2 PWR-DN 3 -12VB

 | Signal ground
PCI address/data bus [9]
Signal ground
PCI address/data bus [6]
PCI address/data bus [6]
PCI address/data bus [2]
PCI address/data bus [2]
Paul color mode signal
Address [2]
POW = supply enable signal
AC main power down signal of [2]
Power ground
Power ground
Pow | - | 9
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LED driver output-15
LED common driver signal-0
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LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
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Button scanning return signal-3
Button scanning return signal-4
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Button scanning return signal-4
Button scanning return signal signal spound
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Signal ground
Laser image data (differential signal
Laser image data (differential signal
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Laser image data (differential signal
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Laser image data (differential signal
Signal ground
Laser shut down signal
Signal ground
Laser beam position detection signal
Signal ground
Laser beam position detection signal
Signal ground
Laser beam position detection signal
High-voltage to main needle electro
Name
High-voltage to main charger grid |
| 29 SG Signal ground - 30 +3.3VB +3.3V - 21 +3.3VB +3.3V - 10 +3.3VB +3.3V - 10 FG Signal ground - 11 FG Signal ground - 12 +24VB +24V1(b FAX board) - 12 +24VB +24V1(b FAX board) - 12 +24V10 +5.1V (connected - 14 +5.1V (connected - - 15 NC Not connected - 14 +24VD2 +24V (b ADU) - - 15 +24VD2 +24V (b ADU) - - 16 +24VD2 +24V (b ADU) - - 17 FG Formal motor - - 16 +24VD1 +24V (b ADU) - - 15 +24VD1 +24V (b ADU) - - 16 +24VD1 </td <td>23 SG Signal ground - 30 +3.3VB +3.3V - N707 PS-ACC (CN707) <-> PWA-FAX (CN702) (OPTION)/
FINISHER (J 599) (OPTION)/PWA-F-ADU (CN212) (OPTION)/
MAIN MOTOR Name 1 - Pin No Symbol Name - - - NC NC NUTO PS-ACC (CN707) <-> PWA-FAX (CN702) (OPTION)/
FINISHER (J 599) (OPTION)/PWA-F-ADU (CN212) (OPTION)/
MAIN MOTOR CN724 PS-HVT (OUT5) <-> HVT-SEP Pin No Symbol Name -<!--</td--><td>29 SG Signal ground - 20 +3.3 W - - 1707 PS-ACC (CN707) <> PWA-FAX (CN702) (OPTION)/
FINISHER (J 599) (OPTION)/PWA-F-ADU (CN212) (OPTION)/
MAIN MOTOR - - 1707 PS-ACC (STOT) <> PWA-FAX (CN702) (OPTION)/
FINISHER (J 599) (OPTION)/PWA-F-ADU (CN212) (OPTION)/
MAIN MOTOR Name - 1 PG Signal ground - - 2 +24V8 +24V (Io FAX board) - - 3 SG Signal ground - - 4 +51 V8 +51 V (Io FINISHER) - - 5 NC Nct connected - - 7 PG Signal ground - - 1 +24V02 +24V (to FINISHER) - - 1 +24V02 +24V (to ADU) - - 12 +24V02 +24V (to ADU) - - 14 PG Power ground - - 15 +24V01 +24V (to main motor) - -</td><td>1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 22 FULL-C 3 MONO-C 3 MONO-C 21 FUL-C 3 MONO-C 2 FUL-C 3 MONO-C 2 FUR-D 3 -12VA 6 SG 7 NC 2 PWR-EN 2 PWR-EN</td><td>Signal ground
PCI address/data bus [9]
Signal ground
PCI address/data bus [6]
PCI address/data bus [2]
PCI address/data bus [2]
Page size signal
Mono-color mode signal
Black and white mode signal
Hat white mode signal
Black and white mode signal
Hat white mode signal
Not connected
705) <-> PWA-F-SYS (CN122)
Name
Power supply enable signal
AC main power down signal
1-12 V
Signal ground
+12 V
Signal ground
Signal ground
Power ground
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SCN14</td><td>LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-3
Button scanning signal-3
Button scanning signal-3
Button scanning return signal-0
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal
Signal ground
Laser image data (differential signal
Laser image data (differential signal
Laser image data (differential signal
Signal ground
Laser image data (differential signal
Laser image data (differential signal
Laser image data (differential signal
Signal ground
Laser i</td></td> | 23 SG Signal ground - 30 +3.3VB +3.3V - N707 PS-ACC (CN707) <-> PWA-FAX (CN702) (OPTION)/
FINISHER (J 599) (OPTION)/PWA-F-ADU (CN212) (OPTION)/
MAIN MOTOR Name 1 - Pin No Symbol Name - - - NC NC NUTO PS-ACC (CN707) <-> PWA-FAX (CN702) (OPTION)/
FINISHER (J 599) (OPTION)/PWA-F-ADU (CN212) (OPTION)/
MAIN MOTOR CN724 PS-HVT (OUT5) <-> HVT-SEP Pin No Symbol Name - </td <td>29 SG Signal ground - 20 +3.3 W - - 1707 PS-ACC (CN707) <> PWA-FAX (CN702) (OPTION)/
FINISHER (J 599) (OPTION)/PWA-F-ADU (CN212) (OPTION)/
MAIN MOTOR - - 1707 PS-ACC (STOT) <> PWA-FAX (CN702) (OPTION)/
FINISHER (J 599) (OPTION)/PWA-F-ADU (CN212) (OPTION)/
MAIN MOTOR Name - 1 PG Signal ground - - 2 +24V8 +24V (Io FAX board) - - 3 SG Signal ground - - 4 +51 V8 +51 V (Io FINISHER) - - 5 NC Nct connected - - 7 PG Signal ground - - 1 +24V02 +24V (to FINISHER) - - 1 +24V02 +24V (to ADU) - - 12 +24V02 +24V (to ADU) - - 14 PG Power ground - - 15 +24V01 +24V (to main motor) - -</td> <td>1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 22 FULL-C 3 MONO-C 3 MONO-C 21 FUL-C 3 MONO-C 2 FUL-C 3 MONO-C 2 FUR-D 3 -12VA 6 SG 7 NC 2 PWR-EN 2 PWR-EN</td> <td>Signal ground
PCI address/data bus [9]
Signal ground
PCI address/data bus [6]
PCI address/data bus [2]
PCI address/data bus [2]
Page size signal
Mono-color mode signal
Black and white mode signal
Hat white mode signal
Black and white mode signal
Hat white mode signal
Not connected
705) <-> PWA-F-SYS (CN122)
Name
Power supply enable signal
AC main power down signal
1-12 V
Signal ground
+12 V
Signal ground
Signal ground
Power ground
Power ground
Power ground
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Pin No</td> <td>LDFC-9
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LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-3
Button scanning signal-3
Button scanning signal-3
Button scanning return signal-0
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal
Signal ground
Laser image data (differential signal
Laser image data (differential signal
Laser image data (differential signal
Signal ground
Laser image data (differential signal
Laser image data (differential signal
Laser image data (differential signal
Signal ground
Laser i</td>
 | 29 SG Signal ground - 20 +3.3 W - - 1707 PS-ACC (CN707) <> PWA-FAX (CN702) (OPTION)/
FINISHER (J 599) (OPTION)/PWA-F-ADU (CN212) (OPTION)/
MAIN MOTOR - - 1707 PS-ACC (STOT) <> PWA-FAX (CN702) (OPTION)/
FINISHER (J 599) (OPTION)/PWA-F-ADU (CN212) (OPTION)/
MAIN MOTOR Name - 1 PG Signal ground - - 2 +24V8 +24V (Io FAX board) - - 3 SG Signal ground - - 4 +51 V8 +51 V (Io FINISHER) - - 5 NC Nct connected - - 7 PG Signal ground - - 1 +24V02 +24V (to FINISHER) - - 1 +24V02 +24V (to ADU) - - 12 +24V02 +24V (to ADU) - - 14 PG Power ground - - 15 +24V01 +24V (to main motor) - -
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 22 FULL-C 3 MONO-C 3 MONO-C 21 FUL-C 3 MONO-C 2 FUL-C 3 MONO-C 2 FUR-D 3 -12VA 6 SG 7 NC 2 PWR-EN 2 PWR-EN
 | Signal ground
PCI address/data bus [9]
Signal ground
PCI address/data bus [6]
PCI address/data bus [2]
PCI address/data bus [2]
Page size signal
Mono-color mode signal
Black and white mode signal
Hat white mode signal
Black and white mode signal
Hat white mode signal
Not connected
705) <-> PWA-F-SYS (CN122)
Name
Power supply enable signal
AC main power down signal
1-12 V
Signal ground
+12 V
Signal ground
Signal ground
Power ground
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 | LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-3
Button scanning signal-3
Button scanning signal-3
Button scanning return signal-0
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal
Signal ground
Laser image data (differential signal
Laser image data (differential signal
Laser image data (differential signal
Signal ground
Laser image data (differential signal
Laser image data (differential signal
Laser image data (differential signal
Signal ground
Laser i |
| Pin No Symbol Name 1
 | NTOT PS-ACC (CN707) <> PWA-FAX (CN702) (OPTION)/
FINISHER (J 599) (OPTION)/PWA-F-ADU (CN212) (OPTION)/
MAIN MOTOR Name 1 1 1 High-voltage to transfer charger bit Pin No Symbol Name Active 1 - High-voltage to transfer charger bit 2 +24VB +24 V (to FAX board) - - - High-voltage to separation charger 3 SG Signal ground - - - High-voltage to separation charger 4 +5:1V8 +5:1V1 (to FINISHER) - - - - 5 NC Not connected - - - - 6 +24VD5 +24 V (to FAX board) - - - 12 +24VD2 +24 V (to Charber ground - - - 13 +24VD2 +24 V (to ADU) - - - 14 PG Power ground - - - 14 PG Power ground - - - 12 *24

 | In No Symbol Name 1707 PS-ACC (CN707) <-> PWA-FAX (CN702) (OPTION)/
FINISHER (J 599) (OPTION)/PWA-FADU (CN212) (OPTION)/
MAIN MOTOR Name 1
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 114 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 22 FULL-C 3 MONO-C 3 HONO-C 4 B/W 5 +5.1VA 6 SG 7 NC 2 FUR-DN 3 -12VB 6 SG 7 NC 2 PWR-DN 3 -12VA

 | Signal ground PCI address/data bus [9] Signal ground Command and byte enable-0 +3.3 V PCI address/data bus [6] PCI address/data bus [2] C(N126) <-> COIN CONTROLLER (OPT CARD (OPTION) Name Paper size signal Full-color mode signal Black and white mode signal Black and white mode signal Power supply enable signal AC main power down signal -12 V Signal ground +12 V Signal ground Signal ground Signal ground < | Active | 9
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J426
Pin No
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LDFC-13
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SC | LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-4
Button scanning signal-3
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-5
Button scanning return signal-3
Button scanning return signal
CN206) <-> PER-F-LDR (C2
Name
Signal ground
Laser image data (differential signal
Signal ground
Laser image data (differential signal
Laser image data (differential signal
Laser image data (differential signal
Signal ground
Laser beam position detection signal
Signal ground
Laser beam position detection signal
Signal ground
Laser beam position detection signal
Signal ground
Laser beam position detection signal
High-voltage to main needle electron
Signal ground
High-voltage to developer charger
High-voltage to developer charger
High-volt |
| Finster (J 599) (OPTION)/PWA-F-ADU (CN212) (OPTION)/ MAIN MOTOR Pin No Symbol Name Active 2 +244 V (to FAX board) - 3 SG Signal ground - 4 +5.1V (to FAX board) - 5 NC Not connected - 6 NC Not connected - 7 PG Signal ground - 8 +24VD5 +24 V (to FNISHER) - 10 PG Power ground - 11 +24VD2 +24 V (to ADU) - 12 +24VD2 +24 V (to ADU) - 13 PG Power ground - 14 PG Power ground - 15 +24 V(to main motor) - - 16 +24 VD1 +24 V (to main motor) - 16 +24 VD1 +24 V (to main motor) - 16 +24 VD1 +24 V (to main motor) - 16 +24 VD1 +24 V (to main motor) - <td< td=""><td>Hinsher (J 599) (OPTION)/PWA-F-ADU (CN212) (OPTION)/
MAIN MOTOR CN725 PS-HVT (OUT5) <> HVT-SEP Pin No Symbol Name Active 1 PCO Signal ground 2 +224VB +24V (to FAX board) 3 SG Signal ground 4 +5.1VB +5.1V (to TNISHER) 5 NC Not connected 7 PG Signal ground 8 +24VD5 +24 V (to FNISHER) 9 PG Power ground </td><td>Image: Consequence of the index density of item () Finisher (J 599) (OPTION)/PWA-F-ADU (CN212) (OPTION)/
MAIN MOTOR In No Symbol Name Active 1 PG Signal ground - 2 +24VU +24 V (to FAX board) - 3 SG Signal ground - 4 +5.1VB +5.1V (to FINSHER) - 5 NC Not connected - 7 PG Signal ground - 1 +24VD5 +24 V (to FINSHER) - 1 +24VD2 +24 V (to INISHER) - 1 +24VD2 +24 V (to ADU) - 1 +24VD2 +24 V (to ADU) - 1 +24VD2 +24 V (to ADU) - 1 +24VD1 +24 V (to Math motor) - 1 +24VD1 +24 V (to Math motor) - 1 +24 VD1 +24 V (to Math motor) - 1 +24 VD1 +24 V (to Math motor) - 1 +24 VD1 +24 V (to ADU) - 1 +</td><td>1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 114 AD[2] 117 AD[6] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 22 FULL-C 3 MONO-C 4 BW 5 +5.1VA 6 SG 7 NC 2 FUR-DN 3 -12VB 4 SG 5 +12VB 6 SG 7 NC 2 PWR-DN <t< td=""><td>Signal ground
PCI address/data bus [9]
Signal ground
PCI address/data bus [6]
PCI address/data bus [2]
PCI address/data bus [2]
Pare size signal
Full-color mode signal
Power sound
Power sound
Power ground
Power td><td>Active Active ctive A</td><td>9
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J426
Pin No
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(ID-)FA2
(RD-)FA6
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LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-7
Button scanning signal-2
Button scanning return signal-7
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-7
Button scanning return signal-4
Button scanning return signal (reference
Signal ground
Laser image data (differential signal
Laser image data (differential signal
Signal ground
Laser image data (differential signal
Signal ground
Laser shut down signal
Signal ground
Laser beam position detection signal
FI) <-> HVT-MAIN
Name
High-voltage to main charger grid
T3) <-> HVT-DEV
Name
High-voltage to developer charger
FI) <-> HVT-TR</td></t<></td></td<> | Hinsher (J 599) (OPTION)/PWA-F-ADU (CN212) (OPTION)/
MAIN MOTOR CN725 PS-HVT (OUT5) <> HVT-SEP Pin No Symbol Name Active 1 PCO Signal ground 2 +224VB +24V (to FAX board) 3 SG Signal ground 4 +5.1VB +5.1V (to TNISHER) 5 NC Not connected 7 PG Signal ground 8 +24VD5 +24 V (to FNISHER) 9 PG Power ground

 | Image: Consequence of the index density of item () Finisher (J 599) (OPTION)/PWA-F-ADU (CN212) (OPTION)/
MAIN MOTOR In No Symbol Name Active 1 PG Signal ground - 2 +24VU +24 V (to FAX board) - 3 SG Signal ground - 4 +5.1VB +5.1V (to FINSHER) - 5 NC Not connected - 7 PG Signal ground - 1 +24VD5 +24 V (to FINSHER) - 1 +24VD2 +24 V (to INISHER) - 1 +24VD2 +24 V (to ADU) - 1 +24VD2 +24 V (to ADU) - 1 +24VD2 +24 V (to ADU) - 1 +24VD1 +24 V (to Math motor) - 1 +24VD1 +24 V (to Math motor) - 1 +24 VD1 +24 V (to Math motor) - 1 +24 VD1 +24 V (to Math motor) - 1 +24 VD1 +24 V (to ADU) - 1 +
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 114 AD[2] 117 AD[6] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 22 FULL-C 3 MONO-C 4 BW 5 +5.1VA 6 SG 7 NC 2 FUR-DN 3 -12VB 4 SG 5 +12VB 6 SG 7 NC 2 PWR-DN <t< td=""><td>Signal ground
PCI address/data bus [9]
Signal ground
PCI address/data bus [6]
PCI address/data bus [2]
PCI address/data bus [2]
Pare size signal
Full-color mode signal
Power sound
Power sound
Power ground
Power td><td>Active Active ctive A</td><td>9
10
11
12
13
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15
16
J426
Pin
No
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Signal ground
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Name
Button scanning signal-5
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Button scanning signal-2
Button scanning return signal-7
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Button scanning return signal-3
Button scanning return signal-4
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Button scanning return signal (reference
Signal ground
Laser image data (differential signal
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Signal ground
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Signal ground
Laser shut down signal
Signal ground
Laser beam position detection signal
FI) <-> HVT-MAIN
Name
High-voltage to main charger grid
T3) <-> HVT-DEV
Name
High-voltage to developer charger
FI) <-> HVT-TR</td></t<> | Signal ground
PCI address/data bus [9]
Signal ground
PCI address/data bus [6]
PCI address/data bus [2]
PCI address/data bus [2]
Pare size signal
Full-color mode signal
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LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-7
Button scanning signal-2
Button scanning return signal-7
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-7
Button scanning return signal-4
Button scanning return signal (reference
Signal ground
Laser image data (differential signal
Laser image data (differential signal
Signal ground
Laser image data (differential signal
Signal ground
Laser shut down signal
Signal ground
Laser beam position detection signal
FI) <-> HVT-MAIN
Name
High-voltage to main charger grid
T3) <-> HVT-DEV
Name
High-voltage to developer charger
FI) <-> HVT-TR |
| MAIN MOTOR Pin No Symbol Name Active 2 +24VB +24 V (to FAX board) - 3 SG Signal ground - 4 +5.1VB +5.1 V (to FNISHER) - 5 NCC Not connected - 6 NC Not connected - 7 PG Signal ground - 8 +24VD5 +24 V (to FNISHER) - 9 PG Power ground - 11 +24VD2 +24 V (to FNISHER) - 12 +24VD2 +24 V (to FNISHER) - 11 +24VD2 +24 V (to ADU) - 12 +24VD2 +24 V (to ADU) - 13 PG Power ground - 14 PG Power ground - 15 +24VD1 +24 V (to ADU) - 14 PG Power ground - 15 +24VD1 +24 V (to ADU
 | MAIN MOTOR Pin No Symbol Name Active 1 PC3 Signal ground - 2 +224VB +224 V (io FAX board) - 3 SG Signal ground - 4 +5.1VB +5.1V (io FINISHER) - 5 NC Not connected - 6 NC Not connected - 7 PC Signal ground - 11 +224VD5 +224 V (io FINISHER) - 9 PC Power ground - 11 +224VD2 +224 V (io ADU) - 12 +224VD1 +24 V (io ADU) - 13 PG Power ground - 14 PC Power ground - 15 +224VD1 +24 V (to main motor) - 15 +224VD1 +24 V (to main motor) - 15 +24VD1 +24 V (to BADF) - 15 +51VB +5.1 V

 | MAIN MOTOR IN No Symbol Name Active 1 PG Signal ground - 2 +24VB +24 V (to FAX board) - 3 SG Signal ground - 4 +5.1VB +5.1 V (to FINISHER) - 5 NC Not connected - 7 PG Signal ground - 1 +24VD5 +24 V (to FINISHER) - 7 PG Signal ground - 11 +24VD2 +24 V (to ADU) - 12 +24VD2 +24 V (to ADU) - 13 PG Power ground - 14 +24VD2 +24 V (to Mau) - 15 +24VD1 +24 V (to Mau) - 16 +24VD1 +24 V (to Mau) - 15 +24VD1 +24 V (to Mau) - 16 +24VD1 +24 V (to Mau) - 17 SG Signal ground
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[15] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[6] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 22 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC CN705 PS-ACC (C Pin No Symbol 1 PWR-EN 2 PWR-EN 3 -12VA 6 SG 7 +12VB

 | Signal ground
PCI address/data bus [9]
Signal ground
PCI address/data bus [6]
PCI address/data bus [6]
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OPT
CARD (OPTION)
Paper size signal
Full-color mode signal
Full-color mode signal
Mono-color mode signal
Black and white mode signal
Mono-color mode signal
Black and white mode signal
Ac main power down signal
AC main power down signal
-12 V
Signal ground
+12 3 V
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LED driver output-15
LED common driver signal-0
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LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-3
Button scanning signal-3
Button scanning signal-3
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal
Signal ground
Laser image data (differential signal
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Signal ground
Laser image data (differential signal
Signal ground
Laser shut down signal
Signal ground
Laser shut down signal
Signal ground
Laser beam position detection signal
Signal ground
Laser beam position detection signal
Figh-voltage to main neadle electro
Button scannal paret developer charger grid |
| PG Signal ground - 2 +24VB +24 V (b FAX board) - 3 SG Signal ground - 4 +5.1V (b FAX board) - - 5 NC Not connected - 6 NC Not connected - 7 PG Signal ground - 8 +24VD5 +24 V (to FINISHER) - 9 PG Power ground - 11 +24VD2 +24 V (to ADU) - 12 +24VD2 +24 V (to ADU) - 13 PG Power ground - 14 PG Power ground - 15 +24VD1 +24 V (to ADU) - 14 PG Power ground - 15 +24 V(to main motor) - - 16 +24 V(to main motor) - - 18 SG Signal ground - 1 SG Sig
 | 1 PG Signal ground - 2 +24VB +24V (Is PAX board) - 3 SG Signal ground - 4 +5.1VB +5.1V (Is FINISHER) - 5 NC Not connected - 7 PG Signal ground - 8 +24VD5 +24 V (Is FINISHER) - 1 +24VD2 +24 V (Is ADU) - 12 +24VD2 +24 V (Is ADU) - 12 +24VD1 +24 V (Is ADU) - 13 PG Power ground - 14 PG Power ground - 14 PG Power ground - 14 PG Power ground - 16 +24VD1 +24 V (Is main motor) - 16 +24VD1 +24 V (Is main motor) - 18 Signal ground - - 14 PG Signal ground - 16 <td>1 PG Signal ground - 2 +24VB +24V (to FAX board) - 3 SG Signal ground - 4 +5.1VB +5.1V (to FINSHER) - 5 NC Not connected - 6 NC Not connected - 7 PG Signal ground - 1 +24VD5 +24V (to FINSHER) - 7 PG PG Power ground - 10 PG Power ground - - 11 +24VD2 +24V (to ADU) - - 12 +24VD1 +24V (to ADU) - - 13 PG Power ground - - 14 PG Power ground - - 15 +24VD1 +24V (to main motor) - - 15 +24VD1 +24V (to Main motor) - - 12 SG Signal ground -</td> <td>1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[15] 107 AD[11] 108 SG 109 AD[11] 108 SG 109 AD[11] 108 SG 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 114 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 21 FULL-C 3 MONO-C 4 BW 5 +5.1VA 6 SG 7 NC 2 FWR-DN 3 -12VB 4 SG 5 +12VB 6 SG <</td> <td>Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [2]
PCI address/data bus [2]
Power signal ground
+15.1 V
Power ground
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LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-7
Button scanning signal-2
Button scanning return signal-7
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-4
Button scanning return signal-4
Button scanning return signal-2
Button scanning return signal
Signal ground
Laser level control signal (reference
Signal ground
Laser image data (differential signal
Laser image data (differential signal
Signal ground
Laser shut down signal
Signal ground
Laser beam position detection signal
Signal ground
Laser be</td>
 | 1 PG Signal ground - 2 +24VB +24V (to FAX board) - 3 SG Signal ground - 4 +5.1VB +5.1V (to FINSHER) - 5 NC Not connected - 6 NC Not connected - 7 PG Signal ground - 1 +24VD5 +24V (to FINSHER) - 7 PG PG Power ground - 10 PG Power ground - - 11 +24VD2 +24V (to ADU) - - 12 +24VD1 +24V (to ADU) - - 13 PG Power ground - - 14 PG Power ground - - 15 +24VD1 +24V (to main motor) - - 15 +24VD1 +24V (to Main motor) - - 12 SG Signal ground -
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[15] 107 AD[11] 108 SG 109 AD[11] 108 SG 109 AD[11] 108 SG 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 114 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 21 FULL-C 3 MONO-C 4 BW 5 +5.1VA 6 SG 7 NC 2 FWR-DN 3 -12VB 4 SG 5 +12VB 6 SG <
 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [2]
PCI address/data bus [2]
Power signal ground
+15.1 V
Power ground
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SC | LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-7
Button scanning signal-2
Button scanning return signal-7
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-4
Button scanning return signal-4
Button scanning return signal-2
Button scanning return signal
Signal ground
Laser level control signal (reference
Signal ground
Laser image data (differential signal
Laser image data (differential signal
Signal ground
Laser shut down signal
Signal
ground
Laser beam position detection signal
Signal ground
Laser be |
| 3 SG Signal ground - 4 +5.1VB +5.1V (to FINISHER) - 5 NC Not connected - 6 NC Not connected - 7 PG Signal ground - 8 +24VD5 +24 V (to FINISHER) - 9 PG Power ground - 11 +24VD2 +24 V (to ADU) - 12 +24VD2 +24 V (to ADU) - 13 PG Power ground - 14 PG Power ground - 15 +24VD1 +24 V (to ADU) - 15 +24VD1 +24 V (to main motor) - 16 +24VD1 +24 V (to main motor) - 15 +24VD1 +24 V (to main motor) - 16 +24VD1 +24 V (to RADF) - 18 SG Signal ground - 2 SG Signal ground -
 | 3 SG Signal ground - 4 +5.1VB +5.1V (to FNISHER) - 5 NC Not connected - 6 NC Not connected - 7 PG Signal ground - 8 +24VD5 +24 V (to FNISHER) - 9 PG Power ground - 11 +24VD2 +24 V (to ADU) - 12 +24VD2 +24 V (to ADU) - 13 PG Power ground - 14 PG Power ground - 15 +24VD1 +24 V (to main motor) - 16 +24VD1 +24 V (to main motor) - 16 +24VD1 +24 V (to main motor) - 1 SG Signal ground - 2 SG Signal ground - 1 SG Signal ground - 2 SG Signal ground - 3 +5.1VB +5.1 V - 2 FDMA ADU motor dr

 | 3 SG Signal ground - 4 +5.1VB +5.1V (ib FINISHER) - 5 NC Not connected - 7 PG Signal ground - 8 +24VD5 +24 V (ib FINISHER) - 9 PG Power ground - 11 +24VD2 +24 V (ib ADU) - 12 +24VD2 +24 V (ib ADU) - 13 PG Power ground - 14 PG Power ground - 15 +24VD1 +24 V (ib main motor) - 16 +24VD1 +24 V (ib main motor) - 16 +24VD1 +24 V (ib main motor) - 1708 PS-ACC (CN708) <> PWA-F-SLG (CN6)/
RADF (CN1) (OPTION) Name Active 2 SG Signal ground - 2 SG Signal ground - 3 +5.1VB +5.1 V ADU Fluze esignal-A 3 +5.1VB -5.1 V<
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[6] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 6 SG 7 NC 20 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC 20 PWR-EN 2 PWR-EN 3 -12VA 6 SG 7 NC <tr< td=""><td>Signal ground PCI address/data bus [9] Signal ground Command and byte enable-0 +3.3 V PCI address/data bus [6] PCI address/data bus [6] PCI address/data bus [2] PCI address/data bus [3] PCI address/data bus [4] Signal ground *45.1 V *55.1 V *24 V
*24 V *24 V</td><td>- - -</td><td>9
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LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-0
LED common driver signal-1
Signal ground
Signal ground scanning signal-3
Button scanning signal-3
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal
Signal ground
Laser image data (differential signal
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Signal ground
Laser image data (differential signal</td></tr<> | Signal ground PCI address/data bus [9] Signal ground Command and byte enable-0 +3.3 V PCI address/data bus [6] PCI address/data bus [6] PCI address/data bus [2] PCI address/data bus [3] PCI address/data bus [4] Signal ground *45.1 V *55.1 V *24 V
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LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-0
LED common driver signal-1
Signal ground
Signal ground scanning signal-3
Button scanning signal-3
Button scanning return signal-1
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Button scanning return signal
Signal ground
Laser image data (differential signal
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| 3 NC Not connected 6 NC Not connected 7 PG Signal ground 8 +24VD5 +24 V (to FINISHER) 9 PG Power ground 11 +24VD2 +24 V (to ADU) 12 +24VD2 +24 V (to ADU) 13 PG Power ground 14 PG Power ground 15 +24VD1 +24 V (to ADU) 14 PG Power ground 15 +24VD1 +24 V (to main motor) 16 +24VD1 +24 V (to main motor) 1 SG Signal ground 1 SG Signal ground 1 SG Signal ground 2 SG Signal ground 2 FDMA ADU Urotor drive signal-A 5 +5.1VB
 | D NC Not connected 6 NC Not connected 7 PG Signal ground 8 +224 V[05 +24 V (Ic FINISHER) 9 PG Power ground 11 +24VD2 +24 V (Ic ADU) 12 +24VD2 +24 V (Ic ADU) 13 PG Power ground 14 PG Power ground 15 +24VD1 +24 V (Ic main motor) 16 +24VD1 +24 V (Ic main motor) 1 SG Signal ground 2

 | NU INIC connected Image: Connected <th< td=""><td>1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[15] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 114 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 22 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC CN705 PS-ACC (C Pin No Symbol 1 PWR-DN 3 -12VA 6 SG 7 NC 20 +3.3VA</td><td>Signal ground PCI address/data bus [9] Signal ground Command and byte enable-0 +3.3 V PCI address/data bus [6] PCI address/data bus [6] PCI address/data bus [2] PCI address/data bus [2] PCI address/data bus [2] PCI address/data bus [0] +3.3 V +5.1 V (CN126) <-> COIN CONTROLLER (OPT CARD (OPTION)</td><td>Active</td><td>9
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LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-4
Button scanning signal-3
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal
Signal ground
CN206) <-> PER-F-LDR (C2
Name
Signal ground
Laser image data (differential signal
Signal ground
CN207) <-> PWA-F-SNS (CP
+ 5.1 V
Signal ground
CN207) <-> PWA-F-SNS (CP
+ 5.1 V</td></th<> | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[15] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 114 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 22 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC CN705 PS-ACC (C Pin No Symbol 1 PWR-DN 3 -12VA 6 SG 7 NC 20 +3.3VA

 | Signal ground PCI address/data bus [9] Signal ground Command and byte enable-0 +3.3 V PCI address/data bus [6] PCI address/data bus [6] PCI address/data bus [2] PCI address/data bus [2] PCI address/data bus [2] PCI address/data bus [0] +3.3 V +5.1 V (CN126) <-> COIN CONTROLLER (OPT CARD (OPTION) | Active | 9
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J426
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LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-4
Button scanning signal-3
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-3
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Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal
Signal ground
CN206) <-> PER-F-LDR (C2
Name
Signal ground
Laser image data (differential signal
Signal ground
CN207) <-> PWA-F-SNS (CP
+ 5.1 V
Signal ground
CN207) <-> PWA-F-SNS (CP
+ 5.1 V |
| // 175 Signal ground - 8 +24VD5 +24 V (to FINISHER) - 9 PG Power ground - 10 PG Power ground - 11 +24VD2 +24 V (to ADU) - 12 +24VD2 +24 V (to ADU) - 13 PG Power ground - 14 PG Power ground - 15 +24VD1 +24 V (to main motor) - 16 +24VD1 +24 V (to main motor) - 16 +24VD1 +24 V (to main motor) - 16 +24VD1 +24 V (to main motor) - 17 SG Signal ground - 18 SG Signal ground - 19 No Symbol Name 1 SG Signal ground - 2 SG Signal ground - 3 +5.1VB +5.1V - 2 SG Signal ground - 3 +5.1VB +5.1V (to RADF)
 | r ⊂ s Signal ground - 8 +24VD5 +24 V (to FINISHER) - 10 PG Power ground - 11 +24VD2 +24 V (to ADU) - 12 +24VD2 +24 V (to ADU) - 13 PG Power ground - 14 PG Power ground - 15 +24VD1 +24 V (to main motor) - 16 +24VD1 +24 V (to main motor) - 17 NO8 PS-ACC (CN708) <-> PWA-F-SLG (CN6)/ RADF (CN1) (OPTION) Pin No Symbol Name 1 SG Signal ground - 2 SG Signal ground - 1 SG Signal ground - 2 SG Signal ground - 3 +5.1VB +5.1 V - 4 +5.1VB +5.1 V - 5 +5.1VB +5.1 V (to RADF) - 6 +5.1VB +5.1 V (to RADF) - 7 SG Signal ground <t< td=""><td>r · · · · · · · · · · · · · · · · · · ·</td><td>1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[12] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[2] 115 SG 116 AD[2] 117 AD[6] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 6 SG 7 NC 21 FULL-C 3 MONO-C 4 BW 5 +5.1VA 6 SG 7 NC 21 PWR-DN 3 -12VB 4 SG 5 +12VB 6 SG</td><td>Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
is5.1 V
(CN126) <-> COIN CONTROLLER (OPI
CARD (OPTION)
Paper size signal
Mono-color mode signal
Mono-color mode signal
Black and white mode signal
Hono-color mode signal
Black and white mode signal
Power supply enable signal
AC main power down signal
-12 V
Signal ground
+12 V
Signal ground
+12 V
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LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-3
Button scanning signal-2
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-7
Button scanning return signal-4
Button scanning return signal
To used
Not used
Not connected
Not used
Signal ground
Laser image data (differential signal
Signal ground
Laser image data (differential signal
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Laser image data (differential signal
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Laser beam position detection signal
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 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
is5.1 V
(CN126) <-> COIN CONTROLLER (OPI
CARD (OPTION)
Paper size signal
Mono-color mode signal
Mono-color mode signal
Black and white mode signal
Hono-color mode signal
Black and white mode signal
Power supply enable signal
AC main power down signal
-12 V
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LED driver output-15
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LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
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Button scanning signal-3
Button scanning signal-2
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-7
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Button scanning return signal
To used
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Not connected
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Signal ground
Laser image data (differential signal
Signal ground
Laser image data (differential signal
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Signal ground
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 | C Forms ground Forms ground 10 PG Power ground

 | No. Power ground - 10 PG Power ground - 11 +24VD2 +24 V (to ADU) - 12 +24VD2 +24 V (to ADU) - 13 PG Power ground - 14 PG Power ground - 15 +24VD1 +24 V (to main motor) - 16 +24VD1 +24 V (to main motor) - 1708 PS-ACC (CN708) <-> PWA-F-SLG (CN6)/ RADF (CN1) (OPTION) In No Symbol Name Active 1 SG Signal ground - 2 SG Signal ground - 3 +5.1V - - 1 SG Signal ground - 2 SG Signal ground - 3 +5.1V - - 4 +5.1V - - 5 +5.1V - - 6 +5.1VB +5.1 V (to RADF)
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[1] 115 SG 116 AD[2] 117 AD[6] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 22 FULL-C 3 MONO-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC 20 PWR-EN 21 SW 3 -12VA 6 SG 7 NC 20 +3.3VA

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LED driver output-15
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LED common driver signal-0
LED common driver signal-1
Signal ground
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Button scanning return signal-4
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-3
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| 12 +24 V (to ADU) - 13 PG Power ground - 14 PG Power ground - 15 +24 V(10 main motor) - - 16 +24 V(10 main motor) - - 16 +24 V(10 main motor) - - 17 F24 V(10 main motor) - - 16 +24 V(10 main motor) - - 17 F24 V(10 main motor) - - 18 +24 V(10 main motor) - - 19 No Symbol Name ADU = Name 1 SG Signal ground - - 1 SG Signal ground - - 2 SG Signal ground - - 3 +5.1VB +5.1V - - 4 +5.1VB +5.1 V (to RADF) - - 6 +5.1VB +5.1 V (to RADF) - - 7 SG Signal ground - - 8 SG
 | 12 12 <th< td=""><td></td><td>1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[15] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 114 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 6 SG 7 NC 22 FULL-C 3 MONO-C 4 BW 5 +5.1VA 6 SG 7 NC 21 FWR-DN 3 -12VB 4 SG 5 +12VB 6 SG</td><td>Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OP1
CARD (OPTION)
Name
Paper size signal
Full-color mode signal
Full-color mode signal
Full-color mode signal
Full-color mode signal
Black and white mode signal
Signal ground
Not connected
705) <-> PWA-F-SYS (CN122)
Power supply enable signal
AC main power down signal
-12 V
Signal ground
+12 V
Signal ground
+12 V
Signal ground
+13.3 V
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LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-7
Button scanning signal-2
Button scanning return signal-7
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-4
Button scanning return signal-4
Button scanning return signal-4
Button scanning return signal-7
Button scanning return signal-2
Button scanning return signal signal ground
Laser level control signal (reference
Signal ground
Laser shut down signal
Signal ground
Laser shut down signal
Signal ground
Laser shut down signal
Signal ground
Laser beam position detection signal
Signal ground
Laser beam position detection signal
Figh-voltage to main charger grid
Figh-voltage to transfer charger bia
Signal ground
High-voltage to transfer charger bia
Signal signal signal charger grid
High-voltage to transfer guide bias
tion roller bias
(CN213) <-> HVT-GEID
Name
High-voltage to transfer guide bias
tion roller bias</td></th<>
 |
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[15] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 114 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 6 SG 7 NC 22 FULL-C 3 MONO-C 4 BW 5 +5.1VA 6 SG 7 NC 21 FWR-DN 3 -12VB 4 SG 5 +12VB 6 SG

 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OP1
CARD (OPTION)
Name
Paper size signal
Full-color mode signal
Full-color mode signal
Full-color mode signal
Full-color mode signal
Black and white mode signal
Signal ground
Not connected
705) <-> PWA-F-SYS (CN122)
Power supply enable signal
AC main power down signal
-12 V
Signal ground
+12 V
Signal ground
+12 V
Signal ground
+13.3 V
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SCN17 | LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-5
Button scanning signal-7
Button scanning signal-2
Button scanning return signal-7
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-4
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Button scanning return signal-4
Button scanning return signal-4
Button scanning return signal-7
Button scanning return signal-2
Button scanning return signal signal ground
Laser level control signal (reference
Signal ground
Laser shut down signal
Signal ground
Laser shut down signal
Signal ground
Laser shut down signal
Signal ground
Laser beam position detection signal
Signal ground
Laser beam position detection signal
Figh-voltage to main charger grid
Figh-voltage to transfer charger bia
Signal ground
High-voltage to transfer charger bia
Signal signal signal charger grid
High-voltage to transfer guide bias
tion roller bias
(CN213) <-> HVT-GEID
Name
High-voltage to transfer guide bias
tion roller bias |
| 14 PG Power ground - 15 +24VD1 +24 V (to main motor) - 16 +24VD1 +24 V (to main motor) - 17 SG Signal ground - 1 SG Signal ground - 1 SG Signal ground - 2 SG Signal ground - 3 +5.1VB +5.1 V - 4 +5.1VB +5.1 V - 5 +5.1VB +5.1 V (to RADF) - 7 SG Signal ground - 8 SG Signal ground - 9 +3.3VB +3.3 V - 10 +3.3VB +3.3 V - 11 </td <td>14 PG Power ground - 15 +24VD1 +24 V (to main motor) - 16 +24VD1 +24 V (to main motor) - 17 SG Signal ground - 1 SG Signal ground - 2 SG Signal ground - 3 +5.1VB +5.1 V - 2 FDMA ADU motor drive signal-A 3 +5.1VB +5.1 V (to RADF) - 6 +5.1VB +5.1 V (to RADF) - 7 SG Signal ground - 10 +3.3VB +3.3 V - 10 +3.3VB +3.3 V - 11 SG Signal ground - <t< td=""><td>Image Image <th< td=""><td>1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[14] 115 SG 118 +3.3VA 118 +3.3VA 119 +5.1VA 120 +5.1VA 121 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC COPY KEY Pin No Symbol 1 L/S 2 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC</td><td>Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OP1
CARD (OPTION)
Paper size signal
Full-color mode signal
Full-color mode signal
Hult-color mode signal
Hult-color mode signal
Black and white mode signal
Black and white mode signal
Mono-color mode signal
Mono-color mode signal
Mono-color mode signal
Mono-color mode signal
Mono-color mode signal
Full-color signal ground
Not connected
705) <-> PWA-F-SYS (CN122)
Name
Power supply enable signal
AC main power down signal
-12 V
Signal ground
+12 V
Signal ground
142 V
Signal ground
153 V
143.3 V
145.1 V
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SCN14</td><td>LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-3
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Button scanning signal-2
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
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Signal ground
Laser image data (differential signal
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Signal ground
Laser beam position detection signal
Signal ground
Laser beam position detection signal
CN207) <-> PWA-F-SNS (CN
Name
High-voltage to transfer charger bia
T1) <-> HVT-MAIN
Name
High-voltage to transfer charger bia
Signal ground
CN213) <-> HVT-GB/RGT-ROL
High-voltage to transfer guide bias
tion roller bias
CN213) <-> ADU-TRL-SNR
Signal ground</td></th<></td></t<></td> | 14 PG Power ground - 15 +24VD1 +24 V (to main motor) - 16 +24VD1 +24 V (to main motor) - 17 SG Signal ground - 1 SG Signal ground - 2 SG Signal ground - 3 +5.1VB +5.1 V - 2 FDMA ADU motor drive signal-A 3 +5.1VB +5.1 V (to RADF) - 6 +5.1VB +5.1 V (to RADF) - 7 SG Signal ground - 10 +3.3VB +3.3 V - 10 +3.3VB +3.3 V - 11 SG Signal ground - <t< td=""><td>Image Image <th< td=""><td>1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[14] 115 SG 118 +3.3VA 118 +3.3VA 119 +5.1VA 120 +5.1VA 121 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC COPY KEY Pin No Symbol 1 L/S 2 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC</td><td>Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OP1
CARD (OPTION)
Paper size signal
Full-color mode signal
Full-color mode signal
Hult-color mode signal
Hult-color mode signal
Black and white mode signal
Black and white mode signal
Mono-color mode signal
Mono-color mode signal
Mono-color mode signal
Mono-color mode signal
Mono-color mode signal
Full-color signal ground
Not connected
705) <-> PWA-F-SYS (CN122)
Name
Power supply enable signal
AC main power down signal
-12 V
Signal ground
+12 V
Signal ground
142 V
Signal ground
153 V
143.3 V
145.1 V
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LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-3
Button scanning signal-3
Button scanning signal-2
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-7
Button scanning return signal-7
Button scanning return signal-7
Button scanning return signal-7
Button scanning return signal-7
Not used
Not used
Not connected
Shield
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Signal ground
Laser image data (differential signal
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Signal ground
Laser image data (differential signal
Signal ground
Laser beam position detection signal
Signal ground
Laser beam position detection signal
CN207) <-> PWA-F-SNS (CN
Name
High-voltage to transfer charger bia
T1) <-> HVT-MAIN
Name
High-voltage to transfer charger bia
Signal ground
CN213) <-> HVT-GB/RGT-ROL
High-voltage to transfer guide bias
tion roller bias
CN213) <-> ADU-TRL-SNR
Signal ground</td></th<></td></t<> | Image Image Image Image Image Image Image Image Image Image Image Image
Image Image <th< td=""><td>1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[14] 115 SG 118 +3.3VA 118 +3.3VA 119 +5.1VA 120 +5.1VA 121 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC COPY KEY Pin No Symbol 1 L/S 2 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC</td><td>Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OP1
CARD (OPTION)
Paper size signal
Full-color mode signal
Full-color mode signal
Hult-color mode signal
Hult-color mode signal
Black and white mode signal
Black and white mode signal
Mono-color mode signal
Mono-color mode signal
Mono-color mode signal
Mono-color mode signal
Mono-color mode signal
Full-color signal ground
Not connected
705) <-> PWA-F-SYS (CN122)
Name
Power supply enable signal
AC main power down signal
-12 V
Signal ground
+12 V
Signal ground
142 V
Signal ground
153 V
143.3 V
145.1 V
145.1 V
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LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-3
Button scanning signal-3
Button scanning signal-2
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
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Button scanning return signal-7
Not used
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Not connected
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Signal ground
Laser image data (differential signal
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Signal ground
Laser beam position detection signal
Signal ground
Laser beam position detection signal
CN207) <-> PWA-F-SNS (CN
Name
High-voltage to transfer charger bia
T1) <-> HVT-MAIN
Name
High-voltage to transfer charger bia
Signal ground
CN213) <-> HVT-GB/RGT-ROL
High-voltage to transfer guide bias
tion roller bias
CN213) <-> ADU-TRL-SNR
Signal ground</td></th<> | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[14] 115 SG 118 +3.3VA 118 +3.3VA 119 +5.1VA 120 +5.1VA 121 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC COPY KEY Pin No Symbol 1 L/S 2 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC

 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
+5.1 V
(CN126) <-> COIN CONTROLLER (OP1
CARD (OPTION)
Paper size signal
Full-color mode signal
Full-color mode signal
Hult-color mode signal
Hult-color mode signal
Black and white mode signal
Black and white mode signal
Mono-color mode signal
Mono-color mode signal
Mono-color mode signal
Mono-color mode signal
Mono-color mode signal
Full-color signal ground
Not connected
705) <-> PWA-F-SYS (CN122)
Name
Power supply enable signal
AC main power down signal
-12 V
Signal ground
+12 V
Signal ground
142 V
Signal ground
153 V
143.3 V
145.1 V
145.1 V
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SCN14 | LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-3
Button scanning signal-3
Button scanning signal-2
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-7
Button scanning return signal-7
Button scanning return signal-7
Button scanning return signal-7
Button scanning return signal-7
Not used
Not used
Not connected
Shield
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Signal ground
Laser image data (differential signal
Laser image data (differential signal
Laser image data (differential signal
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Laser image data (differential signal
Signal ground
Laser image data (differential signal
Signal ground
Laser beam position detection signal
Signal ground
Laser beam position detection signal
CN207) <-> PWA-F-SNS (CN
Name
High-voltage to transfer charger bia
T1) <-> HVT-MAIN
Name
High-voltage to transfer charger bia
Signal ground
CN213) <-> HVT-GB/RGT-ROL
High-voltage to transfer guide bias
tion roller bias
CN213) <-> ADU-TRL-SNR
Signal ground |
| 16 +24VD1 +24 V (to main motor) - 16 +24VD1 +24 V (to main motor) - 1708 PS-ACC (CN708) <-> PWA-F-SLG (CN6)/ Name 1 SG Signal ground 2 1 SG Signal ground - - - - - 2 SG Signal ground - - - - - 2 SG Signal ground -
 | 16 +24 VD1 +24 V (to main motor) - N708 PS-ACC (CN708) <-> PWA-F-SLG (CN6)/
RADF (CN1) (OPTION) Name 1 SG Signal ground 1 SG Signal ground - - 2 SG Signal ground - 3 +5.1VB +5.1 V - 5 +5.1VB +5.1 V - 6 +5.1VB +5.1 V (to RADF) - 7 SG Signal ground - 7 SG Signal ground - 8 SG Signal ground - 9 +3.3VB +3.3 V - 10 +3.3VB +3.3 V - 11 SG Signal ground - 12 SG Signal ground - 13 +12VB +12V - 14 SG Signal ground - 15 NC Not connected - 16 NC Not connected - 17 SG Signal ground - 13

 | 16 +24 V (to main motor) - 16 +24 V (to main motor) - 1708 PS-ACC (CN708) <-> PWA-F-SLG (CN6)/
RADF (CN1) (OPTION) Signal ground - 1 SG Signal ground - 2 SG Signal ground - 3 +5.1VB +5.1V - 4 +5.1VB +5.1V - 5 +5.1VB +5.1 V (to RADF) - 6 +5.1VB +5.1 V (to RADF) - 7 SG Signal ground - 7 SG Signal ground - 1 SG Signal ground - 6 +5.1VB +5.1 V (to RADF) - 6 +5.1VB +5.1 V (to RADF) - 7 SG Signal ground - 8 SG Signal ground - 10 +3.3VB +3.3 V - 11 SG Signal ground - 12 SG Signal ground - 13 +12VB +12V - </td <td>1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[15] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 114 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 6 SG 7 NC 22 FULL-C 3 MONO-C 4 BW 5 +5.1VA 6 SG 7 NC 21 FWR-DN 3 -12VB 6 SG 7 +12VB 6 SG</td> <td>Signal ground PCI address/data bus [9]
Signal ground Command and byte enable-0
PCI address/data bus [6]
PCI address/data bus [6]
PCI address/data bus [2]
PCI address/adata bus [2]
PCI address/data bus [2]
PARD (OPTION)
Name
Paper size signal
Full-color mode signal
Black and white mode signal
Black and white mode signal
Power supply enable signal
AC main power down signal
12 V
Signal ground
Power supply enable signal
AC main power down signal
12 V
Signal ground
12 V
Signal ground
12 V
Signal ground
12 V
Signal ground
14 2 V
Signal ground
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SCN1</td> <td>LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-3
Button scanning signal-3
Button scanning signal-3
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-7
Button scanning return signal-2
Button scanning return signal
Signal ground
Laser level control signal (reference
Signal ground
Laser image data (differential signal
Laser image data (differential signal
Laser shut down signal
Signal ground
Laser beam position detection signal
Signal ground
Laser beam position detection signal
F1) <-> HVT-GRID
Name
High-voltage to transfer charger bia
Signal ground
Laser beam position detection signal
High-voltage to transfer charger bia
Signal ground
ADC write signal
Signal ground
Laser beam position detection signal
High-voltage to transfer charger bia
Signal ground
ADC write signal
Signal ground
Laser beam position detection signal
High-voltage to transfer c</td> | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[15] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 114 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 210 +5.1VA 6 SG 7 NC 22 FULL-C 3 MONO-C 4 BW 5 +5.1VA 6 SG 7 NC 21 FWR-DN 3 -12VB 6 SG 7 +12VB 6 SG

 | Signal ground PCI address/data bus [9]
Signal ground Command and byte enable-0
PCI address/data bus [6]
PCI address/data bus [6]
PCI address/data bus [2]
PCI address/adata bus [2]
PCI address/data bus [2]
PARD (OPTION)
Name
Paper size signal
Full-color mode signal
Black and white mode signal
Black and white mode signal
Power supply enable signal
AC main power down signal
12 V
Signal ground
Power supply enable signal
AC main power down signal
12 V
Signal ground
12 V
Signal ground
12 V
Signal ground
12 V
Signal ground
14 2 V
Signal ground
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SCN1 | LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-3
Button scanning signal-3
Button scanning signal-3
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-7
Button scanning return signal-2
Button scanning return signal
Signal ground
Laser level control signal (reference
Signal ground
Laser image data (differential signal
Laser image data (differential signal
Laser shut down signal
Signal ground
Laser beam position detection signal
Signal ground
Laser beam position detection signal
F1) <-> HVT-GRID
Name
High-voltage to transfer charger bia
Signal ground
Laser beam position detection signal
High-voltage to transfer charger bia
Signal ground
ADC write signal
Signal ground
Laser beam position detection signal
High-voltage to transfer charger bia
Signal ground
ADC write signal
Signal ground
Laser beam position detection signal
High-voltage to transfer c |
| CN708 PS-ACC (CN708) <-> PWA-F-SLG (CN6)/
RADF (CN1) (OPTION) Digital ground Digital ground 1 SG Signal ground - 2 SG Signal ground - 3 +5.1VB +5.1V - 4 +5.1VB +5.1V - 5 +5.1VB +5.1 V - 6 +5.1VB +5.1 V (to RADF) - 7 SG Signal ground - 8 SG Signal ground - 9 +3.3VB +3.3 V - 10 +3.3VB +3.3 V - 11 SG Signal ground - 12 SG Signal ground - 13 +12VB +12V - 14 SG Signal ground - 15 NC
 | N708 PS-ACC (CN708) <-> PWA-F-SLG (CN6)/
RADF (CN1) (OPTION) Pin No Symbol Name Active 1 SG Signal ground - 2 SG Signal ground - 3 +5.1VB +5.1V - 4 +5.1VB +5.1V - 5 +5.1VB +5.1V (to RADF) - 6 +5.1VB +5.1V (to RADF) - 7 SG Signal ground - 9 +3.3VB +3.3 V - 11 SG Signal ground - 12 SG Signal ground - 7 SG Signal ground - 7 SG Signal ground - 10 +3.3VB +3.3 V - 11 SG Signal ground - 12 SG Signal ground - 13 +12VB +12 V - 14 SG Signal ground - <td>1708 PS-ACC (CN708) <-> PWA-F-SLG (CN6)/
RADF (CN1) (OPTION) 1 SG Signal ground - 1 SG Signal ground - 2 SG Signal ground - 3 +5.1VB +5.1V - 4 +5.1VB +5.1 V - 5 +5.1VB +5.1 V (to RADF) - 6 +5.1VB +5.1 V (to RADF) - 7 SG Signal ground - 8 SG Signal ground - 10 +3.3VB +3.3 V - 11 SG Signal ground - 12 SG Signal ground - 13 +12VB +12 V - 14 SG Signal ground - 15 NC Not connected - 15 NC Not connected - 15 NC Not connected - 16 NC Not connected - 17 SG Signal ground - 18</td> <td>1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 114 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 120 +5.1VA 120 +5.1VA 6 SG 7 NC Symbol 1 1 L/S 2 FULL-C 3 MONO-C 4 BW 5 +12VB 6 SG 7 NC Symbol 1 1 PWR-DN 2 PWR-DN</td> <td>Signal ground bus [9]
Signal ground Command and byte enable-0
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S</td> <td>LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-3
Button scanning signal-3
Button scanning signal-2
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-1
Button scanning return signal-4
Signal ground
Laser image data (differential signal
Signal ground
Laser image data (different</td> | 1708 PS-ACC (CN708) <-> PWA-F-SLG (CN6)/
RADF (CN1) (OPTION) 1 SG Signal ground - 1 SG Signal ground - 2 SG Signal ground - 3 +5.1VB +5.1V - 4 +5.1VB +5.1 V - 5 +5.1VB +5.1 V (to RADF) - 6 +5.1VB +5.1 V (to RADF) - 7 SG Signal ground - 8 SG Signal ground - 10 +3.3VB +3.3 V - 11 SG Signal ground - 12 SG Signal ground - 13 +12VB +12 V -
14 SG Signal ground - 15 NC Not connected - 15 NC Not connected - 15 NC Not connected - 16 NC Not connected - 17 SG Signal ground - 18
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 114 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 120 +5.1VA 120 +5.1VA 6 SG 7 NC Symbol 1 1 L/S 2 FULL-C 3 MONO-C 4 BW 5 +12VB 6 SG 7 NC Symbol 1 1 PWR-DN 2 PWR-DN
 | Signal ground bus [9]
Signal ground Command and byte enable-0

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LED driver output-15
LED common driver signal-0
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LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
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Button scanning signal-3
Button scanning signal-3
Button scanning signal-2
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-1
Button scanning return signal-4
Signal ground
Laser image data (differential
signal
Signal ground
Laser image data (different |
| Pin No Symbol Name Active 1 SG Signal ground - 2 SG Signal ground - 3 +5.1VB +5.1V - 4 +5.1VB +5.1 V (to RADF) - 5 +5.1VB +5.1 V (to RADF) - 6 +5.1VB +5.1 V (to RADF) - 7 SG Signal ground - 7 SG Signal ground - 8 SG Signal ground - 9 +3.3VB +3.3 V - 10 +3.3VB +3.3 V - 11 SG Signal ground - 12 SG Signal ground - 13 +12VB +12 V - 14 SG Signal ground - 15 NC Nut connected -
 | Pin No Symbol Name Active 1 SG Signal ground - 2 SG Signal ground - 3 +5.1VB +5.1V - 4 +5.1VB +5.1 V - 5 +5.1VB +5.1 V - 6 +5.1VB +5.1 V (to RADF) - 7 SG Signal ground - 8 SG Signal ground - 7 SG Signal ground - 8 SG Signal ground - 1 SG Signal ground - 1 SG Signal ground - 10 +3.3VB +3.3V - 10 +3.3VB +3.3V - 11 SG Signal ground - 12 SG Signal ground - 13 +12VB +12V - 14 SG Signal ground - <td>Isolar (critic) Name Active in No Symbol Name Active 1 SG Signal ground - 2 SG Signal ground - 3 +5.1VB +5.1V - 4 +5.1VB +5.1 V - 5 +5.1VB +5.1 V (to RADF) - 6 +5.1VB +5.1 V (to RADF) - 7 SG Signal ground - 8 SG Signal ground - 9 +3.3VB +3.3 V - 10 +3.3VB +3.3 V - 11 SG Signal ground - 12 SG Signal ground - 13 +12VB +12 V - 14 SG Signal ground - 15 NC Not connected - 16 NC Not connected - 17 SG Signal ground -</td> <td>1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[15] 107 AD[11] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[6] 114 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 6 SG 7 NC 2 FULL-C 3 MONO-C 4 BW 5 +5.1VA 6 SG 7 NC 2 PWR-DN 3 -12VB 6 SG</td> <td>Signal ground PCI address/data bus [9]
Signal ground Command and byte enable-0
43.3 V
PCI address/data bus [6]
PCI address/data bus [6]
PCI address/data bus [2]
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Power supply enable signal
AC main power down signal
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Signal ground
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Button scanning signal-3
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Button scanning return signal-0
Button scanning return signal-1
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Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-7
Button scanning return signal-4
Button scanning return signal-7
Signal ground
Laser image data (differential signal
Signal ground
Laser shut down signal
Signal ground
Laser beam position detection signal
Signal ground
Laser beam position detection signal
Signal ground
Laser beam position detection signal
F1) <-> HVT-GB/RGT-ROL
Name
High-voltage to transfer charger bias
tion roller bias
(CN213) <-> ADU-TRL-SNR
High-voltage to transfer guide bias
tion roller bias
(CN214) <-> ADU-TRU-SNR
Apple signal ground
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Button</td> | Isolar (critic) Name Active in No
Symbol Name Active 1 SG Signal ground - 2 SG Signal ground - 3 +5.1VB +5.1V - 4 +5.1VB +5.1 V - 5 +5.1VB +5.1 V (to RADF) - 6 +5.1VB +5.1 V (to RADF) - 7 SG Signal ground - 8 SG Signal ground - 9 +3.3VB +3.3 V - 10 +3.3VB +3.3 V - 11 SG Signal ground - 12 SG Signal ground - 13 +12VB +12 V - 14 SG Signal ground - 15 NC Not connected - 16 NC Not connected - 17 SG Signal ground -
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[15] 107 AD[11] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 116 AD[2] 117 AD[6] 114 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 6 SG 7 NC 2 FULL-C 3 MONO-C 4 BW 5 +5.1VA 6 SG 7 NC 2 PWR-DN 3 -12VB 6 SG
 | Signal ground PCI address/data bus [9]
Signal ground Command and byte enable-0
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PCI address/data bus [6]
PCI address/data bus [6]
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PCI address/data bus [2]
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LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Wame
Button scanning signal-3
Button scanning signal-4
Button scanning signal-2
Button scanning return signal-0
Button scanning return signal-1
Button scanning return signal-3
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Button scanning return signal-7
Button scanning return signal-4
Button scanning return signal-7
Signal ground
Laser image data (differential signal
Signal ground
Laser shut down
signal
Signal ground
Laser beam position detection signal
Signal ground
Laser beam position detection signal
Signal ground
Laser beam position detection signal
F1) <-> HVT-GB/RGT-ROL
Name
High-voltage to transfer charger bias
tion roller bias
(CN213) <-> ADU-TRL-SNR
High-voltage to transfer guide bias
tion roller bias
(CN214) <-> ADU-TRU-SNR
Apple signal ground
Apple signal ground
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Apple signal ground
Button scanna detection signal
Button scanna detection signal
Button |
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 | No Signal ground - 2 SG Signal ground - 2 SG Signal ground - 3 +5.1VB +5.1V - 4 +5.1VB +5.1 V (to RADF) - 5 +5.1VB +5.1 V (to RADF) - 6 +5.1VB +5.1 V (to RADF) - 7 SG Signal ground - 8 SG Signal ground - 9 +3.3VB +3.3 V - 10 +3.3VB +3.3 V - 11 SG Signal ground - 12 SG Signal ground - 13 +12VB +12 V - 14 SG Signal ground - 15 NC Not connected - 16 NC Not connected - 17 SG Signal ground - 18 SG Signal ground - </td <td>1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[15] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[2] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 120 +5.1VA 120 +5.1VA 6 SG 7 NC Symbol 1 1 L/S 2 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC 7 NC 7 NC 9 -12VA</td> <td>Signal ground \mathbb{P} addressidate bus [9]
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LED driver output-15
LED common driver signal-0
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LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-3
Button scanning signal-3
Button scanning signal-2
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal
Signal ground
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Laser image data (differential signal
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Laser image data (differential signal
Signal ground
Laser beam position detection signal
F1) <-> HVT-GB/RGT-ROL
Name
High-voltage to transfer charger bia
Signal ground
ADU exit sensor detection signal
F1) <-> HVT-GB/RGT-ROL
Name
Signal ground
ADU exit sensor detection signal
ADU exit sensor detec</td>
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[15] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[2] 115 SG 116 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 120 +5.1VA 120 +5.1VA 6 SG 7 NC Symbol 1 1 L/S 2 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC 7 NC 7 NC 9 -12VA
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LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-3
Button scanning signal-3
Button scanning signal-2
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal
Signal ground
Laser image data (differential signal
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Laser image data (differential signal
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Laser image data (differential signal
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Laser image data (differential signal
Signal ground
Laser image data (differential signal
Signal ground
Laser beam position detection signal
F1) <-> HVT-GB/RGT-ROL
Name
High-voltage to transfer charger bia
Signal ground
ADU exit sensor detection signal
F1) <-> HVT-GB/RGT-ROL
Name
Signal ground
ADU exit sensor detection signal
ADU exit sensor detec |
| 4 +5.1VB +5.1 V - 5 +5.1VB +5.1 V (to RADF) - 6 +5.1VB +5.1 V (to RADF) - 7 SG Signal ground - 8 SG Signal ground - 9 +3.3VB +3.3 V - 10 +3.3VB +3.3 V - 11 SG Signal ground - 12 SG Signal ground - 13 +12VB +12 V - 14 SG Signal ground - 15 NC Not connected -
 | 4 +5.1VB +5.1V - 5 +5.1VB +5.1 V (to RADF) - 6 +5.1VB +5.1 V (to RADF) - 7 SG Signal ground - 8 SG Signal ground - 9 +3.3VB +3.3 V - 10 +3.3VB +3.3 V - 11 SG Signal ground - 12 SG Signal ground - 13 +12VB +12V - 14 SG Signal ground - 15 NC Not connected - 16 NC Not connected - 17 SG Signal ground -

 | 4 +5.1VB +5.1V
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[15] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 120 +5.1VA 121 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC FIN No Symbol 1 PWR-DN 3 -12VA 6 SG 7 NC FIN No Symbol 1 PWR-DN 3 -12VA 10 SG 11 SG <

 | Signal ground PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [1]
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PCI address/data bus [2]
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(SG YMA-F-LRL (SG YMBOI SG WRAVC-0 NC SG WRA-F-LRL (<tr< td=""><td>LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Mame
Button scanning signal-5
Button scanning signal-3
Button scanning signal-2
Button scanning return signal-0
Button scanning return signal-1
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Signal ground
Laser image data (differential signal
Signal ground
Laser shut down signal
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Signal ground
APC + VT-GB/RGT-ROL
Name
High-voltage to transfer charger bias
tion roller bias
(CN214) <-> ADU-TRL-SNR
High-voltage to transfer charger bias
tion roller bias
(CN214) <-> ADU-TRL-SNR
Signal ground
APU = Vit verture sensor detection signal
APU = Vit verture sensor detection signal
APU = Vit verture sen</td></tr<> | LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Mame
Button scanning signal-5
Button scanning signal-3
Button scanning signal-2
Button scanning return signal-0
Button scanning return signal-1
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Button scanning return signal-4
Not used
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Signal ground
Laser image data (differential signal
Signal ground
Laser shut down signal
Signal ground
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Laser shut down signal
Signal ground
APC + VT-GB/RGT-ROL
Name
High-voltage to transfer charger bias
tion roller bias
(CN214) <-> ADU-TRL-SNR
High-voltage to transfer charger bias
tion roller bias
(CN214) <-> ADU-TRL-SNR
Signal ground
APU = Vit verture sensor detection signal
APU = Vit verture sensor detection signal
APU = Vit verture sen |
| 6 +5.1VB +5.1 V (to RADF) - 7 SG Signal ground - 8 SG Signal ground - 9 +3.3VB +3.3 V - 10 +3.3VB +3.3 V - 11 SG Signal ground - 12 SG Signal ground - 13 +12VB +12V - 14 SG Signal ground - 15 NC Not connected -
 | 6 +5.1VB +5.1 V (to RADF) - 7 SG Signal ground - 8 SG Signal ground - 9 +3.3VB +3.3 V - 10 +3.3VB +3.3 V - 11 SG Signal ground - 12 SG Signal ground - 13 +12VB +12 V - 14 SG Signal ground - 15 NC Not connected - 17 SG Signal ground -

 | 6 +5.1 VB +5.1 V (to RADF) - 7 SG Signal ground - 8 SG Signal ground - 9 +3.3 VB +3.3 V - 10 +3.3 VB +3.3 V - 11 SG Signal ground - 12 SG Signal ground - 13 +12VB +12 V - 15 NC Not connected - 16 NC Not connected - 18 SG Signal ground - 19 +24VD4 +24V -
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[4] 115 SG 114 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 120 +5.1VA 120 +5.1VA 11 L/S 2 FUL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC Symbol 1 1 L/S 4 B/W 5 +12/B 6 SG 7 NC

 | Signal ground PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [1]
PCI address/data bus [2]
PCI address/data bus [3]
Hono-color mode signal
Black and white mode signal
Black and white mode signal
Black and white mode signal
Power supply enable signal
Power supply enable signal
AC main power down signal
-12.V
Signal ground
Not connected
TO5) <> PWA-F-SYS (CN122)
Name
Power supply enable signal
Signal ground
-12.V
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POS = PWA-F-LGC (CN311),
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SCN12 | LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Name
Button scanning signal-3
Button scanning signal-3
Button scanning signal-2
Button scanning return signal-1
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal
Signal ground
Laser image data (differential signal
Signal ground
Laser image data (differential signal
Signal ground
Laser image data (differential signal
Signal ground
Laser image data (differential signal
Signal ground
Laser beam position detection signal
F1) <-> HVT-GB/RGT-ROL
Name
High-voltage to transfer charger bia
Signal ground
ADU exit sensor detection signal
F1) <-> HVT-GB/RGT-ROL
Name
Signal ground
ADU exit sensor detection signal
F1) <-> HVT-GB/RGT-ROL
Name
Signal ground
ADU exit sensor detection signal
F1) <-> HVT-GB/RGT-ROL
Name
Signal ground
ADU exit sensor detection signal
F1) <-> ADU-TRU-SNR
Signal ground
Signal groun |
| o 33 Signal ground - 9 +3.3VB +3.3 V - 10 +3.3VB +3.3 V - 10 +3.3VB +3.3 V - 11 SG Signal ground - 12 SG Signal ground - 13 +12VB +12 V - 14 SG Signal ground - 15 NC Not connected -
 | o Stignal ground - 9 +3.3VB +3.3 V - 10 +3.3VB +3.3 V - 11 SG Signal ground - 12 SG Signal ground - 13 +12VB +12 - 14 SG Signal ground - 15 NC Not connected - 16 NC Not connected - 17 SG Signal ground -

 | b SO Signal ground - 9 +3.3VB +3.3 V - 10 +3.3VB +3.3 V - 11 SG Signal ground - 12 SG Signal ground - 13 +12VB +12 V - 14 SG Signal ground - 15 NC Not connected - 16 NC Not connected - 17 SG Signal ground - 18 SG Signal ground - 19 +24VD4 +24 V -
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[15] 107 AD[11] 108 SG 109 AD[9] 111 C/BE(0)# 111 C/BE(0)# 111 C/BE(0)# 111 C/BE(0)# 111 AD[6] 111 AD[1] 112 +3.3VA 113 AD[6] 114 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 120 +5.1VA 110 SG 11 L/S 2 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC FIN No Symbol 1 PWR-DN 3 -12VA 10 <

 | Signal ground PCI address/data bus [9] Signal ground PCI address/data bus [6] PCI address/data bus [2] PCI address/data bus [0] +3.3 V +5.1 V +5.1 V +5.1 V +5.1 V +5.1 V +5.1 V +5.1 V Paper size signal Pell-color mode signal Black and white mode signal Black and white mode signal Signal ground Not connected 705) <> PWA-F-SYS (CN122) Name Power supply enable signal AC main power down signal -12 V Signal ground +12 V Signal ground Signal ground +3.3 V +3.3 | Active Active | 9
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Pin No
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FA78
RC(MTG)
NC(MTG)
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 | LED driver output-13
LED driver output-15
LED common driver signal-0
LED common driver signal-0
LED common driver signal-1
Signal ground
(J426) <-> PWA-F-KEY (J429
Mame
Button scanning signal-5
Button scanning signal-3
Button scanning signal-2
Button scanning return signal-0
Button scanning return signal-1
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal-3
Button scanning return signal-4
Button scanning return signal-3
Button scanning return signal
Received data +
Not used
Not connected
Not connected
Not connected
Not connected
Not connected
Not connected
Signal ground
Laser image data (differential signal
Signal ground
CN207) <-> PWA-F-SNS (CN
1) <-> HVT-GRID
1) <-> HVT-GB/RGT-ROL
High-voltage to transfer charger bia
1) <-> HVT-GB/RGT-ROL
High-voltage to ransfer charger bia
1) <-> HVT-GB/RGT-ROL
High-voltage to ransfer charger bia
1) <-> HVT-GB/RGT-ROL
High-voltage to ransfer charger bia
1) <-> ADU-TRU-SNR
Signal ground
A |
| 11 SG Signal ground - 12 SG Signal ground - 13 +12VB +12 V - 14 SG Signal ground - 15 NC Not connected -
 | 11 SG Signal ground - 12 SG Signal ground - 13 +12VB +12 V - 14 SG Signal ground - 15 NC Not connected - 16 NC Signal ground - 17 SG Signal ground -

 | II SG Signal ground - 12 SG Signal ground - 12 SG Signal ground - 13 +12VB +12 V - 14 SG Signal ground - 15 NC Not connected - 16 NC Not connected - 18 SG Signal ground - 19 +24VD4 +24 V -
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[13] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 20 +5.1VA 21 FUL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC 9

 | Signal ground PCI address/data bus [9]
Signal ground Command and byte enable-0
+73.3 V
PCI address/data bus [6]
PCI address/data bus [6]
PCI address/data bus [0]
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SCN14 | LED driver output-13 LED driver output-15 LED common driver signal-0 LED common driver signal-1 Signal ground (J426) <-> PWA-F-KEY (J42's) Name Button scanning signal-5 Button scanning signal-3 Button scanning signal-3 Button scanning return signal-1 Button scanning return signal-3 Button scanning return signal-4 Button scanning return signal-3 Button scanning return signal-3 Button scanning return signal-3 Button scanning return signal-3 Button scanning return signal-4 Button scanning return signal-3 Button scanning return signal-3 Button scanning return signal-3 Button scanned stat + 1 Not used |
| 13 +12VB +12V - 14 SG Signal ground - 15 NC Not connected -
 | 13 +12 VB +12 V - 14 SG Signal ground - 15 NC Not connected - 16 NC Not connected - 17 SG Signal ground -

 | 1.3 +12VB +12 V 14 SG Signal ground 15 NC Not connected 16 NC Not connected 17 SG Signal ground 18 SG Signal ground 19 +24VD4 +24V
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[15] 107 AD[11] 108 SG 109 AD[9] 110 SG 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[1] 115 SG 114 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA 120 +5.1VA 120 +5.1VA 6 SG 7 NC 2 FUL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC 7 NC 7 NC 7 NC 7 NC 10 SG <t< td=""><td>Signal ground</td><td>Active Active Active Active Active</td><td>9
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 | 16 NC Not connected - 16 NC Not connected - 17 SG Signal ground -

 | NC NOL CONTRECEED - 16 NC Not connected - 17 SG Signal ground - 18 SG Signal ground - 19 +24VD4 +24 V -
 | 1U2 SG 103 PAR 104 AD[15] 105 +3.3VA 106 AD[15] 107 AD[11] 108 SG 109 AD[9] 111 C/BE(0)# 112 +3.3VA 113 AD[6] 114 AD[1] 115 SG 114 AD[2] 117 AD[0] 118 +3.3VA 119 +5.1VA SCOPY KEY Pin No Symbol 1 L/S 2 FULL-C 3 MONO-C 4 B/W 5 +5.1VA 6 SG 7 NC Pin No Symbol 1 PWR-EN 2 PWR-EN 3 +12VB 6 SG 7 NC PMR-EN 2

 | Signal ground
PCI address/data bus [9]
Signal ground
Command and byte enable-0
+3.3 V
PCI address/data bus [6]
PCI address/data bus [1]
PCI address/data bus [2]
PCI address/data bus [2]
PCI address/data bus [0]
+3.3 V
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SCN1 | LED driver output-13 LED common driver signal-0 LED common driver signal-1 Signal ground (J426) <-> PWA-F-KEY (J42) Name Button scanning signal-5 Button scanning signal-3 Button scanning signal-3 Button scanning return signal-1 Button scanning return signal-3 Button scanning return signal-4 Button scanning return signal-3 Button scanning return signal-4 Button scanning return signal-4 Button scanning return signal-5 J2) <-> LAN (10BASE-T/100 Name Nature <t< td=""></t<> |

SLG	(CN1) <-> PWA-F-CCD (CN14)	
bol	Name	Active
	+5.1 V	-
	+5.1 V	-
	Signal ground	
	Signal ground	-
	CCD RS signal	
	Signal ground	-
		-
	CCD CP signal	-
	Signal ground	-
	CCD SH signal	-
	Signal ground	-
2B	CCD shift clock-2B	-
	Signal ground	
24	CCD shift clock 2A	
24	COD SHIIL CIUCK-ZA	
	Signal ground	-
1A	CCD shift clock-1A	-
	Signal ground	-
ΈN	CCD even data	-
	Signal ground	-
סט	ICCD odd data	
	Signal ground	
		-
	Analog ground	-
	Analog ground	-
	Analog ground	- 1
	+12 V	
	+12 V	
	+12 V	<u> </u>
	. 12 4	-
SLG	(CN2) <-> PLTN-SNR, HOMF-SNR	
	Neme	Active
100	Name	ACTIVE
	Signal ground	-
A	Platen sensor detection signal	-
	+5.1 V	-
	Signal ground	-
Δ	Carriage home position sensor detection signal	
A		_
	+5.1 V	-
SI G	$(CN7) \leq RADE(CN2)(OPTION)$	
		A . 4
100	Name	Active
	RADF acknowledge signal	-
R	VARID signal from RADF	-
	Received serial data	-
	Signal ground	-
	PADE transmitted sorial data	
	Cianal around	-
	Signal ground	-
	Acknowledge signal from RADF	-
2	Request signal from RADF	-
	RADF request signal	-
	RADF connection detection signal	-
SLG	(CN9) <-> INV-EXP (CN1)	
bol	Name	Active
	Power ground	7.04.70
	Power ground	-
	Fower ground	<u> </u>
A	Exposure lamp ON signal	н
	+24 V	
	+24 V	- 1
	•	·
~ ~		
SLG	(CN10) <-> SLG-FAN-MOT,	
4 95	RIES ONLY) APS2 APS3 APS4 APS5	
. 4 OL	New March 10, AI 07, AF 00	A
100	Name	Active
	Not connected	
	Not connected	- 1
	Not connected	- 1
	+5 V	
	Automatic original detection sensor signal	<u> </u>
	Signal ground	<u> </u>
		<u> </u>
	TU V	
	Automatic original detection sensor signal	-
	Signal ground	- 1
	+5 V	- 1
	Automatic original detection sensor signal	<u> </u>
	Signal ground	<u> </u>
		<u> </u>
		<u> </u>
	Automatic original detection sensor signal	
	Signal ground	- 1
	+5 V	- 1
	Automatic original detection sensor signal	<u> </u>
	Signal ground	<u> </u>
	oignaí grounu	-
SLG	(CN19) <-> SCAN-MOT	
	Nema	Active
100	Name	ACTIVE
5B	Scan motor drive signal-B	-
	+24 V	
3	Scan motor drive signal-B	- 1
ΔB	Scan motor drive signal-A	<u> </u>
	+24 V	<u> </u>
	Coop motor drive circul	<u> </u>
۱	Scan motor drive signal-A	-

Active

Active

CN1 PWA-F-SLG (CN1) <-> PWA-F-CCD (CN14)

21 22 23 24 25 26 27 28 29 30	EXTHOOK +5.1VB	Internal telephone hook signal	-
24 25 26 27 28 29 30	AG	External telephone hook signal	-
26 27 28 29 30	+5.1VA	Analog ground +5.1 V	-
29 30	-12VB AG	-12 V Analog ground	-
N502	+12VB +24VB	+12 V +24 V Power around	-
v:002	EAV (01		
Pin No	Symbol	Name	Active
2	RXIN CMI	Received FAX data	-
3 4 5		Dial pulse drive signal	-
6 7	ATT3DB RLADJ1	-3 db ATT exchange signal Modem select signal	-
8 9	RLADJ2 RGCLK	Modem select signal Not used	-
10 11	AG -12VB	Signal ground -12 V	-
12 13	AG +12VB	Analog ground +12 V	-
14 15	NC 16Hz	Not connected Not used	-
16 17	AG CI	Analog ground Ring signal detect	- L
18 19	ANSDET REVA	FAX data answer detection Line 2 External telephone hook detection signal	L -
20 21	REVB NC	Line 2 External telephone hook detection signal Not connected	-
22 23	NC +5.1VA	Not connected +5.1 V	-
24 25	AG +5.1VA	Analog ground +5.1 V	-
20 27 28	AG +12\/B	Analog ground	-
29	NC	Not connected	-
1502			
in No	Symbol	Speaker output (4)	-
2	SP-	Speaker output (-)	-
1600	FAX (CN600)	<-> MDM (CN401) (OPTION)	A
1 2	TXOUT2	Transmitted data	-
3	+5.1VA +12VB	+5.1 V +12 V +2.3 V	-
5	MOD2DMA-1	Modem 2 DMA signal	-
7	MEM2CS-0 +5.1VB	SRAM chip select signal +5.1 V	-
9 10	MEMRD2-0 CLKOE-1	SRAM data read signal Clock out enable signal	-
11 12	TXEN2-1 +5.1VB	TX enable signal +5.1 V	-
13 14	A[16] A[14]	MDM address bus [16] MDM address bus [14]	-
15 16	A[12] A[10]	MDM address bus [12] MDM address bus [10]	-
17 18	A[8] A[6]	MDM address bus [8] MDM address bus [6]	-
19 20	A[4] A[2]	MDM address bus [4]	-
∠1 22 23	+5.1VB	+5.1 V CEP1 reset signal	-
24 25	5.1VB SG	+5.1 V Signal ground	-
26 27	CEPCLK	System clock signal Signal ground	-
28 29	D[0] D[2]	MĎM ďata bus [0] MDM data bus [2]	-
30 31	D[4] D[6]	MDM data bus [4] MDM data bus [6]	-
32 33	D[8] D[10]	MDM data bus [8] MDM data bus [10]	-
34 35	D[12] D[14]	MDM data bus [12] MDM data bus [14]	-
30 37 38	MOD2DET-0	Modem 2 detection signal	-
39 40	DREQC2-1	Data request signal	-
41 42	RXIN2 AG	Received data	-
43 44	-12VB AG	-12 V Analog ground	-
45 46	MOD2INT-1 MOD2CS-0	Modem 2 interrupt signal Modem 2 chip select signal	-
47 48	MOD2RST-0 SG	Modem 2 reset signal Signal ground	-
49 50	KXEN2-1 MEMWRH2-0	RX enable signal	-
52 52	NIEMWRL2-0 A[18] A[17]	MDM address bus [18]	-
54 55	A[15]	MDM address bus [17] MDM address bus [15] MDM address bus [12]	-
56 57	A[11] A[9]	MDM address bus [11] MDM address bus [9]	-
58 59	A[7] A[5]	MDM address bus [7] MDM address bus [5]	-
60 61	A[3] A[1]	MDM address bus [3] MDM address bus [1]	-
62 63	CPURST-0 CEP2INT-1	CPU reset signal CEP2 interrupt signal	-
64 65	5.1VB 5.1VB	+5.1 V +5.1 V	-
66 67	IORD2-0 IOWR2-0	MDM data read signal MDM data write signal	-
60	D[1] D[3]	MDM data bus [3]	-
68 69		MDM data bus [7] MDM data bus [7]	-
68 69 70 71 72	D[7] D[9]		
68 69 70 71 72 73 74	D[7] D[9] D[11] D[13]	MDM data bus [11] MDM data bus [13]	-
68 69 70 71 72 73 74 75 76	D[7] D[9] D[11] D[13] D[15] 5.1VB	MDM data bus [11] MDM data bus [13] MDM data bus [15] +5.1 V	-
68 69 70 71 72 73 74 75 76 77 78	D[7] D[9] D[11] D[13] D[15] 5.1VB 5.1VB CEP2CS-0	MDM data bus [11] MDM data bus [13] MDM data bus [15] +5.1 V +5.1 V CEP2 chip select signal	- - - - -
68 69 70 71 72 73 74 75 76 77 76 77 78 79 80	D[7] D[9] D[11] D[15] 5.1VB 5.1VB CEP2CS-0 DREQD2-1 DACKD2-0	MDM data bus [13] MDM data bus [13] MDM data bus [15] +5.1 V +5.1 V CEP2 chip select signal Data request signal Data acknowledge signal	- - - - - - -
68 69 70 71 72 73 74 75 76 77 78 79 80	D[7] D[9] D[11] D[13] D[15] 5.1VB 5.1VB CEP2CS-0 DREQD2-1 DACKD2-0 FAX (CN602)	MDM data bus [13] MDM data bus [13] MDM data bus [15] +5.1 V +5.1 V CEP2 chip select signal Data request signal Data acknowledge signal <-> DOWNLOAD JIG (FAX) (OPTION)	- - - - - - - - - - -
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68 69 69 70 71 77 77 73 74 75 77 78 80 9 10 1 2 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 10 11 12 3 23 34 5 6 7 8 9 10 11 15 16 7 8 9 10 1 23 34 5 6 7 8 9 10 11 12 34 5 6 7 8 9	D[7] D[9] D[11] D[13] D[15] 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 0 202 D[2] D[4] D[2] D[4] D[6] RD-0 A[0] A[12] A[14] A[16] A[12] A[14] A[16] A[12] A[14] A[16] A[12] A[14] A[16] A[12] A[14] A[16] A[12] A[14] A[16] A[12] A[14] A[16] A[12] A[14] A[16] A[12] A[14] A[16] A[12] A[11] A[15] D[5] D[7] BOOTCS-0 A[1] A[13] A[15] A[11] A[13] A[15] A[11] A[13] A[15] A[11] A[13] A[15] A[11] A[15] A[11] A[15] A[11] COTCS-0 A[1] A[13] A[15] A[11] A[15] A[11] A[15] A[17] COTCS-0 SG NC NC NC NC NC NC NC NC NC NC NC NC NC	MDM data bus [13] MDM data bus [13] HDM data bus [15] +5.1 V +5.1 V CEP2 chip select signal Data acknowledge signal C-> DOWNLOAD JIG (FAX) (OPTION) Name ROM data bus [0] ROM data bus [2] ROM data bus [4] ROM data bus [6] ROM data bus [6] ROM data bus [6] ROM dateress bus [0] ROM address bus [0] ROM address bus [6] ROM address bus [10] ROM address bus [12] ROM address bus [13] ROM address bus [16] ROM address bus [16] ROM address bus [17] ROM address bus [18] Signal ground Signal ground ROM datess bus [1] ROM address bus [1] Download board connection detection signal +5.1 V External ROM loading status signal External ROM loading status signal FINISHER (J598) (OPTION) Name Receiver serial data Signal ground Transmitted serial data Signal ground Signal	
68 69 69 69 69 70 71 77 77 77 77 77 78 77 79 80 602 11 13 4 5 6 7 8 9 10 112 13 14 15 17 78 9 10 112 11 12 22 23 33 33 34 00 in No 1 2 23 4 5 6 7 8 9 10 12 3 33 34 5 6 7 8 9 10 12 3 33 4 5 6 <td>D[9] D[9] D[1] D[13] D[15] 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 0 10[0] D[2] D[2] D[2] D[2] D[4] D[2] D[2] D[4] D[2] D[4] D[2] D[4] D[2] D[4] D[2] D[4] D[2] D[2] D[4] D[2] D[3] D[5] D[7] BOOTCS-0 A[11] A[12] A[13] A[15] D[7] BOOTCS-0 A[1] A[13] A[15] A[17] A[17] A[13] A[15] A[17] A[17] A[13] A[15] A[17]</td> <td>MDM data bus [13] MDM data bus [13] MDM data bus [15] +5.1 V +5.1 V CEP2 chip select signal Data acknowledge signal Common the select signal Data acknowledge signal Common the select signal ROM data bus [0] ROM data bus [1] ROM data bus [2] ROM data bus [3] ROM data bus [4] ROM datess bus [0] ROM address bus [0] ROM address bus [10] ROM address bus [10] ROM address bus [10] ROM address bus [11] ROM address bus [12] ROM address bus [13] ROM address bus [14] ROM address bus [16] ROM address bus [17] ROM data bus [3] ROM data bus [5] ROM data bus [5] ROM data bus [5] ROM address bus [18] Signal ground ROM address bus [19] ROM address bus [11] ROM address bus [12] ROM address bus [13] ROM data bus [5] ROM address bus [14] ROM address bus [15] ROM address bus [15] ROM address bus [16] ROM address bus [17] Chip select signal ROM address bus [17] ROM address bus [17] Download board connection detection signal +5.1 V External ROM loading status signal Signal ground Not connected Not c</td> <td></td>	D[9] D[9] D[1] D[13] D[15] 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 5.1VB 0 10[0] D[2] D[2] D[2] D[2] D[4] D[2] D[2] D[4] D[2] D[4] D[2] D[4] D[2] D[4] D[2] D[4] D[2] D[2] D[4] D[2] D[3] D[5] D[7] BOOTCS-0 A[11] A[12] A[13] A[15] D[7] BOOTCS-0 A[1] A[13] A[15] A[17] A[17] A[13] A[15] A[17] A[17] A[13] A[15] A[17]	MDM data bus [13] MDM data bus [13] MDM data bus [15] +5.1 V +5.1 V CEP2 chip select signal Data acknowledge signal Common the select signal Data acknowledge signal Common the select signal ROM data bus [0] ROM data bus [1] ROM data bus [2] ROM data bus [3] ROM data bus [4] ROM datess bus [0] ROM address bus [0] ROM address bus [10] ROM address bus [10] ROM address bus [10] ROM address bus [11] ROM address bus [12] ROM address bus [13] ROM address bus [14] ROM address bus [16] ROM address bus [17] ROM data bus [3] ROM data bus [5] ROM data bus [5] ROM data bus [5] ROM address bus [18] Signal ground ROM address bus [19] ROM address bus [11] ROM address bus [12] ROM address bus [13] ROM data bus [5] ROM address bus [14] ROM address bus [15] ROM address bus [15] ROM address bus [16] ROM address bus [17] Chip select signal ROM address bus [17] ROM address bus [17] Download board connection detection signal +5.1 V External ROM loading status signal Signal ground Not connected Not c	
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68 69 69 69 69 70 71 77 77 77 77 77 78 9 1 2 3 4 5 6 7 8 9 10 11 12 23 4 5 6 7 8 9 10 112 13 12 22 23 33 33 34 00 in 1 23 4 5 6 7 8 9 10 112 3 33 34 00 in 1 23 4 5 6 7 8 9 10 112 13 12 3	D[9] D[9] D[1] D[13] D[15] 5.1VB 0 0 0 0 0 0 0 0 0 0 0 0 0	MDM data bus [13] MDM data bus [15] +5.1 V +5.1 V CEP2 chip select signal Data request signal Data acknowledge signal <> DOWNLOAD JIG (FAX) (OPTION) Name ROM data bus [0] ROM data bus [0] ROM data bus [2] ROM data bus [4] ROM data read signal ROM address bus [0] ROM address bus [14] ROM address bus [15] ROM address bus [16] ROM address bus [16] ROM address bus [16] ROM address bus [17] ROM data bus [5] ROM data bus [5] ROM address bus [18] Signal ground Signal ground ROM address bus [17] ROM address bus [18] ROM address bus [18] ROM address bus [17] ROM address bus [18] ROM address bus [17] ROM address bus [17] Download board connection detection signal +5.1 V External ROM loading status signal FINISHER (J598) (OPTION) I BOARD <-> PC I/F (IEEE1284-C) I Data bus [6] Data bus [6] Data bus [7] NAme Signal ground Signal ground Signal ground Signa	
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68 69 69 69 69 70 77 77 77 77 77 77 78 9 11 12 34 5 6 7 8 9 111 111 12 3 33 34 0 0 1 2 23 4 5 6 7 8 9 10 12 3 23 33 33 34 0 0 1 2 23 4 5 6 7 8 9 10 112 3 33 34 10 12 33 34 11 13 12 3 <t< td=""><td>D[7] D[9] D[11] D[13] D[15] 5.1VB 5.1VB 5.1VB 5.1VB CEP2CS-0 DREOD2-1 DACKD2-0 FAX (CN602) Symbol D[0] D[2] D[4] D[6] RD-0 A[0] A[2] A[4] A[6] A[10] A[12] A[14] A[16] A[17] A[18] SG D[5] D[7] BOOTCS-0 A[1] A[3] A[13] A[15] A[17] ROMDET0-0 5.1VB LEDDL-0 IPC (J600) <</td> SG NC NC NC NC NC NC</t<>	D[7] D[9] D[11] D[13] D[15] 5.1VB 5.1VB 5.1VB 5.1VB CEP2CS-0 DREOD2-1 DACKD2-0 FAX (CN602) Symbol D[0] D[2] D[4] D[6] RD-0 A[0] A[2] A[4] A[6] A[10] A[12] A[14] A[16] A[17] A[18] SG D[5] D[7] BOOTCS-0 A[1] A[3] A[13] A[15] A[17] ROMDET0-0 5.1VB LEDDL-0 IPC (J600) <	MDM data bus [13] MDM data bus [13] +5.1 V +5.1 V CEP2 chip select signal Data request signal Data request signal Data acknowledge signal 	

15 16	AI18I	ROM address bus 1181	
	SG	Signal ground	
17	SG	Signal ground	-
18	D[1]	ROM data bus [1]	-
20	D[5]	ROM data bus [5]	
21	D[7]	ROM data bus [7]	-
22	CS2-0	Chip select signal	L
23	A[1]	ROM address bus [1]	-
25	A[5]	ROM address bus [5]	-
26	A[7]	ROM address bus [7]	-
27	A[9]	ROM address bus [9]	-
28	A[11] A[13]	ROM address bus [11]	-
30	A[15]	ROM address bus [15]	-
31	A[17]	ROM address bus [17]	-
32	ROMDT-0	Download board connection detection signal	L
33 34 1317	PWA-F-LGC	External ROM loading status signal C(N317) <-> IPC (OPTION)	- L
in No	Symbol	Name	Active
2	+5.1VB	+5.1 V	
3	AD0	System address bus [0]	-
4	AD2	System address bus [2]	-
5	AD4	System address bus [4]	-
7	1/00	System data bus [0]	-
8	1/02	System data bus [2]	-
9	1/04	System data bus [4]	-
11	SG	Signal ground	-
12	WE	Write signal	-
13	CSIP2-0A	IPC chip select signal	-
14	+5.1VB	1PC board connection detection signal	-
16	SG	Signal ground	-
17	+5.1VB	+5.1 V	<u> </u>
18	AD1	System address bus [1]	-
20	ADS ADS	System address bus [5]	+ -
21	AD7	System address bus [7]	
22	I/01	System data bus [1]	-
23	1/03	System data bus [3]	
24 25	1/07	System data bus [7]	
26	SG	Signal ground	-
27	OE	Output enable signal	-
20	+5 1VB	+5 1 V	-
30	SG	Signal ground	-
1100	PWA-F-SYS	(CN100) <-> DOWNLOAD JIG (SYS)	
in No	Symbol	Name	Active
2	DATA0	System data bus [0]	
3	DATA4	System data bus [4]	-
4	DATA6	System data bus [6]	-
5	DATA10	System data bus [8]	-
7	DATA12	System data bus [10]	
8	DATA14	System data bus [14]	-
0	A21	System address bus [21]	-
9	A10	this set and see here [10]	
9 10 11	A19 A17	System address bus [19]	
9 10 11 12	A19 A17 A15	System address bus [19] System address bus [17] System address bus [15]	-
9 10 11 12 13	A19 A17 A15 A13	System address bus [19] System address bus [17] System address bus [15] System address bus [13]	-
9 10 11 12 13 14	A19 A17 A15 A13 A11	System address bus [19] System address bus [17] System address bus [15] System address bus [13] System address bus [11] System address bus [11]	-
9 10 11 12 13 14 15 16	A19 A17 A15 A13 A11 A09 A07	System address bus [19] System address bus [17] System address bus [15] System address bus [13] System address bus [11] System address bus [9] Sustem address bus [7]	
9 10 11 12 13 14 15 16 17	A19 A17 A15 A13 A11 A09 A07 A05	System address bus [19] System address bus [17] System address bus [15] System address bus [13] System address bus [11] System address bus [9] System address bus [7] System address bus [5]	- - - - - - - - - -
9 10 11 12 13 14 15 16 17 18	A19 A17 A15 A13 A11 A09 A07 A05 A03	System address bus [19] System address bus [17] System address bus [15] System address bus [13] System address bus [11] System address bus [9] System address bus [7] System address bus [5] System address bus [3]	- - - - - - - - - - - -
9 10 11 12 13 14 15 16 17 18 19 20	A19 A17 A15 A13 A11 A09 A07 A05 A03 RDX CS7 A	System address bus [19] System address bus [17] System address bus [15] System address bus [13] System address bus [11] System address bus [9] System address bus [7] System address bus [5] System address bus [3] System read signal Chis actest signal (7 b)	- - - - - - - - - - - - - - - - -
9 10 11 12 13 14 15 16 17 18 19 20 21	A19 A17 A15 A13 A11 A09 A07 A05 A03 RDX CS7-A CS7-B	System address bus [19] System address bus [17] System address bus [15] System address bus [13] System address bus [11] System address bus [9] System address bus [9] System address bus [5] System address bus [3] System read signal Chip select signal (7-A) Chip select signal (7-B)	
9 10 11 12 13 14 15 16 17 18 19 20 21 22	A19 A17 A15 A13 A13 A13 A13 A09 A07 A05 A03 RDX CS7-A CS7-B +3.3VA	System address bus [19] System address bus [17] System address bus [15] System address bus [13] System address bus [11] System address bus [9] System address bus [9] System address bus [5] System address bus [5] System address bus [3] System read signal Chip select signal (7-A) Chip select signal (7-B) +3.3 V	- - - - - - - - - - - - - - - - - - -
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A19 A17 A15 A13 A13 A09 A07 A05 A03 RDX CS7-A CS7-A CS7-B +3.3VA +3.3VA	System address bus [19] System address bus [17] System address bus [15] System address bus [13] System address bus [11] System address bus [9] System address bus [9] System address bus [5] System address bus [5] System read signal Chip select signal (7-A) Chip select signal (7-A) Chip select signal (7-B) +3.3 V	- - - - - - - - - - - - - - - - - -
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	A19 A17 A15 A13 A13 A07 A07 A05 A03 RDX CS7-A CS7-B +3.3VA +3.3VA SG SC	System address bus [19] System address bus [17] System address bus [15] System address bus [13] System address bus [11] System address bus [11] System address bus [7] System address bus [5] System address bus [5] System read signal Chip select signal (7-A) Chip select signal (7-B) +3.3 V Signal ground Signal ground	- - - - - - - - - - - - - - - - - - -
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	A19 A17 A15 A13 A11 A09 A07 A05 A03 RDX CS7-A CS7-A CS7-B +3.3VA +3.3VA SG SG DATA1	System address bus [19] System address bus [17] System address bus [15] System address bus [13] System address bus [11] System address bus [9] System address bus [7] System address bus [5] System address bus [5] System read signal Chip select signal (7-A) Chip select signal (7-A) Chip select signal (7-B) +3.3 V Signal ground Signal ground System data bus [11]	- - - - - - - - - - - - - - - - - - -
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	A19 A17 A15 A13 A13 A09 A07 A05 A03 RDX CS7-A CS7-B +3.3VA SG SG SG DATA1 DATA3	System address bus [19] System address bus [17] System address bus [15] System address bus [13] System address bus [11] System address bus [9] System address bus [7] System address bus [7] System address bus [5] System address bus [3] System read signal Chip select signal (7-A) Chip select signal (7-B) +3.3 V +3.3 V Signal ground Signal ground System data bus [1] System data bus [3]	
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	A19 A17 A15 A13 A13 A09 A07 A05 A03 RDX CS7-A CS7-A CS7-A CS7-B +3.3VA SG SG SG SG DATA1 DATA3 DATA5	System address bus [19] System address bus [17] System address bus [15] System address bus [13] System address bus [11] System address bus [9] System address bus [7] System address bus [7] System address bus [3] System address bus [3] System read signal Chip select signal (7-A) Chip select signal (7-B) +3.3 V +3.3 V Signal ground Signal ground System data bus [1] System data bus [3] System data bus [5]	- - - - - - - - - - - - - - - - - - -
9 10 11 12 13 14 15 16 17 17 18 19 20 21 22 23 24 25 26 27 28 29 30	A19 A17 A15 A13 A13 A09 A07 A05 A03 RDX CS7-A CS7-A CS7-A CS7-A CS7-A CS7-A SG SG SG SG DATA1 DATA5 DATA5 DATA7 DATA5	System address bus [19] System address bus [15] System address bus [13] System address bus [13] System address bus [13] System address bus [11] System address bus [9] System address bus [7] System address bus [7] System address bus [5] System address bus [5] System address bus [3] System address bus [3] Chip select signal (7-A) Chip select signal (7-B) +3.3 V +3.3 V Signal ground Signal ground System data bus [1] System data bus [3] System data bus [5] System data bus [7] System data bus [7] System data bus [7] System data bus [7]	
9 10 11 12 13 14 15 16 17 17 18 19 20 21 22 23 23 24 25 26 27 28 29 30 31	A19 A17 A15 A13 A13 A09 A07 A05 A03 RDX CS7-A CS7-A CS7-B +3.3VA +3.3VA +3.3VA SG DATA1 DATA5 DATA5 DATA5 DATA5 DATA5 DATA11	System address bus [19] System address bus [15] System address bus [13] System address bus [13] System address bus [13] System address bus [13] System address bus [1] System address bus [9] System address bus [7] System address bus [7] System address bus [3] System address bus [3] System read signal Chip select signal (7-A) Chip select signal (7-B) +3.3 V +3.3 V Signal ground Signal ground System data bus [1] System data bus [3] System data bus [5] System data bus [5] System data bus [5] System data bus [5] System data bus [6] System data bus [7] System data bus [7] System data bus [7] System data bus [7]	
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 22 23 24 25 26 27 28 29 30 31 32	A19 A17 A15 A13 A11 A09 A07 A03 RDX CS7-A CS7-B +3.3VA SG DATA1 DATA5 DATA5 DATA11 DATA13	System address bus [19] System address bus [15] System address bus [13] System address bus [13] System address bus [13] System address bus [1] System address bus [9] System address bus [7] System address bus [7] System address bus [7] System address bus [3] System read signal Chip select signal (7-A) Chip select signal (7-B) +3.3 V +3.3 V Signal ground Signal ground System data bus [1] System data bus [5] System data bus [5] System data bus [5] System data bus [7] System data bus [11] System data bus [11] System data bus [11]	
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44	NC ICS2	Not connected	-
40	DQMB2	Output disable/write mask-2	-
47 48	NC	Not connected	-
49 50	+3.3VA NC	+3.3 V Not connected	
51 52	NC NC	Not connected Not connected	-
53 54	NC SG	Not connected Signal ground	-
55	DQ16	Memory data bus [16] Memory data bus [17]	-
57	DQ18	Memory data bus [17] Memory data bus [18]	-
50 59	+3.3VA	+3.3 V	-
60 61	DQ20 NC	Memory data bus [20] Not connected	-
62 63	NC CKE1	Not connected Clock enable signal	-
64	SG	Not connected	-
66	DQ21 DQ22	Memory data bus [22]	-
68	SG	Signal ground	-
69 70	DQ24 DQ25	Memory data bus [24] Memory data bus [25]	-
71 72	DQ26 DQ27	Memory data bus [26] Memory data bus [27]	-
73	+3.3VA	+3.3 V	-
74	DQ28 DQ29	Memory data bus [29]	-
76 77	DQ30 DQ31	Memory data bus [30] Memory data bus [31]	-
78 79	SG CLK2	Signal ground Clock-2 input	-
80 81	NC NC(WP)	Not connected	-
82	SDA	PD serial data	-
83 84	+3.3VA	+3.3 V	-
85 86	SG DQ32	Signal ground Memory data bus [32]	-
87	DQ33	Memory data bus [33]	
89	DQ35	Memory data bus [35]	-
90 91	+3.3VA DQ36	+s.s v Memory data bus [36]	<u> </u>
92 93	DQ37 DQ38	Memory data bus [37] Memory data bus [38]	
94	DQ39	Memory data bus [39]	-
95 96	SG	Signal ground	-
97 98	DQ41 DQ42	Memory data bus [41] Memory data bus [42]	-
99 100	DQ43 DQ44	Memory data bus [43] Memory data bus [44]	
101	DQ45	Memory data bus [45]	<u> </u>
102	DQ46	Memory data bus [46]	-
104 105	NC	Nemory data bus [4/]	-
106 107	NC SG	Not connected Signal ground	
108	NC NC	Not connected	-
110	+3.3VA	+3.3 V	-
111 112	DQMB4	Output disable/write mask-4	-
113 114	DQMB5 /CS1	Output disable/write mask-5 Chip select signal-1	-
115 116	/RAS	Row address strobe signal	-
117	A1	Memory address bus [1]	-
118	A3 A5	Memory address bus [3] Memory address bus [5]	-
120 121	A7 A9	Memory address bus [7] Memory address bus [9]	-
122	BA0	Bank select-0	
123	A11	Memory address bus [11]	-
123 124	A11 +3.3VA	Memory address bus [11] +3.3 V	
123 124 125 126	A11 +3.3VA NC(CLK1) A12	Memory address bus [11] +3.3 V Clock-1 input Memory address bus [12]	- - - -
123 124 125 126 127 128	A11 +3.3VA NC(CLK1) A12 SG CEK	Memory address bus [11] +3.3 V Clock-1 input Memory address bus [12] Signal ground Clock enable signal	- - - - - - - -
123 124 125 126 127 128 129 130	A11 +3.3VA NC(CLK1) A12 SG CEK /CS3 DOMB6	Memory address bus [11] +3.3 V Clock-1 input Memory address bus [12] Signal ground Clock enable signal Chip select signal-3 Outruit disable/write mask-6	- - - - - - - - -
123 124 125 126 127 128 129 130 131	A11 +3.3VA NC(CLK1) A12 SG CEK /CS3 DQMB6 DQMB7	Memory address bus [11] +3.3 V Clock-1 input Memory address bus [12] Signal ground Clock enable signal Chip select signal-3 Output disable/write mask-6 Output disable/write mask-7	- - - - - - - - - - - - - -
123 124 125 126 127 128 129 130 131 132 133	A11 +3.3VA NC(CLK1) A12 SG CEK /CS3 DQMB6 DQMB7 NC(A13) +3.3VA	Memory address bus [11] +3.3 V Clock-1 input Memory address bus [12] Signal ground Clock enable signal Chip select signal-3 Output disable/write mask-6 Output disable/write mask-7 Memory address bus [13] +3.3 V	- - - - - - - - - - - - - - - - - - -
123 124 125 126 127 128 129 130 131 132 133 134 135	A11 +3.3VA NC(CLK1) A12 SG CEK /CS3 DQMB6 DQMB7 NC(A13) +3.3VA NC NC NC	Memory address bus [11] +3.3 V Clock-1 input Memory address bus [12] Signal ground Clock enable signal Clock enable signal Chip select signal-3 Output disable/write mask-6 Output disable/write mask-7 Memory address bus [13] +3.3 V Not connected Not connected	
123 124 125 126 127 128 129 130 131 132 133 134 135 136 137	A11 +3.3VA NC(CLK1) A12 SG CEK /CS3 DQMB6 DQMB7 NC(A13) +3.3VA NC NC NC NC	Memory address bus [11] +3.3 V Clock-1 input Memory address bus [12] Signal ground Clock enable signal Chip select signal-3 Output disable/write mask-6 Output disable/write mask-7 Memory address bus [13] +3.3 V Not connected Not connected Not connected Not connected Not connected	
123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138	A11 +3.3VA NC(CLK1) A12 SG CEK /CS3 DQMB6 DQMB7 NC(A13) +3.3VA NC NC NC NC NC NC NC NC NC NC	Memory address bus [11] +3.3 V Clock-1 input Memory address bus [12] Signal ground Clock enable signal Chip select signal-3 Output disable/write mask-6 Output disable/write mask-7 Memory address bus [13] +3.3 V Not connected Not connected	
123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140	A11 +3.3VA NC(CLK1) A12 SG CEK /CS3 DQMB6 DQMB7 NC(A13) +3.3VA NC NC NC NC NC NC NC SG DQ48 DQ49 DQ49	Memory address bus [11] +3.3 V Clock-1 input Memory address bus [12] Signal ground Clock enable signal Clock enable signal Chip select signal-3 Output disable/write mask-6 Output disable/write mask-7 Memory address bus [13] +3.3 V Not connected Not connected Not connected Not connected Not connected Not connected Signal ground Memory data bus [48] Memory data bus [49]	
123 124 125 126 127 129 130 131 132 133 134 135 136 137 138 139 140 141	A11 +3.3VA NC(CLK1) A12 SG CEK /CS3 DQMB6 DQMB7 NC(A13) +3.3VA NC NC NC NC NC NC NC NC NC DQ48 DQ49 DQ50 DQ51	Memory address bus [11] +3.3 V Clock-1 input Memory address bus [12] Signal ground Clock enable signal Clock enable signal Chip select signal-3 Output disable/write mask-6 Output disable/write mask-7 Memory address bus [13] +3.3 V Not connected Not connected Not connected Not connected Not connected Not connected Signal ground Memory data bus [48] Memory data bus [50] Memory data bus [50]	
123 124 126 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143	A11 +3.3VA NC(CLK1) A12 SG CEK /CS3 DQMB6 DQMB7 NC(A13) +3.3VA NC NC NC NC NC NC NC NC NC NC NC NC NC	Memory address bus [11] +3.3 V Clock-1 input Memory address bus [12] Signal ground Clock enable signal Chip select signal-3 Output disable/write mask-6 Output disable/write mask-7 Memory address bus [13] +3.3 V Not connected Not connected Not connected Not connected Not connected Not connected Not connected Signal ground Memory data bus [48] Memory data bus [50] Memory data bus [51] +3.3 V	
123 124 125 126 127 128 129 130 131 132 133 134 135 135 136 137 138 139 140 141 141 142 144 144	A11 +3.3VA NC(CLK1) A12 SG CEK /CS3 DQMB6 DQMB7 NC(A13) +3.3VA NC NC NC NC NC NC NC NC SG DQ48 DQ48 DQ49 DQ50 DQ51 +3.3VA DQ52 NC	Memory address bus [11] +3.3 V Clock-1 input Memory address bus [12] Signal ground Clock enable signal Chip select signal-3 Output disable/write mask-6 Output disable/write mask-7 Memory address bus [13] +3.3 V Not connected Not connected Not connected Not connected Not connected Not connected Signal ground Memory data bus [48] Memory data bus [48] Memory data bus [49] Memory data bus [50] Memory data bus [51] +3.3 V Memory data bus [52] Not connected	
123 124 125 126 127 128 129 130 131 132 133 133 134 135 136 137 138 139 140 141 142 143 144 144 145 146 147	A11 +3.3VA NC(CLK1) A12 SG CEK /CS3 DQMB6 DQMB6 NC(A13) +3.3VA NC NC NC NC NC NC SG DQ48 DQ48 DQ50 DQ51 +3.3VA DQ52 NC NC NC NC NC	Memory address bus [11] +3.3 V Clock-1 input Memory address bus [12] Signal ground Clock enable signal Chip select signal-3 Output disable/write mask-6 Output disable/write mask-7 Memory address bus [13] +3.3 V Not connected Not connected Not connected Not connected Signal ground Memory data bus [48] Memory data bus [49] Memory data bus [50] Memory data bus [51] +3.3 V Memory data bus [51] +3.3 V Nemory data bus [52] Not connected Not connected	
123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 137 138 137 138 137 138 137 140 141 144 145 146 147 149	A11 +3.3VA NC(CLK1) A12 SG CEK /CS3 DQMB6 DQMB7 NC(A13) +3.3VA NC NC NC NC NC NC NC NC NC NC	Memory address bus [11] +3.3 V Clock-1 input Memory address bus [12] Signal ground Chip select signal Chip select signal-3 Output disable/write mask-6 Output disable/write mask-7 Memory address bus [13] +3.3 V Not connected Not connected Not connected Not connected Not connected Not connected Signal ground Memory data bus [48] Memory data bus [50] Memory data bus [51] +3.3 V Memory data bus [52] Not connected Not connected Not connected Signal ground Memory data bus [52] Not connected Not connected	
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123 124 125 126 127 129 130 131 132 133 134 135 136 137 136 137 138 139 140 141 142 143 144 145 144 145 146 147 148 149 151	A11 +3.3VA NC(CLK1) A12 SG CEK /CS3 DQMB6 DQMB7 NC(A13) +3.3VA NC NC NC NC NC NC NC NC NC NC NC NC NC	Memory address bus [11] +3.3 V Clock-1 input Memory address bus [12] Signal ground Clock enable signal Chip select signal-3 Output disable/write mask-6 Output disable/write mask-7 Memory address bus [13] +3.3 V Not connected Not connected Not connected Not connected Not connected Not connected Not connected Signal ground Memory data bus [49] Memory data bus [50] Memory data bus [51] +3.3 V Memory data bus [52] Not connected Not connected Not connected Not connected Signal ground Memory data bus [52] Not connected Not connected Not connected Not connected Not connected Not connected Not connected Not connected Not connected Not connected Signal ground Memory data bus [55] Signal ground Memory data bus [55]	
123 124 126 126 127 128 129 130 131 132 133 134 135 135 135 136 137 138 139 141 142 143 144 144 145 144 144 145 144 145 151 152 153 154	A11 +3.3VA NC(CLK1) A12 SG CEK /CS3 DQMB6 DQMB7 NC(A13) +3.3VA NC NC NC NC NC NC NC NC NC NC NC NC NC	Memory address bus [11] +3.3 V Clock-1 input Memory address bus [12] Signal ground Clock enable signal Chip select signal-3 Output disable/write mask-6 Output disable/write mask-7 Memory address bus [13] +3.3 V Not connected Not connected Not connected Not connected Not connected Not connected Signal ground Memory data bus [48] Memory data bus [48] Memory data bus [50] Memory data bus [50] Memory data bus [52] Not connected Not connected Signal ground Memory data bus [52] Not connected Signal ground Memory data bus [53] Memory data bus [53] Memory data bus [54] Memory data bus [55] Signal ground Memory data bus [55]	
123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 141 142 143 144 144 144 144 144 145 146 147 148 149 150 151 152 153 154 156	A11 +3.3VA NC(CLK1) A12 SG CEK /CS3 DQMB6 DQMB7 NC(A13) +3.3VA NC NC NC NC NC NC NC NC NC NC NC NC NC	Memory address bus [11] +3.3 V Clock-1 input Memory address bus [12] Signal ground Clock enable signal Chip select signal-3 Output disable/write mask-6 Output disable/write mask-7 Memory address bus [13] +3.3 V Not connected Not connected Not connected Not connected Signal ground Memory data bus [48] Memory data bus [49] Memory data bus [50] Memory data bus [51] +3.3 V Memory data bus [52] Not connected Not connected Signal ground Memory data bus [53] Memory data bus [53] Memory data bus [54] Memory data bus [55] Signal ground Memory data bus [55] Memory data bus [56] Memory data bus [57] Memory data bus [58] Memory data bus [59]	
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9	I MADI61	DOM address bus [6]	
10		ROW address bus [0]	-
10	MAD[8]	ROM address bus [8]	
11	MAD[10]	ROM address bus [10]	-
12		POM address bus [12]	+ -
13	MAD[14]	ROW address bus [14]	<u> </u>
14	MAD[16]	ROM address bus [16]	-
15	MAD[18]	ROM address bus [18]	-
16	SG	Signal ground	<u> </u>
17	SG	Signal ground	
18	MDT[1]	ROM data bus [1]	
19	MDT[3]	ROM data bus [3]	-
20	MDT[5]	ROM data bus [5]	-
21	MDT[7]	ROM data bus [7]	-
22	PNL_CS	Chip select signal	-
23	PNLDT1	D/L address bus [1]	1 -
24	PNI DT3	D/L address bus [3]	-
25	MAD(5)	ROM address bus [5]	-
25		ROM address bus [J]	-
26	MAD[7]	ROM address bus [7]	-
27	MAD[9]	ROM address bus [9]	-
28	MAD[11]	ROM address bus [11]	-
29	MAD[13]	ROM address bus [13]	-
30	MAD[15]	ROM address bus [15]	-
31	MADI171	ROM address bus [17]	-
32	ROMDT	ROM connection detection signal	-
33	+5 1\/B	+5.1 V	-
33		I ED drive signal	
34	ILED	LED drive signal	- 1
CN2	INV-FXP (CN	2) <-> P-FXPO	
Din No	Sumbol	L/ ··· El Exi o	Activo
PINNO	Symbol	Name	Active
1	-	Exposure lamp high-voltage output	-
2	NC	Not connected	
3	NC	Not connected	-
4	- 1	Exposure lamp high-voltage output	- 1
1400			
J422	rwa-r-DSP	(J4ZZ) <-> LCD PANEL	
Pin No	Symbol	Name	Active
1	YD	Y-axis touch position detection terminal-D	1 -
2	KL	X-axis touch position detection terminal-I	1 -
	VP	Y axis touch position detection terminal D	+
3		Arans louch position detection terminal-K	+ -
4	טזן	r-axis louch position detection terminal-U	<u> </u>
.1423	PWA-F-DSP	(J423) <-> LCD BACK LIGHT	
Din No	Symbol	Nome	Activo
PINNO	Symbol	Name	Active
1	CCFL+	High-voltage terminal	-
2	NC	Not connected	-
3	CCFL-	High-voltage terminal	-
-			
1404			
J424	PWA-F-DSP	(J424) <-> LCD PANEL	
Pin No	Symbol	Name	Active
1	FRAME	LCD scanning line start signal	-
2	LAOD	LCD data latch pulse	-
3	ICP	LCD data transmission clock	-
4	SG	Signal ground	-
4	15 11/4		-
5	+5.TVA	TJ. I V	-
	SG	Signal ground	-
6		Ground	-
6 7	VEE		
6 7 8	D.OFF	LCD enable signal	-
6 7 8 9	D.OFF D0	LCD enable signal LCD display data-0	-
6 7 8 9 10	D.OFF D0 D1	LCD enable signal LCD display data-0 LCD display data-1	-
6 7 8 9 10 11	VEE D.OFF D0 D1 D2	LCD enable signal LCD display data-0 LCD display data-1 LCD display data-2	-
6 7 8 9 10 11 12	VEE D.OFF D0 D1 D2 D3	LCD enable signal LCD display data-0 LCD display data-1 LCD display data-2 LCD display data-2	
6 7 8 9 10 11 12	VEE D.OFF D0 D1 D2 D3	LCD display data-0 LCD display data-1 LCD display data-1 LCD display data-2 LCD display data-3	- - - - -
6 7 8 9 10 11 12	VEE D.OFF D0 D1 D2 D3	LCD display data-0 LCD display data-1 LCD display data-1 LCD display data-2 LCD display data-3	- - - -
6 7 8 9 10 11 12 J425	VEE D.OFF D0 D1 D2 D3 PWA-F-DSP	LCD enable signal LCD display data-0 LCD display data-1 LCD display data-2 LCD display data-2 LCD display data-3 (J425) <-> PWA-F-KEY (J428)	- - - - -
6 7 8 9 10 11 12 J425 Pin No	VEE D.OFF D0 D1 D2 D3 PWA-F-DSP Symbol	LCD enable signal LCD display data-0 LCD display data-1 LCD display data-2 LCD display data-3 (J425) <-> PWA-F-KEY (J428) Name	- - - - - -
6 7 9 10 11 12 J425 Pin No 1	VEE D.OFF D0 D1 D2 D3 PWA-F-DSP Symbol LDFC-1	LCD enable signal LCD display data-0 LCD display data-1 LCD display data-2 LCD display data-3 (J425) <-> PWA-F-KEY (J428) Name LED driver output-1	- - - - - - - -
6 7 8 9 10 11 12 J425 Pin No 1 2	VEE D.OFF D0 D1 D2 D3 PWA-F-DSP Symbol LDFC-1 LDFC-2	LCD enable signal LCD display data-0 LCD display data-1 LCD display data-2 LCD display data-2 LCD display data-3 (J425) <-> PWA-F-KEY (J428) Name LED driver output-1 LED driver output-2	
6 7 8 9 10 11 12 J425 Pin No 1 2 2	VEE D.OFF D0 D1 D2 D3 PWA-F-DSP Symbol LDFC-1 LDFC-2 LDFC-2	LCD enable signal LCD display data-0 LCD display data-1 LCD display data-2 LCD display data-3 (J425) <-> PWA-F-KEY (J428) Name LED driver output-1 LED driver output-2 LED driver output-4	
6 7 8 9 10 11 12 J425 Pin No 1 2 3	VEE D.OFF D0 D1 D2 D3 PWA-F-DSP Symbol LDFC-1 LDFC-2 LDFC-4 LDFC-4	LCD enable signal LCD display data-0 LCD display data-1 LCD display data-2 LCD display data-3 (J425) <-> PWA-F-KEY (J428) Name LED driver output-1 LED driver output-2 LED driver output-4 LED driver output-4 LED driver output-5	
6 7 8 9 10 11 12 J425 Pin No 1 2 3 4	VEE D.OFF D0 D1 D2 D3 PWA-F-DSP Symbol LDFC-1 LDFC-2 LDFC-2 LDFC-5 LDFC-5	LCD enable signal LCD display data-0 LCD display data-1 LCD display data-2 LCD display data-2 LCD display data-3 (J425) <-> PWA-F-KEY (J428) Name LED driver output-1 LED driver output-2 LED driver output-2 LED driver output-4 LED driver output-5 LED driver output-5	
6 7 8 9 10 11 12 J425 Pin No 1 2 3 3 4 5	VEE D.OFF D0 D1 D2 D3 PWA-F-DSP Symbol LDFC-1 LDFC-2 LDFC-4 LDFC-5 LDFC-5 LDFC-5	LCD enable signal LCD display data-0 LCD display data-1 LCD display data-2 LCD display data-3 (J425) <-> PWA-F-KEY (J428) Name LED driver output-1 LED driver output-2 LED driver output-4 LED driver output-5 LED driver output-5 LED driver output-6	
6 7 9 10 11 12 J425 Pin No 1 2 3 4 5 6	VEE D.OFF D0 D1 D2 D3 PWA-F-DSP Symbol LDFC-1 LDFC-2 LDFC-2 LDFC-4 LDFC-5 LDFC-6 LDFC-7	LCD enable signal LCD display data-0 LCD display data-1 LCD display data-2 LCD display data-3 (J425) <-> PWA-F-KEY (J428) Name LED driver output-1 LED driver output-2 LED driver output-2 LED driver output-4 LED driver output-6 LED driver output-7	- - - - - - - - - - - - - - - - - - -
6 7 8 9 10 11 12 J425 Pin No 1 2 3 4 5 6 7	VEE D.OFF D0 D1 D2 D3 PWA-F-DSP Symbol LDFC-1 LDFC-2 LDFC-4 LDFC-5 LDFC-6 LDFC-7 LDFC-7 LDFC-8	LCD enable signal LCD display data-0 LCD display data-1 LCD display data-2 LCD display data-2 LCD display data-3 (J425) <-> PWA-F-KEY (J428) Name LED driver output-1 LED driver output-2 LED driver output-4 LED driver output-5 LED driver output-6 LED driver output-7 LED driver output-7 LED driver output-8	
6 7 8 9 10 11 12 J425 Pin No 1 2 3 4 5 6 7 8	VEE D.OFF D0 D1 D2 D3 D3 D3 D3 D3 D3 D4 CF-DSP LDFC-1 LDFC-2 LDFC-2 LDFC-5 LDFC-5 LDFC-6 LDFC-7 LDFC-8 LDFC-9	LCD enable signal LCD display data-0 LCD display data-1 LCD display data-2 LCD display data-3 (J425) <-> PWA-F-KEY (J428) Name LED driver output-1 LED driver output-2 LED driver output-2 LED driver output-5 LED driver output-5 LED driver output-6 LED driver output-7 LED driver output-7 LED driver output-8 LED driver output-8 LED driver output-9	- - - - - - - - - - - - - - - - - - -
6 7 8 9 10 11 12 J425 Pin No 1 2 3 4 5 6 7 7 8 9	VEE D.OFF D0 D1 D2 D3 PWA-F-DSP Symbol LDFC-1 LDFC-2 LDFC-4 LDFC-6 LDFC-6 LDFC-6 LDFC-7 LDFC-8 LDFC-9 LDFC-10	LCD enable signal LCD display data-0 LCD display data-1 LCD display data-2 LCD display data-2 LCD display data-3 (J425) <-> PWA-F-KEY (J428) Name LED driver output-1 LED driver output-2 LED driver output-2 LED driver output-4 LED driver output-5 LED driver output-6 LED driver output-6 LED driver output-8 LED driver output-9 LED driver output-9 LED driver output-10	- - - - - - - - - - - - - - - - - - -
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6 7 9 10 11 12 J425 Pin No 1 2 3 4 5 6 7 7 8 9 10	VEE D.OFF D0 D1 D2 D3 PWA-F-DSP Symbol LDFC-1 LDFC-2 LDFC-4 LDFC-5 LDFC-6 LDFC-6 LDFC-7 LDFC-8 LDFC-9 LDFC-10 LDFC-12	LCD enable signal LCD display data-0 LCD display data-1 LCD display data-2 LCD display data-3 (J425) <-> PWA-F-KEY (J428) Name LED driver output-1 LED driver output-2 LED driver output-4 LED driver output-5 LED driver output-6 LED driver output-6 LED driver output-7 LED driver output-9 LED driver output-10 LED driver output-11 LED driver output-12	
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6 7 8 9 10 11 12 J425 Pin No 1 2 3 4 5 6 7 8 9 10 11 12 2 3 4 5 6 7 7	VEE D.OFF D0 D1 D2 D3 PWA-F-DSP Symbol LDFC-1 LDFC-2 LDFC-5 LDFC-6 LDFC-7 LDFC-7 LDFC-8 LDFC-8 LDFC-9 LDFC-10 LDFC-11 LDFC-11 LDFC-12 LDFC-12 LDFC-15	LCD enable signal LCD display data-0 LCD display data-1 LCD display data-2 LCD display data-3 (J425) <-> PWA-F-KEY (J428) Name LED driver output-1 LED driver output-2 LED driver output-2 LED driver output-5 LED driver output-5 LED driver output-6 LED driver output-7 LED driver output-8 LED driver output-8 LED driver output-19 LED driver output-11 LED driver output-12 LED driver output-12 LED driver output-13 LED driver output-15 LED driver output-15 LED driver output-15 LED driver output-12 LED driver output-15 LED dri	
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6 7 9 10 11 12 J425 Pin No 1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15	VEE D.OFF D0 D1 D2 D3 D3 D4 D5 D2 D5 D5 D7 D7 D7 D7 D7 D7 D7 D7 D7 D7	LCD enable signal LCD display data-0 LCD display data-1 LCD display data-2 LCD display data-3 (J425) <-> PWA-F-KEY (J428) Name LED driver output-1 LED driver output-2 LED driver output-2 LED driver output-4 LED driver output-5 LED driver output-6 LED driver output-6 LED driver output-7 LED driver output-7 LED driver output-9 LED driver output-10 LED driver output-11 LED driver output-12 LED driver output-12 LED driver output-13 LED driver output-15 LED common driver signal-0 LED common driver signal-1	
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6 7 8 9 10 11 12 J425 Pin No 1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16 J426	VEE D.OFF D0 D1 D2 D3 PWA-F-DSP Symbol LDFC-1 LDFC-2 LDFC-4 LDFC-5 LDFC-6 LDFC-7 LDFC-7 LDFC-7 LDFC-7 LDFC-10 LDFC-10 LDFC-11 LDFC-12 LDFC-13 LDFC-15 LDON0 LDFC-15 SG PWA-F-DSP	LCD enable signal LCD display data-0 LCD display data-1 LCD display data-2 LCD display data-3 (J425) <-> PWA-F-KEY (J428) Name LED driver output-1 LED driver output-2 LED driver output-2 LED driver output-4 LED driver output-5 LED driver output-6 LED driver output-6 LED driver output-7 LED driver output-7 LED driver output-10 LED driver output-10 LED driver output-11 LED driver output-13 LED driver output-13 LED common driver signal-0 LED common driver signal-1 Signal ground Name	
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CN207	CN207 PWA-F-LRL (CN207) <-> PWA-F-SNS (CN202)					
Pin No	Symbol	Name	Active			
1	+5.1VD	+ 5.1 V	-			
2	SG	Signal ground	-			
3	BDIN-1	Laser beam position detection signal (H-sync)	-			

Pin No	Symbol	Name	Active
CN102	PWA-F-SYS	(CN102) <-> PWA-F-SLG (CN4)	
50	NC	NOT CONNECTED	-
49	SG	Signal ground	-
48	SG	Signal ground	-
47	FXWP	FAX wake-up signal	-
46	NC	Not connected	-
45	DMARQ	DMA request signal	-
44	/RESET	Reset signal	L
43	/DLDCS0	Chip select signal	-
42	/DMACK	DMA acknowledge signal	-
41	/DIOW	Data write signal	-
40	/DIOR	Data read signal	-
39	DD15	FAX data bus [15]	-
38	DD14	FAX data bus [14]	-
37	DD13	FAX data bus [13]	-
36	DD11	FAX data bus [11]	-
35	DD10	FAX data bus [10]	-
34	DD8	FAX data bus [8]	-
33	DD7	FAX data bus [7]	-
32	DD5	FAX data bus [5]	-
31	DD4	FAX data bus [4]	-
30	DD2	FAX data bus [2]	-
29	DD1	FAX data bus [1]	-
28	IDECS	IDE chip select signal	-
27	DA2	Address bus [2]	-
26	DA0	Address bus [0]	-
25	+12VB	+12 V	-
24	SG	Analog ground	-
23	-12VB	-12 V	-
22	+5.1VB	+5.1 V	-
21	+3.3VB	+3.3 V	-
20	INTRQ	Interrupt request signal	-
19	+3.3VB	+3.3 V	-

Pin No	Symbol	Name	Active
1	SYSRST	System reset signal	-
2	SCTS	Transmission enabled	-
3	STXD	Transmitted SLG data	-
4	SRXD	Received SLG data	-
5	SRTS	Transmission request signal	-
6	SCNT	SLG board connection detection signal	-
7	SG	Signal ground	-
8	SVDEN	Vertical scanning synchronized signal	-
9	SDCLK	Clock signal for scanning data transmission	-
10	SHDEN	Horizontal scanning synchronized signal	-
11	SG	Signal ground	-
12	SG	Signal ground	-
13	SCD7	Scanning data [7]	-
14	SCD6	Scanning data [6]	-
15	SCD5	Scanning data [5]	-
16	SCD4	Scanning data [4]	-
17	SCD3	Scanning data [3]	-
18	SCD2	Scanning data [2]	-
19	SCD1	Scanning data [1]	-
20	SCD0	Scanning data [0]	-

A17	IVSYNC-0	Vertical scanning synchronized signal	-
B1	MCNT	LGC board connection detection signal	-
B2	SYSRST-0	System reset signal	L
B3	IDATX[0]	IDA Transmitted data bus [0]	-
B4	IDATX[1]	IDA Transmitted data bus [1]	-
B5	IDATX[2]	IDA Transmitted data bus [2]	-
B6	IDATX[3]	IDA Transmitted data bus [3]	-
B7	IDATX[4]	IDA Transmitted data bus [4]	-
B8	IDATX[5]	IDA Transmitted data bus [5]	-
B9	IDATX[6]	IDA Transmitted data bus [6]	-
B10	IDATX[7]	IDA Transmitted data bus [7]	-
B11	SG	Signal ground	-
B12	IDCLK-1	Clock signal output for image data transmission	-
B13	SG	Signal ground	-
B14	IHDEN-0	Data enable of the horizontal scanning direction	-
B15	SG	Signal ground	-
B16	IVDEN-0	Data enable of the vertical scanning direction	-
B17	+3.3VB	+3.3 V	-

CN118 PWA-F-SYS (CN118) <-> PWA-F-DSP

Pin No	Symbol	Name	Active
1	XSCL-1A	LCD data transmission clock	-
2	LP-1A	LCD data latch pulse	Н
3	WF-1A	LCD frame signal	н
4	YD-1A	LCD scanning line start signal	Н
5	INVGND	Signal ground	-
6	BZON-0A	Buzzer-ON signal	L
7	CPPOW-1A	Panel connection detection signal	Н
8	LDCLK-1A	LED serial clock	-
9	LDDAT-1A	LED serial data	-
10	LDLTH-1A	LED data latch signal	L
11	LDON1-0A	LED drive selection signal-1	L
12	LDON0-0A	LED drive selection signal-0	L
13	SG	Signal ground	-
14	+5.1VB	+5.1 V	-
15	+5.1VB	+5.1 V	-
16	+5.1VB	+5.1 V	-
17	+5.1VB	+5.1 V	-
18	CPRST-0A	Reset signal	L
19	SG	Signal ground	-
20	RTS0-0A	Key controller SIO Transmission request signal	-
21	CTS0-0A	Key controller SIO Transmission enabled signal	-
22	SOUT(0)	Key controller SIO transmitted serial data	-
23	SIN(0)	Key controller SIO received serial data	-
24	SG	Signal ground	-
25	UD3-1A	LCD display data-3	-
26	UD2-1A	LCD display data-2	-
27	UD1-1A	LCD display data-1	-
28	UD0-1A	LCD display data-0	-
29	SG	Signal ground	-
30	LCDEN-1A	I CD enable signal	Н

CN119 PWA-F-SYS (CN119) <-> USB DEVICI

Pin No	Symbol	Name	Active
1	VBUS	(+5.1 V)	-
2	D-	USB serial data	-
3	D+	USB serial data	-
4	SG	Signal ground	-

CN120 PWA-F-SYS (CN120) <-> USB HOST Pin No Symbol Name

1	VBUS	+5.1 V	-
2	D-	USB serial data	-
3	D+	USB serial data	-
4	SG	Signal ground	-
5	VBUS	+5.1 V	-
6	D-	USB serial data	-
7	D+	USB serial data	-
8	SG	Signal ground	-

10	Symbol	Name	Active
	-	High-voltage to main needle electrode charger	-
	PS-HVI (OU Symbol	12) <-> HV I-GRID	Active
	Oyinboi	High-voltage to main charger grid	Active
1	PS-HVT (OU	T3) <-> HVT-DEV	
,	Symbol	Name	Active
	-	High-voltage to developer charger bias	-
4 1	PS-HVT (OU	T4) <-> HVT-TR	
0	Symbol	Name	Active
	-	High-voltage to transfer charger bias	-
5 1	PS-HVT (OU	T5) <-> HVT-SEP	
٥	Symbol	Name	Active
	-	nign-voltage to separation charger bias	-
;	PS-HVT (OU	T6) <-> HVT-GB/RGT-ROL	
٥	Symbol	Name	Active
	-	High-voltage to transfer guide bias and registra-	-
		tion roller bias	
		(CN213) <-> ADULTRI _SNR	
	WA-I -ADU		
	Symbol	Name	Active
	SG Symbol	Name Signal ground	Active
	SG ADUFL	Name Signal ground ADU exit sensor detection signal	Active -
	SG ADUFL +5.1VB	Name Signal ground ADU exit sensor detection signal + 5.1 V	Active - - -
4	Symbol SG ADUFL +5.1VB PWA-F-ADU	Name Signal ground ADU exit sensor detection signal + 5.1 V (CN214) <-> ADU-TRU-SNR	Active - - -
	Symbol SG ADUFL +5.1VB PWA-F-ADU Symbol	Name Signal ground ADU exit sensor detection signal + 5.1 V (CN214) <-> ADU-TRU-SNR Name	Active
	SG ADUFL +5.1VB PWA-F-ADU Symbol SG	Name Signal ground ADU exit sensor detection signal + 5.1 V (CN214) <-> ADU-TRU-SNR Name Signal ground	Active Active
	SG ADUFL +5.1VB PWA-F-ADU Symbol SG ADUFU	Name Signal ground ADU exit sensor detection signal + 5.1 V (CN214) <-> ADU-TRU-SNR Name Signal ground ADU entrance sensor detection signal	Active Active
	Sg ADUFL +5.1VB PWA-F-ADU Symbol SG ADUFU +5.1VB	Name Signal ground ADU exit sensor detection signal + 5.1 V (CN214) <-> ADU-TRU-SNR Name Signal ground ADU entrance sensor detection signal + 5.1 V	Active Active Active
4 I	SG ADUFL +5.1VB PWA-F-ADU Sg ADUFU +5.1VB PWA-F-ADU Symbol Symbol	Name Signal ground ADU exit sensor detection signal + 5.1 V (CN214) <-> ADU-TRU-SNR Name Signal ground ADU entrance sensor detection signal + 5.1 V (CN215) <-> ADU-MOT Name	Active
	Symbol SG ADUFL +5.1VB PWA-F-ADU Symbol SG ADUFU +5.1VB PWA-F-ADU Symbol SG PWA-F-ADU Symbol Sg PWA-F-ADU Symbol	Name Name Signal ground ADU exit sensor detection signal + 5.1 V (CN214) <-> ADU-TRU-SNR Signal ground ADU entrance sensor detection signal + 5.1 V (CN215) <-> ADU-MOT Name + 24 V	Active
	Symbol Sg ADUFL +5.1VB PWA-F-ADU Symbol SG ADUFU +5.1VB PWA-F-ADU Symbol SG ADUFU +5.1VB PWA-F-ADU Symbol FDMA	Name Name Signal ground ADU exit sensor detection signal + 5.1 V (CN214) <-> ADU-TRU-SNR Signal ground ADU entrance sensor detection signal + 5.1 V (CN215) <-> ADU-MOT V Name +24 V ADU motor drive signal-A	Active Active Active Active
	Symbol SG ADUFL +5.1VB PWA-F-ADU Sg ADUFU +5.1VB PWA-F-ADU Symbol SG #2000000000000000000000000000000000000	Name Signal ground ADU exit sensor detection signal + 5.1 V (CN214) <-> ADU-TRU-SNR Name Signal ground ADU entrance sensor detection signal + 5.1 V (CN215) <-> ADU-MOT Name + 24 V ADU motor drive signal-A ADU motor drive signal-B	Active
	Symbol SG ADUFL +5.1VB PWA-F-ADU Symbol SG ADUFU +5.1VB PWA-F-ADU Symbol +5.1VB PWA-F-ADU Symbol +24VD2 FDMA FDMC	Name Signal ground ADU exit sensor detection signal + 5.1 V (CN214) <-> ADU-TRU-SNR Name Signal ground ADU entrance sensor detection signal + 5.1 V (CN215) <-> ADU-MOT + 24 V ADU motor drive signal-B ADU motor drive signal-C	Active
	Symbol Sg ADUFL +5.1VB PWA-F-ADU Symbol SG ADUFU +5.1VB PWA-F-ADU Symbol +5.1VB PWA-F-ADU Symbol +24VD2 FDMA FDMB FDMC FDMD	Name Name Signal ground ADU exit sensor detection signal + 5.1 V (CN214) <-> ADU-TRU-SNR Signal ground ADU entrance sensor detection signal + 5.1 V (CN215) <-> ADU-MOT Paper Heat Colspan="2">Name + 24 V ADU motor drive signal-A ADU motor drive signal-B ADU motor drive signal-C ADU motor drive signal-D	Active
	Symbol Sg ADUFL +5.1VB PWA-F-ADU Symbol SG ADUFU +5.1VB PWA-F-ADU Symbol SG ADUFU +5.1VB PWA-F-ADU Symbol +24VD2 FDMA FDMC FDMC FDMC FDMC FDMC FDMD +24VD2	Name Signal ground ADU exit sensor detection signal + 5.1 V (CN214) <-> ADU-TRU-SNR Name Signal ground ADU entrance sensor detection signal + 5.1 V (CN215) <-> ADU-MOT V + 24 V ADU motor drive signal-A ADU motor drive signal-B ADU motor drive signal-C ADU motor drive signal-D + 24 V	Active
	Symbol Sg ADUFL +5.1VB PWA-F-ADU Symbol SG ADUFL +5.1VB PWA-F-ADU Symbol SG ADUFU +5.1VB PWA-F-ADU Symbol +24VD2 FDMA FDMB FDMD +24VD2 POMD +24VD2	Name Signal ground ADU exit sensor detection signal + 5.1 V (CN214) <> ADU-TRU-SNR Name Signal ground ADU entrance sensor detection signal + 5.1 V (CN215) <-> ADU-MOT V (CN215) <-> ADU-MOT Name +24 V ADU motor drive signal-A ADU motor drive signal-B ADU motor drive signal-C ADU motor drive signal-D +24 V (CN217) <-> ADU-SET-SW	Active
	Symbol Sg ADUFL +5.1VB PWA-F-ADU Symbol SG ADUFU +5.1VB PWA-F-ADU Symbol +24VD2 FDMB FDMB FDMC FDMB +24VD2 PWA-F-ADU Symbol +24VD2 PWA-F-ADU Symbol	Name Name Signal ground ADU exit sensor detection signal + 5.1 V (CN214) <-> ADU-TRU-SNR Signal ground ADU entrance sensor detection signal + 5.1 V (CN215) <-> ADU-MOT + 5.1 V (CN215) <-> ADU-MOT + 24 V ADU motor drive signal-A ADU motor drive signal-B ADU motor drive signal-C ADU motor drive signal-D +24 V (CN217) <-> ADU-SET-SW Name	Active
	WA-F-ADU Symbol SG ADUFL +5.1VB PWA-F-ADU Symbol SG ADUFU +5.1VB PWA-F-ADU Symbol FDMA FDMA FDMC FDMC FDMD +24VD2 PWA-F-ADU Symbol SG	Name Name Signal ground ADU exit sensor detection signal + 5.1 V (CN214) <-> ADU-TRU-SNR Name Signal ground ADU entrance sensor detection signal + 5.1 V (CN215) <-> ADU-MOT Name +24 V ADU motor drive signal-A ADU motor drive signal-C ADU motor drive signal-D +24 V (CN217) <-> ADU-SET-SW Name Signal ground	Active

05/11

10.4 DC Wire Harness (e-STUDIO202L/203L/232/233/282/283)



10.5 Connector Table (e-STUDIO202L/203L/232/233/282/283)

CN301 PWA-F-LGC (CN301) <-> COIN CONTROLLER (OPTION)/ COPY KEY CARD (OPTION) Pin No Symbol Name Active A1 +24VD2 +24 V A2 CTRON Total counter ON signal A3 CTRCNT Copy key card connection detection signal L A4 M/C RUN M/C run signal L A5 EXTCTR Exit sensor ON signal L A6 PG Power ground A7 BKCTR Black and white mode counter ON signal and CST-CTR signal A8 MNCTR Mono-color mode counter ON signal and reverse side counter Signal Active B1 FLCTR Full color mode counter on signal and i side counter signal Signal ground Paper size signal-3 Paper size signal-2 Paper size signal-1 Paper size signal-0 +5.1 V Copy key card /Coin counter judgment s B2 SG B3 TSIZE3 B4 TSIZE2 B5 TSIZE1 B6 TSIZE0 B7 +5.1VB B8 CTRCNT2

CN302 PWA-F-LGC (CN302) <-> KEY COPY COUNTER (OPTION)

	Pin No	Symbol	Name	Active
	1	NC	Not connected	-
ſ	2	SG	Signal ground	
ſ	3	KCTRC-0	Key copy counter/Copy key card connection detection signal	L
ſ	4	+24VD2	+24 V	-
[5	KCTRO-0	Key copy counter ON signal	-
	6	NC	Not connected	-

CN303 PWA-F-LGC (CN303) <-> LP-ERS, ATTNR-SNR, THMS-DRM, MAIN-SW (RESET), TEMP/HUMI-SNR, FRNT-COV-SW

(e-STUDIO202L/203L)					
Pin No	Symbol	Name	Active		
A1	ATSCNT-1	PU connection detection signal	L		
A2	ERSLP-0A	Exposure lamp drive signal	-		
A3	+24VD1	+24 V	-		
A4	PG	Power ground	-		
A5	ATS-1A	Auto-toner sensor detection signal	Analog		
A6	+24VD1	+24 V (Auto-toner sensor)	-		
A7	ATSVR-1A	Auto-toner sensor detection signal	Analog		
A8	DRTH-1	Drum thermistor detection signal	Analog		
A9	SG	Signal ground	-		
A10	SG	Signal ground	-		
B1	RSTSW-0A	Reset signal to the main switch	Н		
B2	+24VD1	+24 V	-		
B3	+5.1VB	+5.1 V	-		
B4	HMS-1A	Humidity sensor signal	Analog		
B5	SG	Signal ground	-		
B6	TEMP-1	Temperature sensor signal	Analog		
B7	FCOVSW-1	Front cover opening/closing switch signal	-		
B8	SG	Signal ground	-		
B9	NC	Not connected	-		
B10	NC	Not connected	-		

CN303 PWA-F-LGC (CN303) <-> LP-ERS, ATTNR-SNR, THMS-DRM, MAIN-SW (RESET), TEMP/HUMI-SNR, FRNT-COV-SW

	(e-STUDIO2	232/233)				
Pin No	Symbol	Name	Active			
A1	ATSCNT-1	PU connection detection signal	L			
A2	ERSLP-0A	Exposure lamp drive signal	-			
A3	+24VD1	+24 V	-			
A4	PG	Power ground	-			
A5	ATS-1A	Auto-toner sensor detection signal	Analog			
A6	+24VD1	+24 V (Auto-toner sensor)	-			
A7	ATSVR-1A	Auto-toner sensor detection signal	Analog			
A8	DRTH-1	Drum thermistor detection signal	Analog			
A9	SG	Signal ground	-			
A10	SG	Signal ground	-			
A11	NC	Not connected	-			
B1	NC	Not connected	-			
B2	RSTSW-0A	Reset signal to the main switch	Н			
B3	+24VD1	+24 V	-			
B4	+5.1VB	+5.1 V	-			
B5	HMS-1A	Humidity sensor signal	Analog			
B6	SG	Signal ground	-			
B7	TEMP-1	Temperature sensor signal	Analog			
B8	FCOVSW-1	Front cover opening/closing switch signal	-			
B9	SG	Signal ground	-			
B10	NC	Not connected	-			
B11	NC	Not connected	-			

CN303 PWA-F-LGC (CN303) <-> LP-ERS, ATTNR-SNR, THMS-DRM, MAIN-SW (RESET), TEMP/HUMI-SNR, FRNT-COV-SW

	(e-STUDIO282/283)					
Pin No	Symbol	Name	Active			
A1	ATSCNT-1	PU connection detection signal	L			
A2	ERSLP-0A	Exposure lamp drive signal	-			
A3	+24VD1	+24 V	-			
A4	PG	Power ground	-			
A5	ATS-1A	Auto-toner sensor detection signal	Analog			
A6	+24VD1	+24 V (Auto-toner sensor)	-			
A7	ATSVR-1A	Auto-toner sensor detection signal	Analog			
A8	DRTH-1	Drum thermistor detection signal	Analog			
A9	SG	Signal ground	-			
A10	SG	Signal ground	-			
A11	NC	Not connected	-			
A12	NC	Not connected	-			
B1	CPSW2-0	Not used	-			
B2	SG	Signal ground	-			
B3	RSTSW-0A	Reset signal to the main switch	Н			
B4	+24VD1	+24 V	-			
B5	+5.1VB	+5.1 V	-			
B6	HMS-1A	Humidity sensor signal	Analog			
B7	SG	Signal ground	-			
B8	TEMP-1	Temperature sensor signal	Analog			
B9	FCOVSW-1	Front cover opening/closing switch signal	L			
B10	SG	Signal ground	-			
B11	NC	Not connected	-			
B12	NC	Not connected				

Pin No	Symbol	Name	Active
A1	CLKC-1A	PFP/LCF driver control latch signal (C)	-
A2	CLKB-1A	PFP/LCF driver control latch signal (B)	-
A3	SCSWC-0A	PFP/LCF sensor detection port enable signal (C)	-
A4	DRV7-1A	PFP/LCF driver control signal	-
A5	DRV6-1A	PFP/LCF driver control signal	-
A6	DRV5-1A	PFP/LCF driver control signal	-
A7	DRV4-1A	PFP/LCF driver control signal	-
A8	DRV3-1A	PFP/LCF driver control signal	-
A9	DRV2-1A	PFP/LCF driver control signal	-
A10	DRV1-1A	PFP/LCF driver control signal	-
A11	DRV0-1A	PFP/LCF driver control signal	-
A12	PFRST-0	Reset signal	-
A13	+5.1VB	+5.1 V	-
A14	SG	Signal ground	-
A15	+24VD1	+24 V	-
A16	+24VD1	+24 V	-
B1	PG	Power ground	-
B2	PG	Power ground	-
B3	SIZE0-0A	Size data bus-0	-
B4	SIZE1-0A	Size data bus-1	-
B5	SIZE2-0A	Size data bus-2	-
B6	SIZE3-0A	Size data bus-3	-
B7	RETS0-0A	PFP/LCF sensor detection signal	-
B8	RETS1-0A	PFP/LCF sensor detection signal	-
B9	RETS2-0A	PFP/LCF sensor detection signal	-
B10	RETS3-0A	PFP/LCF sensor detection signal	-
B11	RETS4-0A	PFP/LCF sensor detection signal	-
B12	RETS5-0A	PFP/LCF sensor detection signal	-
B13	RETS6-0A	PFP/LCF sensor detection signal	-
B14	RETS7-0A	PFP/LCF sensor detection signal	-
B15	SCSWB-0A	PFP/LCF sensor detection port enable signal (B)	-
B16	LCCNT-0	LCF connection detection signal	L

CN312 PWA-F-LGC (CN312) <-> M/DC-POL

Pin No	Symbol	Name	Active
1	POMCK-0	Polygonal motor reference clock signal	-
2	POMOL-0	Polygonal motor PLL signal	L: Norma
3	POMON-0	Polygonal motor ON/OFF signal	L: ON H: OFF
4	PG	Power ground	-
5	+24VD1	+24 V	-

CN313 PWA-F-LGC (CN313) <-> PWA-F-LRL (CN204)

Pin No	Symbol	Name	Active
1	SG	Signal ground	-
2	+5VD	+5.1 V	-
3	+5VD	+5.1 V	-
4	SG	Signal ground	-
5	WRLVL-1	Laser power control signal (reference voltage)	-
6	SG	Signal ground	-
7	BDIN-1	Laser beam position detection signal (H-sync)	-
8	SG	Signal ground	-
9	PIDT-1	Laser image data (differential signal +)	-
10	PIDT-0	Laser image data (differential signal -)	-
11	SG	Signal ground	-
12	WRAPC-0	APC write signal	-
13	+5.1VB	+5.1 V	-
14	SHDWM-1	Laser shut down signal	-
15	SG	Signal ground	-
16	+5.1VD	+5.1 V	
17	+5.1VD	+5.1 V	-
18	SG	Signal ground	-

CN316 PWA-F-LGC (CN316) <-> DOWNLOAD JIG (LGC) Pin No Symbol Name

Active

1	D[0]	ROM data bus [0]	-
2	D[2]	ROM data bus [2]	-
3	D[4]	ROM data bus [4]	-
4	D[6]	ROM data bus [6]	-
5	RD-0	ROM data read signal	-
6	A[0]	ROM address bus [0]	-
7	A[2]	ROM address bus [2]	-
8	A[4]	ROM address bus [4]	-
9	A[6]	ROM address bus [6]	-
10	A[8]	ROM address bus [8]	-
11	A[10]	ROM address bus [10]	-
12	A[12]	ROM address bus [12]	-
13	A[14]	ROM address bus [14]	-
14	A[16]	ROM address bus [16]	-
15	A[18]	ROM address bus [18]	-
16	SG	Signal ground	-
17	SG	Signal ground	-
18	D[1]	ROM data bus [1]	-
19	D[3]	ROM data bus [3]	-
20	D[5]	ROM data bus [5]	-
21	D[7]	ROM data bus [7]	-
22	CS2-0	Chip select signal	L
23	A[1]	ROM address bus [1]	-
24	A[3]	ROM address bus [3]	-
25	A[5]	ROM address bus [5]	-
26	A[7]	ROM address bus [7]	-
27	A[9]	ROM address bus [9]	-
28	A[11]	ROM address bus [11]	-
29	A[13]	ROM address bus [13]	-
30	A[15]	ROM address bus [15]	-
31	A[17]	ROM address bus [17]	-
32	ROMDT-0	Download board connection detection signal	L
33	+5.1VB	+5.1 V	-
34	LED-0A	External ROM loading status signal	L
CN317	PWA-F-LGC	C (CN317) <-> IPC BOARD (OPTION)	
Pin No	Symbol	Name	Active
1	SG	Signal ground	-
2	+5.1VB	+5.1 V	-
3	AD0	System address bus [0]	-
4	AD2	System address bus [2]	-
5	AD4	System address bus [4]	-

/stem address bus System data bus [0] System data bus [2]

System data bus [4 System data bus Signal ground Write signal

9 I/O4 10 I/O6

CN105 Pin No	PWA-F-SYS Symbol	(CN105) <-> DDR DIMM Name	Active
1	VREF DQ0	Reference voltage Memory data bus [0]	-
3 4	SG DQ1	Signal ground Memory data bus [1]	-
5 6 7	DQS0 DQ2 VDD	Memory data bus [2]	-
8	DQ3 NC	Memory data bus [3] Not connected	-
10 11	NC SG	Not connected Signal ground	-
12 13	DQ8 DQ9	Memory data bus [8] Memory data bus [9]	-
14 15 16	VDD CK1	+2.5 V	-
17 18	/CK1 SG	Differential clock-1 input Signal ground	-
19 20	DQ10 DQ11	Memory data bus [10] Memory data bus [11]	-
21 22	CKE0 VDD	Clock enable signal +2.5 V	-
23 24	DQ16 DQ17	Memory data bus [16] Memory data bus [17] Data draha signal [2]	-
26 27	SG A9	Signal ground Memory address bus [9]	-
28 29	DQ18 A7	Memory data bus [18] Memory address bus [7]	-
30 31	VDD DQ19	+2.5 V Memory data bus [19]	-
32 33	A5 DQ24	Memory address bus [5] Memory data bus [24]	-
34 35 36	DQ25	Memory data bus [25]	-
37 38	A4 VDD	Memory address bus [2] +2.5 V	-
39 40	DQ26 DQ27	Memory data bus [26] Memory data bus [27]	-
41 42	A2 SG	Memory address bus [1] Signal ground	-
43 44 45	CB0	Nemory address bus [1] Not used	-
46 47	VDD DQS8	+2.5 V Data strobe signal [8]	-
48 49	A0 CB2	Memory address bus [0] Not used	-
50 51	SG CB3	Signal ground Not used	-
52 53	BA1 DQ32	Bank select-1 Memory data bus [32]	-
54 55 56	DQ33	+2.5 V Memory data bus [33] Data strobe signal [4]	-
57 58	DQ34 SG	Memory data bus [34] Signal ground	-
59 60	BA0 DQ35	Bank select-0 Memory data bus [35]	-
61 62	DQ40 VDD	Memory data bus [40] +2.5 V	-
63 64	/WE DQ41	Data write enable signal Memory data bus [41]	-
65 66 67	SG DOS5	Signal ground	-
68 69	DQ42 DQ43	Memory data bus [42] Memory data bus [43]	-
70 71	VDD NC	+2.5 V Not connected	
72 73	DQ48 DQ49	Memory data bus [48] Memory data bus [49]	-
74 75	SG /CK2	Signal ground Differential clock-2 input	-
76 77	VDD	+2.5 V	-
78 79 80	DQS6 DQ50	Memory data bus [50]	-
81 82	SG VDD-ID	Signal ground Not used	-
83 84	DQ56 DQ57	Memory data bus [56] Memory data bus [57]	-
85 86	VDD DQS7	+2.5 V Data strobe signal [7]	-
87 88	DQ58 DQ59	Memory data bus [58] Memory data bus [59]	-
90 91	WP SDA	Not connected Presence-detect serial data	-
91 92 93	SCL SG	Presence-detect serial clock	-
94 95	DQ4 DQ5	Memory data bus [4] Memory data bus [5]	-
96 97	VDD DM0	+2.5 V Data write mask signal [0]	-
98 99	DQ6 DQ7	Memory data bus [6] Memory data bus [7]	-
100	SG NC	Signal ground Not connected	-
102 103 104	NC NC	Not connected	-
104	DQ12 DQ13	Memory data bus [12] Memory data bus [13]	-
107 108	DM1 VDD	Data write mask signal [1] +2.5 V	-
109 110	DQ14 DQ15	Memory data bus [14] Memory data bus [15]	-
111 112	CKE1 VDD	Clock enable signal +2.5 V	-
113 114 115	DQ20	Not connected Memory data bus [20] Memory address bus [12]	-
116	SG DQ21	Signal ground	-
118 119	A11 DM2	Memory address bus [11] Data write mask signal [2]	-
120 121	VDD DQ22	+2.5 V Memory data bus [22]	-
122	A8 DQ23	Memory address bus [4] Memory data bus [23] Signal around	-
125	A6	Memory data bus [28]	-
127 128	DQ29 VDD	Memory data bus [29] +2.5 V	-
129 130	DM3 A3	Data write mask signal [3] Memory address bus [3]	-
131 132	DQ30 SG	Memory data bus [30] Signal ground	-
133	CB4 CB5	Nemory data bus [31] Not used	-
135 136 137	VDD CK0	+2.5 V Clock-0 input	-
138 139	/CK0 SG	Differential clock-0 input Signal ground	-
140 141	DM8 A10	Data write mask signal [8] Memory address bus [10]	-
142 143	CB6 VDD	Not used +2.5 V	-
144 145	SG	Signal ground	-
140 147 148	DQ37 VDD	Memory data bus [37] +2.5 V	-
149	DM4 DQ38	Data write mask signal [4] Memory data bus [38]	-
151 152	DQ39 SG	Memory data bus [39] Signal ground	-
153 154	/RAS	Row address strobe signal	-
155 156 157	VDD /CS0	+2.5 V Chip select signal-0	-
158 159	/CS1	Chip select signal-1 Data write mask signal [5]	-
160	DM5		
161	SG DQ46	Signal ground Memory data bus [46]	-
161 162 163	DM5 SG DQ46 DQ47 NC	Signal ground Memory data bus [46] Memory data bus [47] Not connected	•
160 161 162 163 164 165	DM5 SG DQ46 DQ47 NC VDD DQ52 DQ52	Signal ground Wemory data bus [46] Memory data bus [47] Not connected +2.5 V Memory data bus [52] Memory data bus [52]	
160 161 162 163 164 165 166 167 168	DM5 SG DQ46 DQ47 NC VDD DQ52 DQ53 NC VDD	Signal ground Memory data bus [46] Memory data bus [47] Not connected +2.5 V Memory data bus [52] Memory data bus [53] Not connected +2.5 V	- - - - - - - -
160 161 162 163 164 165 166 167 168 169 170	DM5 SG DQ46 DQ47 NC VDD DQ52 DQ53 NC VDD DDD DQ52 DQ53 NC VDD DM6 DQ54	Signal ground Memory data bus [46] Memory data bus [47] Not connected +2.5 V Memory data bus [52] Memory data bus [53] Not connected +2.5 V Data write mask signal [6] Memory data bus [54]	- - - - - - - - - - - - -
160 161 162 163 164 165 166 167 168 169 170 171 172	DM5 SG DQ46 DQ47 NC VDD DQ52 DQ53 NC VDD DM6 DQ55 VDD	Signal ground Memory data bus [46] Memory data bus [47] Not connected +2.5 V Memory data bus [52] Memory data bus [53] Not connected +2.5 V Data write mask signal [6] Memory data bus [54] Memory data bus [55] +2.5 V	
161 162 163 164 165 166 167 168 169 170 171 172 173 174	DM5 SG DQ46 DQ47 NC VDD DQ52 DQ53 NC VDD DQ52 DQ53 NC VDD DM6 DQ55 VQ55 VDD NC DQ600 DQ600	Signal ground of the second se	
161 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177	DM5 SG DQ46 DQ47 NC VDD DQ52 DQ53 NC VDD DM6 DQ55 VDD DQ55 VDD DQ65 VDD DQ60 DQ61 SG DM7	Signal ground Memory data bus [46] Memory data bus [47] Not connected +2.5 V Memory data bus [52] Memory data bus [53] Not connected +2.5 V Data write mask signal [6] Memory data bus [54] Memory data bus [55] +2.5 V Not connected Memory data bus [60] Memory data bus [60] Memory data bus [61] Signal ground Data write mask signal [7]	- - - - - - - - - - - - - - - - - - -
161 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 177	DM5 SG DQ46 DQ47 NC VDD DQ52 DQ53 NC VDD DQ54 DQ55 VDD NC VDD DQ65 VDD NC DQ60 DQ61 SG DM7 DQ62 DQ63	Signal ground Memory data bus [46] Memory data bus [47] Not connected +2.5 V Memory data bus [52] Memory data bus [53] Not connected +2.5 V Data write mask signal [6] Memory data bus [55] +2.5 V Not connected Memory data bus [55] +2.5 V Not connected Memory data bus [60] Memory data bus [61] Signal ground Data write mask signal [7] Memory data bus [62]	
161 161 162 163 165 166 167 1689 170 171 172 173 174 175 176 177 178 179 180 181	DM5 SG DQ46 DQ47 NC VDD DQ52 DQ53 NC VDD DQ54 DQ55 VDD DQ55 VDD DQ60 DQ61 SG DM6 DQ62 DQ63 VDD	Signal ground 0 6 7 7 Memory data bus [46] Memory data bus [47] Not connected +2.5 V Memory data bus [52] Memory data bus [53] Not connected +2.5 V Data write mask signal [6] Memory data bus [54] Memory data bus [55] +2.5 V Not connected Memory data bus [60] Memory data bus [60] Memory data bus [61] Signal ground Data write mask signal [7] Memory data bus [62] Memory data bus [63] +2.5 V	
161 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 182 183	DM5 SG DQ46 DQ47 NC VDD DQ52 DQ53 NC VDD DQ54 DQ55 VDD NC VDD DQ65 VDD NC DQ60 DQ61 SG DM7 DQ62 DQ63 VDD SA1 SA2	Signal ground of the second se	
161 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 184	DM5 SG DQ46 DQ47 NC VDD DQ52 DQ53 NC VDD DQ54 DQ55 VDD DQ55 VDD DQ60 DQ61 SG DM6 DQ62 DQ63 VDD SA1 SA2 +3.3VA	Signal ground Memory data bus [46] Memory data bus [47] Not connected +2.5 V Memory data bus [52] Memory data bus [53] Not connected +2.5 V Data write mask signal [6] Memory data bus [54] Memory data bus [55] +2.5 V Not connected Memory data bus [60] Memory data bus [60] Memory data bus [61] Signal ground Data write mask signal [7] Memory data bus [62] Memory data bus [63] +2.5 V Presence-detect address [0] Presence-detect address [2] +3.3 V	
161 162 163 164 165 166 167 168 169 170 171 172 177 173 176 177 178 176 177 180 181 182 183 184 CN109 Pin No	DM5 SG DQ46 DQ47 NC VDD DQ52 DQ53 NC VDD DQ54 DQ54 DQ54 DQ55 VDD NC DQ60 DQ61 SG DM7 DQ62 DQ61 SG DM7 DQ62 DQ63 VDD SA0 SA1 SA2 +3.3VA	Signal ground 0 1 Memory data bus [46] Memory data bus [47] Not connected +2.5 V Memory data bus [52] Memory data bus [53] Not connected +2.5 V Data write mask signal [6] Memory data bus [55] +2.5 V Not connected Memory data bus [55] +2.5 V Not connected Memory data bus [61] Signal ground Data write mask signal [7] Memory data bus [62] Memory data bus [63] +2.5 V Presence-detect address [0] Presence-detect address [1] Presence-detect address [2] +3.3 V CN109) <-> PWA-F-LGC (CN309) Name Name	
161 161 162 163 164 165 166 167 168 169 171 172 173 174 175 176 177 178 179 180 181 182 183 184 CN109 Pin No A1 A2	DM5 SG DQ46 DQ47 NC VDD DQ52 DQ53 NC VDD DQ53 NC DQ55 VDD DQ60 DQ60 DQ60 DQ61 SG DM7 DQ62 DQ63 VDD DQ61 SG SA0 SA1 SA2 +3.3VA PWA-F-SYS Symbol +5.1VB CBSY-0 CMD-0	Signal ground 0 (1) Memory data bus [46] Memory data bus [47] Not connected +2.5 V Memory data bus [52] Memory data bus [53] Not connected +2.5 V Data write mask signal [6] Memory data bus [55] +2.5 V Not connected Memory data bus [60] Memory data bus [61] Signal ground Data write mask signal [7] Memory data bus [63] +2.5 V Presence-detect address [0] Presence-detect address [1] Presence-detect address [2] +3.3 V (CN109) <-> PWA-F-LGC (CN309) Name +5.1 V System command busy Command data	
161 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 180 181 182 183 184 CN109 Pin No A1 A2 A3 A4	DM5 SG DQ46 DQ47 NC VDD DQ52 DQ53 NC VDD DQ54 DQ55 VDD NC DQ60 DQ61 SG DM7 DQ61 SG DM7 DQ62 DQ61 SG VDD SA0 SA1 SA2 +3.3VA PWA-F-SYS Symbol +5.1VB CBSY-0 CMD-0 SACK-0 SERR-0	Signal ground Memory data bus [46] Memory data bus [47] Not connected +2.5 V Memory data bus [52] Memory data bus [53] Not connected +2.5 V Data write mask signal [6] Memory data bus [54] Memory data bus [55] +2.5 V Not connected Memory data bus [60] Memory data bus [61] Signal ground Data write mask signal [7] Memory data bus [62] Memory data bus [63] +2.5 V Presence-detect address [0] Presence-detect address [2] +3.3 V (CN109) <-> PWA-F-LGC (CN309) Name +5.1 V System sommand busy Command data System status acknowledge signal System status acknowledge signal	
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161 162 161 162 163 164 164 165 166 167 168 169 170 171 172 173 174 175 176 176 181 182 183 184 CN109 Pin No A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A12 A13	DM5 SG DQ46 DQ47 NC VDD DQ52 DQ53 NC VDD DQ53 NC DQ55 VDD DQ60 DQ60 DQ60 DQ61 SG DM7 DQ62 DQ62 DQ63 VDD DQ62 DQ63 VDD SA0 SA1 SA2 +3.3VA PWA-F-SYS Symbol +5.1VB CBSY-0 SACK-0 SER-0 SG SG SG SG SG SG SG SG SG SG SG SG SG	Signal ground Memory data bus [46] Memory data bus [47] Not connected +2.5 V Memory data bus [52] Memory data bus [53] Not connected +2.5 V Data write mask signal [6] Memory data bus [54] Memory data bus [55] +2.5 V Not connected Memory data bus [60] Memory data bus [60] Memory data bus [61] Signal ground Data write mask signal [7] Memory data bus [62] Memory data bus [63] +2.5 V Presence-detect address [0] Presence-detect address [1] Presence-detect address [2] +3.3 V (CN109) <-> PWA-F-LGC (CN309) Name +5.1 V System status acknowledge signal System status acknowledge signal System status acknowledge signal System command acknowledge signal System command acknowledge signal System command acknowledge signal System command acknowledge signal System command acknowledge signal System command acknowledge signal System command acknowledge signal System command acknowledge signal System command acknowledge signal System command acknowledge signal System command acknowledge signal System command acknowledge signal System command acknowledge signal System command acknowledge signal System command acknowledge signal System command acknowledge signal Signal ground Signal ground Signal ground Signal ground	
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	CN1	115 F	WA-F-SYS (CN115) <-> USB CONNECTOR (DEVICE)
- ctive	Pin	1 No	Symbol VBUS	Name +5.1 V	Active
-		2 3	D- D+	USB serial data USB serial data	-
-		4	SG	Signal ground	-
-	CN1	117 F	WA-F-SYS (CN117) <-> HDD-FAN-MOT	
-	Pin	1 No	Symbol +12V	Name +12 V	Active -
-		2	SG	Signal ground	-
-	CN1	118 F	WA-F-SYS (CN118) <-> WIRELESS LAN MODULE (OPTION)
-	Pin	1 No	Symbol TIP	Name Not used	Active -
-		2	RING 8PMJ-3	Not used	-
-		4	8PMJ-1	Not used	-
-		6	8PMJ-2	Not used	-
-		7 8	8PMJ-7 8PMJ-4	Not used Not used	-
-		9 10	8PMJ-8 8PMJ-5	Not used	-
-		11	LED1 GRNP	Not used	-
-		13	ENABLE/DIS-	Wireless LAN enable signal	-
-		14	ABLE LED2 YELN	Not used	-
-		15 16	CHSGND RSV	Signal ground Not used	-
-		17	INTB# +5.1\/A	Interrupt request-B	-
-		19	+3.3VA	+3.3 V	-
-	2	20 21	IN IA# RSV	Not used	-
-	2	22 23	RSV SG	Not used Signal ground	-
-	2	24 25	+3.3VA CLK	+3.3 V PCI clock	-
-	2	26	RST#	Reset signal	-
-	2	28	+3.3VA	+3.3 V	-
-		30	GNT#	Grant	-
-	3	51 32	+3.3VA SG	+3.3 V Signal ground	
-	3	33 34	AD[31] PME#	PCI address/data bus [31] +3.3 V	-
-		35 36	AD[29] RSV	PCI address/data bus [29] Not used	-
-		37	SG	Signal ground	-
-	3	39	AD[30] AD[27]	PCI address/data bus [20]	-
-	4	+U 41	+3.3VA AD[25]	+3.3 V PCI address/data bus [25]	-
-	4	12 13	AD[28] RSV	PCI address/data bus [28] Not used	-
-	4	14 15	AD[26] C/BE(31#	PCI address/data bus [26] Command and byte enable-3	-
-	4	16 16	AD[24]	PCI address/data bus [24]	-
-	4	+7 18	IDSEL	Wireless LNA IDselect sIgnal	-
-	4	19 50	SG	Signal ground Signal ground	-
-	5	51 52	AD[21] AD[22]	PCI address/data bus [21] PCI address/data bus [22]	-
-	5	53 54	AD[19] AD[20]	PCI address/data bus [19] PCI address/data bus [20]	-
-	5	55	SG	Signal ground	-
-	5	57	AD[17]	PCI address/data bus [17]	-
-	5	59 59	C/BE(2)#	Command and byte enable-2	-
-	6	50 51	AD[16] IRDY#	PCI address/data bus [16] Initiator ready	- L
-	6	52 53	SG +3.3VA	Signal ground +3.3 V	-
-	6	64 65	FRAME#	Cycle frame Signal ground	L
-	6	56 57	TRDY#	Target ready	L
-		58	STOP#	Stop	L
-	7	70	+3.3VA	+3.3 V	-
-	1	(1 72	DEVSEL#	Data parity Error Device select	L
-	7	73 74	C/BE(1)# SG	Command and byte enable-1 Signal ground	-
-	7	75 76	AD[14] AD[15]	PČI address/data bus [14] PCI address/data bus [15]	-
-		77	SG	Signal ground	-
-	7	78 79	AD[13] AD[12]	PCI address/data bus [13] PCI address/data bus [12]	-
-	8	30 31	AD[11] AD[10]	PCI address/data bus [11] PCI address/data bus [10]	-
-	8	32 33	SG SG	Signal ground Signal ground	-
-	8	34 35	AD[9] AD[8]	PCI address/data bus [9] PCI address/data bus [8]	-
-		36	C/BE(0)#	Command and byte enable-0	-
-	8	38	+3.3VA	+ 3.3 V	-
-		90 99	+3.3VA AD[6]	+3.3 V PCI address/data bus [6]	-
-	9	91 92	AD[5] AD[4]	PCI address/data bus [5] PCI address/data bus [4]	-
-	9	93 94	RSV AD[2]	Not used PCI address/data bus [2]	-
-	9	95	AD[3]	PCI address/data bus [3] PCI address/data bus [0]	-
-		97	+5.1VA	+5.1 V	-
-		20 99	AD[1]	PCI address/data bus [1]	-
-	1	00 01	KSV WIP SG	Signal ground	-
-	1	02 03	SG AC SYNC	Signal ground Signal ground	-
-	1	04 05	M66EN AC SDATA IN	PCI bus 66 MHz clock enable signal	-
-	1	06	AC SDATA	Signal ground	-
-	1	07	AC BIT CLK	Signal ground	-
-	1	08	AC CODEC ID0#	Signal ground	-
-	1	09	AC CODEC	Signal ground	-
-	1	10	AC RESET#	Signal ground	-
-	1	11	MON	Not used	-
-		12 13	RSV AUDIO GND	Not used	-
-	1	14	SG SYS AUDIO	Signal ground	-
-	1	15	OUT	Not used	-
-	1	16	IN	Not used	-
-	1	17	SYS AUDIO OUT GND	Not used	-
-	1	18	SYS AUDIO	Not used	-
-	1	19	AUDIO GND	Not used	-
-		∠∪ 21	AUDIO GND RSV	Not used	-
-	1:	22 23	MPCIACT# VCC5VA	Not used	-
-	1	24	+3.3VA	+3.3 V	-
-	<u>CN</u> 1	119 F	WA-F-SYS (CN119) <-> HDD (CN171)	
-	Pin	n No	Symbol	Name	Active

<u>(C</u>	N115) <-> USB CONNECTOR (DEVICE)		PWA-F-SLG	(CN1) <-> PWA-F-CCD (CN14)
+	Name 5.1.V	Active	Pin No	+5 1VB	Name
U	ISB serial data	-	2	+5.1VB	+5.1 V
S	ISB serial data ignal ground	-	3	SG	Signal ground
			5	CCDRS	CČD RŠ signal
S (C	N117) <-> HDD-FAN-MOT Name	Active	7	CCDCP	CCD CP signal
+	12 V	-	8	SG	Signal ground
S	ignal ground	-	10	SG	Signal ground
S (C	N118) <-> WIRELESS LAN MODULE (OPTION)	11	CCDCK2B	CCD shift clock-2B
Ì.	Name	Active	12	CCDCK2A	CCD shift clock-2A
N	lot used	-	14	SG	Signal ground
N	lot used	-	15	SG	Signal ground
N	lot used	-	17	CCD-EVEN	CCD even data
N	lot used	-	19	CCD-ODD	CCD odd data
N	lot used	-	20	SG	Signal ground
N	lot used	-	21	AG	Analog ground
P N	lot used	-	23	AG +12\/B	Analog ground
P N	lot used	-	25	+12VB	+12 V
¹³⁻ W	Vireless LAN enable signal	-	26	+12VB	+12 V
N N	lot used	-	CN2	PWA-F-SLG	(CN2) <-> PLTN-SNR, HOME-SNR
N	lignal ground lot used	-	Pin No	Symbol	Name
In	nterrupt request-B	-	1	SG	Signal ground
+	5.1 V 3.3 V		2	+5V	+5.1 V
In	nterrupt request-A	-	4	SG	Signal ground
N	lot used	- 1	6	+5V	+5.1 V
S	ignal ground	-			
+; P	3.3 V CI clock	-	CN7	PWA-F-SLG	(CN7) <-> RADF (CN2) (OPTION)
R	leset signal	-	1	ACK	RADF acknowledge signal
S +:	ignal ground 3.3 V	-	2	SCN-STR	VARID signal from RADF
D	ata request signal	-	3	SG	Signal ground
G +	Grant 3.3 V	<u> </u>	5	TXD	RADF transmitted serial data
S	ignal ground	-	7	DF-ACK	Acknowledge signal from RADF
P +	CI address/data bus [31]	-	8	DF-RRQ	Request signal from RADF
P	CI address/data bus [29]	-	9 10	CNT	RADF request signal RADF connection detection signal
N	lot used Jignal ground	-		•	· · · · ·
P	CI address/data bus [30]	-	CN9	PWA-F-SLG	(CN9) <-> INV-EXP (CN1)
P	CI address/data bus [27]	-	Pin No	PG	Name Power ground
P	CI address/data bus [25]	-	2	PG	Power ground
P N	CI address/data bus [28] lot used	-	4	+24VD4	+24 V
P	CI address/data bus [26]	-	5	+24VD4	+24 V
C P	command and byte enable-3	-	CNI40		
			CNIU	PWA-F-SLG	(CN 10) <-> 3LG-FAN-WOT.
P	Cl address/data bus [23]	-			RIES ONLY ADS2 ADS3 ADS4 ADS4
P	CI address/data bus [23] Vireless LNA IDselect sIgnal	-	Pin No	APS1 (A4 SE Symbol	RIES ONLY), APS2, APS3, APS4, APS5 Name
P W S S	CI address/data bus [23] Vireless LNA IDselect sIgnal ignal ground ignal ground	- - - -	Pin No	APS1 (A4 SE Symbol	RIES ONLY), APS2, APS3, APS4, APS5 Name Not connected
P W S P P	CI address/data bus [23] Vireless LNA IDselect sIgnal ignal ground ignal ground CI address/data bus [21] CI address/data bus [22]	- - - - -	Pin No 1 2 3	APS1 (A4 SE Symbol NC NC NC	RIES ONLY), APS2, APS3, APS4, APS4 Name Not connected Not connected Not connected
P W S P P P	CI address/data bus [23] Vireless LNA IDselect sIgnal ignal ground CI address/data bus [21] CI address/data bus [22] CI address/data bus [22]	- - - - - - - - -	Pin No 1 2 3 4	APS1 (A4 SE Symbol NC NC NC +5VAPS	RIES ONLY), APS2, APS3, APS4, APS4 Name Not connected Not connected Not connected +5 V
P W S P P P P	CI address/data bus [23] Vireless LNA IDselect sIgnal ignal ground CI address/data bus [21] CI address/data bus [22] CI address/data bus [22] CI address/data bus [20] Ci address/data bus [20] Ci address/data bus [20]	- - - - - - - - - - - -	Pin No 1 2 3 4 5 6	APS1 (A4 SE Symbol NC NC +5VAPS APSR SG	RIES ONLY), APS2, APS3, APS4, APS4 Name Not connected Not connected Not connected +5 V Automatic original detection sensor signal Signal ground
P W S S P P P P S S	CI address/data bus [23] Vireless LNA IDselect sIgnal ignal ground CI address/data bus [21] CI address/data bus [22] CI address/data bus [22] CI address/data bus [20] ignal ground arity	- - - - - - - - - - - - - - - -	Pin No 1 2 3 4 5 6 7	APS1 (A4 SE Symbol NC NC NC +5VAPS APSR SG +5VAPS PPOS	RIES ONLY), APS2, APS3, APS4, APS4 Name Not connected Not connected +5 V Automatic original detection sensor signal Signal ground +5 V
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P S S P P P P S S P P C C	CI address/data bus [23] Vireless LNA IDselect sIgnal ignal ground CI address/data bus [21] CI address/data bus [22] CI address/data bus [22] CI address/data bus [20] ignal ground arity CI address/data bus [17] CI address/data bus [17] CI address/data bus [18] command and byte enable-2 CI address/data bus [16] ilitator ready	- - - - - - - - - - - - - - - - - - -	Pin No 1 2 3 4 5 6 7 8 9 10 11 12	APS1 (A4 SE Symbol NC NC +5VAPS APSR SG +5VAPS APSC SG +5VAPS APSC SG SG SG SG	RIES ONLY), APS2, APS3, APS4, APS4 Name Not connected Not connected +5 V Automatic original detection sensor signal Signal ground +5 V Automatic original detection sensor signal Signal ground +5 V Automatic original detection sensor signal Signal ground
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	CI address/data bus [23] Vireless LNA IDselect sIgnal ignal ground CI address/data bus [21] CI address/data bus [22] CI address/data bus [22] CI address/data bus [20] CI address/data bus [20] CI address/data bus [19] CI address/data bus [17] CI address/data bus [18] command and byte enable-2 CI address/data bus CI address/data bus [16] Viriator ready [33 V ycycle frame [30] ignal ground [37] System Error [36]	- - - - - - - - - - - - - - - - - - -	Pin No 1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18	APS1 (A4 SE Symbol NC NC NC SG +5VAPS APSR SG +5VAPS APSC SG +5VAPS APSC SG +5VAPS APS3 SG +5VAPS APS2 SG +5VAPS APS2 SG +5VAPS APS1 SG	RIES ONLY), APS2, APS3, APS4, APS3 Name Not connected Not connected Not connected 45 V Automatic original detection sensor signal Signal ground +5 V Automatic original detection sensor signal Signal ground +5 V Automatic original detection sensor signal Signal ground +5 V Automatic original detection sensor signal Signal ground +5 V Automatic original detection sensor signal Signal ground +5 V Automatic original detection sensor signal Signal ground +5 V Automatic original detection sensor signal Signal ground +5 V Automatic original detection sensor signal Signal ground +5 V Automatic original detection sensor signal
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P W SS SS P P P P P P P Image: Comparison of the provided state of th	CI address/data bus [23] Vireless LNA IDselect sIgnal ignal ground CI address/data bus [21] CI address/data bus [22] CI address/data bus [22] CI address/data bus [20] ignal ground arity CI address/data bus [17] CI address/data bus [17] CI address/data bus [18] command and byte enable-2 CI address/data bus [16] Vitiator ready ignal ground 3.3 V ycycle frame ignal ground arget ready ystem Error top Ignal ground 3.3 V V Vata parity Error byte fort		Pin No 1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 CN19 Pin No 1	APS1 (A4 SE Symbol NC NC NC APSR SG +5VAPS APSC SG +5VAPS APSC SG +5VAPS APS2 SG +5VAPS APS2 SG PWA-F-SLG SCNM-BB	RIES ONLY), APS2, APS3, APS4, APS4 Name Not connected Not connected Not connected +5 V Automatic original detection sensor signal Signal ground +5 V Automatic original detection sensor signal Signal ground +5 V Automatic original detection sensor signal Signal ground +5 V Automatic original detection sensor signal Signal ground +5 V Automatic original detection sensor signal Signal ground +5 V Automatic original detection sensor signal Signal ground +5 V Automatic original detection sensor signal Signal ground (CN19) <-> SCAN-MOT Name Scan motor drive signal-B
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P W S S P P P P S S	CI address/data bus [23] Vireless LNA IDselect sIgnal ignal ground CI address/data bus [21] CI address/data bus [22] CI address/data bus [22] CI address/data bus [20] ignal ground Tarity CI address/data bus [17] CI address/data bus [18] Command and byte enable-2 CI address/data bus [18] CI address/data bus [16] Vitiator ready Vignal ground 3.3 V V Vycle frame Vystem Error top Dignal ground 3.3 V V Valta parity Error Evice select Command and byte enable-1 ignal ground CI address/data bus [14] CI address/data bus [16] CI address/d		Pin No 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 CN19 Pin No Pin No 1 2 3 4 4	APS1 (A4 SE Symbol NC NC NC APSR SG +50APS APSR SG SG APSC SG APS3 SG +50APS APS3 SG APS1 SG PWA-F-SLG SCNM-BB +24VD4 SCNM-B SCNM-AB	RIES ONLY), APS2, APS3, APS4, APS4 Name Not connected Not connected Not connected Automatic original detection sensor signal Signal ground +5 V Automatic original detection sensor signal Signal ground +5 V Automatic original detection sensor signal Signal ground +5 V Automatic original detection sensor signal Signal ground +5 V Automatic original detection sensor signal Signal ground +5 V Automatic original detection sensor signal Signal ground +5 V Automatic original detection sensor signal Signal ground +5 V Automatic original detection sensor signal Signal ground (CN19) <-> SCAN-MOT Name Scan motor drive signal-B Scan motor drive signal-A
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	2	KI	X-axis touch position detection terminal-
<u> </u>	3	XR	X-axis touch position detection terminal-
	4	YU	Y-axis touch position detection terminal-I
	4	10	1-axis todon position detection terminal-
			/
	J423	PWA-F-DSP	(J423) <-> LCD BACK LIGHT
<u> </u>	Pin No	Symbol	Name
	1	CCFL+	High-voltage terminal
	2	NC	Not connected
	3	CCFL-	High-voltage terminal
-	1424		
-	J424	WA-F-DSP	(J424) -> LCD PANEL
-	Pin No	Symbol	Name
<u> </u>	1	FRAME	LCD scanning line start signal
<u> </u>	2	LAOD	LCD data latch pulse
	3	CP	LCD data transmission clock
<u> </u>	4	SG	Signal ground
	5	+5.1VA	+5.1 V
	6	SG	Signal ground
-	7	VEE	Ground
	8	D.OFF	LCD enable signal
	9	D0	LCD display data-0
-	10	D1	LCD display data-1
-	11	D2	LCD display data-2
-	12	D3	LCD display data-3
Active	J425 Pin No	Symbol	(J425) <-> PWA-F-KEY (J428) Name
-	1	LDFC-1	LED driver output-1
- 1	2	LDFC-2	LED driver output-2
<u> </u>	3	LDFC-4	LED driver output-4
<u>+ - </u>	4	LDEC-5	LED driver output-5
<u>+ - 1</u>	5	LDFC-6	LED driver output-6
<u>+ - </u>	6	LDFC-7	LED driver output-7
	Ť	L DEC-8	LED driver output-8
	8	L DEC-9	LED driver output-9
<u> </u>	9	LDFC-10	LED driver output-10
Active	10	L DEC-11	LED driver output-10
-	11	L DEC-12	LED driver output-12
1 - I	12	L DEC-13	LED driver output 12
_		111/11/11/11/11	
-	12	L DEC 15	LED driver output-13
	13	LDFC-15	LED driver output-15 LED driver output-15
	12 13 14	LDFC-15 LDON0	LED driver output-15 LED common driver signal-0
	12 13 14 15	LDFC-15 LDON0 LDON1	LED driver output-15 LED common driver signal-0 LED common driver signal-1
	12 13 14 15 16	LDFC-15 LDON0 LDON1 SG	LED driver output-15 LED common driver signal-0 LED common driver signal-1 Signal ground
	13 14 15 16	LDFC-15 LDON0 LDON1 SG	LED driver output-15 LED common driver signal-0 LED common driver signal-1 Signal ground
	13 14 15 16 J426	LDFC-15 LDON0 LDON1 SG PWA-F-DSP	LED driver output-15 LED driver output-15 LED common driver signal-0 LED common driver signal-1 Signal ground (J426) <-> PWA-F-KEY (J429)
	13 14 15 16 J426 I	LDFC-15 LDON0 LDON1 SG PWA-F-DSP Symbol	LED driver output-15 LED driver output-15 LED common driver signal-0 LED common driver signal-1 Signal ground (J426) <-> PWA-F-KEY (J429) Name
	12 13 14 15 16 J426 1 Pin No	LDFC-15 LDDN0 LDDN1 SG PWA-F-DSP Symbol SCN15	LED driver output-15 LED common driver signal-0 LED common driver signal-1 Signal ground (J426) <-> PWA-F-KEY (J429) Name Button scanning signal-5
		- 2 - 4 - 4 - J423 - 1 - 2 - 2 - 1 - 2 - 3 - 1 - 2 - 3 - 1 - 1 - 2 3 4 - 5 - 6 - 7 0 11 12 12	- 2 KL - 3 XR - 4 YU - J423 PWA-F-DSP - 1 CCFL- - 2 NC - 2 NC - 3 CCFL- - 3 CCFL- - - 3 CCFL- - - - 3 CCFL- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

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1	SCN15	Button scanning signal-5	-
2	SCN14	Button scanning signal-4	-
3	SCN13	Button scanning signal-3	-
4	SCN12	Button scanning signal-2	-
5	SCN11	Button scanning signal-1	-
6	RET0	Button scanning return signal-0	-
7	RET1	Button scanning return signal-1	-
8	RET2	Button scanning return signal-2	-
9	RET3	Button scanning return signal-3	-
10	RET8	Button scanning return signal-8	-
11	RET9	Button scanning return signal-9	-

CN213	PWA-F-ADU	(CN213) <-> ADU-TRL-SNR	
Pin No	Symbol	Name	Active
1	SG	Signal ground	-
2	ADUFL	ADU exit sensor detection signal	-
3	+5.1VB	+ 5.1 V	-

CN214 PWA-F-ADU (CN214) <-> ADU-TRU-SNR

J422 PWA-F-DSP (J422) <-> LCD PANEL

V-axis touch no

n detection terminal-I

detection terminal-L detection terminal-R

Active

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Active

Pin No	Symbol	Name	Active
1	SG	Signal ground	-
2	ADUFU	ADU entrance sensor detection signal	-
3	+5.1VB	+ 5.1 V	-

CN215 PWA-F-ADU (CN215) <-> ADU-MOT

Pin No	Symbol	Name	Active
1	+24VD2	+24 V	-
2	FDMA	ADU motor drive signal-A	-
3	FDMB	ADU motor drive signal-B	-
4	FDMC	ADU motor drive signal-C	-
5	FDMD	ADU motor drive signal-D	-
6	+24VD2	+24 V	-
	Pin No 1 2 3 4 5 6	Pin No Symbol 1 +24VD2 2 FDMA 3 FDMB 4 FDMC 5 FDMD 6 +24VD2	Pin No Symbol Name 1 +24VD2 +24 V 2 FDMA ADU motor drive signal-A 3 FDMB ADU motor drive signal-B 4 FDMC ADU motor drive signal-C 5 FDMD ADU motor drive signal-D 6 +24VD2 +24 V

CN217 PWA-F-ADU (CN217) <-> ADU-SET-SW Pin No Symbol Name Active

	1	SG	Signai ground	-	
	2	COVSW	ADU opening/closing detection signal	-	i
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Pin No	Symbol	Name	Active
1	TXOUT	Transmitted FAX data	-
2	RXIN	Received FAX data	-
3	CML	CML relay drive signal	-
4	LD	Dial pulse drive signal	-
5	EXTRG	RG relay drive signal	-
6	ATT3DB	-3 db ATT exchange signal	-
7	RLADJ1	MODEM select signal	-
8	RLADJ2	MODEM select signal	-
9	RGCLK	Ring clock	-
10	AG	Analog ground	-
11	-12VB	-12 V	-
12	AG	Analog ground	-
13	+12VB	+12 V	-
14	+24VB	+24 V	-
15	16Hz	Ring clock	-
16	AG	Analog ground	-
17	CI	Ring signal detection	L
18	ANSDET	FAX data answer detection	L
19	REVA	Line 1 External telephone hook detection signal	L
20	REVB	Line 1 External telephone hook detection signal	L
21	INTHOOK	Internal telephone hook signal	-
22	EXTHOOK	External telephone hook signal	-
23	+5.1VA	+5.1 V	-
24	AG	Analog ground	-
25	±5\/A	+5.1/	

CN304 PWA-F-LGC (CN304) <-> PWA-F-ADU (CN211, 212), ADU-CLT, SID-COV-SNR, SFB-SIZE-SNR, SFB-SNR, SFB-FEED-CLT,

Pin No	Symbol	Name	Active
A1	ADM1D-0A	ADU motor drive signal-D	-
A2	ADM1B-0A	ADU motor drive signal-B	-
A3	ADM1C-0A	ADU motor drive signal-C	-
A4	ADM1A-0A	ADU motor drive signal-A	-
A5	ADUVR-1	ADU motor current control reference voltage	-
A6	ADTR2-1	ADU exit sensor detection signal	-
A7	5.1VB	+5.1 V	-
A8	SG	Signal ground	-
A9	ADCNT-1	ADU connection detection signal	L
A10	ADTR1-1	ADU entrance sensor detection signal	L
A11	ADCOV-1	ADU opening/closing switch detection signal	-
A12	+24VD2	+24 V	-
A13	ADUCL-0A	ADU clutch drive signal	L
A14	SG	Signal ground	L
A15	CSTCSW-1	Side cover opening/closing sensor detection signal	L
A16	+5.1VB	+5.1 V	-
A17	NC	Not connected	-
A18	NC	Not connected	-
A19	NC	Not connected	-
A20	NC	Not connected	-
B1	SFSZ3-0	Not used	-
B2	SG	Signal ground	-
B3	SG	Signal ground	-
B4	SFSZ0-0	Bypass paper size detection signal-1	-
B5	SFSZ1-0	Bypass paper size detection signal-2	-
B6	SFSZ2-0	Bypass paper size detection signal-3	-
B7	SG	Signal ground	-
B8	SFBEMP-1	Bypass paper detection signal	-
B9	5.1VB	+5.1 V	-
B10	+24VD2	+24 V	-
B11	SFBCL1-0	Bypass feed clutch drive signal	L
B12	+24VD2	+24 V	-
B13	SFBCL2-0	Bypass pickup solenoid drive signal	-
B14	SG	Signal ground	-
B15	SFBTRY-1	Not used	-
B16	+5.1VB	+5.1 V	-
B17	SG	Signal ground	-
B18	2NDFED-1	2nd transport sensor detection signal	-
B19	+5.1VB	+5.1 V	-
B20	SFBCNT-1	Bypass unit connection detection signal	-

CN305 PWA-F-LGC (CN305) <-> FEED-SNR-1, RGST-SNR,

Pin No	Symbol	Name	Active
A1	SG	Signal ground	
A2	1STFEED-1	1st transport sensor detection signal	
A3	+5.1VB	+5.1 V	
A4	SG	Signal ground	
A5	PSTPSW-1	Registration sensor detection signal	-
A6	+5.1VB	+5.1 V	-
A7	SG	Signal ground	-
A8	SDCSW-1	Transfer cover opening/closing detection signal	-
A9	NC	Not connected	-
A10	TNRSW-1	Toner cartridge installation detection signal	-
A11	SG	Signal ground	-
A12	TNRFULL-1	Cleaner auger lock detection signal	-
A13	SG	Signal ground	-
A14	TNRMT-0A	Toner motor drive signal	-
A15	TNRMT-1A	Toner motor drive signal	-
A16	NC	Not connected	-
A17	NC	Not connected	-
B1	RGTCL-0A	Registration roller clutch drive signal	-
B2	+24VD1	+24 V	-
B3	1STCLL-0A	Middle transport clutch drive signal	-
B4	+24VD1	+24 V	-
B5	1STCLH-0A	Upper transport clutch drive signal	-
B6	+24VD1	+24 V	-
			I · Braki
B7	MAMBK-0A	Main motor brake signal	H: Norm
B8	MAMPI -1	Main motor PLL signal	I · Norm
00			LICW
B9	MAMCW-0A	Main motor rotational direction signal	
B10	MAMCK-1	Main motor reference clock signal	п. сст
DIO			I · ON
B11	MAMON-0A	Main motor ON/OFF signal	
B12	SG	Signal ground	-
B13	+5 1VB	+51 V	-
B14	+24VD1	+24 V	-
B15	PWREN-04	Internal cooling fan2 motor drive signal	-
B16	+24VD1	+24 V	-
B17	CLNEN-0A	Internal cooling fan1 motor drive signal	-

CN306 PWA-F-LGC (CN306) <-> EXIT-MOT, EXIT-FAN-MOT, JOB SEPARATOR (OPTION)/OFFSET TRAY (OPTION)/ BRIDGE UNIT (OPTION)

Pin No	Symbol	Name	Active
A1	+24VD2	+24 V	
A2	EXTMA-0A	Exit motor drive signal-A	
A3	EXTMB-0A	Exit motor drive signal-B	
A4	EXTMC-0A	Exit motor drive signal-C	
A5	EXTMD-0A	Exit motor drive signal-D	
A6	+24VD2	+24 V	-
A7	+24VD2	+24 V	-
A8	VCMFN-0	Exhaust fan motor drive signal	-
A9	NC	Not connected	-
A10	NC	Not connected	-
A11	NC	Not connected	-
A12	NC	Not connected	-
A13	NC	Not connected	-
A14	NC	Not connected	-
A15	NC	Not connected	-
A16	NC	Not connected	-
A17	NC	Not connected	-
A18	NC	Not connected	-
B1	RLC2S-1	JSP/OCT unit exit sensor signal	-
B2	+5.1VB	+5.1 V	-
50	DI LIONA A	JSP: lower stack sensor detection signal /	
B3	RLHSW-1	OCT: stack sensor detection signal	-
B4	SG	Signal ground	-
B5	JSPSW-0	JSP/OCT judgment signal	L
B6	RLCNT-0	JSP/OCT judgment signal	-
B7	OPCHK1-1	JSP/OCT judgment signal	L: OCT, H: JSP
B8	RLCSW-1	JSP/OCT cover opening/closing detection signal	L
		JSP: paper iam sensor detection signal /	
B9	RLTRS-1	OCT: paper feed sensor detection signal	-
		ISP: upper stack sensor detection signal /	
B10	JFSL2OH-1	OCT: senarate sensor detection signal	-
B11	GASOL-0A	ISP/OCT gate solenoid driving signal	
B12	+241/D2		-
B13	PG	Power ground	-
D13			-

13	CSIP2-0A	IPC chip select signal	-
14	IPCSW-0	IPC board connection detection signal	- L
16	SG	Signal ground	-
17	+5.1VB AD1	+5.1 V System address bus [1]	-
19	AD3	System address bus [3]	- 1
20	AD5	System address bus [5]	- 1
21	AD7 1/01	System address bus [/]	-
23	I/O3	System data bus [3]	1 -
24	1/05	System data bus [5]	-
25	I/U/ SG	System data bus [/]	- -
27	OE	Output enable signal	<u> </u>
28	IPRST-0A	IPC reset signal	-
29 30	+5.1VB SG	+5.1 V Signal ground	- -
50	~~		
N101	PWA-F-SYS	(CN101) <-> PWA-F-SLG (CN4)	
Pin No	Symbol	Name	Active
1	SYSRST	System reset signal Transmission enabled	+ : -
3	STXD	Transmitted SLG data	-
4	SRXD	Received SLG data	-
6	SCNT	SLG board connection detection signal	+ -
7	SG	Signal ground	-
8	SVDEN SDCLK	vertical scanning synchronized signal	-
10	SHDEN	Horizontal scanning synchronized signal	<u> </u>
11	SG	Signal ground	-
12	SG SCD7	Signal ground Scanning data [7]	-
14	SCD6	Scanning data [6]	L -
15	SCD5	Scanning data [5]	-
16 17	SCD4 SCD3	Scanning data [4]	-
18	SCD2	Scanning data [2]	1 -
19	SCD1	Scanning data [1]	-
20	3000	ocanning data [v]	
N102	PWA-F-SYS	(CN102) <-> FAX BOARD (CN701) (OPT	ION)
Pin No	Symbol	Name	Active
1	+5.1VB	+5.1 V	-
<u>∠</u> 3	+5.1VB	+5.1 V	
4	DD0	FAX data bus [0]	-
5	+5.1VB DD3	+5.1 V FAX data bus [3]	-
7	+5.1VB	+5.1 V	<u> </u>
8	DD6	FAX data bus [6]	
9 10	+5.1VB DD9	FAX data bus [9]	-
11	SG	Signal ground	-
12	DD12	FAX data bus [12]	_ · ·
14	SG	Signal ground	
15	SG	Signal ground	-
16 17	SG	Signal ground	
18	SG	Signal ground	- 1
19	+3.3VB	+3.3 V	-
20	HNTRQ +3.3VB	+3.3 V	- -
22	+5.1VA	+5.1 V	-
23	-12VB	-12 V Signal ground	-
∠4 25	+12VB	+12 V	+ -
26	DA0	IDE Address [0]	-
27	DA2	IDE Address [2]	
29	DD1	FAX data bus [1]	1 -
30	DD2	FAX data bus [2]	- 1
31 32	DD4 DD5	FAX data bus [4]	-
33	DD7	FAX data bus [7]	-
34	DD8	FAX data bus [8]	-
35 36	DD10 DD11	FAX data bus [10]	
37	DD13	FAX data bus [13]	-
38	DD14	FAX data bus [14]	-
40	/DIOR	IDE I/O read signal	
41	/DIOW	IDE I/O write signal	-
42	/DMACK	DNA acknowledge signal Chip select signal	-
44	/RESET	Reset signal	L
45	DMARQ	DMA request signal	-
40 47	FXWP	FAX wake-up signal	
48	SG	Signal ground	<u> </u>
49	SG	Signal ground	-
JU		NOT CONNECTED	
N104	PWA-F-SYS	(CN104) <-> PWA-F-DSP (J427)	
Pin No	Symbol	Name	Active
1	LP-1A	LCD data transmission clock	- H
3	WF-1A	LCD frame signal	H
4	YD-1A	LCD scanning line start signal	Н
5 6	BZON-0A	Signal ground Buzzer-ON signal	-
7	CPPOW-1A	Panel connection detection signal	<u>н</u>
8	LDCLK-1A	LED serial clock	-
9 10	LDUAI-1A	LED serial data	-
11	LDON1-0A	LED drive selection signal-1	<u>t</u> i
12	LDON0-0A	LED drive selection signal-0	L
13	5G +5.1VA	signal ground +5.1 V	- -
15	+5.1VA	+5.1 V	1 -
16	+5.1VA	+5.1 V	-
17	+5.1VA CPRST-0A	ro.1 V Reset signal	
19	SG	Signal ground	-
20	RTS0-0A	Key controller SIO Transmission request signal	-
21	SOUT(0)	Key controller SIO transmission enabled signal	+ -
23	SIN(0)	Key controller SIO received serial data	-
24	SG	Signal ground	-
2J	1003-14	I CD display data-2	<u> </u>
20	002-17		1

CN107 PWA-F-SYS (CN107) <-> COIN CONTROLLER (OPTION)/

 28
 UD0-1A
 LCD display data-0

 29
 SG
 Signal ground

 30
 LCDEN-1A
 LCD enable signal

CN110 PWA-F-SYS (CN110) <-> LAN (10BASE-T/100BASE-TX)

CNITU	WA-F-313	(CNIIU)> LAN (IUDASE-1/IUUDASE-1	()
Pin No	Symbol	Name	Active
1	TXD+	Transmitted data +	-
2	TXD-	Transmitted data -	-
3	RXIN+	Received data +	-
4	GND	Not used	-
5	GND	Not used	-
6	RXIN-	Received data -	-
7	GND	Not used	-
8	GND	Not used	-

CN11 Pin 1 2 3

CN111 PWA-F-SYS (CN111) <-> INTERNAL USB CONNECTOR				
Pin No	Symbol	Name	Active	
1	VBUS	+5.1 V	-	
2	D0-	USB serial data	-	
3	D0+	USB serial data	-	
4	SG	Signal ground	-	
5	VBUS	+5.1 V	-	
6	D1-	USB serial data	-	
7	D1+	USB serial data	-	
8	SG	Signal ground	-	

CN112 PWA-F-SYS (CN112) <-> HDD (CN170) (STANDARD)

Signal gro Signal ground +5.1 V

CN121 PWA-F-SYS (CN124) <-> PCI (CN801)/SCRAMBLER BOARD

1	+3.3\/A	Name	Active
2	+3.3VA +3.3VA	+3.3 V	-
3	+3.3VA	+3.3 V	-
4	SG -12VA	Signal ground	-
6	-12VA	-12V	-
7	+5.1VA +5.1VA	+5.1 V +5.1 V	-
9	+3.3VA	+3.3 V	-
10		PCI slot-0 IDselect signal	-
12	SG	Signal ground	
13	IDSEL0	PCI slot-1 IDselect slgnal	-
14	SG PCICLK(3)	PCI clock-3	-
16	SG	Signal ground	-
17 18	REQ(1)# REQ(0)#	Data request signal-1	-
19	+3.3VA	+3.3 V	-
20	AD[31]	PCI address/data bus [31] PCI address/data bus [20]	-
22	SG	Signal ground	-
23	AD[27]	PCI address/data bus [27]	-
25	+3.3VA	+3.3 V	-
26	C/BE(3]#	Command and byte enable-3	-
21 28	AD[23] SG	Signal ground	-
29	AD[21]	PCI address/data bus [21]	-
30 31	AD[19] +3,3VA	PCI address/data bus [19]	
32	AD[17]	PCI address/data bus [17]	-
33	C/BE(2)#	Command and byte enable-2	-
35	IRDY#	Initiator ready	L
36	+3.3VA	+3.3 V	-
38	DEVSEL#	Signal ground	
39	LOCK#	+3.3 V	L
40 41	+3.3VA	+3.3 V	-
42	SERR#	System Error	L
43 44	+3.3VA C/BE(1)#	+3.3 V Command and byte enable-1	-
45	AD[14]	PCI address/data bus [14]	<u> </u>
46	SG AD[12]	Signal ground PCL address/data bus [12]	-
48	AD[12]	PCI address/data bus [12]	
49	M66EN	PCI bus 66 MHz clock enable signal	-
50 51	AD[8]	PCI address/data bus [8]	
52	AD[7]	PCI address/data bus [7]	-
53 54	+3.3VA AD[5]	+3.3 V PCI address/data bus 151	
55	AD[3]	PCI address/data bus [3]	-
56	SG AD[1]	Signal ground PCL address/data bus [1]	-
58	+3.3VA	+3.3 V	<u> </u>
59	+5.1VA	+5.1V	-
61	+3.3VA	+3.3 V	
62	+3.3VA	+3.3 V	-
03 64	+3.3VA SG	TSignal ground	-
65	+12VA	+12 V	-
67	+12VA +5.1VA	+12 V +5.1 V	-
68	+5.1VA	+5.1 V	-
69 70	+3.3VA OPBINT(1)	+3.3 V Interrupt request-1	-
71	+3.3VA	+3.3 V	-
72	PCIRST#	PCI reset signal	-
74	PCICLK(4)	PCI clock-4	
75	+3.3VA	+3.3 V Grant 1	-
77	GNT(0)#	Grant-0	
78	SG	Signal ground	-
79 80	AD[30]	PCI address/data bus [30]	
81	+3.3VA	+3.3 V	-
82 83	AD[28] AD[26]	PCI address/data bus [28]	-
84	SG	Signal ground	-
85	AD[24]	PCI address/data bus [24]	-
87	+3.3VA	+3.3 V	<u> </u>
88	AD[22]	PCI address/data bus [22]	-
90 I	SG	Ground	
91	AD[18]	PCI address/data bus [18]	-
92 93	AD[16] +3,3VA	+3.3 V	
94	FRAME#	Cycle frame	L
95	SG TRDY#	Signal ground	-
97	SG	Signal ground	<u> </u>
98	STOP#	Stop	L
100	+3.3VA	+3.3 V	
101	SG	Signal ground	-
102	SG PAR	Signal ground	-
104	AD[15]	PCI address/data bus [15]	-
105	+3.3VA	+3.3 V PCL addross/data hus [12]	-
106 1	AD[13] AD[11]	PCI address/data bus [13] PCI address/data bus [11]	-
108	SG	Signal ground	-
109 110	AD[9] SG	PCI address/data bus [9]	-
111	C/BE(0)#	Command and byte enable-0	-
112	+3.3VA	+3.3 V PCL address/data bus [6]	-
	AD[4]	PCI address/data bus [4]	
114		Signal ground	1
114	SG	DCL address/data hus [2]	-
114 115 116 117	SG AD[2] AD[0]	PCI address/data bus [2] PCI address/data bus [0]	-

PNLDT3	D/L address bus [3]	-
MAD[5]	ROM address bus [5]	-
MAD[7]	ROM address bus [7]	-
MAD[9]	ROM address bus [9]	-
MAD[11]	ROM address bus [11]	-
MAD[13]	ROM address bus [13]	-
MAD[15]	ROM address bus [15]	-
MAD[17]	ROM address bus [17]	-
ROMDT	ROM connection detection signal	-
+5.1VB	+5.1 V	-
LED	LED drive signal	-
	PNLDT3 MAD[5] MAD[7] MAD[9] MAD[11] MAD[13] MAD[15] MAD[17] ROMDT +5.1VB LED	PNLDT3 D/L address bus [3] MAD[5] ROM address bus [5] MAD[7] ROM address bus [7] MAD[9] ROM address bus [7] MAD[9] ROM address bus [9] MAD[11] ROM address bus [11] MAD[13] ROM address bus [13] MAD[15] ROM address bus [15] MAD[17] ROM address bus [17] ROMDT ROM connection detection signal +5.1VB +5.1 V LED LED drive signal

CN2 INV-EXP (CN2) <-> LP-EXPO Pin No Symbol Name Active osure lamp high-voltage outpu 1 2 NC 3 NC Not connected Not connected 4 Exposure lamp high-voltage output

CN206 PWA-F-LRL (CN206) <-> PER-F-LDR (C201)

Pin No	Symbol	Name	Active
1	SG	Signal ground	-
2	+5.1VD	+ 5.1 V	-
3	+5.1VD	+ 5.1 V	-
4	SG	Signal ground	-
5	WRLVL-1	Laser level control signal (reference voltage)	-
6	SG	Signal ground	-
7	NC	Not used	-
8	SG	Signal ground	-
9	PIDT-1	Laser image data (differential signal +)	-
10	PIDT-0	Laser image data (differential signal -)	-
11	SG	Signal ground	-
12	WRAPC-0	APC write signal	-
13	NC	Not used	-
14	SHDWM-1	Laser shut down signal	-
15	SG	Signal ground	-
16	+5.1VD	+ 5.1 V	-
17	+5.1VD	+ 5.1 V	-
18	SG	Signal ground	- 1

Pin No	Symbol	Name	Active
1	+5.1VD	+ 5.1 V	-
2	SG	Signal ground	-
3	BDIN-1	Laser beam position detection signal (H-sync)	-

Pin No	Symbol	Name	Active
1	PWR-EN	Power supply enable signal	L
2	PWR-DN	AC main power down signal	L
3	NC	Not connected	-
4	NC	Not connected	-
5	+12VB	+12 V	-
6	SG	Signal ground	-
7	+12VA	+12 V	-
8	SG	Signal ground	-
9	NC	Not connected	-
10	SG	Signal ground	-
11	SG	Signal ground	-
12	SG	Signal ground	-
13	+3.3VA	+3.3 V	-
14	NC	Not connected	-
15	+3.3VA	+3.3 V	-
16	+3.3VA	+3.3 V	-
17	SG	Signal ground	-
18	SG	Signal ground	-
19	+3.3VB	+3.3 V	-
20	+3.3VB	+3.3 V	-
21	SG	Signal ground	-
22	SG	Signal ground	-
23	SG	Signal ground	-
24	+5.1VA	+5.1 V	-
25	+5.1VB	+5.1 V	-
26	+5.1VA	+5.1 V	-

CN706 PS-ACC (CN706) <-> PWA-F-LGC (CN311), PWA-F-FUS (CN431) Pin No Symbol Name Active Symbol 1 SG Signal ground 2 +5.1VD +5.1 V 3 PG Power ground 4 PG Power ground +5.1 V Power ground Power ground +24 V +24 V Power ground 3PGPower ground4PGPower ground5+24VD2+24V6+24VD2+24V7PGPower ground8PGPower ground9PGPower ground10PGPower ground11+24VD1+24V12+24VD1+24V13+24VD1+24V14+24VD1+24V15NCNot connected16NCNot connected17NCNot connected18HTR2ON-1ASide heater ON/OFF signal of fuser roller20PSPDWN-1AC main power down signal21SGSignal ground22+12VB+12V23SGSignal ground24SGSignal ground (to FUS board)25SGSignal ground (to FUS board)26+5.1VB+5.1V28+5.1VB+5.1V29SGSignal ground30+3.3VB+3.3V

CN707 PS-ACC (CN707) <-> FINISHER (J 599) (OPTION)/ PWA-F-ADU (CN212) (OPTION)/MAIN MOTOR

Pin No	Symbol	Name	Active
1	NC	Not connected	-
2	NC	Not connected	-
3	SG	Signal ground	-
4	+5.1VB	+5.1 V (to FINISHER)	-
5	NC	Not connected	-
6	NC	Not connected	-
7	PG	Signal ground	-
8	+24VD5	+24 V (to FINISHER)	-
9	PG	Power ground	-
10	PG	Power ground	-
11	+24VD2	+24 V (to ADU)	-
12	+24VD2	+24 V (to ADU)	-
13	PG	Power ground	-
14	PG	Power ground	-
15	+24VD1	+24 V (to main motor)	-
16	+24VD1	+24 V (to main motor)	-

00	101/0	101/	
26	-12VB	-12 V	-
27	AG	Analog ground	-
28	+12VB	+12 V	-
29	+24VB	+24 V	-
30	PG	Power ground	-
1502 F	AX (CN502)	<-> NCU (2) (OPTION)	Activ
1	TYR	Transmitted FAX data	Activ
2	RXIN	Received FAX data	_
2	CMI	CML rolay drive signal	-
3		Dial pulso drivo signal	-
5		Not used	-
6		3 db ATT exchange signal	-
7	RI AD I1	Modem select signal	
1 8		Modem select signal	-
0	READJZ PCCLK	Not used	-
9	AG	Signal ground	
10	121/0		-
11	-12VD		-
12	AG +12\/P		-
13		TIZ V	-
14		Not connected	-
15	IOHZ	Not used	-
10	AG	Analog ground Bing signal datast	-
10		Ning Signal detect	
10		FAX data answer detection	L
19		Line 2 External telephone nook detection signal	-
20	REVD	Line 2 External telephone hook detection signal	-
21	NC	Not connected	-
22		Not connected	-
23	+5.1VA	+5.1 V	-
24	AG	Analog ground	-
25	+5VA	+5 V	-
26	-12VB	-12 V	-
21	AG	Analog ground	-
28	+12VB	+12 V	-
29	NC	Not connected	-
30	NC	Not connected	-
30 30			-
Pin No	Symbol	Name	-
1	SP+	Speaker output (+)	-
		On a share sustained ()	

	1	I XOUT2	Transmitted data	-
	3	+5VA +12VB	+5 V +12 V	-
	4	+3.3VB	+3.3 V	-
	6	SG	Signal ground	-
	7	MEM2CS-0 +5 1VB	SRAM chip select signal	-
	9	MEMRD2-0	SRAM data read signal	-
1	10 11	CLKOE-1 TXEN2-1	Clock out enable signal TX enable signal	-
	12	+5.1VB	+5.1 V	-
	13 14	A[16] A[14]	MDM address bus [16] MDM address bus [14]	-
	15	A[12]	MDM address bus [12]	-
	16 17	A[10] A[8]	MDM address bus [10] MDM address bus [8]	-
	18	A[6]	MDM address bus [6]	-
2	20	A[4] A[2]	MDM address bus [4] MDM address bus [2]	-
2	21	A[0]	MDM address bus [0]	-
	22	CEP1RST-0	CEP1 reset signal	-
2	24	+5.1VB	+5.1 V Signal ground	-
	25 26	CEPCLK	System clock signal	-
2	27	SG	Signal ground	-
	29	D[0] D[2]	MDM data bus [0]	-
	30	D[4]	MDM data bus [4]	-
	32	D[8]	MDM data bus [6]	-
	33 34	D[10]	MDM data bus [10]	-
	35	D[12] D[14]	MDM data bus [12]	-
	36	SG MOD2DET 0	Signal ground	-
	38	SG	Signal ground	-
3	39 40	DREQC2-1 DACKC2-0	Data request signal	-
	41	RXIN2	Received data	
4	42 43	AG -12VB	Analog ground	-
4	44	AG	Analog ground	-
4	45 46	MOD2INT-1 MOD2CS-0	Modem 2 interrupt signal	-
2	47	MOD2RST-0	Modem 2 reset signal	-
4	48 49	SG RXFN2-1	Signal ground RX enable signal	-
Ę	50	MEMWRH2-0	SRAM high byte write signal	-
5	51 52	MEMWRL2-0 A[18]	SRAM low byte write signal MDM address bus [18]	-
Ę	53	A[17]	MDM address bus [17]	-
5	54 55	A[15] A[13]	MDM address bus [15] MDM address bus [13]	-
Ę	56	A[11]	MDM address bus [11]	-
	57 58	A[9] A[7]	MDM address bus [9] MDM address bus [7]	-
Ę	59	A[5]	MDM address bus [5]	-
e e	50 61	A[3] A[1]	MDM address bus [3] MDM address bus [1]	-
6	62 63	CPURST-0	CPU reset signal	-
e e	53 64	+5.1VB	+5.1 V	-
6	35 66	+5.1VB	+5.1 V MDM data read signal	-
e	50 57	IOWR2-0	MDM data vrite signal	-
6	38 69	D[1]	MDM data bus [1] MDM data bus [3]	-
	70	D[5]	MDM data bus [5]	-
	71 72	D[7] D[9]	MDM data bus [7] MDM data bus [9]	-
	73	D[11]	MDM data bus [11]	-
	74	-1	MDM data have [40]	-
	74 75	D[13] D[15]	MDM data bus [13] MDM data bus [15]	
	74 75 76	D[13] D[15] +5.1VB	MDM data bus [13] MDM data bus [15] +5.1 V	- - - - -
	74 75 76 77 78	D[13] D[15] +5.1VB +5.1VB CEP2CS-0	MDM data bus [13] MDM data bus [15] +5.1 V +5.1 V CEP2 chip select signal	- - - - - - - -
	74 75 76 77 78 79	D[13] D[15] +5.1VB +5.1VB CEP2CS-0 DREQD2-1 DAC/CCC	MDM data bus [13] MDM data bus [15] +5.1 V +5.1 V CEP2 chip select signal Data request signal Data request signal	- - - - - - - -
	74 75 76 77 78 79 30	D[13] D[15] +5.1VB +5.1VB CEP2CS-0 DREQD2-1 DACKD2-0	MDM data bus [13] MDM data bus [15] +5.1 V +5.1 V CEP2 chip select signal Data request signal Data acknowledge signal	- - - - - - - -
CNG	74 75 76 77 78 79 30 602 F	D[13] D[15] +5.1VB +5.1VB CEP2CS-0 DREQD2-1 DACKD2-0	MDM data bus [13] MDM data bus [15] +5.1 V +5.1 V CEP2 chip select signal Data request signal Data acknowledge signal <-> DOWNLOAD JIG (FAX) (OPTION)	- - - - - - - -
CNE	74 75 76 77 78 79 30 502 F	D[13] D[15] +5.1VB +5.1VB CEP2CS-0 DREQD2-1 DACKD2-0 AX (CN602) Symbol	MDM data bus [13] MDM data bus [15] +5.1 V +5.1 V CEP2 chip select signal Data request signal Data acknowledge signal > DOWNLOAD JIG (FAX) (OPTION) Name	- - - - - - - - -
	74 75 76 77 78 79 30 602 F 1 No 1 2	D[13] D[15] +5.1VB +5.1VB CEP2CS-0 DREQD2-1 DACKD2-0 Symbol D[0] D[2]	MDM data bus [13] MDM data bus [15] +5.1 V +5.1 V +5.2 chip select signal Data request signal Data acknowledge signal > DOWNLOAD JIG (FAX) (OPTION) Name ROM data bus [0] ROM data bus [2]	- - - - - - - - - - - - - - - - - - -
	74 75 76 77 78 79 30 602 F 1 No 1 2 3	C::::::::::::::::::::::::::::::::::::	MDM data bus [13] MDM data bus [15] +5.1 V +5.1 V CEP2 chip select signal Data request signal Data acknowledge signal <-> DOWNLOAD JIG (FAX) (OPTION) Name ROM data bus [0] ROM data bus [2] ROM data bus [4] POM data bus [4]	
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B14	OFFSET1	OCT motor drive signal-1	-
B15	OFFSET2	OCT motor drive signal-2	-
B16	NC	Not connected	-
B17	NC	Not connected	-
B18	NC	Not connected	-

CN307 PWA-F-LGC (CN307) <-> EMP-U-SNR, CST-U-TRY-SNR, CST-U-FEED-CLT, NEMP-U-SNR, TRY-MOT, TR-L-CLT, EMP-L-SNR, CST-L-TRY-SNR, CST-L-FEED-CLT, NEMP-L-SNR,

CST-U-SW CST-L-SW

Pin No	Symbol	Name	Active
A1	SG	Signal ground	-
A2	CUEMP-1	Upper drawer empty sensor detection signal	-
A3	+5.1VB	+5.1 V	-
A4	SG	Signal ground	-
A5	CUTOP-1	Upper drawer tray-up sensor detection signal	-
A6	+5.1VB	+5.1 V	-
A7	CURGC-0A	Upper drawer feed clutch drive signal	-
A8	+24VD1	+24 V	-
A9	SG	Signal ground	-
A10	CUFLS-1	Upper drawer paper stock sensor detection signal	-
A11	+5.1VB	+5.1 V	-
A12	CLTRM-0A	Tray-up motor drive signal	-
A13	CLTRM-1A	Tray-up motor drive signal	-
A14	2NDCL-0A	Lower transport clutch drive signal	-
A15	+24VD1	+24 V	-
B1	SG	Signal ground	-
B2	CLEMP-1	Lower drawer empty sensor detection signal	-
B3	+5.1VB	+5.1 V	-
B4	SG	Signal ground	-
B5	CLTOP-1	Lower drawer tray-up sensor detection signal	-
B6	+5.1VB	+5.1 V	-
B7	CLRGC-0	Lower drawer feed clutch drive signal	-
B8	+24VD1	+24 V	-
B9	SG	Signal ground	-
B10	CLFLS-1	Upper drawer paper stock sensor detection signal	-
B11	+5.1VB	+5.1 V	
B12	SG	Signal ground	-
B13	CUSW-0	Upper drawer detection signal	-
B14	SG	Signal ground	-
R15		Lower drawer detection signal	

CN308 PWA-F-LGC (CN308) <-> PS-HVT (CN720)/THMS-C-HTR, THMS-S-HTR, THMS-EDG-HTR, EXT-SNR

Pin No	Symbol	Name	Active
A1	HVCLK-0A	Developer AC bias high-voltage clock signal	-
A2	HVSDWN-1A	High-voltage power supply leakage detection signal	L
A3	HVSAV-1A	Separation bias voltage output reference voltage	Analog
A4	HVTSP-0A	Separation bias voltage ON/OFF signal	-
A5	HVTGB-0A	Transfer guide bias voltage ON/OFF signal	-
A6	HVTVR-1A	Transfer bias high-voltage output reference voltage	Analog
A7	HVTT-0A	Transfer bias high-voltage ON/OFF signal	-
A8	HVAVR-1A	Developer AC bias high-voltage output reference voltage	Analog
A9	HVTAC-0A	Developer AC bias high-voltage ON/OFF signal	-
A10	HVDVR-1A	Developer DC bias high-voltage output reference voltage	Analog
A11	HVMVR-1A	Main charger grid output reference voltage	Analog
A12	HVTM-0A	Main needle electrode charger voltage ON/OFF signal	-
A13	SG	Signal ground	-
A14	+24VD2	+24 V	
B1	FUSSW-1A	Fuser roller thermistor connection detection signal	-
B2	MTH+-1A	Fuser roller center thermistor + signal	Analog
B3	MTH1A	Fuser roller center thermistor - signal	Analog
B4	STH+-1A	Fuser roller side thermistor + signal	Analog
B5	STH1A	Fuser roller side thermistor - signal	Analog
B6	ETH+-1A	Fuser roller edge thermistor + signal	Analog
B7	ETH1A	Fuser roller edge thermistor - signal	Analog
B8	+5.1VSW	+5.1 V	-
B9	SG	Signal ground	-
B10	EXTSW-1	Exit sensor detection signal	-
B11	+5.1VB	+5.1 V	-
B12	NC	Not connected	-
B13	NC	Not connected	-
B14	NC	Not connected	-

COPY KEY CARD (OPTION)				
Pin No	Symbol	Name	Active	
1	L/S	Paper size signal	-	
2	FULL-C	Full-color mode signal	-	
3	MONO-C	Mono-color mode signal	-	
4	B/W	Black and white mode signal	-	
5	+5.1VA	+5.1 V	-	
6	SG	Signal ground	-	
7	NC	Not connected	-	

CN108 PWA-F-SYS (CN108) <-> DOWNLOAD JIG (SYS)

Pin No	Symbol	Name	Active
1	DATÃ0	System data bus [0]	-
2	DATA2	System data bus [2]	-
3	DATA4	System data bus [4]	-
4	DATA6	System data bus [6]	-
5	DATA8	System data bus [8]	-
6	DATA10	System data bus [10]	-
7	DATA12	System data bus [12]	-
8	DATA14	System data bus [14]	-
9	A21	System address bus [19]	-
10	A19	System address bus [17]	-
11	A17	System address bus [15]	-
12	A15	System address bus [13]	-
13	A13	System address bus [11]	-
14	A11	System address bus [9]	-
15	A09	System address bus [7]	-
16	A07	System address bus [5]	-
17	A05	System address bus [3]	-
18	A03	System address bus [1]	-
19	RDX	System read signal	-
20	CS0-A	Chip select signal (0-A)	-
21	CS0-B	Chip select signal (0-B)	-
22	+3.3VA	+3.3 V	-
23	+3.3VA	+3.3 V	-
24	SG	Signal ground	-
25	SG	Signal ground	-
26	DATA1	System data bus [1]	-
27	DATA3	System data bus [3]	-
28	DATA5	System data bus [5]	-
29	DATA7	System data bus [7]	-
30	DATA9	System data bus [9]	-
31	DATA11	System data bus [11]	-
32	DATA13	System data bus [13]	-
33	DATA15	System data bus [15]	-
34	A20	System address bus [18]	-
35	A18	System address bus [16]	-
36	A16	System address bus [14]	-
37	A14	System address bus [12]	-
38	A12	System address bus [10]	-
39	A10	System address bus [8]	-
40	A08	System address bus [6]	-
41	A06	System address bus [4]	-
42	A04	System address bus [2]	-
43	A02	System address bus [0]	-
44	A22	System address bus [21]	-
45	/CS0	Chip select signal	-
46	+3.3VA	+3.3 V	-
47	RMSL	System control signal	-
48	/WRX	System write signal	-
49	SG	Signal ground	-
50	SG	Signal ground	-

Pin No	Symbol	Name	Active
1	/RESET	Reset signal	-
2	SG	Signal ground	-
3	DD7	Data bus [7]	-
4	DD8	Data bus [8]	-
5	DD6	Data bus [6]	-
6	DD9	Data bus [9]	-
7	DD5	Data bus [5]	-
8	DD10	Data bus [10]	-
9	DD4	Data bus [4]	-
10	DD11	Data bus [11]	-
11	DD3	Data bus [3]	-
12	DD12	Data bus [12]	-
13	DD2	Data bus [2]	-
14	DD13	Data bus [13]	-
15	DD1	Data bus [1]	-
16	DD14	Data bus [14]	-
17	DD0	Data bus [0]	-
18	DD15	Data bus [15]	-
19	SG	Signal ground	-
20	NC(KEY)	Not connected	-
21	MDARQ	DMA request signal	Н
22	SG	Signal ground	-
23	/DIOW	I/O write signal	-
24	SG	Signal ground	-
25	/DIOR	I/O read signal	-
26	SG	Signal ground	-
27	IORDY	I/O ready signal	-
28	SG	Signal ground	-
29	/DMACK	DMA acknowledge signal	L
30	SG	Signal ground	-
31	INTRQ	Interrupt request signal	Н
32	RESERVED	Reserve signal	-
33	DA1	Device address [1]	-
34	/PDIAG	Passed diagnostics	L
35	DA0	Device address [0]	-
36	DA2	Device address [2]	-
37	/CS0	Chip select-0	L
38	/CS1	Chip select-1	L
39	/DASP	Device active or slave present signal	L
40	SG	Signal ground	-

CN113 PWA-F-SYS (CN113) <-> BLUETOOTH MODULE

Not connected

Not connected Serial data Serial data

Not connected Not connected

Signal ground Not connected Not connected Reset signal Not connected Not connected Not connected Not connected Not connected Signal groun

CN114 PWA-F-SYS (CN114) <-> USB CONNECTOR (HOST)

USB serial data USB serial data Signal ground +5.1 V USB serial data USB serial data Signal ground

Signal ground Not connected

Name

Name

 CN113
 PWA-r
 -

 Pin No
 Symbol

 1
 VBUS
 +5.1 V

 2
 D0 USB serial d

 3
 D0+
 USB serial d

 4
 SG
 Signal groun

 5
 VBUS
 +5.1 V

 Pin No
 Symbol

 1
 VDD

 2
 NC

 3
 NC

 4
 D

 5
 D+

 6
 NC

 7
 NC

 8
 DETACH

 9
 NC

 10
 SG

 11
 NC

 12
 NC

 13
 //RESET

 14
 NC

 15
 NC

 16
 NC

 17
 NC

 18
 NC

 19
 NC

 20
 SG

n No	Symbol	Name	Active
1	SG	Signal ground	-
2	SG	Signal ground	-
3	+5.1VB	+5.1 V	-
4	+5.1VB	+5.1 V	-
5	+5.1VB	+5.1 V (to RADF)	-
6	+5.1VB	+5.1 V (to RADF)	-
7	SG	Signal ground	-
8	SG	Signal ground	-
9	+3.3VB	+3.3 V	-
10	+3.3VB	+3.3 V	-
11	SG	Signal ground	-
12	SG	Signal ground	-
13	+12VB	+12 V	-
14	SG	Signal ground	-
15	NC	Not connected	-
16	NC	Not connected	-
17	SG	Signal ground	-
18	SG	Signal ground	-
19	+24VD4	+24 V	-
20	+24VD4	+24 V	-
21	PG	Power ground	-
22	PG	Power ground	-
23	+24VD3	+24 V (to RADF)	-
24	+24VD3	+24 V (to RADF)	-
1721	PS-HVT (OL	JT1) <-> MAIN CHARGER WIRE	
Pin No	Symbol	Name	Active
1	-	High-voltage to main needle electrode charger	-

N722 F	S-HVT (OU	[2) <-> MAIN CHARGER GRID	
Pin No	Symbol	Name	Active
1	-	High-voltage to main charger grid	-

CN723 PS-HVT (OUT3) <-> DEVELOPER BIAS

Pin No	Symbol	Name	Active
1	-	High-voltage to developer charger bias	-

N724 F	S-HVT (OU	「4) <-> TRANSFER BIAS	
Pin No	Symbol	Name	Active
1	-	High-voltage to transfer charger bias	-

 CN725 PS-HVT (OUT5) <-> SEPARATION BIAS

 Pin No
 Symbol
 Name

 1
 High-voltage to separation charger bias
 Active

CN726 PS-HVT (OUT6) <-> TRANSFER GUIDE BIAS/REGISTRATION

Pin No Symbol Name Active 1 High-voltage to transfer guide bias and registration roller bias High-voltage to transfer guide bias and registration High-voltage to transfer guide bias and registration	F	ROLLER BI	AS	
1 High-voltage to transfer guide bias and registra- tion roller bias	Pin No	Symbol	Name	Active
	1	-	High-voltage to transfer guide bias and registra- tion roller bias	-

J600 IPC BOARD (J600) <-> FINISHER (J598) (OPTION)

Pin No	Symbol	Name	Active
1	RXD	Receiver serial data	-
2	SG	Signal ground	-
3	TXD	Transmitted serial data	-
4	SG	Signal ground	-
5	NC	Not connected	-
6	NC	Not connected	-
7	NC	Not connected	-
8	NC	Not connected	-
9	F-CNT	Finisher connection detection signal	L
10	CNT-GND	Ground	-

Active

Active

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