imagePROGRAF TX-4000 TX-3000

SERVICE Manual





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Application

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> Important: Not all features, functions and models mentioned in this document are available in all markets.

Recommended System

Browser:	Adobe Acrobat Reader 7.0 or later
	(To see the movie or animation, Adobe Flash Player is required.)
Operation confirmed OS:	Windows 7

Revision History

Revision	Date	Revised items
00	Oct. 2017	New edi on

Applicable Products

TX-2000	Q51-2707-000
TX-3000	Q51-2717-000
TX-4000	Q51-2727-000

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PRODUCT OUTLINE

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1-1. Product Overview

Product Overview

The new printers introduce updates to the core technologies of current 5-color models. All fi e colors of LUCIA TD pigment ink have been newly developed. Also new is the print head, optimi ed for the TX series, and the high-precision mechanical pla orm, featured in 2016 PRO graphic arts models. Other enhancements include dual rolls that are easy to load, as well as more robust security. The printers combine the productivit, usability, and security sought in the high-end CAD inkjet market with the favorable print quality on uncoated paper and low running costs sought in the entry-level LED plo er market, where the printers will gain share. In this way, the models target both high-end inkjet and entry-level LED plo er users by o ering a viable alternati e that enables us to gain MIF share.



imagePROGRAFTX series Lineup

Names of Components

Chapter 6



No	Name	Remarks
[1]	PRINT HEAD	Consumables
[2]	INK CARTRIDGE	Consumables
[3]	MAINTENANCE CARTRIDGE	Consumables
[4]	CUTTER BLADE	Consumables
[5]	ROLLUNIT	
[6]	ROLL HOLDER	
[7]	PRINTER STAND	
[8]	STACKER	Optio

8 | **1-1. Product Overview** SM-17001E-00



Enhanced durability

•Carriage drive heavy sliding load reductio

Adopts ∩-type bushing. Reduces mist-induced sliding load as a challenge of the current LFP cylindrical bushing.



Chapter 8

10 | **1-2. Features** SM-17001E-00 •New error code organization based on d fecti e unit

Realizes new error code organization based on d fecti e unit by enhancing printer self-diagnostic functio

Previous LFP error code organization

Only phenomenon indicated



New error code organization

Phenomenon and estimated causes are indicated

New error codes	Causes Exxx	Phenomenon yyyy
EC01-2F90	Bushing	Carriage overload error
EC04-2F91	Encoder	Carriage encoder error
EC05-2F92	Carriage motor	Carriage operation error
EC0F-2F93	Paper jam	Carriage jam error

New Service Mode

- · Easy operation using 3.0 olor touch panel.
- Enhances failure diagnosis (newly contains carriage system/PURGE UNIT/PAPER FEED ENCODER UNIT diagnostic function. Im oves usability of other functions)

SERVICE MODE	PRINTER STATUS	Menu	Main functions
PRINTER STATUS DIAGNOSIS FUNCTION ADJUSTMENT TEST PRTMT	SYSTEM INFO ERROR LOG PARTS COUNTER CLEANING LOG SERVICE LOG	PRINTER STATUS	Printer status check ✓Error log ✓Parts counter ✓Cleaning log ✓Service log
	ADJUSTMENT OPTICAL AXIS GAP CALIB. LF TUNING LF TUNING2 NOZZLE CHK POS.	DIAGNOSIS	Failure diagnosis ✓ Carriage system check ✓ Purge unit check ✓ Head contact check ✓ Multi sensor check
		FUNCTION	Function for parts replacement ✓ Carriage lock / unlock ✓ Ink evacuation ✓ Ink filling
		ADJUSTMENT	Adjustment after parts replacement
		TEST PRINT	Service nozzle check printing
		E-RDS	UGW connection settings
		OTHERS	Others, log collectio

Improved parts replacement performance

Improves parts replacement performance of the main units.



Chapter 1

Chapter 2

Chapter 3

Chapter 4

12 | **1-2. Features** SM-17001E-00

Enhanced remote maintenance

Enhances the information o tained using UGW.

Information obtained by UGW		Current LFP	imagePROGRAF TX series	Remarks
	Hardware error	Old error codes	New error codes	New error codes based on defecti e units
Error codes	Jam error	One type	Twelve types	 The following jams are detected: Jams while paper is fed Skewed paper feeding Paper edge detec on error Jams while carriage drives Jams when paper is cut Rewinding error (Roll paper, Cut sheet, top and bo om paper roll)
	Operator error/warning	Obtained	Obtained	
Parts counter		Obtained	Obtained	
	Head dot count	Obtained	Obtained	
Consumables	Remaining ink	Warning only	Obtained in %	
	Remaining maintenance cartridge	Obtained in %	Obtained in %	
Others	Temperature/humidity	N/A	Obtained	Utili ed for the diagnosis of image failure due to temperature and humidity/paper jam

- Enhanced items are indicated by boldface.

- Can obtain the same information o tained by UGW as imagePROGRAF PRO series.

1-3. Product Specifications

TX-2000

	Item	specifi atio	
Model		TX-2000	
Class		24"	
Ink Type		Five-color pigment inks (Mbk, bk, C, M, Y)	
Maximum Print Resolution	0	2400 × 1200dpi	
Installatio		User installatio	
Product Durability		25.000sheets of A1 size (no maintenance)	
·····,		50,000sheets of A1 size (With service	
		maintenance)	
		Printing onditions: $12.5\% \times 3$ olor (CMY) + 6.8%	
		(Mbk) + 5.7% (bk) = 50% Duty,	
		Canon Coated Paper hg , standard mode	
stand	Туре	Assembly type	
	Installatio	User installatio	
Dimensions W × D × h	Main Unit	1110 x 734 x 629	
(mm), Weight (kg) (Unit)		Weight : 74 kg (including Roll holder set, excluding	
		ink and print head)	
	Main Unit + stand + basket	1110 × 984 × 1168 mm (basket Opened: Position1	
		1110 × 766 × 1168 mm (basket Closed)	
		Weight: 91 kg (Including Roll holder set, excluding	
		ink and print head)	
	Main Unit + Roll Unit + stand + basket	Weight: 107 kg (Including Roll holder set,	
		excluding ink and print head)	
	Main Unit + Roll Unit + stand + stacker	1110 × 1188 × 1168 mm (stacker Opened)	
		1110 × 1122 × 1168 mm (stacker Closed)	
		Weight: 117 kg (Including Roll holder set,	
		excluding ink and print head)	
Dimensions $W \times D \times h$	Printer (Main unit with pallet)	1324 × 902 × 1055 mm, Weight: 110 kg	
(mm), Weight (kg)	stand + basket	1111 × 797 × 223 mm, Weight: 23 kg	
(Package)	Printer (Main unit with stand and pallet)	1324 × 902 × 1055 mm, Weight: 131 kg	
	stacker	969 × 906 × 291 mm, Weight: 21kg	
	Roll Unit	1244 × 562 × 461 mm, Weight: 22 kg	
Power supply	Input power	AC 100-240 V (50-60 hz)	
	Power consumption (Using wi ed LAn)	91 W or less	
	sleep mode (Using wired LAn)	3.6 W or less	
	sleep mode (Using all ports)	3.6 W or less	
	<eu 26="" erp="" for="" lot="" only-data=""></eu>		
	Power off	0.3 W or less	
	Default setting or the time o enter the	301sec	
	sleep mode		
	<eu 26="" erp="" for="" lot="" only-data=""></eu>		
Recommended Environm	nent	Temperature: 15 to 30°C	
		humidity: 10 to 80%Rh (no dew condensation	
Acoustic noise	Acoustic p essure	Operation: 50 b(A) or less	
		(Plain paper, line drawing, standard mode)	
		stand by: 35 db(A) or less	
		(Measured on IsO7779 standard)	
	Acoustic p wer	Operation: 6.8 bels or less	
		(Plain paper, line drawing, standard mode)	
		(Measured on IsO7779 standard)	

Item		Specifi atio		
Detector and	Registration adju tment		Automatic, Manua	
Adjustment	Banding adjustment		Automatic, Manua	
	Line length adjustment		Manual	
	Head slant adjustment		Automatic, Manua No Automatic, Manual (81 vels)	
	Color calibratio			
	Head gap adjustment			
	Non-firing d tectio		Auto	
	Non-firing ompensation	1	Auto	
	Roll media remaining de	tection functi	Barcode print, Auto	
Line Accuracy	0.1		±0.1 % or less	
,			User adjustments necessary. Printing e vironment	
			and media must match those used for the	
			adjustments.	
			CAD paper required: Plain paper, CAD tracing	
			paper, coated paper, CAD	
			translucent ma e film onl	
Memory	Standard memory		128 GB (Physical memory 2 GB)	
	Expansion slot		No	
Firmware	Languages P	rinter language	SGRaster (Swift G aphic Raster)	
			HP-GL/2	
			HP RTL	
			PDF Supported Version 1.7	
			- Not supported: Over print function,	
			Transparent function, and some	
			others	
			- Not supported: The file has been s t	
			with password	
			- Recommended: Embedded font. Use	
			the build-in font if there is not it	
			- List of the built-in fonts	
			Times-Roman, Helveti a, Courier,	
			Symbol, Times-Bold, Helveti a-Bold,	
			Courier-Bold, ZapfDingbats, Times-	
			Italic, Helveti a-Oblique, Courier-	
			Oblique, Times-Bold Italic, Helveti a-	
			Bold Oblique, Courier-Bold Oblique	
			JPEG Supported Version JFIF1.02	
			- Compression: Basic DCT (discrete	
			cosine transform)	
			- Color Mode: RGB, GrayScale	
			- Color bit: 24bit, 8bit	
			- Pixel: 19,200 pixel or less both	
			verti ally and horizontally	
			*Not supported: Full function of	
		1	sampling	
		lontrol		
	S [·]	tatus reply	ISNMP-MIB (Standard MIB, Canon-MIB), IVEC,	
	D	irect Print	HP-GL/2, HP KIL, PDF, JPEG	
	Туре		Hash ROM	
	Update		Updated by printer panel operation	
			Updated from USB (Utility use	
			Ethernet port (without Utility use	
Operation anel	Display		LCD (3.0 inch (7.62cm) TFT color)	
	Language on operation p	bane	21 Languages Selectable:	
			Japanese, English, French, German, Italian,	
			Spanish, Brazilian Portuguese, Dutch, Polish,	
			Russian, Simplified Chinese, raditional Chinese,	
			Korean, Thai, Indonesian, Turkish, Czech, Danish,	
			Swedish, Norwegian, Finnish	

	Item		Specifi atio
Hard Disk		500GB (Encrypted)	
Interface	USB B Port	Туре	Built in (Hi-Speed USB)
		Mode	Full Speed (12 Mbit/sec), High Speed (480 Mbit/
			sec), Bulk transfer
		Connector type	Series B (4 pins)
	USB A Port		USB Memory (Direct Print)
	Gigabit Ethernet	Туре	Built in
		Standard	IEEE 802.3 10base-T
			IEEE 802.3u 100base-TX/Auto-Negoti tio
			IEEE 802.3ab 1000base-T/Auto-Negoti tio
			IEEE 802.3x Full Duplex
		Protocol	SNMP (Canon-MIB), HTTP, TCP/IP (IPv4, IPv6), ft
	Wireless LAN	Standard	IEEE802.11n, IEEE802.11g, IEEE802.11b
		Security	WEP (64bit, 128bit)
			WPA-PSK (TKIP, AES)
			WPA2-PSK (TKIP, AES)
Expansion Slot			No

Print Head

Item		Specifi atio
Print Head	Model	PF-06
	Туре	Bubble-jet on demand
	Head configu atio	6 Color integrated Type × 1 print head
	Nozzle pitch	1200dpi (2 lines)
	Nozzle per chip	15,360 nozzles
		(MBK 5,120 nozzles, OtherColors 2,560 nozzles
		each)
	Droplet size	Minimum 5pl per color
	Head replacement	User replacement

Ink Tank

Item		Specifi atio
Ink Tank	Model	PFI-110 (160 ml), PFI-310 (330 ml), PFI-710 (700 ml)
	Supply*	Tubing system (with sub-tank)
: printer's ink supply	Sub inktank Capacity	Each color 30 ml
spec	Colors	Pigment 5 Color (MBK, BK, C, M, Y)
	Capacity	Sales use: 160 ml, 330 ml, 700 ml
		Starter use: 330 ml (MBK), 160 ml (BK, C, M, Y)
	Level detection	Detected by dot count and electrode (Empty)
	Smart chip	Each ink tank is equipped with EEPROM which
		stores its ink level

Cutter

Item		Specifi atio
Cu er	Model	CT-07
	Туре	Automatic hori ontal cutting otary cu er):
		standard
	Cu er durability (cuts)	25,000 cuts
		5,000 cuts for canvas and cloth media
		2,000 cuts for adhesive media
	Replacement	User replacement

Media Handling

Item		Specifi atio
Media Feed and	Roll paper	One Roll, Front-loading, Front Output
Output	Added Roll Paper	One Roll, Front-loading, Front Output
	Cut sheet	Front-loading, Front Output (Manual feed using
		media locking lever)
	Paper path switch (Roll/Cut sheet)	Manually switchable by user
		Upper Roll/Lower Roll Automati ally switchable*
		* excludes at the end of roll
		* excludes medias which are not available for
		Automatic paper loadin
	Delivery directio	Face-up, Front side
	Media Take-up Unit	Dual directions olling take-up
	Maximum stacking number of delivered	 Multiposition Ba et
	prints	Standard position: 1 she t
		Flat position: A2 lands ape, glossy paper 10 sheets
		or less, coated paper 20 sheets or
		less, plain paper 20 sheets or less
		(Excludes strong curled condition
		*Operability confirmed media as ollows.
		Glossy paper:
		Luster Photo Paper
		Glossy Photo Paper 170gsm
		Satin Pho o Paper 170gsm
		Glossy Photo Paper HG 170
		Semi-Glossy Photo Paper HG 170
		Glossy Photo Paper 200gsm
		Satin Pho o Paper 200gsm
		Glossy Photo Paper 240gsm
		Satin Pho o Paper 240gsm
		Glossy Photo Paper HG 255
		Semi-Glossy Photo Paper HG 255
		Premium RC Photo Luster, 10mil
		Premium Glossy Paper 2 280
		Premium Semi-Glossy Paper 2 280
		Coated paper:
		Heavyweight Coated Paper HG 145 gsm

0		Item		specifi atio
กล	Media Feed and	Maximum stacking n	umber of delivered	•stacker
P.	Output	prints		basket Position: 1 she t
Ÿ	Carpar	printo		Under the condition bel. w: 10 sheets
4				\cdot Environment: n/n (23°C 50%)
				$= \operatorname{Imago}(\operatorname{CAD}(\operatorname{co}_{-3}\operatorname{go}))$
				Madia: Diain Danan (Dramium Diain Danan
				• Media: Plain Paper (Premium Plain Paper,
-				standard Plain Paper 2)
5				 Media size (width × length):
a				A1 594 × 841 mm
ote				*Except when media is curled
-				
N				stacking Positio
				stacking sheets: 20 sheets under the conditions of
				1 below
				100 sheets under the conditions of
Q				1' and 2' below
าล				*Except when media is curled
pt				· Environment: n/n (23°C, 50%)
er er				 Image:CAD (co age)
ω				· Position
				1: Folding positio
				Media: Plain Paper (Premium Plain Paper,
				standard Plain Paper 2)
				Media size (width × length):
9				ARCh D 610x914 mm (24" x 36")
a				Δ1 594 x 841 mm
ote				1': Folding positio
T I				1. Folding positio
4				Madia circa (width where the
				iviedia size (width × length):
				ARCh D 610 × 914 mm (24" × 36")
				A1 594 × 841 mm
				2': stacking positio
S				Media:Uncoated Paper (Oce Redlabel75),
a				Plain Paper (Premium Plain Paper, standard
ote				Plain Paper 2)
				Media size (width × length):
01				ARCh C 610×457 mm (24" × 18")
				$\Delta 2594 \times 420 \text{ mm}$
	Media size	Roll paper (Width)	lsO	A3, A3+, A2, A1
			lls	b4, b3, b2
0			ARCh	24"
ha			Others	
pt			Others	8,10,12,14,10,17,20
er				300 mm, 500 mm, 600 mm
6		Cut sheet	IsO	A4, A3, A3+, A2, A2+, A1
				b4, b3, b2
			DIN	C4, C3, C2
			JIs	b4, b3, b2
			Ans I	8.5 × 11", 8.5 × 14", 11 × 17", 13 × 19", 17 × 22", 22
Q				× 34"
la			ARCh	9 x 12" 12 x 18" 18 x 24" 24 x 36"
ote			Photo	$(20 \times 24")$ (18 × 22") (14 × 17") (12 × 16")
T			FIIOLO	$(20 \times 24), (10 \times 22), (14 \times 17), (12 \times 10), (10 \times 12"), (10 \times 16"), (20 \times 10"), (16 \times 20")$
7			Destau	(10 × 12), (10 × 15), (8 × 10), (10 × 20)
			Othors	20 × 30 , 300 × 900 mm
	Media Thickness	Roll naner	Others	15 * 22
		Cut sheet		0.07 to 0.8 mm
Ch	Maximum Outside Dia	ameter of Roll Paper		170 mm or less
a	Media Core sizo			Internal diameter of roll core: 2" 2"
te	Modia Width	Poll paper		$202.2 \pm 6.40 \text{ mm}$
5		Kull paper		
00		Cut sneet		203.2 to 610 mm

18 | 1-3. Product Specifications

SM-17001E-00

Item			specifi atio
Minimum Printable Paper Length			203.2 mm
Maximum Printable	Roll paper		18m (Varies according to the Os and application
Paper Length	Cut sheet		1.6m (With stand)
Margins	Reco mmended area	Roll paper	Top: 20 mm, bo om: 3 mm, side: 3 mm
		Cut sheet	Top: 20 mm, bo om: 20 mm, side: 3 mm
	Printable area	Roll paper	Top: 3 mm, bo om: 3 mm, side: 3 mm
		Roll paper	Top: 0 mm, bo om: 0 mm, side: 0 mm
		(borderless print)	
		Cut sheet	Top: 3 mm, bo om: 20 mm, side: 3 mm
borderless Printing	Media Width		[Reco mmended] 515 mm (JIs b2), 594 mm (IsO A1),
			10", 14", 17", 24"
			[Printable] 257 mm (JIs b4), 297 mm (IsO A3), 329
			mm (IsO A3+), 420 mm (IsO A2), 8", 12", 16", 20",
			300 mm, 500 mm, 600 mm

TX-3000

Item		Specifi atio
Model		TX-3000
Class		36"
Ink Type		Five-color pigment inks (MBK, BK, C, M, Y)
Maximum Print Resolutio)	2400 × 1200dpi
Installatio		User installatio
Product Durability		25,000sheets of A0 size (No maintenance)
		100,000sheets of A0 size (With service
		maintenance)
		Printing onditions: 12.5% × 3 olor (CMY) + 6.8%
		(MBK) + 5.7% (BK) = 50% Duty
		Canon Coated Paper HG, standard mode
Stand	Туре	Assembly type
	Installatio	User installatio
Dimensions W × D × H	Main Unit + Stand + Basket	1390 × 984 × 1168 mm (Basket Opened: Position1
(mm), Weight (kg) (Unit)		1390 × 766 × 1168 mm (Basket Closed)
		Weight: 105 kg (Including Roll Holder Set,
		excluding ink and print head)
	Main Unit + Roll Unit + Stand + Basket	Weight: 124 kg (Including Roll Holder Set,
		excluding ink and print head)
	Main Unit + Roll Unit + Stand + Stacker	1390 × 1188 × 1168 (Stacker Opened)
		1390 × 1122 × 1168 (Stacker Closed)
		Weight: 136 kg (Including Roll Holder Set,
		excluding ink and print head)
Dimensions $W \times D \times H$	Printer (Main unit with stand and pallet)	1606 × 903 × 1061 mm, Weight: 153 kg
(mm), Weight (kg)	Stacker	1249 × 906 × 291 mm, Weight: 24kg
(Package)	Roll Unit	1524 × 562 × 461 mm, Weight: 26 kg
Power Supply	Input power	AC 100-240 V (50-60 Hz)
	Power consumption (Using wi ed LAN)	105 W or less
	Sleep mode (Using wired LAN)	3.6 W or less
	Sleep mode (Using all ports)	3.6 W or less
	<eu 26="" erp="" for="" lot="" only-data=""></eu>	
	Power off	0.3 W or less
	Default setting or the time o enter the	301sec
	Sleep mode	
	<eu 26="" erp="" for="" lot="" only-data=""></eu>	
Recommended Environm	ent	Temperature: 15 to 30°C
		Humidity: 10 to 80%RH (No dew condensation
Acoustic Nois	Acoustic p essure	Operation: 51 dB(A) or les
		(Plain paper, line drawing, standard mode)
		Stand by: 35 dB(A) or less
	Acoustic p wer	Operation : 6.9 Bels or les
		(Plain paper, line drawing, standard mode)
		(Measured on ISO7779 standard)
Detector and	Registration adju tment	Automatic, Manua
Adjustment	Banding adjustment	Automatic ,Manua
	Line length adjustment	Manual
	Head slant adjustment	Automatic ,Manua
	Color calibratio	No
	Head gap adjustment	Automatic, Manual (81 vels)
	Non-firing d tectio	Auto
	Non-firing ompensation	Auto
	Roll media remaining detection functi	Barcode print, Auto

Item				Specifi atio
Line Accuracy			±0.1 % o	r less
			User adjı	ustments necessary.
			Printing e	e vironment and media must match
			those use	ed for the adjustments.
1			CAD pap	er required: Plain paper, CAD tracing
				paper, coated paper, CAD
				translucent ma e film on
Memory	Standard memor	W	128 GB (Physical memory 2 GB)
wiemory	Expansion slot	У	120 00 (1	
Firmurara		Drintor languaga	INU C Dactor	(Swift C applic Dactor)
Firmware	Languages	Printer language	SGRaster	
			HP-GL/2	
			HP RTL	
			PDF	Supported Version 1.7
1				- Not supported: Over print function,
				Transparent function, and some othe s
				- Not supported: The file has been s t
				with password
				- Recommended: Embedded font. Use
				the build-in font if there is not it
				- List of the built-in fonts
				Times-Roman, Helveti a, Courier,
				Symbol, Times-Bold, Helveti a-Bold,
				Courier-Bold, ZapfDingbats, Times-
				Italic, Helveti a-Oblique, Courier-
				Oblique, Times-Bold Italic, Helveti a-
				Bold Oblique, Courier-Bold Oblique
			IPEG	Supported Version IEIE1 02
			51 20	- Compression: Basic DCT (discrete
				cosine transform)
				- Color Mode: RGB_GravScale
				Color hit: 24hit Shit
				- Color bit. 24bit, 8bit
				- Pixer. 19,200 pixer of less both
				*Net supported. Full function of
				"Not supported: Full function of
				sampling
		Job control	IVEC	
		Status reply	SNMP-M	IB (Standard MIB, Canon-MIB), IVEC,
		Direct Print	HP-GL/2,	. HP RTL, PDF, JPEGF
	Type		Flash RO	M
	Update		Undated	by printer panel operation
	opune		Updated from USB (Utility use	
			Ethernet nort (without Utility use	
Operation and	Display			inch (7.62cm) TET color)
operation after		Display		
	Language on ope	ration pane	ZI Langu	lages Selectable:
			Japanese	e, English, French, German, Italian,
			Spanish,	Brazilian Portuguese, Dutch, Polish,
			Russian,	Simplified Chinese, raditional Chinese,
			Korean, 1	Thai, Indonesian, Turkish, Czech, Danish,
			Swedish, Norwegian, Finnish	
Hard Disk			500 GB (Encrypted)

	Item		Specifi atio
Interface	USB B Port	Туре	Built in (Hi-Speed USB)
		Mode	Full Speed (12 Mbit/sec), High Speed (480 Mbit/
			sec), Bulk transfer
		Connector type	Series B (4 pins)
	USB A Port		USB Memory (Direct Print)
	Gigabit Ethernet	Туре	Built in
		Standard	IEEE 802.3 10base-T
			IEEE 802.3u 100base-TX/Auto-Negoti tio
			IEEE 802.3ab 1000base-T/Auto-Negoti tio
			IEEE 802.3x Full Duplex
		Protocol	SNMP (Canon-MIB), HTTP, TCP/IP (IPv4, IPv6), ft
	Wireless LAN	Standard	IEEE802.11n, IEEE802.11g, IEEE802.11b
		Security	WEP (64bit, 128bit)
			WPA-PSK (TKIP, AES)
			WPA2-PSK (TKIP, AES)
Expansion Slot			No

Print Head

E

Item		Specifi atio
Print Head	Model	PF-06
	Туре	Bubble-jet on demand
	Head configu atio	6 Color integrated Type × 1 print head
	Nozzle pitch	1200dpi (2lines)
	Nozzle per chip	15,360 nozzles
		(MBK 5,120 nozzles, OtherColors 2,560 nozzles
		each)
	Droplet size	Minimum 5pl per color
	Head replacement	User replacement

Ink Tank

Item		Specifi atio
Ink Tank	Model	PFI-110 (160 ml), PFI-310 (330 ml),
		PFI-710 (700 ml)
: printer's ink supply	Supply	Tubing system (with sub-tank)
spec	Sub inktank Capacity*	Each color 30 ml
	Colors	Pigment 5 Color (MBK, BK, C, M, Y)
	Capacity	Sales use: 160 ml, 330 ml, 700 ml
		Starter use: 330 ml (MBK), 160 ml (BK, C, M, Y)
	Level detection	Detected by dot count and electrode (Empty)
	Smart chip	Each ink tank is equipped with EEPROM which
		stores its ink level

Cutter

	Item	Specifi atio
Cu er	Model	CT-07
	Туре	Automatic hori ontal cutting otary cu er):
		standard
	Cu er durability (cuts)	25,000 cuts
		5,000 cuts for canvas and cloth media
		2,000 cuts for adhesive media
	Replacement	User replacement

Media Handling

	Item	Specifi atio
Media Feed and Output	Roll paper	One Roll, Front-loading, Front Output
	Added Roll Paper	One Roll, Front-loading, Front Output
	Cut sheet	Front-loading, Front Output (Manual feed using
		media locking lever)
	Paper path switch (roll/cut sheet)	Manually switchable by user
		Upper Roll/Lower Roll Automati ally switchable*
		*Excludes at the end of roll
		*Excludes medias which are not available for
		Automatic paper loadin
	Delivery directio	Face-up, Front side
	Media Take-up Unit	Dual directions olling take-up
	Maximum stacking number of delivered	 Multiposition Ba et
	prints	Standard position, 1 she t
		Standard position: I she t
		Flat position: A2 lands ape, glossy paper 10
		sheets of less, coaled paper 20
		or less
		(Excludes strong curled condition
		*Operability confirmed media as ollows
		Glossy paper:
		Luster Photo Paper
		Glossy Photo Paper 170gsm
		Satin Pho o Paper 170gsm
		Glossy Photo Paper HG 170
		Semi-Glossy Photo Paper HG 170
		Glossy Photo Paper 200gsm
		Satin Pho o Paper 200gsm
		Glossy Photo Paper 240gsm
		Satin Pho o Paper 240gsm
		Glossy Photo Paper HG 255
		Semi-Glossy Photo Paper HG 255
		Premium RC Photo Luster, 10mil
		Premium Glossy Paper 2 280
		Premium Semi-Glossy Paper 2 280
		Coated paper:
		Heavyweight Coated Paper HG 145gsm

0	[ltem		snerifi atio
าล	Media Feed	and Output	Maximum stacking n	umber of delivered	specifi auto
멅			nrints		hasket Position: 1 che t
er			prints		Under the condition bel. w: 10 sheets
÷					\cdot Environment: n/n (23°C 50%)
					· Image: CAD (co. age)
					· Media: Plain Paner (Premium Plain Paner
					standard Plain Paper 2)
0					· Media size (width x length):
ha					A0 841 × 1189mm
pt					A1 594 × 841mm
er					*Except when media is curled
2					
					stacking Positio
					stacking sheets: 20 sheets under the conditions
					of 1 below
0					100 sheets under the conditions
ha					of 1' and 2' below
pte					*Except when media is curled
Γω					Environment: n/n (23°C, 50%)
					Image: CAD (co age)
					Position
					1: Folding positio
0					Media: Plain Paper (Premium Plain
5					Paper, standard Plain Paper 2)
pt					Media size (width × length):
er					ARCh E 914×1219 mm (36" × 48")
4					A0 841×1189mm
					ARCh D 610×914 mm (24" × 36")
					A1 594×841 mm
					1': Folding positio
0					Media: Uncoated Paper (Oce
, h					Rediabel/5)
pt					We all size (what $n \times 1210$ mm (2011 $\times 40^{11}$)
er					ARCh E 914 \times 1219 mm (36 \times 48)
J					AU 841×1189 (((())) ADCh D 610 \times 014 mm (24" \times 26")
					ARCH $D 010 \times 914$ mm (24 $\times 50$)
					2': stacking positio
					Media: Uncoated Paper (Oce
0					Redlahel75) Plain Paner (Premium Plain
ha					Paper, standard Plain Paper 2)
pt					Media size (width x length):
er					ARCh D 914 × 610 mm (36" × 24")
6					A1 841 × 594mm
					ARCh C 610 × 457 mm (24" × 18")
					A2 594×420 mm
	Media size		Roll paper (Width)	IsO	A3, A3+, A2, A2+, A1, A0
9				JIs	b4, b3, b2, b1
lan				ARCh	24", 30", 36"
ote				Others	8", 10", 12", 14", 16", 17", 20"
rZ					300 mm, 500 mm, 600 mm, 800 mm, 1000mm
4					

Item			Specifi atio
Media Size	Cut sheet	ISO	A4, A3, A3+, A2, A2+, A1, A0
			B4, B3, B2, B1
		DIN	C4, C3, C2, C1, C0
		JIS	B4, B3, B2, B1
		ANSI	8.5 × 11", 8.5 × 14", 11 × 17", 13 ×19", 17 × 22",
			22 × 34", 28 × 40", 34 ×44"
		ARCH	9 × 12", 12 × 18", 18 × 24", 24 × 36", 26 × 38",
			27 × 39", 30 × 42", 36 × 48"
		Photo	(20 × 24"), (18 × 22"), (14 × 17"), (12 ×16"),
			(10 × 12"), (10 × 15"), (8 × 10"), (16 × 20")
		Poster	20 ×30", 30 × 40", 300 × 900 mm
		Others	13 × 22"
Media Thickness	Roll paper		0.07 to 0.8 mm
	Cut sheet		0.07 to 0.8 mm
Maximum Outside Dia	meter of Roll Paper		170 mm or less
Media Core Size			Internal diameter of roll core: 2", 3"
Media Width	Roll paper		203.2 to 917 mm
	Cut sheet		203.2 to 917 mm
Minimum Printable Paper Length		203.2 mm	
Maximum Printable	Roll paper		18 m (Varies according to the OS and application
Paper Length	Cut sheet		1.6 m
Margins	Reco mmended area	Roll paper	Top: 20 mm, Bo om: 3 mm, Side: 3 mm
		Cut sheet	Top: 20 mm, Bo om: 20 mm, Side: 3 mm
	Printable area	Roll paper	Top: 3 mm, Bo om: 3 mm, Side: 3 mm
		Roll paper	Top: 0 mm, Bo om: 0 mm, Side: 0 mm
		(borderless print)	
		Cut sheet	Top: 3 mm, Bo om: 20 mm, Side: 3 mm
Borderless Printing	Media Width		[Recommend] 515 mm (JIS B2), 728 mm (JIS B1),
			594mm (ISO A1), 841 mm (ISO A0), 10", 14", 17",
			24", 36"
			[Printable] 257 mm (JIS B4), 297 mm (ISO A3),
			329 mm (ISO A3+), 420mm (ISO A2), 8", 12", 16",
			20", 30", 300mm, 500mm, 600mm, 800mm

TX-4000 Γ

Chapter 2

Chapter 3

Chapter 6

Item		Specifi atio
Model		TX-4000
Class		44"
Ink Type		Five-color pigment inks (MBK, BK, C, M, Y)
Maximum Print Resolu	tio	2400 × 1200 dpi
Installatio		User installatio
Product Durability		25,000sheets of A0 size (No maintenance)
		100,000sheets of A0 size (With service
		maintenance)
		Printing onditions: 12.5% × 3 olor (CMY) + 6.8%
		(MBK) + 5.7% (BK) = 50% Duty
		Canon Coated Paper HG, standard mode
Stand	Туре	Assembly type
	Installatio	User installatio
Dimensions W × D ×	Main Unit + Stand + Basket	1593 × 984 × 1168 mm (Basket Opened: Position
H (mm), Weight (kg)		1593 × 766 × 1168 mm (Basket Closed)
(Unit)		Weight: 114 kg (Including Roll Holder Set,
		excluding ink and print head)
	Main Unit + Roll Unit + Stand + Basket	Weight: 134 kg (Including Roll Holder Set,
	Main Hait - Dall Hait - Chands - Charles	excluding ink and print nead)
	Main Unit + Roll Unit + Stand + Stacker	1593 × 1188 × 1168 (Stacker Opened)
		1593 × 1122 × 1168 (Stacker Closed)
		evoluting ink and print head)
	Drintor (Main unit with stand and pallet)	1820 x 015 x 1061 mm Weight: 165 kg
(mm) Woight (kg)	Stacker	1464 x 006 x 201 mm Weight: 105 kg
(IIIII), Weight (Kg) (Package)		1464 × 906 × 291 mm, Weight: 25kg
Power Supply	Rever consumption (Using wined LAN)	AC 100-240 V (50-60 HZ)
	Power consumption (Using wiled LAN)	2 C W or less
	Sleep mode (Using wired LAN)	3.6 W of less
	Sleep mode (Using all ports)	3.6 W OF less
	Rewar off	0.2 W or loss
	Default setting, or the time, a optor the	201500
	Sleep mode	SUISEC
	<ell 26="" erp="" for="" lot="" only-data=""></ell>	
Recommended Enviror	ment	Temperature: 15 to 30°C
		Humidity: 10 to 80%RH (No dew condensation
Acoustic Nois	Acoustic p essure	Operation: 51(A) or les
		(Plain paper, line drawing, standard mode)
		Stand by: 35 dB(A) or less
		(Measured on ISO7779 standard)
	Acoustic p wer	Operation 6.9 Bels or less
		(Plain paper, line drawing, standard mode)
		(Measured on ISO7779 standard)
Detector and	Registration adju tment	Automatic, Manua
Adjustment	Banding adjustment	Automatic, Manua
	Line length adjustment	Manual
	Head slant adjustment	Automatic, Manua
	Color calibratio	No
	Head gap adjustment	Automatic, Manual (8 l vels)
	Non-firing d tectio	Auto
	Non-firing ompensation	Auto
	Roll media remaining detection functi	Barcode print, Auto

ltem			Specifi atio	
Line Accuracy			±0.1 % o User adju Printing those use CAD pap	r less ustments necessary. e vironment and media must match ed for the adjustments. er required: Plain paper, CAD tracing paper, coated paper. CAD
				translucent ma e film onl
Memory	Standard memory		128 GB (Physical memory 2GB)
	Expansion slot		No	
Firmware	Languages	Printer language	SGRaster	r (Swift G aphic Raster)
			HP-GL/2	
			HP RTL	
			PDF	Supported Version 1.7 - Not supported: Over print function, Transparent function, and some othe s - Not supported: The file has been s t with password - Recommended: Embedded font. Use the build-in font if there is not it - List of the built-in fonts Times-Roman, Helveti a, Courier, Symbol, Times-Bold, Helveti a-Bold, Courier-Bold, ZapfDingbats, Times- Italic, Helveti a-Oblique, Courier- Oblique, Times-Bold Italic, Helveti a- Bold Oblique, Courier-Bold Oblique Supported Version JFIF1.02 - Compression: Basic DCT (Discrete cosine transform) - Color Mode: RGB, GrayScale - Color bit: 24bit, 8bit - Pixel: 19,200 pixel or less both verti ally and horizontally *Not supported: Full function of
			_	sampling
		Job control	IVEC	
		Status reply	SNMP-M CPCA	IIB (Standard MIB, Canon-MIB), IVEC,
	-	Direct Print		, HP RTL, PDF, JPEG
	Type		Flash KUM	
	Opdate		Undated from USB (Utility use	
			Ethernet port (Without Utility use	
Operation anel	Display		ICD (3.0 inch (7.62cm) TET color)	
	Language on oper	ation pane	21 Langu Japanese Spanish, Russian, Korean,	ages Selectable: e, English, French, German, Italian, Brazilian Portuguese, Dutch, Polish, Simplified Chinese, raditional Chinese, Thai, Indonesian, Turkish, Czech, Danish,
Hard Disk				Encrynted)
Hard DISK			1200 GB (Encrypted)

	ltem		Specifi atio
Interface	USB B Port	Туре	Built in (Hi-Speed USB)
		Mode	Full Speed (12 Mbit/sec),
			High Speed (480 Mbit/sec), Bulk transfer
		Connector type	Series B (4 pins)
	USB A Port	·	USB Memory (Direct Print)
	Gigabit Ethernet	Туре	Built in
		Standard	IEEE 802.3 10base-T
			IEEE 802.3u 100base-TX/Auto-Negoti tio
			IEEE 802.3ab 1000base-T/Auto-Negoti tio
			IEEE 802.3x Full Duplex
		Protocol	SNMP (Canon-MIB), HTTP, TCP/IP (IPv4, IPv6), ft
	Wireless LAN	Standard	IEEE802.11n, IEEE802.11g, IEEE802.11b
		Security	WEP (64bit, 128bit)
			WPA-PSK (TKIP, AES)
			WPA2-PSK (TKIP, AES)
Expansion Slot			No

Print Head

	Item	Specifi atio
Print Head	Model	PF-06
	Туре	Bubble-jet on demand
	Head configu atio	6 Color integrated Type × 1 print head
	Nozzle pitch	1200dpi (2lines)
	Nozzle per chip	15,360 nozzles
		(MBK 5,120 nozzles, OtherColors 2,560 nozzles
		each)
	Droplet size	Minimum 5pl per color
	Head replacement	User replacement

Ink Tank

	Item	Specifi atio
Ink Tank	Model	PFI-110 (160 ml), PFI-310 (330 ml),
		PFI-710 (700 ml)
: printer's ink supply	Supply	Tubing system (with sub-tank)
spec	Sub inktank Capacity*	Each color 30 ml
	Colors	Pigment 5 Color (MBK, BK, C, M, Y)
	Capacity	Sales use: 160 ml, 330 ml, 700 ml
		Starter use: 330 ml (MBK), 160 ml (BK, C, M, Y)
	Level detection	Detected by dot count and electrode (Empty)
	Smart chip	Each ink tank is equipped with EEPROM which
		stores its ink level

Cutter

	Item	Specifi atio
Cu er	Model	CT-07
	Туре	Automatic hori ontal cutting otary cu er):
		standard
	Cu er durability (cuts)	25,000 cuts
		5,000 cuts for canvas and cloth media
		2,000 cuts for adhesive media
	Replacement	User replacement

Chapter 8

Media Handling

	Item	Specifi atio
Media Feed and Output	Roll paper	One Roll, Front-loading, Front Output
	Added Roll Paper	One Roll, Front-loading, Front Output
	Cut sheet	Front-loading, Front Output (Manual feed using
		media locking lever)
	Paper path switch (roll/cut sheet)	Manually switchable by user
		Upper Roll/Lower Roll Automati ally switchable*
		*Excludes at the end of roll
		*Excludes medias which are not available for
		Automatic paper loading
	Delivery directio	Face-up, Front side
	Media Take-up Unit	Dual directions olling take-up
	Maximum stacking number of delivered	 Multiposition Ba et
	prints	Standard nasition, 1 sha t
		Standard position: 1 she t
		Flat position: A2 lands ape, glossy paper 10
		sheets or less, coaled paper 20
		sheets or less, plain paper 20
		Sheets or less
		(Excludes strong curied condition
		*Operability confirmed media as ollows.
		Glossy paper:
		Luster Photo Paper
		Glossy Photo Paper 170gsm
		Satin Pho o Paper 170gsm
		Glossy Photo Paper HG 170
		Semi-Glossy PhotoPaper HG 170
		Glossy Photo Paper 200gsm
		Satin Pho o Paper 200gsm
		Glossy Photo Paper 240gsm
		Satin Pho o Paper 240gsm
		Glossy Photo Paper HG 25
		Semi-Glossy Photo Paper HG 255
		Premium RC Photo Luster, 10mil
		Premium Glossy Paper 2 280
		Premium Semi-Glossy Paper 2 280
		Coated paper:
		Heavyweight Coated Paper HG 145gsm
L		

Media Feed and Output Maximum stacking number of delivered prints *stacker basket Position: 1 she t Under the condition bel w: 10 si • Environment: n /n (23*C, 50%) • Image: CAD (co age) • Media is Plain Paper (Premium P standard Plain Paper 2) • Media is Rain Paper (Premium P standard Plain Paper 2) • Media Size (width x length): AO A1 594 x 841mm *Except when media is curled stacking Positio stacking Positio stacking positio stacking positio stacking positio stacking positio • Environment: n /n (23*C, 50%) • Image: CAD (co age) • Position 1: Folding positio 1: Folding positio Media: Plain Paper (Pren *Except when media is curled • Environment: n /n (23*C, 50%) • Image: CAD (co age) • Position 1: Folding positio Media: Plain Paper (Pren Media: Plain Paper (Pren Paper, standard Plain Paper (Pren ARCh E 914 x 1219n A 841x 1189nm ARCh D 610 x 914m A1 594:x841mm 1: Folding positio Media size (width × leng ARCh E 914 x 1219n ARCh E 914 x 1219n ARCh E 914 x 1219n ARCh D 610 x 914m A1 594:x841mm 1: Folding positio		Item		specifi atio
prints basket Position: 1 she t Under the condition bel w: 10 si Environment: n/n (23°C, 50%) image: CAD (co age) Media: Pian Paper (Premium P standard Plain Paper 2) Media size (width × length): AO A 1 594 × 84 Imm *Except when media is curled stacking sheets: 20 sheets under of 1 below 100 sheets unde of 1 and 2' below 100 Media: Plain Paper Paper, standard Plain Paper Pape	Vedia Feed and Output	Maximum stacking n	umber of delivered	•stacker
Under the condition bel w: 10 si Environment: n/n (23°C, 50%) Media: Plain Paper (Premium P standard Plain Paper 2) Media size (width × length): AO A1 594 × 841mm *Except when media is curled stacking Positio stacking sheets: 20 sheets under of 1 below 100 sheets unde of 1 and 2' below 100 sheets unde 100 sheets unde of 1 and 2' below 100 sheets unde of 1 and 2' below 100 sheets unde 11 Folding positio Media is uncoated Paper Rediabel75) 10 Media size (width × leng ARCh E 914 × 610m 12 stacking positio Media size (width × leng ARCh D 914 × 610m 12 sheets 20 sheets unde 12 sheets 20 sheets unde 13 sheets 20 sheets unde 14 sheets 20 sheets unde 14 sheets 20 sheets unde 14 sheets 20 sheets unde 14 sheets 20 sheets unde 15		prints		basket Position: 1 she t
 Environment: n/n (23°C, 50%) Image: CAD (co age) Media: Plain Paper (Premium P standard Plain Paper 2) Media size (width × length): AO A1 594 × 841mm *Except when media is curled stacking sheets: 20 sheets under of 1 below 100 sheets unde of 1 and 2' below it and 2' below it and 2' below *Except when media is curled Environment: n/n (23°C, 50%) Image: CAD (co age) Position 1: Folding positio Media: Plain Paper (Prer Paper, standard Plain Paj Media size (width × leng ARCh E 914 × 1219r A0 841 × 1189mm ARCh E 914 × 1219r A0 841 × 1189mm ARCh E 914 × 1219r A0 841 × 1189mm ARCh E 914 × 1219r A0 841 × 1189mm ARCh E 914 × 1219r A0 841 × 1189mm ARCh E 914 × 1219r A0 841 × 1189mm ARCh E 914 × 41mm Stacking positio Media:Uncoated Paper (Rediabel75), Netain Paper ARCh D 914 × 610m A1 544 × 610m 	· · · · · · · · · · · · · · · · · · ·	F		Under the condition bel w: 10 sheets
 Image: CAD (co. age) Media: Plain Paper (Premium P standard Plain Paper 2) Media size (width × length): AO A1 594 × 841mm *Except when media is curled stacking sheets: 20 sheets under of 1 below 100 sheets under of 1 and 2' belor *Except when media is curled environment: n/n (23°C, 50%) Image: CAD (co. age) Position 1: Folding positio Media: Plain Paper (Prer Paper, standard Plain Paper Paper, standard Plain Paper Padatard Plain Paper RACh E 914 × 1219r ARCh E 914 × 1219r ARCh D 610 × 914m 1: Folding positio Media: uncoated Paper Redlabel75) Media: size (width × leng ARCh D 610 × 914m A1 594 × 841mm 2: stacking positio Media: Uncoated Paper Redlabel75) Media: Stack 481mm ARCh D 610 × 914m A1 594 × 841mm A1 594 × 610m ARCh D 914 × 1219r A0 841 × 1189mm ARCh D 610 × 914m A1 594 × 841mm A1 594 × 610m A1 844 × 610m <				• Environment: n/n (23°C. 50%)
 Media: Plain Paper (Premium P standard Plain Paper 2) Media size (width × length): AO A1 594 × 841mm *Except when media is curled stacking sheets: 20 sheets under of 1 below 100 sheets unde of 1 and 2' belo *Except when media is curled Environment: n /n (23°C, 50%) Image: CAD (co age) Position 1: Folding positio Media: Plain Paper (Prer Paper, standard Plain Pa Media size (width × leng ARCh E 914 × 1219n A0 841 × 1189mm ARCh D 610 × 914m A1 594 × 841mm 2: stacking positio Media: Uncoated Paper Redlabel75) Media size (width × leng ARCh E 914 × 1219n A0 841 × 1189mm ARCh D 610 × 914m A1 594 × 841mm 				· Image: CAD (co_ age)
standard Plain Paper 2) · Media size (width × length): A0 A1 594 × 841mm *Except when media is curled stacking positio stacking sheets: 20 sheets under of 1 below 100 sheets under of 1 and 2' belov *Except when media is curled · Environment: n/n (23°C, 50%) · Image: CAD (co age) · Position 1: Folding positio Media: Plain Paper (Pren Paper, standard Plain Paper (Pren Paper, standard Plain Paper (Pren Paper, standard Plain Paper (Pren A0 841 × 1189mm ARCh E 914 × 1219r A0 841 × 1189mm ARCh D 610 × 914m 11: Folding positio Media: Uncoated Paper Redlabel75) Media size (width × leng ARCh E 914 × 1219r A0 841 × 1189mm ARCh D 610 × 914m A1 594 × 841mm 2': stacking positio Media: Uncoated Paper (Redlabel75) Plain Paper Paper, standard Plain Pa A1594 × 841mm A1 594 × 841mm 2': stacking positio Media: Uncoated Paper (Redlabel75) Plain Paper Paper, standard Plain Paper Paper Paper, standard Plain Paper Paper Paper Paper Paper Paper Paper Paper Paper Paper Paper Paper Paper				· Media: Plain Paper (Premium Plain Paper.
 Media size (width × length): A0 A1 594 × 841mm *Except when media is curled stacking sheets: 20 sheets under of 1 below 100 sheets unde of 1' and 2' belov *Except when media is curled Environment: n/n (23°C, 50%) Image: CAD (co age) Position 1: Folding positio Media size (width × length ARCh E 914 × 1219n A0 841 × 1189mm ARCh D 610 × 914m T: Folding positio Media size (width × length ARCh E 914 × 1219n A0 841 × 1189mm ARCh D 610 × 914m T: Folding positio Media size (width × length ARCh E 914 × 1219n A0 841 × 1189mm ARCh D 610 × 914m 2': stacking positio Media size (width × length ARCh D 914 × 841mm 2': stacking positio Media size (width × length ARCh D 914 × 640m 				standard Plain Paper 2)
A1 594 × 841mm *Except when media is curled stacking Positio stacking sheets: 20 sheets under of 1 below 100 sheets under of 1' and 2' belov *Except when media is curled Environment: n/n (23°C, 50%) image: CAD (co age) Position 1: Folding positio Media: Plain Paper (Prer Paper, standard Plain Pa Media size (width × leng ARCh E 914 × 1219r A0 841 × 1189mm 11: Folding positio Media: Uncoated Paper Redlabel75) Media size (width × leng ARCh E 914 × 1219r A0 841 × 1189mm 11: Folding positio Media size (width × leng ARCh E 914 × 1219r A0 841 × 1189mm ARCh D 610 × 914m A1 594 × 841mm 2: stacking positio Media:Uncoated Paper Redlabel75), Plain Paper Paper, standard Plain Pa Media size (width × leng ARCh D 914 × 610m Media size (width × leng ARCh D 914 × 610m Media Size (width × leng ARCh D 914 × 610m Media Size (width × leng ARCh D 914 × 610m				\cdot Media size (width x length): A0 841 x 1189n
 *Except when media is curled stacking Positio stacking sheets: 20 sheets under of 1 below 100 sheets unde of 1' and 2' below *Except when media is curled Environment: n/n (23°C, 50%) Image: CAD (co age) Position 1: Folding positio Media: Plain Paper (Prer Paper, standard Plain Pa Media size (width × leng ARCh E 914 × 1219r A0 841 × 1189mm ARCh D 610 × 914m 1': Folding positio Media size (width × leng ARCh E 914 × 1219r A0 841 × 1189mm AT 594×841mm 1': Folding positio Media size (width × leng ARCh E 914 × 1219r A0 841 × 1189mm ARCh D 610 × 914m A1 594 × 841nm 2': stacking positio Media:Lincoated Paper Paper, standard Plain Paper Paper, standard Plain Paper Paper, standard Plain Paper Paper, standard Plain Paper Media size (width × leng ARCh D 914 × 610m Media size (width × leng ARCh D 914 × 610m Media size (width × leng ARCh D 914 × 610m Media size (width × leng ARCh D 914 × 610m 				A1 594 × 841mm
stacking Positio stacking sheets: 20 sheets under of 1 below 100 sheets unde of 1' and 2' belov *Except when media is curled : Environment: n/n (23°C, 50%) : Image: CAD (co age) : Position 1: Folding positio Media: Plain Paper (Prer Paper, standard Plain Pa Media size (width × leng ARCh E 914 × 12197 A0 841 × 1189mm ARCh D 610 × 914m A1 594×841mm 1': Folding positio Media: Uncoated Paper Redlabel75), Media size (width × leng ARCh D 610 × 914m A1 594 × 841mm 2': stacking positio Media size (width × leng ARCh D 610 × 914m A1 594 × 841mm 2': stacking positio Media size (width × leng ARCh D 610 × 914m A1 594 × 841mm 2': stacking positio Media size (width × leng ARCh D 610 × 914m A1 594 × 841mm 2': stacking positio Media size (width × leng ARCh D 914 × 610m A1 841 × 594mm				*Except when media is curled
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Media size (width × leng ARCh D 914 × 610m A1 841 × 594mm				Reulabel/5), Plain Paper (Premium)
ARCh D 914 × 610m A1 841 × 594mm				Modia size (width x length):
Arch D 914 × 010m A1 841 × 594mm				$ABCh D 014 \times 610mm (26" \times 24)$
				ARCII D 914 × 01011111 (50 × 24
				AI 641×59411111
Δ2 594 x 420mm				$\Delta 2 594 \times 420 \text{ mm}$
Media size Roll paper (Width) ISO A3. A3+. A2. A1. A0	 ∕Iedia size	Roll paper (Width)	lsO	A3, A3+, A2, A1, A0
JIs b4, b3, b2, b1, b0			JIs	b4, b3, b2, b1, b0
ARCh 24", 30", 36"			ARCh	24", 30", 36"
Others 8". 10". 12". 14". 16". 17". 20". 42			Others	8", 10", 12", 14", 16", 17", 20", 42", 44".
300mm, 500mm, 600mm, 800mm				300mm, 500mm, 600mm, 800mm, 1000mm

ltem		Specifi atio	
Media Size	Cut sheet	ISO	A4, A3, A3+, A2, A2+, A1, A0
			B4, B3, B2, B1, B0
		DIN	C4, C3, C2, C1, C0
		JIS	B4, B3, B2, B1, B0
		ANSI	8.5 × 11", 8.5 × 14", 11 × 17", 13 × 19", 17 × 22",
			22 × 34", 28 × 40, 34 × 44"
		ARCH	9 × 12", 12 × 18", 18 × 24", 24 × 36", 26 × 38", 27
			× 39", 30 × 42", 36 × 48"
		Photo	(20 × 24"), (18 × 22"), (14 × 17"), (12 × 16"),
			(10 × 12"), (10 × 15"), (8 × 10"), (16 × 20")
		Poster	20 × 30", 30 × 40", 42 × 60", 44 × 62",
			300 × 900 mm
		Others	13×22"
Media Thickness	Roll paper		-0.07 to 0.8 mm
	Cut sheet		
Maximum Outside Diameter of Roll Paper			170 mm or less
Media Core Size		Internal diameter of roll core: 2", 3"	
Media Width	Roll paper		203.2 to 1118 mm
Cut sheet			203.2 to 1118 mm
Minimum Printable Paper Length			203.2 mm
Maximum Printable	Roll paper		18 m (Varies according to the OS and application
Paper Length	Cut sheet		1.6 m
Margins	Reco mmended area	Roll paper	Top: 20 mm, Bo om: 3 mm, Side: 3 mm
		Cut sheet	Top: 20 mm, Bo om: 20 mm, Side: 3 mm
	Printable area	Roll paper	Top: 3 mm, Bo om: 3 mm, Side: 3 mm
		Roll paper	Top: 0 mm, Bo om: 0 mm, Side: 0 mm
		(Borderless print)	
		Cut sheet	Top: 3 mm, Bo om: 20 mm, Side: 3 mm
Borderless Printing	Media Width		[Recommended] 515 mm (JIS B2), 728 mm (JIS
			B1), 1030 mm (JIS B0), 594 mm (ISO A1),
			841 mm (ISO A0), 10", 14", 17", 24", 36", 42", 44"
			[Printable] 257 mm (JIS B4), 297mm (ISO A3),
			329 mm (ISO A3+), 420 mm (ISO A2), 8", 12", 16",
			20", 30", 300mm, 500mm, 600mm, 800mm,
			1000mm

1-4. Special Notes

Notes on Servicing

Service mode login

- When the printer is started up in the service mode, printing other than i ternal printing (n zzle check pa ern, adjustment pa erns, etc.) cannot be performed.
- The operations of the functions in the user mode when the pr ter is started up in the service mode are out of operation gua antee. To use the functions of the user mode, be su e to start the printer up in the user mode.

When starting the printer up/turning it off

Do not disconnect the power cord while starting the priter up and turning it o . (It takes approx. 2 minutes and approx. 40 seconds respectiely to start the printer up and to turn it o).

When executing PCB replacement mode

Some data is not restored even the PCB replacement mode is executed a er the main PCB is replaced. For details, see <u>7-3. PCB Replacement Mode</u>.

When using the printer at high altitude

If the printer is used at a high altitude (app ox. 2,000 meters or higher), streaks or faint printing m y occur periodically (every two or three months).

In such cases, occurrence of the phenomenon can be reduced or prevented by System Cleaning at a shorter interval.

However, System Cleaning consumes a larger amount of ink than regular Cleaning, and System Cleaning at a shorter interval will consume more ink than at regular interval in total. Consider them when changing the frequency of System Cleaning.

How to reset the printer's media information to default

The method of resetting the media formation in the priter to default is to restore the default media information fi^{*1} (backup file) y using the application so are, Media Configuation ool. ^{*1}: For details on the default media information file (baup file), efer to the Service Information QDR-

12E-7029." (The revised version adding TX series will be issued at a later date).

For reference:

Examples when the printer's media information needs o be reset to default:

- When a user asks how to recover his/her printer's default media information including cu tomized media informatio
- $\cdot~$ To reset the media information of the leased pri~ters
- · To refurbish printers

Chapter 2

Chapter 7

Notes on Lithium Battery (for Germany)

When replacing or discarding the lithium battery

A lithium ba ery is installed in the printer. Be cautious of the ollowing:

At repair:

Risk of explosion if ba ery is replaced by an incorrect type.

Explosionsrisiko, falls Ba erie nicht mit vorgeschriebenem Baterrietypus ersetzt wird.

At disposal:

Dispose of used ba eries according to the local regulations

Ba erieentsorgung gemaess lokalen Vorschri en.

When the Service Manual issued by CINC is localized, be sure to include the above cautions (t repair and disposal) in German.

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CHAPTER 2

MECHANISM

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2-1. Main Unit Configuration

2-1-1. Main Unit Configuration

Paper feed mechanism

It is the mechanism of loading, feeding and ejecting the oll paper or cut sheet (manual feed). The feature of this printer is as follows.

• Paper feed:

The paper is fed from the Roll Unit (the Upper Roll Unit and the Lower Roll Unit*) in feeding. To feed the paper is switched automati ally by utilizing the aper Entry Sensor in the Paper Feed Roller part, the Roll Paper Entry Sensor in the upper/Lower Roll Unit, and the acti e roll brake unit. In addition, o improve accuracy in feeding the roll paper, the torque in the Acti e Roll Brake Unit is controlled.

*: The Lower Roll Unit is the option

· Paper ejection:

In addition o ejecting paper o the output stacker, take-up paper ejection o the Lower Roll Unit is newly adopted. In the take-up paper ejection, the out and and inward take-up paper ejections a e available. By utilizing the Ac e Roll Unit, the weight is no longer needed.

• Active roll brake unit Function of the ac e roll brake unit is as follows.

- To improve roll paper feed accuracy:

Torque change caused by such as the roll paper diameter, the weight, and the slack (caused by the back tension change) is controlled, and accuracy in feeding the paper is improved in printing

- To feed roll paper:

Point

When the roll paper is installed, feeding the roll paper and switching the Upper and Lower Roll Paper is automati ally performed.

To take-up roll paper:

By monitoring the torque change and rolling up the paper in an appropriate timin , the weight is no longer needed.



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Ink Supply Mechanism

Ink inside the Ink Tank is supplied to the Print Head through the ink supply tube. Ink is supplied to the Print Head by utilizing the ater-head-di erence, or by the negati e pressure generated from the Pump Roller Drive. When ink amount inside the Ink Tank is sufficient, you can replace the old ink tank with new one without interrupting the printing. In the current models, the initial ink filling check is xecuted only for the no-ejection ditection units er ink is filled; however, in this printer, two kinds of the remaining ink detection pins (ditecting in -full and no-ink in the Sub Ink Tank) are adopted to this printer. Therefore a mechanism problem at the initial ink filling an be detected in early stage without wasting ink

Purge Unit

To maintain the high quality print, maintenance of the Print Head (cleaning, Capping, wiping) is performed. The Purge Motor (to drive the purge main cam and pump roller) and wiper blade motor (to drive the Wiper Blade) are installed.

Carriage Unit

It fi es the Print Head and ink supply tube, and moves left o right. To reduce uneven printin , an acceleration sensor is n wly adopted to this printer. In addition, the vib ation i formation f om the acceleration sensor is util ed to strengthen the function which identifies each e or (the paper jam error, the overload error and the encoder error).

Print Head Management Sensor Unit

The nozzle check to detect the non-ejection n zzle in the Print Head is adopted. The information of the d tected non-ejection n zzle is utili ed for non-ejection omplementary and for recovery.

Print Head:

It receives the print signal from the main PCB, and ink from the ink supply unit is ejected.

Maintenance cartridge:

It collects ink ejected from purging and pre-printing ejection in the P ge Unit.

If the amount of collected ink recorded to the memory in the maintenance cartridge is exceeded than specified amou t, an error occurs and operation is topped.



2-2. Operation Principle

2-2-1. Paper Feed Mechanism

1. Configuration

In the paper feed mechanism, it consists of the Upper Roll Paper Feed Part, the Lower Roll Paper Feed Part (option), the eed roller part, and the paper ejection part. In addition, the sens s to detect the each performance and paper condition a e installed.

Power of the paper feed mechanism:



Units to be driven	Power supply source
Acti e Roll Brake Unit	Acti e Roll Brake Motor
Nip Arm Unit	Roll Nip Motor
Paper Feed Roller Unit	Paper Feed Motor
Cuer Blade Unit	Cu er Motor

Sensor

In the paper feed mechanism, two kinds of sensors, which detect the mechanism movement and position of the feeding paper, are installed to this printer.

Sensors to detect the mechanism movement:



Paper Wind Direction Sensor

Name of sensor	Detectio		
Paper Feed Encoder Sensor	Detects the rotation amou t of the Paper Feed Roller.		
Paper Feed Home Position Senso	Detects the home position of the aper Feed Roller.		
Upper Roll Nip Sensor	Detects the roll nip arm status of the Upper Roll Unit.		
Lower Roll Nip Sensor	Detects the roll nip arm status of the Lower Roll Unit.		
Cu er Home Position Senso	Detects the position of the Cu er Unit.		
Upper Roll Cover Sensor	Detects the cover opening and closing in the Upper Roll Unit.		
Flapper Position Senso	Detects status of the separation flapper in the wer Roll Unit.		
Paper Wind Direction Sonso	Detects that either the inward winding or the outward winding was		
Paper wind Direction Senso	selected in the Lower Roll Unit.		
Upper Paper Set Sensor	Detects leading edge of the Upper Roll Paper.		
Lower Paper Set Sensor	Detects leading edge of the Lower Roll Paper		



Lower Paper Entry Sensor

Name of sensor	Detectio
Multi Senso	It is installed in the Carriage Unit, and detects the paper edge and paper width
	in the Carriage Unit.
Paper Entry Sensor	Detects the paper presence near the Paper Feed Roller.
Upper Paper Entry Sensor	Detects the paper presence in the Upper Roll Paper Feed Part.
Lower Paper Entry Sensor	Detects the paper presence in the Lower Roll Paper Feed Part.
I Innar Pight Speel Sansar	Detects the Spool Unit presence in the right side of the Upper Roll Paper Feed
opper Right spool sensor	Part.
Linnar Laft Speed Sansa	Detects the Spool Unit presence in the left side of the Upper oll Paper Feed
opper Left spool sellso	Part.
Lower Pight Speel Sensor	Detects the Spool Unit presence in the right side of the Lower Roll Paper Feed
Lower Right Spool Sensor	Part.
Lower Loft Speed Sense	Detects the Spool Unit presence in the left side of the L wer Roll Paper Feed
Lower Left Spool Sellso	Part.

Lower Right Spool Set Sensor

Chapter 2

Chapter 3

2. Paper feed mechanism

Paper feed

In this printer, there are three ways to feed the paper as follows.

- 1) Feeds from the Upper Roll Unit.
- 2) Feeds from the Lower Roll Unit. (The Lower Roll Unit is the option.
- 3) Feeds the cut sheet manually.

Note:

If the paper type, the size, and the rest are the same in the upper and Lower Roll Paper, then the Upper Roll Paper will be fed fi st.





Paper separation and paper feed:

When the roll paper is rotated by the Acti e Roll Brake Motor, leading edge of the roll paper is separated by the separation flapper (the paper t sensor detects separation of the oll paper). To feed the roll paper, the Spool Unit is rotated while the paper is nipped by the Nip Roller. A friction orce generated by the Nip Roller pressure on the roll paper is used to feed the paper.

Paper feeding:

In feeding the roll paper, paper width and paper skew are detected by the multi senso . In case that the paper skew or paper width needs to be corrected, the paper is repeatedly fed forward and backward by the Acti e Roll Brake Unit, then slack and skew on the roll paper is corrected. In feeding paper and printin , air suction is per ormed by the Platen Unit to prevent paper flo ting. In addition, o reduce uneven printing in feeding direction, the ollowing is performed for control and correction

Torque control in feeding paper:

An inertial orce acts on the roll paper in feeding. The inertial orce acts to the resistance direction of the feeding, or acts to the slack direction. This orce is changed by the amount of paper remaining. It is detected by the Acti e Roll Brake Unit, and the feed length is constant by having the torque controlled.



Paper feed correction (eccentric correction):

The individual di erence in size or distortion of the aper Feed Roller will make a di erence in the paper feed amount although the amount of rotation is the same. The efore, to have the paper feed amount constant, the amount of Paper Feed Roller rotation is ontrolled.



Chapter 2

Chapter 3

Chapter 4

Chapter 5

Chapter 6

Switching the upper and Lower Roll Paper feed:

In case that the roll paper is specified o feed from another roll paper feed unit while the one roll paper has been already set onto the platen, the spool and Paper Feed Roller will be rotated in reverse direction, then the roll paper which was set fi st is rewound to the standby position. The oll paper which was set and specified I ter will be fed fi st.



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Paper cut:

If "automatic cu" is selected as the cut mode, the roll paper is automati ally cut a er printed. In addition, the p e-cut is performed in advance in the following cases.

- $\cdot\;$ When the leading edge of the roll paper is not straight in feeding.
- $\cdot\;$ When the borderless printin $\;$, the leading and tailing edge of the roll paper is cut.

To cut the paper straight, the amount of minimum cut is given for each paper type. (For more details, see the user manual)



Cut sheet feeding:

The cut sheet is usable by feeding it manually.

Flow of feeding the cut sheet is as follows:

- 1. Lift the elease lever up to release the Paper Feed Roller and Pinch Roller.
- 2. Insert the cut sheet manually between the Paper Feed Roller and Pinch Roller.
- 3. Lower the release lever to nip the paper with the Paper Feed Roller and Pinch Roller.
- 4. The Paper Feed Roller is rotated in normal direction, and the paper ail edge is detected by the Paper Entry Sensor.
- 5. A er the detection, the aper Feed Roller is rotated in reverse direction, and the she t is fed into the printer.
- 6. The sheet edge (the side of edge when printing) is d tected by the multi senso .
- 7. The printer becomes the standby mode.

Note: When the cut sheet is fed manually, the paper skew is not corrected.



3. Take-up paper ejection

In this printer, there are three ways to eject the paper as follows.

- · Normal ejection. (Ejects o the output stacker.)
- · Outward take-up by the Lower Roll Unit.
- · Inward take-up by the Lower Roll Unit.

Note:

The take-up paper ejection an be performed only when the Lower Roll Unit is installed and is set as the take-up mode.



Taking-up inward & outward

In addition o the outward take-up in the current models, the inward take-up is newly adopted to this printer. In the inward take-up, the printed side comes inside. Scratches and smears on the printing ace can be prevented by winding the paper toward inward when storing, transportin , and cuttin

Taking-up

The current size of the roll core and the torque is identified and the orque is controlled, then, the tension in taking up is optimi ed automati ally. The weight which is used in the current large size printer is no longer needed.



Tension is optimi ed by the Acti e Roll Brake Unit

Taking-up the paper end

The nip pressure is controlled, and the paper end is rolled up automati ally. (For more details, see the movie.)



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2-2-2. Purge Unit

1. Configuration

The Purge Unit consists of the Purge Base Unit, the Purge Drive Unit, and the Wet Tank Unit. The Purge Base Unit consists of the Cap unit, the Plade Unit, and the Pump Unit.



2. Function of Purge Unit

The function of the Pu ge Unit is to perform maintenance against the Print Head nozzle (for ejecting ink) and to prevent the non-ink ejection. o be more precise, the following three maintenances are performed.

Capping:

If the nozzles are exposed to the air, moisture of ink will get dried and ink becomes hard. To prevent this, the Print Head should be always Capped except when printing is per ormed.

Cleaning:

By vacuuming ink from the nozzles, the ink fl w path in the Print Head will be filled with a n w ink, and dusts and bubbles are eliminated from the ink fl w path.

Wiping:

The rubber wiper wipes the Print Head surface, removing dust and ink droplet.

In the pigment-based ink model, to improve wiping, the Wiper Blade is moistened with the wet liquid (glycerin).

For details of purpose and operation or each maintenance, see "<u>4. Capping</u>", "<u>5. Cleaning</u>" and "<u>6. Wiping</u>."

3. Drive power transmission & Problem detection

Transmission of the drive power to the Purge Unit:

The drive for the Purge Unit is supplied from the Purge Motor and Wiper Motor.

The direction of the mo or rotation and per ormance is as follows.



Drive Motor	Rotation Di ectio	Destin tion of ower Transmission	Performance	
Purge Motor	Normal directio	Purge Main Cam	The Cap is moved up and down. The Air Valve is opened and closed. The carriage is locked and unlocked.	
	Reverse directio	Pump Unit	Purging is performed.	
Minor Dlada Mator	Normal directio	Blade Lead Screw	The Print Head surface is wiped o .	
wiper Blade Wotor	Reverse directio	Blade Lead Screw	The Wiper blade is returned.	

Detection of problem:

Abnormal movement in the Purge Unit is detected by the Purge Main Cam Sensor, the Pump Roller Sensor, the Wiper Position Senso, the Purge Encoder Sensor, and the Blade Encoder Sensor. The function of each sensor is as ollows.



Name of Sensor	Functio
Purge Main Cam Sensor	By detecting otation of the pu ge main cam, detects the abnormal movement of
	the valve in opening and closing while Capping and cleaning.
Pump Roller Sensor	By detecting otation of the pump unit, d tects the abnormal cleaning behavior.
Winor Position Sonso	By detecting m vement of wiping direction or the Wiper Blade, detects the
wiper Position Senso	abnormal wiping behavior.
Durgo Encodor Soncor	By reading the disk film slit, d tects the movement amount and speed of the
Purge Elicouel Selisol	Purge Motor.
Winer Plade Encoder Sensor	By reading the disk film slit, d tects the movement amount and speed of the
Wiper Blade Encodel Selisor	Wiper Blade motor.

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4. Capping

Purpose of Capping:

To prevent clogging caused by the dried ejection slot and o prevent the print failure caused by dusts on the Print Head, the Cap in the Purge Unit and Print Head surface are a ached each other tig tly.

Capping procedures:

Capping is performed in the following procedures:

- 1) The drive from the Purge Motor is transmi ed to the main cam and it is rotated. ("No. 1" in the diagram below)
- 2) The Main Cam pushes up the Cap base. ("No. 2" in the diagram below)
- 3) The Cap moves up to fit o the Print Head surface. ("No. 3" in the diagram below)



5. Cleaning

Purpose of Cleaning:

By sucking out ink from the nozzles, the ink fl w passage in the Print Head is filled with n w ink, and eliminates the dusts and bubbles from the passage.

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Cleaning procedures:

- 1) The Cap is a ached to the Print Head surface tig tly a er Capping.
- 2) The Air Valve is closed.
- 3) The Pump Unit is rotated in normal direction, and the ne ati e pressure is generated inside the Ink Tube.
- 4) The Pump Unit is rotated in reverse direction, and the ne ati e pressure inside the Ink Tube is released.



Other mechanism

To maintain good performance in the ink ejection, the p e-print ink ejection and the air i take are adopted besides the cleaning.

Pre-printing ink ejection:

It is a function the ejects ink to the Cap in the Purge Unit before printing or ejects ink of the Platen Absorber and Cap while printing. y performing the pre-print ink ejection, ink d oplets and dusts adhering on surface of the Print Head can be removed.

Air suction:

It is a function the sucks ink ejected from purging and ink accumulated on the Cap from pre-ink ejection. If the amouet of the ejected ink gets exceeded than specified amouet, the air suction is performed to prevent ink leakage.

Cleaning type

Domain (Indication in PRINT INF)	Cleaning Operatio	Descriptio
A-AB	Cleaning (All Cap)	Removes dried ink from nozzles, thick ink accumulated on the
A-A	Cleaning (Cap-A)	face, and paper particles
A-B	Cleaning (Cap-B)	
R-AB	Deep cleaning (All Cap)	Performs suction tronger than normal cleaning to unclog
R-A	Deep cleaning (Cap-A)	nozzles.
R-B	Deep cleaning (Cap-B)	
S-AB	System cleaning (All Cap)	Performs suction tronger than when adjusting the ink fillin
S-A	System cleaning (Cap-A)	amount in the Head or normal cleaning to unclog nozzles.
S-B	System cleaning (Cap-B)	
EX	Ink removal at the Head replacement	Drains ink to replace the Head (Drains only the ink in the Head).
Н	Ink filling t the Head replacement	Performs ink filling er replacing the Head
T1	Ink removal from all ink paths before printer transport outdoors	Fills the empty tube (during installation er secondary transport) with ink, and performs normal cleaning
T2	Move indoors to a di erent floor	
Т3	Move indoors on the same floo	
FI	Ink filling t the installation er printer	Fills the empty tube (during installation er secondary transport) with ink and performs normal cleaning
С	On arrival ink fillin	Fills the empty tube (during initial in tallation) with ink, and performs normal cleaning

Cleaning timing and the amount of ink consumed

24" model

Printer Status	Descriptio		Domain	Ink Consumption Amou t	
Initial In tallatio	At initial in tallatio	МВК	С	Approx. 180 g/one color*	
		С, М, Ү, ВК		Approx. 140 g/one color*	
Standby	70 days elapsed since last s	ystem cleaning or head	S-A	Approx. 6 g/one color	
	replacement.				
	15 days elapsed since the s	uction in initial i tallatio			
Power-on	Print Head is Capped. The same as "Standby."		S-A	Approx. 6 g/one color	
			S-B		
	Print Head is not Capped.	Up to 72 hours elapsed a er	A-AB	Approx. 1 g/one color	
		an abort			
		Over 72 hours elapsed a er	R-AB	Approx. 3 g/one color	
		an abort			
Before printin	The same as "Standby."		S-A	Approx. 6 g/one color	
			S-B		
A er printin	When one of chips (color) ejected approximately 200 ml		S-A	Approx. 6 g/one color	
	since last system cleaning or the Head replacement, a er				
	the suction t the initial in	tallation			
When the "Head	When "Cleaning" is selecte	d.	A-A	Approx. 1 g/one color	
Cleaning" is executed			A-B		
	When "Deep cleaning" is selected.		R-A	Approx. 3 g/one color	
			R-B		
	When "System cleaning" is selected.		S-A	Approx. 6 g/one color	
When the "Replace Print	A er head replacement		EX	Approx. 15 g/one color	
Head" is executed			+ H		
When the "Move	When "Transport outdoors" is selected.		T1	Approx. 850 g/all colors	
Printer" is executed	When "Move indoors to a di erent floo " is selected.		T2	Approx. 350 g/all colors	
	When "Move indoors on th	e same floo " is selected.	Т3	Approx. 350 g/all colors	
	At reinstallation	МВК	FI	Approx. 220 g/one color	
		С, М, Ү, ВК	1	Approx. 150 g/one color	

* Including the ink filled in the Ink ubes and Print Head.

36" model

Printer Status	Descriptio		Domain	Ink Consumption Amou t
Initial In tallatio	At initial in tallatio MBK		С	Approx. 180 g/one color*
		С,М,Ү,ВК		Approx. 140 g/one color*
Standby	70 days elapsed since last s replacement. 20 days elapsed since the si	ed since last system cleaning or head		Approx. 6 g/one color
Power-on	Print Head is Capped.	The same as "Standby."	S-A S-B	Approx. 6 g/one color
	Print Head is not Capped.	Up to 72 hours elapsed a er an abort	A-AB	Approx. 1 g/one color
		Over 72 hours elapsed a er an abort	R-AB	Approx. 3 g/one color
Before printin	The same as "Standby."		S-A S-B	Approx. 6 g/one color
A er printin	When one of chips (color) ejected approximately 200 ml since last system cleaning or the Head replacement, a er the suction t the initial in tallation		S-A S-B	Approx. 6 g/one color
When the "Head Cleaning" is executed	When "Cleaning" is selected	Vhen "Cleaning" is selected.		Approx. 1 g/one color
	When "Deep cleaning" is selected.		R-A R-B	Approx. 3 g/one color
	When "System cleaning" is selected.		S-A S-B	Approx. 6 g/one color
When the "Replace Print Head" is executed	A er head replacement	l replacement		Approx. 15 g/one color
When the "Move	When "Transport outdoors" is selected.		T1	Approx. 900 g/all colors
Printer" is executed When "Move indoors to a di erent floo" is selected.		T2	Approx. 350 g/all colors	
When "Move indoors on the same floo " is selected.		e same floo " is selected.	Т3	Approx. 350 g/all colors
	At reinstallation MBK		FI	Approx. 240 g/one color
		С, М, Ү, ВК]	Approx. 160 g/one color

* Including the ink filled in the Ink ubes and Print Head.

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44" model

Printer Status	us Descriptio		Domain	Ink Consumption Amou t
Initial In tallatio	At initial in tallatio	МВК	С	Approx. 180 g/one color*
		С, М, Ү, ВК		Approx. 140 g/one color*
Standby	70 days elapsed since last s	ystem cleaning or head	S-A	Approx. 6 g/one color
	replacement.			
	20 days elapsed since the s	uction in initial i tallatio		
Power-on	Print Head is Capped.	The same as "Standby."	S-A	Approx. 6 g/one color
			S-B	
	Print Head is not Capped.	Up to 72 hours elapsed a er	A-AB	Approx. 1 g/one color
		an abort		
		Over 72 hours elapsed a er	R-AB	Approx. 3 g/one color
		an abort		
Before printin	The same as "Standby."		S-A	Approx. 6 g/one color
			S-B	
A er printin	When one of chips (color) ejected approximately 200 ml			Approx. 6 g/one color
	since last system cleaning or the Head replacement, a er			
	the suction t the initial in	tallation		
When the "Head	When "Cleaning" is selecte	d.	A-A	Approx. 1 g/one color
Cleaning" is executed			A-B	
	When "Deep cleaning" is selected.			Approx. 3 g/one color
			R-B	
	When "System cleaning" is selected.			Approx. 6 g/one color
			S-B	
When the "Replace Print	A er head replacement		EX	Approx. 15 g/one color
Head" is executed			+ H	
When the "Move	When "Transport outdoors"	" is selected.	T1	Approx. 900 g/all colors
Printer" is executed	When "Move indoors to a c	di erent floo " is selected.	T2	Approx. 350 g/all colors
	When "Move indoors on th	e same floo " is selected.	Т3	Approx. 350 g/all colors
	At reinstallation	МВК	FI	Approx. 240 g/one color
		С, М, Ү, ВК		Approx. 160 g/one color

* Including the ink filled in the Ink ubes and Print Head.

6. Wiping

Purpose of Cleaning:

It is to wipe off ink d oplets and dusts adhering on the surface of the Print Head with the Wiper Blade to prevent the Print Head Nozzles from clogging.

Wiping procedures:

- 1) The Main Cam is rotated by the drive transmi ed from the Purge Motor (normal rotation) and then the Cap gets lower.
- 2) The Lead Screw is rotated by the drive transmi ed from the Wiper Blade motor (normal rotation)
- 3) The Wiper Blade is moved and wipes off the Pri t Head surface.
- 4) The Wiper wipes off the du ts and ink droplets adhering on the Wiper Blade with the wiper cleaner.
- 5) The wet liquid is a ached to the Wiper Blade.
- 6) The Blade Unit is returned by the drive transmi ed from the Wiper Blade Motor (reverse rotation)



Chapter 1

2-2-3. Ink Supply Unit

1. Configuration

In this ink supply unit, the Ink Tank holder unit, the Sub Ink Tank unit, and the Ink Supply Mount Unit are consisted.



2. Function of Ink Supply Unit

Ink supply

Ink inside the Ink Tank is supplied to the Print Head. For detail of ink supply, see <u>"3. Ink supply/Agitation > Ink suppl"</u>."

Agitation

The pigment-based ink may be settled out y leaving it for a long period. To resolve this problem, the agitation is per ormed.

For details of the agitation per ormance, see <u>"3. Ink supply/Agitation > Agi ation per ormance."</u>

Remaining ink management

To detect the remaining ink amount, the dot count and remaining ink detection pins a e installed to this printer.

For details of the remaining ink amount management, see <u>"4. Drive power transmission and problem</u> <u>detection > Remaining ink detection "</u>

3. Ink supply/Agitation

[Conceptual diagram of ink supply flow]



Ink Supply

- 1. Process of ink supply
 - 1) Ink supply from the Ink Tank to the Ink Supply Valve:

As the Ink Tank is installed, the Ink Tank is pierced by the two needles (for supplying ink and air) in the Sub Ink Tank. When the Ink Tank valve and sub ink tank valve are opened, ink in the Ink Tank is fl wed from the needle (ink supply hole) into the Ink Supply Valve via the Sub Ink Tank.

- 2) Ink supply from the Ink Supply Valve to the Print Head:Ink is filled i to the Print Head by Capping the Print Head, driving the Vacuum Pump and opening the Ink Supply Valve.
- 3) Ink supply while printing

The Ink Supply Valve is opened while printing. Ink is supplied f om the Ink Tank as ink in the Print Head is consumed. The Sub Ink Tank is installed to this printer. When ink amount remains in the Sub Ink Tank, you can replace the old ink tank with new one without interruption while pri ting



Mechanism of ink supply

	Outline of performance	Ink Tank Valve	Sub Ink Tank Valve	Ink Supply Valve
1.	The Ink Tank is installed.	Opened	Opened	Opened
2.	Ink is fl wed from the Ink Tank into the Sub Ink Tank.	Opened	Opened	Opened
3.	The Ink Supply Valve is closed and the Vacuum Pump is rotated. (Refer to the Ink Supply Valve check) (By rotating the Pu ge Motor in reverse direction, the acuum Pump is driven.)	Closed	Closed	Closed
4.	The Ink Supply Valve is opened (Print head ink filling check) (Ink filled in the Sub Ink ank is fl wed into the Print Head from the Ink Supply Valve.)	Closed	Closed	Opened
5.	The Ink Supply Valve is closed and the Vacuum Pump is rotated. (By rotating the Pu ge Motor in reverse direction, the acuum Pump is driven.)	Opened	Opened	Closed
6.	The Ink Supply Valve is opened. (The Ink Supply Valve in the Sub Ink Tank is opened, and ink is flo ed into the Print Head.)	Opened	Opened	Opened
7.	Filling ink to the Print Head is completed.	Opened	Opened	Opened
8.	Printing is per ormed. (Remaining ink amount is decreased.)	Opened	Opened	Opened
9.	Printing is ontinued while the Ink ank is replaced due to no-ink.	Opened	Opened	Opened

2. Flow of the initial ink filling chec

The remaining ink detection pins in talled in the Sub Ink Tank enable the initial ink filling check ecisely.

- Print head installation check
 If failure in installing the Print Head is detected, to check the status of the Print Head installation is
 prompted.
- 2) Sub ink tank ink filling check

When filling ink o the Sub Ink Tank, the remaining ink detection pin (Ion er) detects whether ink in the Sub Ink Tank is increasing. Then, it detects that ink has been filled f om the Ink Tank to the Sub Ink Tank properly. At initial ink filli , or a er ink tank replacement, if the remaining ink detection pin was not turned on although the ink amount in the Ink Tank exceeded the threshold level, an error, "Reserve tank ink filling er or (231x)" occurs.

3) Ink supply valve check :

(Procedure "No. 3" in the description of m vie)

A er ink is filled o the Sub Ink Tank, the remaining ink detection pin (shor er) detects that ink level in the Sub Ink Tank is not decreasing while the Ink Supply Valve and ink tank valve are closed. Then, it detects whether the Ink Supply Valve is closed properly. If failure in filling ink o the Sub Ink Tank is detected by the remaining ink detection pin, an er or, "Ink supply valve leak at initial ink filling C33-402x) error" occurs.

4) Print head ink filling check

(Procedure No. 4 in the description of m vie)

When the Ink Tank valve is closed and the Ink Supply Valve is opened, the Vacuum Pump in the Purge Unit is driven; then, ink level in the Sub Ink Tank becoming low is detected. In addition, d tecting l w ink level in the Sub Ink Tank allows the following detection

- a) If the Ink Supply Valve is opened properly.
- b) If the Cap or pump in the Purge Unit is performed properly.

A er ink was filled o the Sub Ink Tank, if filling ink o the tube and Print Head had not been done properly, an error, "vacuum error at initial ink filling C3F-402F)" occurs.

5) Nozzle ejection check

Non-ejection n zzles are detected by the Head management sensor.

Agitation

It is to circulate ink for the purpose of preventing ink f om settling out y leaving it for a long period. The ink agitation is per ormed for the predetermined time ac ording to the elapsed time since the p evious agitation. The agi ation is per ormed about 20 minutes at a maximum. A er the agitation is per ormed, the standing time is eset and counting is estarted.

1) When to perform the agitation

- When the power is turned on. (Or before feeding a fi st page when the print job is set and the power is turned on while the auto power is turned on.)
- · Recovering from sleep.
- · Starting pri ting
- · Before cleaning.

Cases	Performance of agitation er stopped
When the print job was received.	A er the print job is finished, agi ation is per ormed for the specified time
When the tank cover was opened.	A er the tank cover is closed, the agitation is estarted.
When cleaning was executed.	A er agitating the minimum time, cleaning is xecuted, and then, when the cleaning is completed, the rest of agitation is per ormed.
When the power source was turned o $\ .$	When the power source is ON again, the agitation is xecuted from the beginning, including the time the time the printer had been stood since the previous power-OFF.

2) Cases that performing agitation is i terrupted:

[Process of agitation]



Mechanism of ink supply

No	Outline of performance	Ink Tank Valve	Sub Ink Tank Valve	Ink Supply Valve
1	Circulation is per ormed by agitating			
1-1	The Ink Supply Valve is opened.			Opened
1-2	The agitation pump is per ormed, and ink in the Ink Tank and sub ink tank is circulated.	Opened/ Closed	Opened/ Closed	Opened
2	Agitating ink in the Sub Ink ank is performed.			
2-1	The Ink Supply Valve is opened.			Opened
2-2	The agitation pump is dri en, and ink in the Sub Ink Tank is circulated.	Opened	Opened	Opened

4. Drive power transmission and problem detection

[Ink supply mechanism of drive parts]



Drive power transmission:

The drive power for the ink supply unit comes from the ink valve motor in the Sub Ink Tank Unit.

The destin	tion of	of dri	e power	transmission	and	performance	is as follows.
The acount	tion (JIUII	c power	ti un sin i ssion	unu	periornance	15 45 10110 105.

Direction of otatio	Destin tion of Dri e Power Transmission	Performance		
Rotates in normal directio	Agitation alve Cam Sha	The Ink Tank valve and sub ink tank valve are opened and closed. The agitation pump is dri en.		
Rotates in reverse direction	Ink Supply Valve Cam Shaft	The Ink Supply Valve is opened and closed.		



[Rotation in normal direction]

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Ink Valve Motor

0 Ο 0

1¹ 11 9 11 0 0 Agitation Valve Position Sensor Agitation Valve Cam Gear

[Rotation in reverse direction]


Problem detection

Name of Sensor	Detectio	Detected Error
Agitation alve Position Senso	Detects the behavior of the cam	• Time out error of left nd right
	shaft y detecting the flag of th	agita on drive (EC33-2604)
	agitation alve cam gear passing	 Time out error of right agita on
	through and blocking out the light	drive (EC33-2605)
	by the flag of the agi ation alve	• Time out error of left gita on
	cam gear.	valve drive (EC33-2606)
Ink Supply Valve Position Senso	Detects the behavior of the cam	• Time out error of left nd right
	shaft y detecting the flag of th	ink supply drive (EC33-2601)
	agitation alve cam gear passing	• Time out error of right ink supply
	through and blocking out the light	valve drive (EC33-2602)
	by the flag of the Ink Supply alve	 Time out error of left ink upply
	cam gear.	drive (EC33-2603)
Ink Valve Motor Encoder	Detects the movement amount and	 Left nd right ink valve motor
	speed of the ink valve motor by	error (EC33-2F3A)
	reading the slit in the disk film.	 Right ink valve motor error
		(EC33-2F3B)
		 Left nk valve motor error
		(EC33-2F3C)

Remaining ink detection

How to detect the remaining amount of ink:

- To detect the remaining amount of ink, the following two methods are adopted to this printer.
- Detected by the dot count
- Detected electrically by the remaining ink detection pin in talled in the Sub Ink Tank

How to detect by the remaining ink detection pin in the Sub Ink ank:

Remaining Ink Detection Pi	Detectio
Remaining Ink Detection Pi (Shorter)	Detects that the sub-ink tank is full with ink. If ink level gets lower than the remaining ink detection pin (shor er), "no-ink in the Ink Tank" is displayed on the printer operation panel.
Remaining Ink Detection Pi (Longer)	Detects that there is no amount of ink in printing

[Transition status of ink level in the Sub Ink Tank]



[When ink is remained in the ink tank]

Remaining Ink Detection Pin (Shorter)



[When ink is run out in the ink tank]

[When ink is run out in the sub ink tank]

Ink amount display:

The remaining amount of ink for each color in the Ink Tank and sub ink tank is displayed on the LCD.

[How to check ink amount displaying on the operation panel]

- Display of ink amount in the ink tank
- Display of ink amount in the sub ink



Display of ink amount and Status of ink:

Ink Level	Ink Amount	How to detect
	Ink amount remains in the Ink Tank.	It is detected by the dot count in the Ink Tank.
	Remaining ink amount is small.	It is detected by the dot count in the Ink Tank.
	Ink in the Ink Tank is run out.	If it is detected that ink level gets lower than remaining ink detection pin (shor er) in the Sub Ink Tank, "no-ink in the Ink Tank" will be displayed on the printer operation panel A er that, the dot count in the Sub Ink Tank is started. Printable until it is d tected by the dot count that ink in the Sub Ink Tank is run out.
	Ink in the Sub Ink Tank is run out.	If the dot count in the Sub Ink Tank is reached to the certain value and running out of ink is detected before printin , it is unable to print. If ink level becomes lower than the remaining ink detection pin (lon er) while printin , the print job will be interrupted.
8	The remaining ink amount is unknown.	When it is detected that the amount of ink consumption (the dot ount in the Ink Tank) is exceeded than the specified amou t.
	Remaining ink amount is unconfirmed	A er removing and installing ink tank, it is displayed until emaining ink amount in the Sub Ink Tank and ink tank are confirmed

2-2-4. Carriage Unit

1. Configuration

1) Layout of unit:





Sensors function:

Name of Sensor	Detection erformance
Carriago Encodor Sonsor	Reads the slit in the encoder film and detects the Carriage Unit movement
	amount moving left o right and the speed.
Multi Sancar Uni	The photo sensor receives the reflec ed light from the LED light radiated
	from the LED to the paper (the printing p ern in the color calibration)
	Detects the Carriage Unit vibration and shock di ection
Acceleration Senso	The vibration i formation is used o reduce uneven printing
	The information of the shock di ection is used o identi y the error.
Joint Lever Sensor	Detects that the joint lever is opened and closed.
Corriges Lift Corres	Detects that the flag of the arriage lift am rotated by the lift mo or
	power is switched.
	By detecting the amou t of motor movement (a er detecting the fla
Lift Mo or Encoder Sensor	in the carriage lift am switched), detects whether the Head-to-paper
	distance has been moved to the desired position

Motors function:

Name of Motor	Performance
Carriage Motor	Source of power to move the Carriage Unit to the right direction
Lift Mo or	Source of power to switch the carriage height.

2. Function of Carriage Unit

Function of the Carria e Unit is to receive printing o der (an electrical signal), moves the Print Head left o right, and ejects ink to accurate place from the nozzles. For the purpose of achieving these, the following functions a e installed to this printer.

- · Reduces unevenness in printing y controlling carriage speed evenly.
- Corrects ink dot placement both in the accelerating one and decelerating one by ejecting ink t di erent timing
- · Corrects misplaced printing position aused by mechanical accidental error.
- · Improves accuracy of the ink dot placement by optimizing the arriage height.
- $\cdot \;$ Various adjustments and detection $\;$ y the Multi Senso .

1) Reducing uneven printing by equalizing the carriage speed (Carriage cogging correction):

a) Equalizing the carriage speed by the motor torque correction:

The correction able which corrects uneven carriage speed caused by theCarriage Motor torque (the anti phase signal) is equipped o this printer. By controlling the motor speed, uneven printing (occu s in about 5 mm to 7 mm interval) caused by inconstant speed, which is caused by the motor torque, is reduced. This correction is also ado ted to the current LEP.

b) Equalizing carriage speed by acceleration orrection signal

The acceleration sensor is n wly adopted to this printer to achieve high quality print and to improve carriage speed equalization, besides equalizing the arriage speed by the motor torque correction able. The acceleration i formation ead by the acceleration sensor during m ving carriage is fed back to the motor torque correction able, and the carriage speed is controlled in real time

Image of the carriage feeding speed correction:



2) Correcting ink dot placement in the accelerating and decelerating speed zone:

It controls timing of ink ejection ainst the ink dot misplacement caused by the carriage speed in the acceleration and decele ation one. When the carriage speed is constant at all times, ink dot can be landed to the desired printing position while speed om ink ejection o the ink dot landing is included. In this product, to improve printing speed, pri ting is per ormed while the carriage is accelerated and decelerated in the printing a ea. If timing of ink ejection is ontrolled evenly without considering the di erence in speed between the acceleratin /decelerating one and the constant speed zone, printing er or occurs against the desired printing position effer to the "Before correction" in the pictu e below). By controlling print start timing with onsidering di erence in speed between the acceleratin speed zone, misplacement of a printing position an be avoided.



3) Correcting misplacement of printing position caused by mechanical error:

This correction is o perform against misplacement of the printing position in anning direction, which cannot be corrected by the Print Head alignment in the user mode. The correction ables are provided for the both direction. Applying this orrection able, which is created for each print start position, an prevent faulty printing



4) Improving ink dot placement accuracy by optimizing the carriage height:

As the carriage height gets wider, ink mist, which is generated when ink is ejected from the Print Head and the ink dot is landed to the paper, increases. When the carriage height gets narrow, the Print Head may be contacted.

To print in accurate carriage height, the Print Head is adjusted to optimum heig t automati ally according to the paper type and environment (temperature/moisture) before printing. The arriage height has 8 positions as ollows.

Positio	Distance from the Print Head nozzle to the platen	Main Usage
-4	1.0 mm	
-3	1.2 mm	
-2	1.4 mm	Carriage lock, Wiping
-1	1.6 mm	
0	1.8 mm	
+1	2.0 mm	
+2	2.2 mm	
+3	2.6 mm	

Procedure to change the carriage height

To change the carriage height is performed in the following procedure.

1) Connects to the coupling:

By power from the Carriage Motor, the Carriage Unit is moved to the certain place to change the carriage height, and connects to the coupling.

2) Changes the carriage height:

The power from the Lift Mo or is transmi ed to the Carriage Cam Shaft, and the Carria e Lift Cam is rotated. With the cam rotated, the carriage front part is moved up and down, and the carriage height is switched to optimum heig t.

3) Stops the lift mo or:

As the Carriage Unit front part is moved to the desired carriage height, the Lift Mo or stops, and to change the carriage height is completed.



Process	Performance
1	The Carriage Unit is moved to the carriage height changed position, and onnects to the coupling of the Lift
	Unit.
2	The power in the lift mo or is transmi ed to the Carriage Cam Shaft, and the Carria e Cam is rotated.
	Flag switchover in the lift am sensor is detected, and the movement amount is detected by the Lift Cam
	Encoder Sensor.
3	The Carriage Unit front part is moved to optimal heig t for the carriage height.
4	The Lift Mo or stops.

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5) Various adjustment and detection by the multi sensor:

To improve accuracy of printing position, the paper width and paper position e measured automati ally. Print to outside of the paper can avoid. The multi sensor is also used or GAP detection, Print Head alignment, paper feed adjustment, color calibration, and tc.

Configuration

The multi sensor onsists of the paper edge detection part, the GAP d tection part, and the density detection part. The lig t-emitting part (LED) and the li t-receiving part (photo sensor) are installed in each part.

A) Paper edge detection

LED (the A in the picture below) light is radiated to a paper. The reflec ed light from the LED light is received by the photo sensor, then, it detects the paper edge, the paper width, and the paper skew.

B) GAP detection

LED (the B in the picture below) light is radiated to a paper and the reflec ed light from the LED light is received by two photo sensors. The height between the Print Head and the paper is measured and is adjusted.

C) Density detection

In the printed printing p ern, the reflec ed light from the LED light which is radiated from three colors LED (the C in the picture below) is received by the photo sensor, and the color calibration is performed.



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2-2-5. Print Head Management Sensor Unit

1. Configuration

The Print Head management sensor is composed of the LED, the light receiving part, and the ink absorber.



2. Operation outline

The sensor receives the LED light while non-ejection d tection is per orming. The LED light is blocked by ink ejected from the Print Head; as a result, the amount of received light in the sensor is changed. When the LED light is not blocked, the amount of light is not changed. The nozzle of which the amount of light is not changed, it is judged as the non-ejection n zzle. The result of non-ejection d tection is s ved to the RAM area a er the non-ejection d tection is performed. It is used for recovering by cleaning or non-ejection omplementary. Deterioration of the printing quality due o non-ejection of ink an be prevented.



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3. Non-ejection detection process flow

Non-ejection n zzles' detection is per ormed in the following order.

1) Optical axis adjustment

Outline:

To implement the non-ejection d tection, the app opriate head management sensor position is d tected and the non-ejection d tection position is termined against all the nozzles.

When to implement:

- \cdot At initial s tti
 - After initial filling in the initial setting, "Optical axis adjustment" -> "Detecting non-ejection" is performed automati ally.
- · A er removing and installing the Print Head.
- · A er ink filling er transportatio
- If there are more than 100 nozzles not matched with the previous result of non-ejection d tection, then, the opti al axis adjustment a er the recovery cleaning is performed.

2) Non-ejection detection

When to implement:

- · When filling ink t settin
- · A er conducting arious cleaning.
- A er the specified amou t of ink (by dot count) is ejected since the previous non-ejection d tection performance.
- A er printing number of pape s set by the customer since the previous non-ejection d tection performance. (It is performed between pages even while the print jobs are executing.
- · A er replacing the Print Head.
- A er ink filling er the transportation
- · A er 168-hours elapsed since the previous ejection

3) Recovery operation after detecting the non-ejection

The following operation is per ormed a er the clogging nozzle is detected.

- \cdot The nozzles are recovered by cleaning.
- Ejection f om the clogging nozzle is stopped. Non-ejection is omplemented by ejection f om the other nozzles.



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2-2-6. Function of Platen

Function of the pl ten is as follows:

- · Preventing paper fl t during printin
- · Preventing ink smearing on the back side of paper during pri tin
- · Preventing non-ejection of ink during pr tin

1. To prevent paper floating during printing:

Performing air suction y the suction an to a paper prevents paper flo ting

2. To prevent ink smear on the back side of paper during printing:

In the existing models (ima ePROGRAF series), in some cases, when air suction is per ormed by the suction fan, the suction an vacuums ink mist during printin , as a consequent, the back side of paper smears. However, in the imagePROGRAF TX series, the air inlet is newly adopted between the opening for paper suction and the bo derless printing t ay, and then, direction of air w under the paper is reversed, as a result, smearing on the back side of paper caused by the ink mist going in under the paper can be prevented.



3. To prevent non-ejection of ink during printing

To achieve high quality print, pre-ejection is per ormed while printing

The old ink inside the nozzles, the air bubble, and the mixed color ink are ejected. In addition, the duts are removed. Place to perform the pre-ejection is based on the paper dtection esult.



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2-3. Initial Flowchart

2-3-1. Initial Flowchart

The fl wchart below shows the initial pri ter operation f om power-on till the pri ter gets ready for printing









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CHAPTER 3

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3-1. Printer Installation, Transportation, Reinstallation

3-1-1. Printer Installation

Confirming the Installation Space

It is recommended that you reserve space of the following dimensions to allow you to work around the printer.

Check the completed image of the printer you purchased and make sure you have enough space to install the printer.

	• The printer stand and roll unit may be options depending on the model. Ca e is
	required because the required space may di er depending on whether or not the
	options a e used.
Important	• The space required in front of the printer di ers on how the basket supplied with the
·	printer stand is used. This shows the installation space when used in the position i
	the illustration

<TX-2000>

Installation space (W \times D \times H

- When not using the stand
 59.5 × 56.5 × 40.2 inches
 (1510 × 1434 × 1020 mm)
- When using the stand

59.5 × 66.3 × 61.5 inches (1510 × 1684 × 1560 mm)



<TX-3000> Installation space (W × D × H 70.5 × 66.3 × 61.5 inches

(1790 × 1684 × 1560 mm)



<TX-4000>

Installation space (W \times D \times H

78.5 × 66.3 × 61.5 inches





Package Contents



- Printer
- A. Printer
- B. Paper for adjustment
- C. Setup Guide
- D. Starter ink tanks (C, M, Y, MBK, BK)
- E. Set of CD-ROMs
- F. Set of printer documentatio
- G. Print head
- H. Power cord
- I. Holder stopper (*)
- * The holder stopper is used when loading roll paper.

For details, refer to the Online Manual.

Stand

Only included with models where the stand is included as standard. Furthermore, it may be packaged in a separate box depending on the region where you purchased the printer.

- J. Stand leg L
- K. Stand leg R
- L. Stand stay
- M. M4 hex screw (× 9)
- N. M8 hex screw (× 4)
- O. M8 Allen wrench
- P. M4 Allen wrench
- Q. Accessory pocket
- R. 3-inch paper core a achment (× 2)

Basket

These items might not be included depending on your region.

S. Rod holder (× 2)

T. Basket arm (× 2)

U. M4 Hex screw for basket arm (× 4)

V. Basket rod/Basket cloth

W. Basket locking support (× 2)



Some items are included with the printer but not described in this manual. Keep these items in a safe place a er setup because they are used in various printin applications
A cable to connect the printer to a computer is not provided with the printer.

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Assemble the Stand

• When using the stand

-> Assemble the stand on which you will install the printer by referring to the <u>3-1-2. Printer Stand Setup</u>.

• When not using the stand

->Proceed to "Install the Printer"

Attach the Alignment Rod

A ach the rod for aligning the printer to the stand.

[When using the basket included with the stand]

- 1. Prepare the basket rod (cord side).
- 2. Hook the basket rod onto the supporting pl tes of the stand legs.
 - A ach such that the protrusions (A) on the basket rod are facing towards you.



[When using the stacker]

- 1. Open the stacker box and take out rod 2.
- 2. Hook rod 2 onto the supporting pl tes of the stand legs.
 - A ach such that the holes (A) on rod 2 are facing up.



Install the Printer

1. Remove the packaging material.



2. Remove all of the tape and other packaging material. Open the top cover (A) and output guide (B), and then remove the tape a ed to the roll holder.



3. With 3 people holding the carrying handles under the printer on both ends, lift the printer.



The printer alone weighs differently depending on the model. TX-2000 is approx. 163
 lb (74 kg), TX-3000 is approx. 191 lb (87 kg), and TX-4000 is approx. 211 lb (96 kg).
 Moving the printer requires at least 6 people, 3 on either side. Be careful to avoid back strain and other injuries.



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When moving the printer, firmly g asp the carrying handles (A) under each side.
 Holding the printer at other positions is dan erous and cause injury and damage if the printer is dropped.









• When standing the printer up, make sure the side with the control panel is up, and place cardboard or other material underneath to prevent scratching. Furthermore, make sure that the weight of the printer is taken by the corner of the printer. If the weight is taken by any other part of the printer, the printer may become damaged.





• When standing up the printer or supporting the printer, hold the metal parts of the printer. If you hold a plastic part, the printer may become damaged.





• The way to set the printer down or to carry with the load only to the center of the printer, may cause damage to the printer.



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3-1. Printer Installation, Transportation, Reinstallation

4. Align the position of the pri ter

[When using the basket included the stand]

Place the printer on the stand such that the protrusion (A) for aligning the position of the printer is aligned with the position of the black mar eron the basket rod a ached to the supporting pl te.



[When using the stacker]

Important

Place the printer on the stand such that the protrusion (A) for aligning the position of the printer under the rear side of the printer is aligned with the position of the holes on od 2 a ached to the supporting plate.



• If you are not using a stand, place the printer in the installation lo ation and p oceed to "Turn On the Printer".

- 5. Affix the pr ter to the stand.
 - 1) Remove the alignment rod.
 - 2) Use an M4 Allen wrench to securely affix y using three M4 hex screws each on the left and rig t from the bo om of the supporting pl te.





• The removed alignment rod will be used when a aching the basket.

Attach the Roll Unit

- When using the roll unit
 - -> A ach the roll unit to the stand by referring to the <u>3-1-3. Roll Unit Setup</u>.
- When not using the roll unit
- -> Proceed to "<u>A ach the Basket</u>".

Attach the Basket

- When using the basket included with the stand
 - -> A ach the basket to the stand by referring to the 3-1-2. Printer Stand Setup.
 - Proceed to "<u>A ach the Basket</u>".
- When not using the basket
 - -> Proceed to "Assemble the Stacker".

Assemble the Stacker

- When using the stacker
 - -> Assemble the stacker by referring to the <u>3-1-4. Stacker Setup</u>.
- When not using the stacker
 - -> Proceed to "Turn On the Printer"

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Turn On the Printer

1. Open the top cover.



2. Pull up and remove the belt stopper (A).





3. Peel off the apea ed to the carriage, and then pull the protectie material (A) towards you and remove it. Remove the protectie sheet if there is one a ached.



4. Close the top cover.



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Plug the power cord into the power supply connector on the back of the printer.
 <TX-2000/TX-3000>



<TX-4000>



6. Plug the power cord into the outlet.



7. Turn on the printer.



8. When the language selection sc een appears on the touch screen, select and tap a language (lightly with your fin er, and then move your fin er away). Then, if the screen for selecting a time one appears, select and tap your region.

	Language sel	ection
E	本語	
E	nglish	
fr	ançais	
D	eutsch	
1+	aliano	V

9. When a message prompting ou to start the setup appears on the touch screen, tap OK.



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Install the Ink Tanks

Install the 5 ink tanks by following the instructions on the sc een.

1. Instructions on ink ank installation a e shown on the screen. Open the ink tank cover as instructed.



2. Release the ink tank lock lever for the color of ink to install. Pull the handle part (A) towards you while pressing the bu on at position (B)



- 3. Pull out the ink tank lock lever.
 - 1 Pull straight up.



2 Pull towards you.



③ Securely lay down at a position whe e it does not return when you release your hand.





Make sure the ink tank lock lever stays in the locked position

4. Shake each ink tank gently 7 or 8 times b fore opening its pouch.



O Important	• Failure to shake the ink tanks may result in reduced print quality because ink ingredients have settled on the bo om of the tank.
Note	 If the ink tank is cold, allow it to adjust to room temperature before a aching it to the printer.

5. Open the pouch and remove the ink tank.





6. Mount the ink tank in the holder. Install with the ink holes facing down and the metal contacts facing away from you.



An ink tank cannot be mounted in the holder if it is not oriented correctly for the color.
 Do not try to force an ink tank into the holder if it does not go in normally.Check the color indicated on the label and the ink tank orientation, and then t y mounting the tank into the holder again.

7. Lift up the ink ank lock lever once and then push it down.



8. Firmly push down the handle part of the ink tank lock lever all the way in.



9. Make sure the ink lamp lights red.







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10. Repeat steps 2 to 9 to install each of the ink tanks. Close the ink tank cover. When the screen for confirming in tallation of the ink ank appears, tap OK.



Install the Print Head

- 1. When the instruction o open the top cover appears on the screen, open the top cover. Instructions a e
 - now shown on the screen regarding print head installation



2. Tilt the print head lock lever 1 towards you.



3. Open the print head locking cover (2) by following the instructions on the sc een, and tap OK. Do not touch (A) on the carriage.



4. Remove the print head from the bag by holding the tab parts (A)



5. Remove the orange protecti e caps (A and B). Remove the protecti e cap (B) by holding the tab part (C).



- Do not touch the part that was being protected by the protecti e cap under any circumstances. Touching it may cause damage to the print head or printing p oblems.
 The print head contains ink, so be careful not to spill it once the protecti e caps are removed.
 Do not rea ach the protecti e caps a er removing them. Dispose of them according to local regulations
- 6. Insert the print head into the carriage with the ink holes (A) on the upper side and facing towards you as shown in the figu e. Carefully push the print head firmly i to the carriage, ensuring that the part covered by the protecti e caps does not touch the carriage.



7. Pull the print head locking cover 3 down toward the front to lock the print head in place.



8. Push the print head lock lever (4) all the way to the end.



9. Close the top cover.





• If the roll unit is installed, the roll unit calibration tarts automati ally a er the print head is a ached. If the roll holder is mounted on the roll unit at this time, alibration cannot be executed. Do not mount the roll holder on the roll unit until the s tup has finished

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Load the Paper

Load the paper for adjustment.

1. ①Tap [OK].

2 Tap [Manual].



2. Open the top cover and lift the elease lever.





3. Insert the paper for adjustment between the platen (A) and paper retainer (B) in portrait orientation with the printed side of the paper facing up. Only one sheet of paper is needed.



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• Check that there is nothing under the printer. If there is anything under the printer, it may cause scratches on the paper or paper jams, and you might not be able to adjust the print head correctly.

4. Load the paper aligned with the paper alignment lines (A) to ensure that the paper is not crooked, and align the leading edge of the paper with the front side of the line (B).



5. Lower the release lever to lock the paper and close the top cover.



6. The screen for selecting the paper type appears. Tap the type of paper you loaded. In this case, tap Coated papers then Coated papers.



• If "The paper is loaded askew." appears, repeat steps 2 to 5.

Perform Print Head Adjustment and Select the Connection Method

1. When the screen for selecting the onnection m thod appears, select the connection m thod to use.





 If you are connecting the priter to the network using a fiel IP address, select Do not connect. Configue the settings om the touch screen of the printer a er the printer has finished chaging the ink for the fist time and adjuiting the prit head.

[Wired LAN connection

This is the method for connecting the pri ter to the network using a LAN cable

1 Tap Wired LAN connection

Check the message about the connection m thod and tap Yes if there are no problems.

- ② A message prompting ou to connect the LAN cable appears.
- 3 Use the LAN cable to connect the wired LAN connector on the back of the printer to the hub port.



④ Tap OK.

[Wireless LAN connection

This is the method for connecting the pri ter to the network without using a LAN cable

(1) Tap Wireless LAN connection

Check the message about the connection m thod and tap Yes if there are no problems.

- ② A message prompting ou to set up the wireless LAN appears.
- ③ If you are configuring f om a computer
 - -> Tap Yes.

If you are configuring f om the printer

->Tap No.

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[USB connection

This is the method for connecting the priter to a computer using a USB cable. Only 1 printer can be connected.



• Do not connect the USB cable yet..

(1) Tap USB connection. Check the messa e about the connection m thod and tap Yes if there are no problems.

When the connection is ompleted, The paper starts feeding, and then the printer automati ally starts charging the system with ink and adjusting the print head. Charging the system with ink and adjusting the print head for the first time akes about 35 minutes.

() Important	• Do not open the covers of the printer or turn the power off while the ink is cha ging for the fi st time and the pri t head adjustment is executing
Note	 If you selected Do not connect, the connection s ttings and so are installation will need to be performed separately. Proceed to "<u>Connect to the Printer</u>" Charging the system with ink fills the ystem from the ink tanks to the print head. In addition, cleaning is per ormed to keep the printer in optimal ondition. This m y cause the remaining ink indicator and maintenance cartridge capacity indicator to drop some amount. The starter ink tank is for fi st-tim installation. It is ecommended that you purchase replacement ink tanks quickly.

[Wired LAN connection and USB onnection

Configue the printer and computer connection sting and i tall the soft are while the ink is charging for the first time and the print head is adjusting

Proceed to "Connect to the Printer"

[Wireless LAN connection

If you are configuring f om a computer

-> Configue the printer and computer connection sttings and i tall the soft are while the ink is charging for the first time and the prit head is adjusting

Proceed to "Connect to the Printer"

If you are configuring \boldsymbol{f} om a printer

-> Configue the wireless LAN settings om the printer has finished chaiging the ink for the first time and adjusting the print head.

Proceed to "Configu e Wireless LAN Setting on the Pr ter"

Connect to the Printer

The printer connection s ttings and so are installation a e performed using a computer.

You can download the setup fi es from our website. If you are using a Windows PC, you can also start this from the CD-ROM.

However, if you selected No in step 3 for connecting o a wireless LAN on [Perform Print Head Adjustment and Select the Connection M thod], configu e the wireless LAN settings only using the pr ter. Proceed to "Configu e Wireless LAN Settings on the Pr ter"

•Downloading and running from the website

1. Enter the following URL in the web browser of your computer to access the website.

http://ij.start.canon



Perform the remaining operations y following the instructions on the sc een.



......

Download

3. Click [Download] to download the setup files

If a warning screen about downloading appears, select [Do not block, Allow], etc. and then proceed to the next step.

Click Download on the computer to which you want to connect the printer.



[If you are using Windows 10 or Windows 8.1]

1. Insert the setup CD-ROM into the computer.



2. Click the popup message for the disk drive and click [Run Msetup4.exe] on the screen this is displayed.

If the message did not appear (or has disappeared)

- ① Click or [File Explorer] on the taskbar.
- (2) Click **This PC** on the left side of the wind w that opens.



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- ③ Double-click the O CD-ROM icon on the right side of the window.
- ④ If the contents of the CD-ROM appear, double-click [Msetup4.exe].
- 3. If the [User Account Control] dialog box appears, click [Yes] and proceed to the next step.

[If you are using Windows 7]

1. Insert the setup CD-ROM into the computer.



2. When the[AutoPlay] screen appears, click Run [Msetup4.exe].

If the AutoPlay screen does not appear

- (1) Click Computer from the start menu.
- 2 Double-click the CD-ROM icon on the right side of the window.
- ③ If the contents of the CD-ROM appear, double-click [Msetup4.exe].
- 3. If the [User Account Control] dialog box appears, click [Continue] and p oceed to the next step.
- 4. Click [Start Setup].

Configue the settings y following the instructions on the sceen.



This completes the setup.



Configure Wireless LAN Settings on the Printer

the above screen appears.

Injecting the ink

Cleaning...

Select and tap the connection m thod.

Checking the nozzle.

If you selected No in step 3 for connecting o a wireless LAN on [Perform Print Head Adjustment and Select the Connection M thod], configue the wireless LAN settings using the ouch screen of the printer.

1. Once the print head adjustment has finished, check th t the following screen appears and tap OK.



• If the following message appears, the printer initial s ttings e not finished.

ait until



Note

2.

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Before using the printer, the soft are needs to be installed on the computer that is connected to the printer.
 Proceed to "<u>Connect to the Printer</u>"

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Configue the wireless LAN settings y following the instructions on the sceen.

3. When the home screen appears and ((1)) appears, the wireless LAN settings e complete.

Ready to print.	((†))
PM R C PGYMBK PBK B CO GY Y M P	c -
Maintenance	

Storage Locations

A: Spare ink box

Can be used to store spare ink tanks.



• Do not place a used ink tank.

B: Accessory pocket

- Can be used to store accessories such as the 3-inch paper core a achment.
- The accessory pocket is included with the stand. Refer to <u>the section 13 of "A ach the Basket"</u> in the 3-1-2. Printer Stand Setup for details on how to a ach.



To load roll paper a er setup, tap the paper settings disp y area from the home screen, then **(roll** paper icon), then Replace Paper, and follow the instructions on the sc een.

For details, refer to the Online Manual that can be accessed by the procedure in "How to Display the Online Manuals".

How to Display the Online Manuals

Online Manual that describes how to use the printer in detail is published on the Web. Access it using the following procedure as needed.

- 1. Access the Canon website by any of the following methods.
- Enter the URL

http://ij.start.canon

• Scan the QR code



2. Click or tap [Read Online Manual].

Perform the remaining operations y following the instructions on the sc een to display the Online Manual.



Responding to Messages

Error messages may appear on the touch screen of the operation panel when s tting up pr ter. If so, it may not indicate a problem with the printer, and the isuue may be easily resolved. Common messages and the causes are listed here with correcti e actions. or details on other messages, refer to the Online Manual.

Message	Cause	Corrective Action	
The ink tank is not installed. Install the ink tank properly.	There is no ink tank loaded.	Load or reload the ink tank. (Refer to step 1-10 of install the ink tanks)	
	The ink tank is not firmly installed all the way in.		
Print head cannot be recognized correctly. Open the top cover and install the correct print head.	The print head is not installed.	Install the print head, (Refer to step 1-9 of install the print head)	
	Electrical contact failure in the print head.	Remove the print head, make sure that no debris becomes adhered to the contacts on the print head and the carriage, and then reinstall the print head.	
The paper is loaded askew. Lift the release lever and reload the paper.	The paper may not be aligned with the paper alignment line.	Reload the paper so that the edge of the paper is aligned with the paper alignment line, (Refer to step 2-6 of Load the Paper)	
Unsupported paper size. Lift the release lever and replace the paper.	The roll paper is fed even though cut sheet remains selected as the paper source.	Release the release lever and reload the paper. Tap the paper settings display area from the home screen, then (roll paper loon), then Replace paper, and feed the roll paper again. For details, refer to "Removing the Upper Roll from the Printer" and "Loading the Upper Roll on the Printer" in the Online Manual.	
Hardware error ECxx-xxxx (x represents a letter or number)	The belt stopper or the tape inside the top cover has not been removed.	Turn off the power, open the top cover, and remove the tape and the belt stopper, then turn the power on.	
Printer error has occurred. Turn the device off, wait a while, and then turn it on again.	You may have encountered an error that cannot be resolved.	Turn off the printer and wait at least 3 seconds before restoring the power. If the message appears again, write down the error code and message, turn off the printer, and contact your Canon dealer for assistance.	
Error Ecxxxxxxxx (x represents a letter or number) Printer error has occurred. See the manual and contact the service center.	You may have encountered an error that cannot be resolved.	Write down the error code and message, turn off the printer, and contact your Canon dealer for assistance.	

3-1-2. Printer Stand Setup

Package Contents



- A. Stand leg L
- B. Stand leg R
- C. M8 Allen wrench
- D. M4 Allen wrench
- E. Accessory pocket
- F. M4 hex screw (× 9)
- G. M8 hex screw (× 4)
- H. Stand stay

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- These items might not be included depending on your region. I. M4 Hex screw for basket arm (× 4) J. Basket arm (× 2) K. Rod holder (× 2) L. Basket rod (cord side) *1 M. Basket locking support (x 2) N. Basket cloth/Basket rod (tag side) *2 K L М N Ca \Box *1 The basket rod (cord side) can also be used as an alignment rod when installing the printer.
- *2 The basket rod (tag side) is already a ached to the basket cloth.
 - Other documentation m y also be included in the package.
 - Although the illustrations m y di er from the model you are using, the basic procedure is the same.

Assemble the Stand



• Stand assembly requires 2 or more people. Assembling the Stand alone poses a risk of injury or accidental bending of the stand.

1. Check that locks on a total of 4 casters on both stand leg L and stand leg R are engaged.



2. Arrange the stand leg L and stand leg R as shown in the diagram.



Align the positions of the ▲ (A) stamped on the left and rig t of the stand stay to overlap with the ▲ (B) stamped on the inner sides of the stand legs, and hook the hook-shaped parts of the stand stay (C) onto the stand legs.



4. Affix the tand stay using 2 M8 hex screws each on the left and rig t sides. Securely tig ten the screws using the M8 Allen wrench.



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Prepare to Install the Printer

1. Move the stand to a location th t will make it easy to install the printer. When moving the stand,

switch the locks on all 4 casters to o $% \left({{{\mathbf{r}}_{{\mathbf{r}}}}_{{\mathbf{r}}}} \right)$.



2. A er moving the stand, return all 4 of the caster locks to on.



Install the Printer

Install the printer on the stand. Refer to 3-1-1. Printer Installation and p oceed to "A ach the Alignment Rod."

Attach the Basket



• The basket included with the stand cannot be used while using the stacker.

- 1. Check that the printer is installed on the stand. If it is not installed, install the printer by referring to the Setup Guide for the printer.
- 2. Align the protrusion (A) on the side of the basket arm with the hole (B) on the inner side of the stand leg, and a ach the basket arm to the stand.



• Always a ach the basket arms to the inner side of the stand. If you a ach them to the outer side, you will not be able to assemble the basket as described below.





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3. Affix the ba et arms to the stand using 2 M4 hex screws for the basket arms. Securely tig ten the screws using the M4 Allen wrench.

Repeat steps 1 and 2 also for the other stand leg to affix the ft and rig t basket arms.



4. Insert the protrusion (A) on the base of the rod holder into the hole that is innermost (B) from among the4 holes on the rear side of the stand leg, and a ach the rod holders.





Affix the od holder to the stand using 1 M4 hex screw.
 Repeat steps 3 and 4 also for the other stand leg to affix the ft and rig t rod holders.



6. Spread out the basket cloth with the surface that does not have the white tag (A) facing up, and feed the basket rod (cord side) through the cylindrical part of the basket cloth.





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7. A ach both ends of the basket rod (tag side) to the ti s of the basket arms.

Insert the protrusions (A) on the basket rod into the ellipti al holes (B) in the ti s of the basket arms to a ach them.





• A ach using the basket cloth with the side that does not have white tags facing up.

8. A ach both ends of the basket rod (cord side) to the inner sides of the rod holders as shown in the diagram.



9. Hook the black cord of the basket cloth onto the hooks (A) at the top of the rod holders.



10. Check that the basket cloth is not wrapped around the basket rod (tag side).If it is wrapped around, press the bu on (A) on the right side of the basket rod (tag side) to remove the wrapped up basket.



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11. Lift up the bas et.

- 1) Grasp the thick parts of the basket arms and pull out until th y stop.
- 2) Lift up the bas et rod (tag side).



	 Work by grasping the thick parts of the basket arms.
Important	 Pull the basket arms out completely before lifting up the bas et rod.

- 12. Check that the edge of the basket cloth is not inside the basket.
 - If it is inside, remove it to the outside.





• If the basket falls open, affix the ba et arms using the basket locking supports. Refer to "Using the Basket" in the Online Manual for details.



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13. Affix the access y pocket using 1 M4 hex screw. Securely tig ten the screw using the M4 Allen wrench included with the printer.



Example Basket Positions

Important

• The position of the bas et can be changed depending on the application Refer to "Example Basket Configu ations" in the Online Manual or details.



• You must change the position of the bas et depending on how the roll unit is used.

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3-1-3. Roll Unit Setup

Package Contents



- A. Roll unit
- B. Support rail L
- C. Support rail R
- D. Roll unit cable
- E. M4 hex screw (× 2)
- F. M8 hex screw (× 2)
- G. M4 Allen wrench
- H. M8 Allen wrench
- I. 3-inch paper core a achment (× 2)
- J. Holder stopper
- Other documentation m y also be included in the package.
- Although the illustrations m y di er from the model you are using, the basic procedure is the same.

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Attach the Roll Unit

- 1. Check that the printer is installed on the stand.
- 2. A ach the support rail L with the protrusions (A) and (B) aligned with the holes (A') and (B') in the stand leg L.



3. Firmly grasp the bo om of the support rail L and apply force horizontally toward the inside of the stand to check that the support rail L is correctly a ached.



3-1. Printer Installation, Transportation, Reinstallation | 143 SM-17001E-00 4. Affix the support ail L using an M8 hex screw. Securely tig ten the screws using the M8 Allen wrench.



Open the top cover and output guide of the printer, and raise the release lever. 5.



6. Remove the tape a ached to the roll unit.



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7. Switch the feed flap witch (A) to the position of the 🞯 (feed icon) on the left



8. Release the roll holder lock switch (A), and grasp the (B) part of the roll holder to remove the roll holder.





9. Have 2 people lift the oll unit by the carrying handles on the left and rig t sides of the roll unit.





10. While checking the positions on the I ft and rig t sides, place the roll unit on top of the support rails, and push the roll unit all the way in until the poi ts of the ▲ markings (A) on the left and rig t sides are aligned.



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11. Align the hole (A) for the M4 hex screw on the right side of the roll unit with the printer side position, and affix the oll unit using 1 M4 hex screw on each of the left and rig t sides. Securely tig ten the screws using the M4 Allen wrench.



12. Connect the roll unit to the printer.

Securely insert both ends of the roll unit cable into the connector (A) on the back of the roll unit and the roll unit connector (B) on the back of the printer until ou hear a click.





• Do not turn the printer on yet.

13. Close the top cover and output guide, and lower the release lever.



Attach the Basket

A ach the basket. Refer to 3-1-1. Printer Installation and p oceed to "A ach the Basket".

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Package Contents



- A. Foot L
- B. Foot R
- C. Bo om stay
- D. Top stay
- E. Rod 1
- F. Rod 2
- G. Basket cloth/Rod 3
- H. Paper stopper rod
- I. Paper guide (SS-41, SS-31:× 3, SS-21:× 2)
- J. Paper stopper base
- K. Paper stopper wire
- L. M4 hex screw (× 10)
- M. M4 Allen wrench
- Rod 2 may be used for alignment when placing the printer on the stand.
- Rod 3 is already a ached to the basket cloth.
- Other documentation m y also be included in the package.
- Although the illustrations m y di er from the model you are using, the basic procedure is the same.

Assemble the Stacker

Caution	• Always use 2 or more people when assembling the stacker. Performing the work using only 1 person may cause injuries or deformation of the tacker.		
O Important	 When the basket that is included with the printer stand is already a ached to the printer stand, fi st remove the basket together with the basket arms. The stacker cannot be used while the basket is a ached. When using the stacker, ensure in advance that there is sufficient space for removing the stacker in front of the printer. 		

1. Remove tape and packing material. However, do not remove tape A at this stage.



2. Check that locks on a total of 4 casters on both foot L and foot R are engaged.



3. Arrange foot L and foot R as shown in the illustration



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5. Affix the b om stay, foot L, and foot R using M4 hex screws. Securely tig ten the screws using the M4 Allen wrench in the order A then B.





6. Hold the top stay such that the L and R markings on the top stay are aligned with foot L and foot R, and insert the bo om stay into the left and rig t base parts (A) of the top stay.



7. Affix the op stay and bo om stay using M4 hex screws. Securely tig ten the screws using the M4 Allen wrench in the order A then B.



8. Remove the tape that is securing the flappe .





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152 | 3-1. Printer Installation, Transportation, Reinstallation SM-17001E-00 9. A ach the paper stopper rod by inserting both ends (B) i to the C positions on the oot L and R with the A ti s facing forward.





10. Spread out the basket cloth/rod 3 with the surface that the while tags (A and B) are a ached to facing down.



11. Feed rod 1 through the tubular part where white tag A is a ached.



12. Feed rod 2 through the tubular part where white tag B is a ached.



13. Insert the ti s (B) of the arm into both ends (C) of rod 1 such that the white tag (A) is oriented in the position sh wn in the illustration



14. Affix both ends of od 1 using M4 hex screws. Securely tig ten the screws using the M4 Allen wrench.



15. Place rod 2 (A) such that it hooks onto the left and rig t arms of the B parts.



16. Insert and a ach rod 3 which was originally a ached to the basket cloth into the grooves (A) in the front of the paper stopper rod.





• If you a ach it incorrectly, remove by using the same method as the paper stopper rod.

17. Check the condition of the op stay. If the movable parts of the top stay is til ed over, stand it up by lifting up the A part.



18. Hook the upper p of the paper guide (B) into the groove (C) in the top stay such that it is aligned with the position of the A part of the op stay.



19. Push in and a ach the A part of the paper guide.



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20. A ach the remaining paper guides by repeating teps 18 and 19 in the two locations indi ated by A (only the leftmo t one position or the SS-21).

- 21. Squeeze the paper stopper wire to reduce the width, a ach it to the paper stopper base, and rotate the paper stopper wire to a position whe e it can no longer return.

- 22. Store the paper stopper in the accessory pocket on the printer stand. This completes the assembly of the stacker.





• The paper stopper is used depending on the size of the output paper. Refer to "Example Stacker Configu ations" in the Online Manual or details.







Attach the Stacker to the Printer

1. Switch all 4 of the caster locks of the stacker to o .



2. Move the stacker in front of the printer that is a ached to the printer stand, and push the protruding parts (A) on both side of the stacker feet until they touch the printer stand on both the left a d right sides.



3. Switch all 4 of the caster locks of the stacker to on.



Example Stacker Positions

•The position of the tacker can be changed depending on the application. efer to "Example Stacker Configu ations" in the Online Manual or details.





• Remove the stacker from the printer when not using the stacker such as when using the roll unit as a roll up device.

3-1-5. Transportation

3-1-5-1. Transportation outline

Before transporting the priter, be sure to perform the following procedures in order to protect the internal mechanism. The procedure depends on the transportation modes. Select the appopriate transportation modes from the following. Regarding printer packing and reinstallation er transporting the priter, refer to <u>3-1-6. Reinstallatio</u>.

0	• Ink may leak and damage the printer if you do not prepare the printer correctly and it
Important	is tipped or tood on end in transit.
	• The maintenance cartridge needs to be replaced when you tap [Prepare to move].
Note	Prepare the maintenance cartridge in advance while referring to <u>3-1-5-2. Details</u>
	of transportation mode. The number of maintenance cartridge required varies
	depending on the amount remaining in the maintenance cartridge being used.
	• If you can move the printer in a level state using casters or something similar, you do

1. Transportation modes

- Move indoors by carrying
- Moving the printer while temporarily tilting it such as when using the tairs

not need to tap [Prepare to move].

• Transporting y vehicle

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 When transportin the printer, the print head must be capped and stay in the carriage. In spite of this precaution, shoc s incurred during transportation an damage the print head. Print the nozzle check pa ern before making preparations or transporting the printer, and keep the print results.

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- TX-3000: Approx. 191lb (87kg)
- TX-2000: Approx. 163lb (74kg)





Caution

When moving the printer, firmly g asp the carrying handles (A) under each side.
 Holding the printer at other positions is dan erous and cause injury and damage if the printer is dropped.







stable place.





• When standing the printer up, make sure the side with the control panel is up, and place cardboard or other material underneath to prevent scratching. Furthermore, make sure that the weight of the printer is taken by the corner of the printer. If the weight is taken by any other part of the printer, the printer may become damaged.





• When standing up the printer or supporting the printer, hold the metal parts of the printer. If you hold a plastic part, the printer may become damaged.





Do not place or transport the printer with load placed only at the center of the printer.
 Otherwise the printer can be deformed or damaged.



3-1-5-2. Details of transportation modes

Move indoors by carrying

Item	Descriptio
[Prepare to transportation] in Mai tenance menu	Execute [Move indoors on the same floo s].
Allowed tilting ang	30° or less omnidirectionall
Ink tank	It may be installed or removed.
Separation of main unit and tand	They do not need to be separated.
Number of maintenance cartridge to be used	One or two
Replacement of consumable parts	Replacement of consumable parts and resetting of ounter may be necessary. For details, refer to <u>3-1-5-3. Replacing consumable parts</u> <u>during transportatio</u> .
Service support	If consumable parts must be replaced, service support is necessary.
Transporting and toring in low temperature environment	Cannot be performed.

Moving the printer while temporarily tilting it such as when using the stairs

Item	Descriptio	ap
[Prepare to transportation] in Mai tenance menu	Execute [Move indoors to a di erent floor]	ter 1
Allowed tilting ang	90° or less omnidirectionall	1
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Ink tank	Remove all ink tanks.	lapt
Separation of main unit and tand	Separate.	- Cer 4
Number of maintenance cartridge to be used	One or two	
Replacement of consumable parts	Replacement of consumable parts and resetting of ounter must be necessary. For details, refer to <u>3-1-5-3. Replacing consumable parts</u> during transportatio.	
Service support	If consumable parts must be replaced, service support is necessary.	
Transporting and toring in low temperature environment	Cannot be performed.	

Transporting by vehicle

Item	Descriptio
[Prepare to transportation] in Mai tenance menu	Execute [Transport outdoors].
Allowed tilting ang	90° or less omnidirectionall
Ink tank	Remove all ink tanks.
Separation of main unit and tand	Separate.
Number of maintenance cartridge to be used	Тwo
Replacement of consumable parts	Replacement of consumable parts and resetting of ounter must be necessary. For details, refer to <u>3-1-5-3. Replacing consumable parts</u> <u>during transportatio</u> .
Service support	If consumable parts must be replaced, service support is necessary.
Transporting and toring in low temperature environment	Can be performed.

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3-1-5-3. Replacing consumable parts during transportation

24" model

No Part number		Part name	Service mode	[Move indoors on the same floo s]
NO	Fait number	Faithanie	PARTS xx	Threshold value of counter (Unit: ml)
[1]	QM4-4241	WASTE INK ABSORBER UNIT A	Wia1	80
[2]	QM4-4242	WASTE INK ABSORBER UNIT B	Wia2	150
[3]	QM4-5751	WASTE INK ABSORBER UNIT	Wia6	200
[4]	QM4-5861	SUCTION FAN UNIT	\A/ia7	60
[5]	QM4-4261	SUCTION FAN DUCT UNIT	vvia/	80
[6]	QM4-4038	HEAD MANAGEMENT SENSOR UNIT	HMa1	2.9
[7]	QM4-4227	MIST FAN DUCT UNIT 2	Mi1	91.7

36" model

No Part number		Dort nome	Service mode	[Move indoors on the same floo s]
		Part liame	PARTS xx	Threshold value of counter (Unit: ml)
[1]	QM4-4241	WASTE INK ABSORBER UNIT A	Wia1	80
[2]	QM4-4242	WASTE INK ABSORBER UNIT B	Wia2	150
[3]	QM4-5354	WASTE INK ABSORBER UNIT E	Wia5	150
[4]	QM4-5751	WASTE INK ABSORBER UNIT	Wia6	200
[5]	QM4-5861	SUCTION FAN UNIT	W/io7	60
[6]	QM4-4261	SUCTION FAN DUCT UNIT	vvia/	80
[7]	QM4-4038	HEAD MANAGEMENT SENSOR UNIT	HMa1	2.9
[8]	QM4-4228	MIST FAN DUCT UNIT 1	Mi1	60.2
[9]	QM4-5738	MIST FAN DUCT UNIT 3	Mi2	09.2

44" model

No Part number		Part name	Service mode	[Move indoors on the same floo s]
	Fait number	Part fiame	PARTS xx	Threshold value of counter (Unit: ml)
[1]	QM4-4241	WASTE INK ABSORBER UNIT A	Wia1	80
[2]	QM4-4242	WASTE INK ABSORBER UNIT B	Wia2	150
[3]	QM4-4243	WASTE INK ABSORBER UNIT C	Wia3	150
[4]	QM4-5751	WASTE INK ABSORBER UNIT	Wia6	200
[5]	QM4-5861	SUCTION FAN UNIT	W/io7	60
[6]	QM4-4261	SUCTION FAN DUCT UNIT	vvia/	60
[7]	QM4-4038	HEAD MANAGEMENT SENSOR UNIT	HMa1	2.9
[8]	QM4-4227	MIST FAN DUCT UNIT 2	Mi1	91.6
[9]	QM4-4228	MIST FAN DUCT UNIT 1	Mi2	69.2

When replacing consumables, be careful about waste ink leakage.

A er replacing consumables, select [SERVICE MODE > PRINTER STATUS > PARTS COUNTER > RESET] in the

operatio panel to reset the parts counter information

3-1-5-4. Transportation procedure

- 1. Remove the paper.
- 2. If touch screen indicates to replace Maintenance Cartridge, replace Maintenance Cartridge.
- Tap [Maintenance] on the HOME screen.
 The [Maintenance] screen appears.
- 4. Tap [Prepare to move].
- Tap [Move indoors on the same floo, Move indoors to a di erent floo, or Transport outdoors].
 A confirm tion messa e appears.
- 6. Tap [Yes].

The printer is now prepared for transfer.

When the preparation is finished, i tructions appear on the ouch screen.

Remove the ink tanks before packing the printer.



• If consumables must be replaced, a message appears on the touch screen, and

ant preparation is disabled.

- 7. Open Ink Tank Cover to remove all ink tanks.
- 8. Push down release lever (A) as shown as you gently return all Ink Tank Lock Lever to their original positions



9. Close the ink tank cover.

At this point, ink is drawn out from inside the tubes.

A confirm tion messa e will appear when the process is finished



- Do not remove the maintenance cartridge except when the message indication
- replacement is displayed.
- If you remove the maintenance cartridge while ink is being removed, the ink may leak out.
- 10. Replace the current maintenance cartridge with a new one.
- 11. Press The power bu on and turn off pri ter

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Pack the printer.

1. Remove power cord, ground wire, and interface cable.



• Turn off the pri ter, then remove the power cord. If the power cord is removed before turning off the pri ter, insert the power cord, install the ink tank, and then do the transportation p eparation f om the start. Otherwise, the printer may be damaged.

2. Open the top cover.



3. Pinch the belt and install a belt stopper at the position sh wn in the figu e below.





4. Close the top cover.



5. Secure each cover of the printer with a tape in reverse order to unpacking the printer.



- 6. Remove the basket or the stacker by reversing installation p ocedure.
- 7. Remove the Stand by reversing the installation p ocedure, when it was a ached to the printer.
- 8. Disassemble and repackage the Stand by following the installation p ocedure in reverse.
- 9. Repack Roll Holder, holder stopper, and printer in shipping materials, and then package them in shipping box.

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3-1-6. Reinstallation

Assemble the Stand

1. Referring to the <u>3-1-2. Printer Stand Setup</u>, assemble the Stand.



Install the printer

1. Mount the printer on the assembled Stand and tig ten the screws firml .





2. Remove tape and packaging material a ached to the printer. Also open the Top Cover and remove stoppers and spacers inside the printer.



3. If using optional oll unit, refer to <u>3-1-3. Roll Unit Setup</u> and a ach roll unit to Stand.



4. Refer to <u>3-1-2. Printer Stand Setup</u> and a ach basket to Stand.



5. Connect the power cord to the Power Supply Connector on the back of the printer.



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- 6. Plug the power cord into the outlet.
- 7. Press the power bu on to turn the printer on.

When "Do you want to install the transported printer? Do not install the ink tanks yet." appears, tap Yes.

8. When instructions or loading ink tank appear on touch screen, open Ink Tank Cover and load ink tank.



9. A ach the Roll Holder to the Roll Media.



10. Load the Roll Media in the printer.



11. Install the soft are.

Note that the driver installation p ocedure varies depending on the type of connection



• The shocks incurred during transportation m y damage the print head. Therefore, print the nozzle check pa ern again a er installing the printer at the new location, an confirm th t the same print quality is kept by comparing the two output results before and a er transportation. If a y problem such as nozzle clogging cannot be resolved by print head cleaning, replace the print head with a new one.

3-2. Connection Settings for Remote Service

1) Outline

Remote service (NETEYE/e-Maintenance/imageWARE Remote) is printer remote monitoring service on the Internet based on the agreement with the customer.

The remote service can be used by the agreement, the registration of the priter information on U W, and enabling the E-RDS setting of the priter. The status change of the printer, counter information, p oblem information, tc. are transmised to UGW via the Internet.

Based on the agreement, perform the following setting ocedures:



- E-RDS (EMBEDDED-RDS): Monitoring program operating in the pri ter
- UGW (Universal Gateway Server): Remote service administrati e server
- HTTPS/SOAP protocol is used for the communication b tween UGW and the printer.



2) Settings procedures

< Advance preparation >

- 1. Before using this function, onfirm the ollowing items and perform the setting in a ance:
- (1) Confirm with the U W administrator that the printer for setting -RDS UGW is registered in UGW.

(2) Confirm the i ems below. If the settings necess y for internet connection a e not made, do those setting

- IP address setti
- DNS server setti
- Proxy server setting (If auth ti ation is equired, also perform the setting of auth ti ation information

	•	Obtain the network environment information of the in tallation lo ation f om the				
Ch	system administrator of the user's network environment.					
Note	•	The network-related setting is assumed o be performed by the user in advance. If				
		necessary settings e not performed, advise the user to perform the setting or d				
		the settings with his/her a eement.				

<E-RDS settings procedures>

The setting -RDS SWITCH ON/OFF, Communication est) required for enabling E-RDS functions an be performed both in service mode and user mode.

The setting in the s vice mode is required for displaying Record of use (Total print area/Ink consumed/ Duty counter).

For details, see <u>Details of E-RDS</u> in Chapter 7.

<E-RDS settings procedures (service mode)>

- 1. Launch the service mode.
- 2. Enable E-RDS function in se vice mode, and then execute the communication est.

(1) Select [SERVICE MODE > E-RDS].

[SERVICE MODE] >

SERVICE MODE		E-RDS
FUNCTION	Cł	-CERTIFICATE
ADJUSTMENT	_> E-	RDS SETUP
TEST PRINT	E-	RDS OTHERS
E-RDS		
OTHERS		

(2) Select [E-RDS SETUP].

E-RDS	E-RDS SETUP		
CA-CERTIFICATE	E-RDS SWITCH		
E-RDS SETUP	UGW ADDRESS		
E-RDS OTHERS	UGW PORT		
	COM-TEST		
	COM-LOG		

(3) Select [E-RDS SWITCH], and then click [ON].

E-RDS SETUP	ON
E-RDS SWITCH	E-RDS OFF
UGW ADDRESS	UGW A
UGW PORT	UGW P
COM-TEST	COM-T
COM-LOG 🗸	COM-

The E-RDS function is enabled

Note	• When the E-RDS function is enabled, the function t t communicates with UGW is enabled.
A	 The values of URL (UGW ADDRESS) and port number (UGW PORT) for UGW must not be changed unless otherwise indicated. If they are changed, a communication er or with UGW occurs.





Chapter 7

Chapter 1

(4) Select [COM-TEST], then click [YES].

E-RDS SETUP	0	
E-RDS SWITCH	Execute?	
UGW ADDRESS	->	
UGW PORT		
COM-TEST		
COM-LOG	YES	NO

The communication est with UGW is executed.



The message "CHECK NOW..." is displayed. When the test is finished, the ollowing message is displayed:

When the communication est was successful:

When the communication est was failed:

CHECK RESULT		CHECK RESULT	
ОК		NG	
[OK		0K

"CHECK RESULT/OK"

"CHECK RESULT/NG"

In both cases, select [OK] to return to the main menu.

When the communication est was successful, the connection s tting o remote service is completed. Go to (5).

When the communication est was failed, refer to [COM-LOG] to confirm the ailure information, and then check the network settings necess y for internet connection

E-RDS SETUP			COM-LOG	
UGW ADDRESS	~	No. 01	01234567	
UGW PORT	_`	2015/9/15 No.02	FFFFFFFF	
COM-TEST		2015/9/15	18:21	
COM-LOG		No. 03 2015/9/15	89ABCDEF	~
DISPLAY SETTING		No. 04	00000001	

A er the above confirm tion and s ttings, ollow < E-RDS settings ocedures (service mode) > again.

• The communication est cannot be cancelled during the test execution (no other
operations a e not be accepted until the est results are obtained).



Т

• E-RDS obtains schedule information and tarts monitoring by executing the communication est with UGW.

• For the error information in [Communi ation log], see <u>5) Error information displyed</u> in communication log [OM-LOG] to be described.



• When the E-RDS se g is enabled in the se g on the printer side without registering the printer information on U W, the status change of the printer, counter information, problem information, tc. are transmi ed to UGW via the Internet.

 In order that the applicable printer will be monitored by the remote services such as NETEYE, e-Maintenance, and imageWARE Remote, it is required to register the printer information in U W.

Chapter 2

Chapter 3

Chapter 4

Chapter 5

(5) Select [DISPLAY SETTING], and specify the ON/OFF settings of ecords of use (Total print area/Ink consumed/Duty counter) in user mode.

E-RDS SETUP	DISPLAY SETTING
UGW ADDRESS	TTL PRINT AREA
UGW PORT	INK CONSUMED
COM-TEST	DUTY CNT
COM-LOG	DISPLAY DECIMAL
DISPLAY SETTING	UNIT

This setting is eflec ed in [Printer information] > [ecords of use] in user mode.

[DISPLAY SETTING] >[TTL PRINT AREA]-[ON/OFF]-> [Total print area] ON/OFF setti[INK CONSUMED]-[ON/OFF]-> [Ink consumed] ON/OFF setti[DUTY CNT]-[ON/OFF]-> [Duty counter] ON/OFF setti

DISPLAY SETTING	Records of use
TTL PRINT AREA	Total print area
INK CONSUMED	Ink consumed
DUTY CNT	Duty counter
DISPLAY DECIMAL	
UNIT	

[DISPLAY SETTING] > [DISPLA	Y DECIMAL] >
[TTL PRINT AREA]-[<u>ON</u> /OFF]	-> [Total print area] decimal point ON/OFF setti
[INK CONSUMED]-[<u>ON</u> /OFF]	-> [Ink consumed] decimal point ON/OFF setti
[DUTY CNT]-[<u>ON</u> /OFF]	-> [Duty counter] decimal point ON/OFF setti

DISPLAY DECIMAL	Total print a	rea (m2)	
TTL PRINT AREA		6.2	
INK CONSUMED			
DUTY CNT	Ink consumed (ml)		
	PM	26.0	
	R	34.0	
	Duty counter (A	4 equivalent)	
	A	10	
	В	20	
	C	30	
	D	40	

F

-50
[DISPLAY SETTING] > [UNIT] >

[TTL PRINT AREA]-[LENGTH UNIT/A4/LETTER] -> [Total print area] unit/value setti [DUTY CNT]-[LENGTH UNIT/<u>A4</u>/LETTER]

-> [Duty counter] unit/value setti

UNIT	Total print	area (m2)
L PRINT AREA	6.2	
	Duty counter (A4 equivalent)
	A	10
	В	20
	C	30
	D	40
	Ē	150

Setting un	unit/value
[LENGTH UNIT]	m2
[A4]	A4 equivalent
[LETTER]	LTR equivalent

[E-RDS SETUP] > [DISPLAY SETTING] menu configuration

Fourth level	Fifth I vel	Six level	Contents
TTL PRINT AREA	<u>ON</u>		Display setti
	OFF		([Total print area] ON/OFF settin
INK CONSUMED	<u>ON</u>		Display setti
	OFF		([Ink consumed] ON/OFF settin
DUTY CNT	<u>ON</u>		Display setti
	OFF		([Duty counter] ON/OFF settin
DISPLAY DECIMAL	TTL PRINT AREA	<u>ON</u>	Decimal point display setti
		OFF	([Total print area] decimal point ON/OFF settin
	INK CONSUMED	<u>ON</u>	Decimal point display setti
		OFF	([Ink consumed] decimal point ON/OFF settin
	DUTY CNT	<u>ON</u>	Decimal point display setti
		OFF	([Duty counter] decimal point ON/OFF settin
UNIT	TTL PRINT AREA	<u>LENGTH UNIT</u>	Unit setti
		A4	([Total print area] unit/value settin
		LETTER	
	DUTY CNT	LENGTH UNIT	Unit setti
		<u>A4</u>	([Duty counter] unit/value settin
		LETTER	

* <u>Underlined</u> setting alues for each setting ([ON/OFF], [LE TH UNIT/A4/LETTER]) are defaults.

<E-RDS settings procedures (user mode)>

- 1. Launch the user mode.
- 2. Enable E-RDS function in user mode, and then xecute the communication est.
- (1) Select the following items:

[Device settings] > [Mon oring service setting



(2) Select [Enable/disable monitoring service], and click [Acti e].

tv	
Enable	Active
Comm	Inactive
Comm	
_	
	Enable Comm

The E-RDS function is enabled



• When the E-RDS function is enabled, the function t t communicates with UGW is enabled.

Chapter 5

Chapter 1

Chapter 2

Chapter 3

Chapter 4

Chapter 6

Chapter 8



The communication est with UGW is executed.



"Processing... Please wait momentarily." is displayed. When the test is finished, the ollowing message is displayed:

When the communication est was successful:

When the communication est was failed:



In both cases, select [OK] to return to the main menu.

When the communication est was successful, the connection s tting o remote service is completed. When the communication test was failed, refer to [Communication log] to confirm t e failure information, and then check the network settings necess of y for internet connection

Monitoring service settings	Communication log	
Enable/disable monitoring service	No.01 01234567	
Communication test	> No.02 FFFFFFF 2015/09/15 18:21	
	No.03 89ABCDEF	
	No.04 0000001	

A er the above confirm tion and s ttings, ollow <E-RDS settings procedures (user mode)> again.

	• The communication est cannot be cancelled during the test execution (no other			
	operations a e not be accepted until the est results are obtained).			
 E-RDS obtains schedule information and tarts monitoring by executing the communication est with UGW. For the error information in [Communi ation log], see <u>5) Error information dis</u> 				
				in communication log [OM-LOG] to be described.
				• When the E-RDS se g is enabled in the se g on the printer side without registering
	the printer information on U W, the status change of the printer, counter information,			
•	problem information, tc. are transmi ed to UGW via the Internet.			
Caution	In order that the applicable printer will be monitored by the remote services such as			
	NETEYE, e-Maintenance, and imageWARE Remote, it is required to register the printer			
	information in U W.			

C

Chapter 3

Chapter 4

Chapter 8

3) Notes on servicing

• A er the MAIN PCB UNIT is replacement, the remote service transmission schedule informatio is lost.

Based on the agreement on remote service (NETEYE/e-Maintenance/imageWARE Remote), if the E-RDS functio is enabled, it is necessary to execute a communicatio test a er replacing MAIN PCB UNIT.

If not executed, the subsequent transmission schedule informatio will not be acquired again, and will not be transmi ed to UGW. Therefore, this will a ect the provision of remote service to customers.

*see <u>7-3. PCB Replacement Mode</u> in Chapter 7 to be described.

• If the agreement of remote service (NETEYE/e-Maintenance/imageWARE Remote) of the printer becomes invalid,

set[E-RDS SWITCH] to [OFF] in service mode

or

set [Enable/disable monitoring service] to [Inacti e] in user mode.

No.	Question	Answers
1	Fails in communication est [COM-TEST].	If communication est [COM-TEST] fails, the following factors are possible:
		1. Network cable is removed or broken.
		2. Name resolution ails (host name is incorrect or DNS server has been halted).
		3. The network setting (IP ad ess/DNS server/proxy server (authenti ation)) is in orrect.
		4. The setting of W-ADDRESS or UGW-PORT has been changed.
		-> Check communication log [OM-LOG], and then see 5. Error information displyed in communication log [OM-LOG] on the next
		the error.
2	The UGW printer (E-RDS) is once unregistered and is	When the UGW printer (E-RDS) is unregistered, the records on the applicable printer (E-RDS) are deleted from the database. There
	registered again. However, the counter information of the	necessary to perform the communication est [COM-TEST] again a er the re-registration o avoid the registration of the appli able
	printer (E-RDS) is not reflec ed in UGW.	invalid. It is because the registration of the appli able printer becomes invalid a er seven days have elapsed since the re-registration
		(E-RDS) based on the judgment that the communication est has not been executed.
3	Can the printer be turned off during emote servicing?	While remote service is operated, the printer and the networking equipment such as HUB must be always powered ON. Do not lea
		and the networking equipment OFF over a long time
4	Timing of transmitting ta from the printer (E-RDS) to UGW	The start time and timing of ta transmitting e specified y the UGW side.
	and its data size	Transmi ed once per 12 hours, 16 hours and 7 days, and when a printer status changed.
		Each data size is approx. 150K byte in maximum.

next page to solve
erefore, it is
ble printer being
ation of the pri ter
leave the printer

5) Error information displayed in communication log [COM-LOG]

No.	Error code	Error strings	Details of errors	Solution
1	0500 0003	Communication est is not performed	E-RDS has restarted (printer reboot) with ERDS SWITCH = ON but the	Perform the communication est [COM-TEST].
			communication est had not been performed yet.	
2	8600 0002	Event Registration is ailed	Processing inside the printer (even registration) is ailed.	Turn on and off the pri ter.
	8600 0003			If this error recurs even a er turning OFF and ON, check the nece
	8600 0101			
	8600 0201			
	8600 0305			
	8600 0306			
	8600 0401			
	8600 0403			
	8600 0414			
	8600 0415		The booder of the UDL of the registered UCW is not in bit of error A	
3	8xxx 2001	URL Scheme error (not htt s)	The header of the URL of the registered UGW is not in htt 's format. A	Check UGW-ADDRESS setting tt s://au1.***)*1.
	0.000	Comun connection or or	An LICW expection or on Displayed in the event of a TCD/ID	Charly the network veloted estiting
4	8XXX 200A	Server connection er or	An UGW connection er or. Displayed in the event of a TCP/IP	Check the network-related setting
	0,000 2002	LUDL convertenceified is ille al		Check UCW ADDRESS setting the st/201 ****1
Б	8xxx 2002	ORL server specified is file al	UBL address setting a or	Check OGW-ADDRESS Setting It S.//a01. (1) 1.
6	9,007 2014	Prove connection or or	Drow connection or or	Chack provy conver address
0	8XXX 2014	Proxy connection er or	Cannot connect to provy server	check proxy server address.
7	8yyy 201F	Provy authenti ation er or	Provy authenti ation er or	Confirm user name and nas word required for logging into provu
ľ	0XXX 201L		The provy authenti ation ails	Communication pas word required for logging into proxy
8	8777 2028	Server certi ate error	Server certi ate error	Check the necessity of rewriting the printer fir ware (version upo
	0777 2020		The printer's route certi ate is upavailable	
9	8xxx 2046	Server certi ate expired	Server certi ate is expired	Set the printer time and dite correctly
	0,0,0,2040		The route certial ate registered with the printer has expired.	If the printer time and d te are correct, check the necessity of rev
10	8xxx 2058	Unknown error	Other communication er or	Perform communication est [COM-TEST] again a er an interval
10	0,000 2000			Then, if the same error occurs, check the UGW status with UGW a
11	8xxx 2063	SOAP Fault	SOAP communication er or	Confirm the t the value of UGW-PORT is 443.
12	8xxx 0101	Server response error (NULL)	UGW response error (UGW error code processing has failed)	Perform communication est [COM-TEST] again a er an interval.
			HTTPS communication er or	Then, if the same error occurs, check the UGW status with UGW a
13	8xxx 2004	Server response error (hex number)	UGW response error	Perform communication est [COM-TEST] again a er an interval.
		Hex number: Error detailed in the UGW	Communication with U W has been successful, but UGW responds	Confirm the er or code (hex number) from UGW displayed a er t
			error due to some sort of error.	
14	xxxx xxxx	Device internal error	Printer internal error	Turn on and off the pri ter.
			An error due to the device side	Or check the necessity of rewriting the pri ter fir ware (version u
15	8xxx 0201	Server schedule is invalid	During the communication est, there has been some kind of error in	Report to support department on detailed information when er o
	8xxx 0202		the schedule values passed from UGW.	A er any action is aken on the UGW side, perform communication
	8xxx 0203			
	8xxx 0204			
	8xxx 0206			
16	8xxx 2047	Server response time ou	UGW response time ou	When the error occurs during communication est, perform comm
	_		Late response due to network congestio	
17	8xxx 2048	Server not found	Server is not found (URL path is incorrect).	Check UGW-ADDRESS setting tt s://a01.***)*1.
18	84xx 0003	E-RDS switch is set OFF	E-RDS is disabled.	Perform the communication est [COM-TEST] with E-RDS SWITCH
19	0xxx 0003	Server schedule is not exist	Server schedule does not exist.	Check the printer settings tatus with the UGW administrator.
	_		Blank schedule data has been received from UGW.	
20	8xxx 2003	Network is not ready, try later	Network-related settings ve not been made for the printer.	Perform the network-related settings of the pr ter properly.
21	8xxx 2052	URL error	URL setting e or	Check UGW-ADDRESS setting tt s://a01.***)*1.
			Non-URL text string entered in URL field	
22	8xxx 2015	Proxy address resolution er or	Proxy server address resolution er or	Check the setting of the oxy server name.
23	8xxx 2029	Server certi ate verify error	The server certi ate verifi ation (URL check) er or.	Check UGW-ADDRESS setting tt s://a01.***)*1.
24	8xxx 200B	Server address resolution er or	UGW address resolution er or	Check UGW-ADDRESS setting tt s://a01.***)*1.

*1: Not included in this manual for security purpose.

	Chapter 1
sity of rewriting the priter fir ware (version upgrade).	
	Chapter 2
	Chapter 3
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riting the priter fir ware (version upgrade).	ter 4
dministrator.	
dministrator.	Cha
e message appears.	apter 5
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n est [COM-TEST] again.	Cha
unication est [COM-TEST] again a er an interval.	pter 6
ΩN	
	C
	napter 7



MAINTENANCE, CONSUMABLE PARTS

4-1. Outline	189
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4-1. Outline

This chapter explains the maintenance conducted by a service person.

Chapter 1

4-1. Outline 189 SM-17001E-00

4-2. Periodic Replacement Parts

Level	Periodic replacement parts
User	None
Service	None

Chapter 8

190 | **4-2. Periodic Replacement Parts** SM-17001E-00

4-3. Consumable Parts

24" model

Counter	er Part name Part nur		Life sheets/	Warning level threshold			Panel message*3		Items to be
name*1	i di citanic	Turthumber	A1*2	Level 1	Level 2	Unit	Level 1	Level 2	counted
Wia1	<u>WASTE INK ABSORBER</u> <u>UNIT A</u>	QM4-4241		718.77	741.00	ml	W1	EC43-4001	The number of dots
Wia2	<u>WASTE INK ABSORBER</u> <u>UNIT B</u>	QM4-4242	16000	1015.59	1047.00	ml	W1	EC44-4001	The number of dots
Wia6	<u>WASTE INK ABSORBER</u> <u>UNIT</u>	QM4-5751		938.96	968.00	ml	W1	EC47-4001	The number of dots
Wia7	SUCTION FAN UNIT SUCTION FAN DUCT UNIT	QM4-5861 QM4-4261	140000	203.70	210.00	ml	W1	EC41-4001	The number of dots
WF1	WASTE INK TANK UNIT	QM4-5862	-	106.70	110.00	ml	W1	EC48-4001	The number of dots
CR1	CARRIAGE UNIT	QM4-5318		27857142	30952380	(× 210) mm	W1	W2	CR scan length
CR2	CARRIAGE UNIT FILM, TIMING SLIT STRIP	QM4-5318 QD1-2177	50000	67500000	75000000	(× 1000000) dot	W1	W2	Total ejected ink amount
CR3	CARRIAGE UNIT	QM4-5318	25000	162000	180000	Times	W1	W2	The rotation number of carriage height changing cam
CR4	<u>INK TUBE UNIT</u>	QM4-5365	35000	6624000	7360000	Times	W1	EC32-4001	The number of CR scanning
CR5	<u>MULTI SENSOR UNI</u> T	QM4-5328	50000	67500000	75000000	(× 1000000) dot	W1	W2	Total ejected ink amount
CR6	FLEXIBLE CABLE UNIT	QM4-5855	35000	6624000	7360000	Times	W1	EC32-4001	The number of CR scanning
PG1				140400	156000	Times	W1	EC31-4001	The number of capping
PG2	PURGE UNIT	QM4-5309	25000	895500	995000	Times	W1	EC31-4001	The number of pump rotatio
PG3				25200	28000	Times	W1	EC31-4001	The number of wiping
HMa1	HEAD MANAGEMENT SENSOR UNIT	QM4-4038	50000	3.88	4.00	ml	W1	EC22-4001	The number of dots in Head Management Sensor Unit
MT1	<u>MOTOR, DC, 47.8W</u>	QK2-2200	28000	3060	3400	h	W1	W2	CR driving time
PL1	ACTIVE ROLL BRAKE UNIT	QM4-8678	1000000	27000	30000	h	W1	W2	Paper feeding tim
Mi1	MIST FAN DUCT UNIT 2	QM4-4227	25000	996.19	1027.00	ml	W1	EC25-4001	The number of dots in mist collecting b x
MS1	MULTI SENSOR UNIT	QM4-5328				%	-	W2	

*1: The counter name displayed when selecting [SE VICE MODE > PRINTER STATUS > PARTS COUNTER > COUNTER XX-X] in the operation pane

*2: The timing of eplacing consumables varies depending on print mode usage conditions
 Printi g condi ons: Canon Heavyweight Coated Paper HG 145gsm, standard mode/12.5 % × 3 color (CMY)
 + 6.8% (MBK) + 5.7% (BK) = 50% Duty

*3: If the threshold value of counter with an error code exceeds 100%, an error code is displayed and the printer stops. If not, predetermined message is displayed and the printer does not stop.

NOTE:

A er consumable parts are replaced, select [SERVICE MODE > PRINTER STATUS > PARTS COUNTER > RESET] to reset the parts counter.

36" model

Counter	Part name Part number Life sheets / Warning level threshold				hold	Panel message*3		Items to be	
name*1	rarchame	Tarthumber	A0*2	Level 1	Level 2	Unit	Level 1	Level 2	counted
Wia1	<u>WASTE INK ABSORBER</u> <u>UNIT A</u>	QM4-4241		718.77	741.00	ml	W1	EC43-4001	The number of dots
Wia2	<u>WASTE INK ABSORBER</u> <u>UNIT B</u>	QM4-4242	20000	1015.59	1047.00	ml	W1	EC44-4001	The number of dots
Wia5	<u>WASTE INK ABSORBER</u> <u>UNIT E</u>	QM4-5354	30000	855.54	882.00	ml	W1	EC49-4001	The number of dots
Wia6	<u>WASTE INK ABSORBER</u> <u>UNIT</u>	QM4-5751		938.96	968.00	ml	W1	EC47-4001	The number of dots
Wia7	SUCTION FAN UNIT	QM4-5861 QM4-4261	100000	203.70	210.00	ml	W1	EC41-4001	The number of dots
WF1	WASTE INK TANK UNIT	QM4-5862	-	106.70	110.00	ml	W1	EC48-4001	The number of dots
CR1	CARRIAGE UNIT	QM4-5319	25000	27857142	30952380	(× 210)mm	W1	W2	CR scan length
CR2	CARRIAGE UNIT FILM, TIMING SLIT STRIP	QM4-5319 QC5-6283	25000	67500000	75000000	(× 1000000) dot	W1	W2	Total ejected ink amount
CR3	<u>CARRIAGE UNIT</u>	QM4-5319	25000	162000	180000	Times	W1	W2	The rotation number of carriage height changing cam
CR4	INK TUBE UNIT	QM4-5859	25000	6624000	7360000	Times	W1	EC32-4001	The number of CR scanning
CR5	MULTI SENSOR UNIT	QM4-5328	25000	67500000	75000000	(× 1000000) dot	W1	W2	Total ejected ink amount
CR6	FLEXIBLE CABLE UNIT	QM4-5856	35000	6624000	7360000	Times	W1	EC32-4001	The number of CR scanning
PG1				140400	156000	Times	W1	EC31-4001	The number of capping
PG2	<u>PURGE UNIT</u>	QM4-5309	25000	895500	995000	Times	W1	EC31-4001	The number of pump rotatio
PG3				25200	28000	Times	W1	EC31-4001	The number of wiping
HMa1	HEAD MANAGEMENT SENSOR UNIT	QM4-4038	25000	3.88	4.00	ml	W1	EC22-4001	The number of dots in Head Management Sensor Unit
MT1	MOTOR, DC, 47.8W	QK2-2200	28000	3060	3400	h	W1	W2	CR driving time
PL1	ACTIVE ROLL BRAKE UNIT	QM4-8678	700000	27000	30000	h	W1	W2	Paper feeding tim
Mi1	MIST FAN DUCT UNIT 1	QM4-4228	26000	751.75	775.00	ml	W1	EC25-4001	The number of dots in mist collecting b x
Mi2	MIST FAN DUCT UNIT 3	QM4-5738	26000	751.75	775.00	ml	W1	EC25-4001	The number of dots in mist collecting b x
MS1	MULTI SENSOR UNIT	QM4-5328			-	%	-	W2	

*1: The counter name displayed when selecting [SE VICE MODE > PRINTER STATUS > PARTS COUNTER > COUNTER XX-X] in the operation pane

- *2: The timing of eplacing consumables varies depending on print mode usage conditions
 Printi g condi ons: Canon Heavyweight Coated Paper HG 145gsm, standard mode/12.5 % × 3 color (CMY)
 + 6.8% (MBK) + 5.7% (BK) = 50% Duty
- *3: If the threshold value of counter with an error code exceeds 100%, an error code is displayed and the printer stops. If not, predetermined message is displayed and the printer does not stop.

NOTE:

A er consumable parts are replaced, select [SERVICE MODE > PRINTER STATUS > PARTS COUNTER > RESET] to reset the parts counter.

Counter	Part name	Part number	Life sheets /	Warn	Warning level threshold			message*3	Items to be
name*1	, are name	, are namber	A0*2	Level 1	Level 2	Unit	Level 1	Level 2	counted
Wia1	<u>WASTE INK ABSORBER</u> <u>UNIT A</u>	QM4-4241		718.77	741.00	ml	W1	EC43-4001	The number of dots
Wia2	<u>WASTE INK ABSORBER</u> <u>UNIT B</u>	QM4-4242	30000	1015.59	1047.00	ml	W1	EC44-4001	The number of dots
Wia3	WASTE INK ABSORBER UNIT C	QM4-4243	30000	1489.92	1536.00	ml	W1	EC45-4001	The number of dots
Wia6	<u>WASTE INK ABSORBER</u> <u>UNIT</u>	QM4-5751		938.96	968.00	ml	W1	EC47-4001	The number of dots
Wia7	SUCTION FAN UNIT SUCTION FAN DUCT UNIT	QM4-5861 QM4-4261	100000	203.70	210.00	ml	W1	EC41-4001	The number of dots
WF1	WASTE INK TANK UNIT	QM4-5862	-	106.70	110.00	ml	W1	EC48-4001	The number of dots
CR1	CARRIAGE UNIT	QM4-5320	25000	27857142	30952380	(× 210)mm	W1	W2	CR scan length
CR2	CARRIAGE UNIT FILM, TIMING SLIT STRIP	QM4-5320 QD1-2178	25000	67500000	75000000	(× 1000000) dot	W1	W2	Total ejected ink amount
CR3	CARRIAGE UNIT	QM4-5320	25000	162000	180000	Times	W1	W2	The rotation number of carriage height changing cam
CR4	INK TUBE UNIT	QM4-5366	25000	6624000	7360000	Times	W1	EC32-4001	The number of CR scanning
CR5	MULTI SENSOR UNIT	QM4-5328	25000	67500000	75000000	(× 1000000) dot	W1	W2	Total ejected ink amount
CR6	FLEXIBLE CABLE UNIT	QM4-5857	35000	6624000	7360000	Times	W1	EC32-4001	The number of CR scanning
PG1				140400	156000	Times	W1	EC31-4001	The number of capping
PG2	PURGE UNIT	QM4-5309	25000	895500	995000	Times	W1	EC31-4001	The number of pump rotatio
PG3				25200	28000	Times	W1	EC31-4001	The number of wiping
HMa1	HEAD MANAGEMENT SENSOR UNIT	QM4-4038	25000	3.88	4.00	ml	W1	EC22-4001	The number of dots in Head Management Sensor Unit
MT1	MOTOR, DC, 47.8W	QK2-2200	28000	3060	3400	h	W1	W2	CR driving time
PL1	ACTIVE ROLL BRAKE UNIT	QM4-8678	700000	27000	30000	h	W1	W2	Paper feeding tim
Mi1	MIST FAN DUCT UNIT 2	QM4-4227	29000	996.19	1027.00	ml	W1	EC25-4001	The number of dots in mist collecting b x
Mi2	MIST FAN DUCT UNIT 1	QM4-4228	29000	751.75	775.00	ml	W1	EC25-4001	The number of dots in mist collecting b x
MS1	MULTI SENSOR UNIT	QM4-5328			-	%	-	W2	

*1: The counter name displayed when selecting [SE VICE MODE > PRINTER STATUS > PARTS COUNTER > COUNTER XX-X] in the operation pane

*2: The timing of eplacing consumables varies depending on print mode usage conditions
 Printi g condi ons: Canon Heavyweight Coated Paper HG 145gsm, standard mode/12.5 % × 3 color (CMY)
 + 6.8% (MBK) + 5.7% (BK) = 50% Duty

*3: If the threshold value of counter with an error code exceeds 100%, an error code is displayed and the printer stops. If not, predetermined message is displayed and the printer does not stop.

NOTE:

A er consumable parts are replaced, select [SERVICE MODE > PRINTER STATUS > PARTS COUNTER > RESET] to reset the parts counter.

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4-4. Periodic Maintenance

Level	Periodic maintenance
User	Printer cleaning (once a month)
Service	None

In order to maintain print quality or prevent troubles, recommend users to clean the printer periodically. For how to perform cleaning, refer to "Maintenance and Consumables" in User's Guide.

Recommend the users to confirm the the fir ware is the latest version. If it is not the latest one, recommend to upgrade the fir ware.

CHAPTER 5

ERROR CODE

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5-1. Error Code Outline

Outline

When trouble occurs on this product, error messages are indicated on the operation panel. Use s or service technicians need to check the indicated message and perform appropriate handling. Error messages are divided into three categories as follows.

Error Category	Descriptio	Handling
Hardware Error	The message appears when a trouble is caused by the printer.	User or Service
	* The error code is indicated only when the trouble needs to be	Technician
	handled by service technicians.	
Jam Error	The message appears when a trouble is caused by the printer	User
Operator Error and Warning	The error or warning appears when the trouble is caused by the	User
	user's operatio	

Message Example of Operation anel

Hardware Error	Jam Error	Operator Error or Warning
Hardware error EC01-2F90	Errór	Error
Printer error has occurred. Turn the device off, wait a while, and then turn it on again.	The paper is loaded askew. Lift the release lever and reload the paper.	The maintenance cartridge is not installed. Install the maintenance cartridge.
Printer information		

Error Code System

This product adopts di erent error code system by each category so that service technicians are able to

Error Category	Code Systems	Descriptio						
Hardware Error	ЕСхх-уууу	ECxx: Assumed defect part ^{*1}						
		yyyy: Defect description (D tail Code) ^{*2}						
Jam Error	aabbcc ^{*3}	aa: Jammed unit (printer or option part						
		bb: Jam type						
		cc: Jammed part						
Operator Error and Warning	уууу	Warning description and h w to handle ^{*2}						

troubleshoot with error codes

*1 How to read ECxx

Suspected	l Error Part	Suspected Error Part		
EC0x	Carriage Drive System	EC3x	Ink Supply System	
EC1x	Paper Feed System	EC4x	Waste Ink System	
EC2x	Print System	EC5x	Electric System	

*2-1 The ink color of the error codes subdivided by ink color is able to be identified – y its last digi	*2-1	. The ink o	color of th	ne error co	des subdiv	vided by	ink color	is able to	be identified	y its last dig
--	------	-------------	-------------	-------------	------------	----------	-----------	------------	---------------	----------------

Last Digit	Ink Color	Last Digit	Ink Color
ууу0	PBK	уууб	MBK
ууу1	Y	ууу8	GY
ууу2	М	ууу9	PGY
ууу3	С	уууА	R
ууу4	PM	уууВ	В
ууу5	PC	уууD	СО

*2-2 Detail Code (4yyy, 5yyy) requires removal of the error in service mode a er repairing.

*3 How to read Jam Code

	aa (Jammed unit)						
00	Printer Unit						
31	Lower Roll Unit						
FF	Unidentifi						
	bb (Jar	n type)					
11	Paper feed failure (roll paper)	40	Cut error				
12	Paper feed failure (cut paper)	51	Paper take-up failure (tape peel off of oll paper core roll, paper take-up in reverse direction)				
21	Paper skew	52	Paper take-up failure (motor defect, insuffici t torque)				
22	Paper edge detection ailure	00	unidentifi				
31	Paper flo tin , Paper folding						
	cc (Jammed part)						
11	Between UPPER PAPER ENTRY SENSOR and P (Between LOPWER PAPER ENTRY SENSOR an	PAPER ENTRY d PAPER ENT	SENSOR RY SENSOR)				
12	Between PAPER ENTRY SENSOR and the end	of paper feed	ling				
13	Between UPPER PAPER SET SET SENSOR - UP (Between LOWER PAPER SET SET SENSOR - LO	PER PAPER EI OWER PAPER	NTRY SENSOR ENTRY SENSOR)				
15	Between paper loading and the end of paper	paper)					
21	MULTI SENSOR						
30	Platen, Feed roller						
40	Cu er						
50	Lower roll unit (take-up settin						
00	Unidentifi	Unidentifi					

<Reference> Other error code system

Support Code: The error code for users indicated on PCs and online manuals. For service technicians,

see the error code for service technicians described in this manual to perform

troubleshooting

Alarm Code: The error code to control operator error and warning in UGW.

(90xxxx or 01xxxx is indicated in UGW (xxxx is the alarm code).)

How to Check Error History

Error history is able to be checked with the operation panel, tatus print, service log (PRINT INF), and UGW.

The checkable error category is as follows.

Error History	Operation anel	Status Print	Service Log	UGW
			(PRINT INF)	
Hardware Error	indicated	indicated	indicated	indicated
Jam Error	Indicated ^{*1}	indicated ^{*1}	indicated ^{*2}	indicated
Operator Error / Warning	Indicated/	Indicated/indicated	Indicated/indicated	Indicated ^{*2} /
	not indicated			indicated ^{*2}

*1 Indicated in operator error.

*2 Not all of the errors are indicated.

5-2. Error Code Table

Hardware Error

The description (phenomenon, d tected condition, ountermeasure) will be displayed by clicking the error codes listed below.

EC01-2F90	<u>EC17-2023</u>	<u>EC21-2F54</u>	EC23-2F32	EC3F-2F41
EC01-2F95	EC17-2024	EC21-2F56	<u>EC24-4049</u>	EC3F-4120
EC02-2F42	EC17-2028	EC21-2F57	<u>EC24-404A</u>	EC3F-4121
EC03-403A	EC17-2029	EC21-2F58	<u>EC24-404B</u>	EC3F-4122
EC03-4061	EC17-202D	EC21-2F59	EC25-2F16	EC3F-4123
EC04-2F31	EC17-202F	EC21-2F60	EC25-4001	EC3F-4126
<u>EC04-2F91</u>	EC17-2039	EC21-2F61	EC31-2F09	EC41-4001
EC05-2F92	<u>EC17-203A</u>	EC21-2F62	<u>EC31-2F10</u>	EC43-4001
<u>EC06-2F9A</u>	EC17-203D	EC21-2F63	<u>EC31-2F1B</u>	<u>EC44-4001</u>
<u>EC06-2F9B</u>	EC19-2F21	EC21-2F64	<u>EC31-2F1C</u>	EC45-4001
<u>EC06-2F9C</u>	EC1B-2030	EC21-2F67	EC31-2F1D	<u>EC47-4001</u>
EC07-2F19	EC1B-2031	EC21-2F6D	<u>EC31-2F1E</u>	<u>EC48-4001</u>
<u>EC07-4060</u>	EC1B-2032	EC21-2F70	<u>EC31-2F1F</u>	<u>EC49-4001</u>
EC0F-2F93	EC1B-2033	<u>EC21-2F71</u>	EC31-2F22	EC51-203C
EC0F-2F96	EC1C-2034	EC21-2F72	EC31-2F23	EC51-2F07
<u>EC11-2F2A</u>	EC1C-2035	EC21-2F73	<u>EC31-2F94</u>	EC51-2F14
<u>EC12-2F29</u>	EC1C-2036	EC21-2F74	EC31-4001	EC51-2F15
<u>EC12-2F2B</u>	EC1C-2037	EC21-2F75	EC32-4001	EC51-2F38
<u>EC12-2F2C</u>	EC1D-2050	EC21-2F7D	EC33-4020	EC51-2FDE
EC13-2F17	EC1E-2053	<u>EC21-2F7E</u>	<u>EC33-4021</u>	EC51-3000
<u>EC15-2E23</u>	EC21-282D	<u>EC21-2F7F</u>	EC33-4022	EC51-3001
EC16-2021	<u>EC21-282E</u>	EC22-2F30	EC33-4023	EC51-3004
EC16-2022	EC21-2F43	EC22-2F47	<u>EC33-4026</u>	EC51-3005
EC16-2027	EC21-2F44	EC22-4001	EC34-2602	EC51-3006
<u>EC16-202A</u>	EC21-2F50	EC23-260E	EC34-2605	EC51-3100
<u>EC16-202E</u>	EC21-2F51	EC23-2F11	<u>EC34-2F3B</u>	<u>EC51-3101</u>
EC16-2038	EC21-2F53	EC23-2F18	EC3F-2F40	EC51-3102

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EC51-3103	<u>EC54-290A</u>
EC51-3104	<u>EC54-290C</u>
<u>EC51-3105</u>	<u>EC54-401A</u>
EC51-3106	<u>EC54-405A</u>
EC51-3107	<u>EC54-405B</u>
EC51-3108	<u>EC54-4080</u>
EC51-3109	<u>EC54-4081</u>
EC51-3110	<u>EC55-2F20</u>
EC51-3301	EC55-2F24
EC51-3302	EC55-2F6C
EC51-3303	<u>EC56-2FE0</u>
EC51-3304	<u>EC57-4040</u>
EC51-3306	<u>EC57-404F</u>
EC51-3307	EC58-2F12
EC51-3308	EC59-3002
EC51-3309	EC59-3003
EC51-330A	
EC51-4041	
EC51-4042	
EC51-4045	
EC51-4046	
EC51-4047	
EC51-404C	
EC51-404D	
<u>EC51-4070</u>	
EC51-4071	
EC51-4072	
EC51-5001	
EC51-5002	
EC51-5003	
EC52-4038	
FC52-4039	

200 | **5-2. Error Code Table** SM-17001E-00

Jam Code

The description (phenomenon, d tected condition, ountermeasure) of the corresponding jam error will be displayed by clicking the error codes listed below.

<u>0x001111</u>	<u>0x001215</u>	<u>0x003130</u>	<u>0x311112</u>	<u>0x315250</u>
<u>0x001112</u>	<u>0x002121</u>	<u>0x004040</u>	<u>0x311113</u>	<u>0xFF0000</u>
<u>0x001113</u>	<u>0x002221</u>	<u>0x311111</u>	<u>0x315150</u>	

5-2. Error Code Table 201 SM-17001E-00

Operator Error and Warning

The description jam occurrence, part, countermeasure) of the corresponding error code will be displayed by clicking the error codes listed below.

<u>1000</u>	<u>1901</u>	<u>2052</u>	<u>2546</u>	<u>27D6</u>
<u>1001</u>	<u>1902</u>	<u>2054</u>	<u>2580</u>	<u>27E0</u>
<u>1002</u>	<u>1903</u>	<u>2055</u>	<u>2581</u>	<u>27E1</u>
<u>1003</u>	<u>1904</u>	<u>2056</u>	<u>2582</u>	<u>27E2</u>
<u>1006</u>	<u>1905</u>	<u>2057</u>	<u>2583</u>	<u>27E3</u>
<u>1012</u>	<u>1906</u>	<u>2310</u>	<u>2586</u>	<u>27E6</u>
<u>1021</u>	<u>1907</u>	<u>2311</u>	<u>25B0</u>	<u>2800</u>
<u>1051</u>	<u>1908</u>	2312	<u>25B1</u>	<u>2802</u>
<u>1052</u>	<u>200C</u>	<u>2313</u>	<u>25B2</u>	<u>280D</u>
<u>1053</u>	<u>200D</u>	<u>2316</u>	<u>25B3</u>	<u>2812</u>
<u>1054</u>	<u>200E</u>	<u>2405</u>	<u>25B6</u>	<u>2816</u>
<u>1055</u>	<u>200F</u>	<u>2406</u>	<u>2700</u>	<u>2817</u>
<u>1400</u>	<u>2010</u>	<u>2407</u>	<u>2701</u>	<u>2818</u>
<u>1401</u>	<u>2016</u>	<u>2408</u>	2702	<u>2819</u>
<u>1402</u>	<u>2017</u>	<u>2409</u>	<u>2703</u>	<u>281A</u>
<u>1403</u>	<u>2018</u>	<u>240A</u>	2706	<u>281B</u>
<u>1406</u>	<u>2019</u>	<u>2500</u>	<u>2710</u>	<u>2829</u>
<u>1410</u>	<u>201C</u>	<u>2501</u>	<u>2711</u>	<u>2901</u>
<u>1411</u>	<u>201D</u>	<u>2502</u>	2712	<u>2902</u>
<u>1412</u>	<u>2020</u>	<u>2503</u>	<u>2713</u>	<u>2905</u>
<u>1413</u>	<u>2025</u>	<u>2506</u>	<u>2716</u>	<u>2906</u>
<u>1416</u>	<u>2026</u>	<u>2520</u>	<u>2730</u>	<u>2907</u>
<u>1701</u>	<u>202B</u>	<u>2521</u>	<u>2731</u>	<u>2920</u>
<u>1702</u>	<u>202C</u>	2522	<u>2732</u>	<u>2921</u>
<u>1703</u>	<u>2040</u>	<u>2523</u>	<u>2733</u>	<u>2D03</u>
<u>1706</u>	<u>2041</u>	<u>2526</u>	<u>2736</u>	<u>2D04</u>
<u>1707</u>	2042	<u>2540</u>	<u>27D0</u>	<u>2E02</u>
<u>1708</u>	2043	<u>2541</u>	<u>27D1</u>	<u>2E08</u>
<u>1709</u>	<u>2044</u>	<u>2542</u>	<u>27D2</u>	<u>2E09</u>
<u>1900</u>	<u>2051</u>	<u>2543</u>	<u>27D3</u>	<u>2E0A</u>

<u>2E0B</u>	<u>2EA6</u>	<u>3026</u>
<u>2E0C</u>	<u>2EA7</u>	<u>3027</u>
<u>2E0D</u>	<u>2EA8</u>	<u>3028</u>
<u>2E0E</u>	<u>2EA9</u>	<u>3029</u>
<u>2E0F</u>	2EAA	<u>3030</u>
<u>2E15</u>	2EAB	<u>3031</u>
<u>2E1B</u>	2EBC	<u>3032</u>
<u>2E1C</u>	<u>2F6A</u>	<u>3033</u>
<u>2E20</u>	<u>2F6B</u>	<u>3034</u>
<u>2E21</u>	<u>2F7C</u>	<u>3035</u>
<u>2E30</u>	3000	<u>3200</u>
<u>2E31</u>	<u>3001</u>	<u>3201</u>
<u>2E32</u>	<u>3002</u>	<u>3305</u>
<u>2E33</u>	<u>3003</u>	
<u>2E34</u>	<u>3004</u>	
<u>2E38</u>	3005	
<u>2E3A</u>	3006	
<u>2E3B</u>	<u>3007</u>	
<u>2E3C</u>	3008	
<u>2E3D</u>	<u>3009</u>	
<u>2E3E</u>	<u>3010</u>	
<u>2E3F</u>	<u>3011</u>	
<u>2E40</u>	<u>3012</u>	
<u>2E41</u>	<u>3013</u>	
<u>2E42</u>	<u>3014</u>	
<u>2E43</u>	<u>3015</u>	
<u>2E45</u>	<u>3016</u>	
<u>2E75</u>	<u>3017</u>	
<u>2EA1</u>	<u>3018</u>	
<u>2EA2</u>	<u>3022</u>	
<u>2EA3</u>	<u>3023</u>	
<u>2EA4</u>	<u>3024</u>	
<u>2EA5</u>	<u>3025</u>	

Chapter 3

Chapter 4

Chapter 5

Chapter 6

5-3. Detail of Hardware Error

Detail of Hardware Error

Carriage Drive System

E	Detail		Descriptio			
Code			Гинан	Corrigge everyland (average to veryland 4001)		
ECOT	2F90		Error	Carriage overload (support number: 4801)		
			etection	I ne motor keeps 100% output. In addition, CARRI GE UNIT scans more than a		
			escriptio	constant length.		
			Chaele ata:	Handling		
			Check stal	n on the carriage shart		
		1	Go to 2			
		1	Stain adh	eres		
			Perfor	m cleaning of the shaft and replace BUSHING / CLEANER KIT		
			Perform [[DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system		
			No probl			
			Replac	e carriage motor.		
			Abnorma	- <u></u>		
		2	Failure	in ACC. SENSOR CHECK or CR VIBRATIONCHECK		
			Rep	lace <u>CARRIAGE UNIT</u> .		
			Failure	in LONG FFC CHECK		
			Rep	ace <u>FLEXIBLE CABLE UNIT</u> .		
EC01	2F95		Error	Carriage drive timeout (support number: 4801		
			etection	CARRIAGE UNIT does not finish driving within the scheduled time		
			escriptio	Handling		
		-	Check the	items helow		
			a) Stain o	n the carriage shaft		
			b) Cable	connection of the arriage motor.		
			c) Looser	ness and abrasion of BELT, CARRIAGE.		
			Appropri	ate		
		1	Go to 2	2.		
			Inapprop	riate		
			a) Perf	orm cleaning of the shaft and eplace <u>BUSHING / CLEANER KIT</u> .		
			b) Con	nect the cable.		
			c) Rep	ace <u>BELT, CARRIAGE</u> .		
			Perform [[DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system.		
			No probl	em		
			Keplac	e <u>carriage motor</u> .		
		2				
			Failure	in LONG FEC CHECK		
			Ren	ace FLEXIBLE CABLE UNIT.		
			I nep			

Chapter 7

To Error Code Table

204 5-3. Detail of Hardware Error SM-17001E-00



C02	2F42		Error	Complete non-ejection in one line of n zzles (support number: 1492)	
			Detection	Complete non-ejection in one of t o print head nozzle lines of one color is detected	
		D	escriptio	in non-ejection d tection	
		H		Handling	
			When the printer does not recover with restartin , check if the ink is filling i to tubes.		
		1	Go to	2. (Insufficient ink in the print head or print head defect is suspected.)	
			Ink is no	ot fille	
			Replac	ce <u>TUBE UNIT</u> .	
			Perform [DIAGNOSIS>HEAD CNT CHECK] and check the condition of pri t head contacting part	
			Proper conditio		
		2	Go to	3.	
			Abnorma	al conditio	
			must k	the surface of the print head contacting part. (The – aste cloth without a hap	
			Perform d	leep cleaning and print nozzle check pagern.	
			Proper nozzle pa ern		
		3	Comp	lete.	
			Imprope	r nozzle pa ern	
		_	Replac	ce the print head.	
:03	403A		Error	Printer VH recognition allure (support number: B20A)	
)etection		
		D	escriptio	The printer cannot confirm VH output.	
				Handling	
			Check the	connection of FLEXIBLE CABLE UNI .	
		1	(both MA	IN PCB UNIT side and CARRIAGE RELAY PCB UNIT side)	
			Proper c	onnectio	
		⊢	Benlace C		
			The problem is resolved		
		2	Comp	lete.	
			The prob	olem is not resolved	
	40.64	_	Replac	ce <u>FLEXIBLE CABLE UNIT</u> .	
:03	4061		Error	Carriage unit for wrong model installed (support number: 5106)	
)etection		
		D	escriptio	The CARRIAGE UNIT for a di erent printer model is connected.	
				Handling	
			Check the	e items below.	
			a) Conne	ection f FLEXIBLE CABLE UNIT.	
			(both	MAIN PCB UNIT side and CARRIAGE RELAY PCB UNIT side)	
		1	Proper of	onnection and orrect model	
			Go to	2.	
			Imprope	r connection or w ong model.	
			a) Con	nect FLEXIBLE CABLE UNIT again.	
			b) Inst	all the proper CARRIAGE RELAY PCB UNIT model.	
			Replace tl	he <u>CARRIAGE UNIT</u> .	
			The prob	blem is resolved	
		2		IETE.	
		2	Replac	The MAIN PCB LINIT (Disassembly & Reassembly for 24" model for 36" model for 44"	
			mode		
			• A er	 r replacement, perform PCB replacement mode and necessary adjustments.	

EC04	2F31	_	Accuracy error of carriage parking position in non-ejection tectio		
		Error	(support number: 4801)		
		Detection	The parked position of the arriage is slightly off when per orming non-ejection		
		Descriptio	detection or adju ting the head mana ement sensor position		
			Handling		
		Check the	items below.		
		a) Install	ation, sc atch, and stain on FILM, TIMING SLIT STRIP.		
		b) Stain (b) Stain on the carriage snaπ		
		1 Fine con	2		
		Installati	2. on ailure scratch or stain is found		
		a) F	Perform cleaning or replace FILM. TIMING SLIT STRIP.		
		b) F	Perform cleaning of shaft and eplace <u>BUSHING / CLEANER KIT</u> .		
		Replace T	UBE UNIT.		
		The prob	The problem is resolved		
		2 Comp	Complete.		
		The prob	The problem is not resolved		
5004	2504	Replac	ce <u>CARRIAGE UNIT</u> .		
EC04	2191	Error	Carriage encoder error (support number: 4801)		
		Detection	in the CARRIAGE LINIT scanning direction		
		Descriptio	Handling		
		Check the	items below.		
		a) Install	ation, sc atch, and stain on FILM, TIMING SLIT STRIP.		
		b) Conne	ction fFLEXIBLE CABLE UNIT. (When the error occurs a er connecting and		
		discor	necting the able)		
		1 Appropri	ate		
		Go to	2.		
		Inapprop	priate		
		a) Peri	form cleaning or replace <u>FILM, TIMING SLIT STRIP</u> .		
		Boplace C			
			alem is resolved		
		2 Comp	lete.		
		The prob	lem is not resolved		
		Replac	e <u>FLEXIBLE CABLE UNIT</u> .		

Chapter 2

Chapter 3

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Chapter 5



Point Each function of se vice mode is operable only when the printer successfully enters in service mode.

EC05	2F92		Error	Carriage movement disabled (support number: 4801)		
			etection	The motor keeps 100% output. In addition, CARRI GE UNIT stops less than a constant scapping length	Jdt	
			escriptio	Handling	er	
			Check the	items below.		
			a) Cable o	connection of the arriage motor.		
) b) Looser	less and abrasion of BELT, CARRIAGE.		
			c) Obstac	le.		
			d) The po	sition fFILM, TIMING SLIT STRIP	Ch	
		1	Appropria	ate without any obstacle	ap	
		Ľ	Go to 2	2.	te	
			Inapprop	riate or obstacles are blocking		
			a) Con	nect the cable.		
			b) Repl	ace <u>BELI, CARRIAGE</u> .		
			d) Plac	ove the obstacle.		
		H	Replace ca			
			The proh	lem is resolved	, na	
		2	Compl	ete.	tpt	
		Γ.	The prob	lem is not resolved	er	
			Go to 3	3.	0	
			Replace C/	ARRIAGE UNIT.	1	
			The prob	lem is resolved		
		3	Compl	ete.		
				The prob	lem is not resolved	<u> </u>
			Replac	e <u>FLEXIBLE CABLE UNIT</u> .	na	
EC06	2F9A	⊢	Error	Carriage lift mo or error (support number: 4801)	ote	
			etection	Overload on the lift mo or.	r 4	
			escriptio			
			Charala tha	Handling	4	
			check the	Items below.		
			h) Posi o	ning CARRIAGE LINIT at the home nosition and hu against the lift unit turn the		
			gear of	IFIET UNIT manually and check if the load is abnormally heavy		
			Appropria	ate	ap:	
			Replac	e CARRIAGE UNIT.	ler	
			Inapprop	riate	ۍ ا	
			Replac	e <u>LIFT UNIT</u> .		
		1				
					C	
					na	
					Id	
					er	
					6	
				CARRIAGE UNIT is butting ainst the lift unit t the home position side.		
EC06	2F9B		Error	Carriage lift sensor er or (support number: 4801)	S	
			etection	· Although the lift otor is rotang with generang larger than a constant torque,	a a	
		De	escriptio	CARRIAGE LIFT SENSOR cannot detect ON/OFF.	ite	
				Handling	r /	
			Check the	items below.		
		1	a) Cable o	connection of CARRI GE LIFT SENSOR.		
		1	b) Execut	e [DIAGNOSIS > I/O DISPLAY] and check the CARRIAGE LIFT SENSOR operation		
		1	Appropria	ate		
		1	Replac	e <u>CARRIAGE RELAY PCB UNIT</u>	Ch	
		1	Inapprop	riate	ap	
			Replac	e <u>LIFT UNII</u> .		

To Error Code Table 5-3. Detail of Hardware Error | 207 SM-17001E-00

00

0	ECOE	2500	Error	Carriage decking error (support number: 4801)			
ha	ECUO	2F9C	Error	• Although the lift otor is rota ng generated torque is smaller than a constant			
pte			Detection	value. In addi on, CARRIAGE LIFT SENSOR cannot detect ON/OFF.			
r 1			Descriptio	CARRIAGE UNIT does not move to the home posi on during detec ng home			
				posi on.			
				Handling			
			Check th	ie items below.			
0			b) If CA	RRIAGE UNIT is at the home position, check if the joupling part is damaged.			
hap			Approp	riate			
ote			Got	D <u>EC05-2F92</u> error.			
r 2			Inappro	opriate			
				to to <u>EC05-2F92</u> error.			
				Replace LIFT UNIT.			
			w	hen the coupling at CARRIAGE UNIT side is damaged			
Ch			1	Replace <u>CARRIAGE UNIT</u> .			
ap							
ter							
ω							
Cha							
pt							
er 4	FC07	2510	Error	Coupling part			
-		2513	Detection				
			Descriptio				
			Handling				
				Handling			
Q			Perform	Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. in ACC_SENSOR_CHECK or CR_VIRPATIONCHECK			
Chap			Perform Failure Repl	Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. in ACC. SENSOR CHECK or CR VIBRATIONCHECK ace CARRIAGE UNIT.			
Chapter			Perform Failure Repl 1 Failure	Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. in ACC. SENSOR CHECK or CR VIBRATIONCHECK ace CARRIAGE UNIT. in LONG FFC CHECK			
Chapter 5			Perform Failure Repl 1 Failure Repl	Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. in ACC. SENSOR CHECK or CR VIBRATIONCHECK ace CARRIAGE UNIT. in LONG FFC CHECK ace FLEXIBLE CABLE UNIT.			
Chapter 5			Perform Failure Repl 1 Failure Repl * If the	Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. in ACC. SENSOR CHECK or CR VIBRATIONCHECK ace CARRIAGE UNIT. in LONG FFC CHECK ace FLEXIBLE CABLE UNIT. error occurred a er reseating the xible cables, check the condition of xible			
Chapter 5	FC07	4060	Perform Failure Repl 1 Failure Repl * If the cables'	Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. in ACC. SENSOR CHECK or CR VIBRATIONCHECK ace CARRIAGE UNIT. in LONG FFC CHECK ace FLEXIBLE CABLE UNIT. error occurred a er reseating the xible cables, check the condition of xible connection Carriage EEPROM error (support number: 6820)			
Chapter 5	EC07	4060	Perform Failure Repl 1 Failure Repl * If the cables' Error	Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. in ACC. SENSOR CHECK or CR VIBRATIONCHECK ace CARRIAGE UNIT. in LONG FFC CHECK ace FLEXIBLE CABLE UNIT. error occurred a er reseating the xible cables, check the condition of xible connection Carriage EEPROM error (support number: 6820) Memo: Remove the error in service mode when handling is completed.			
Chapter 5 Cha	EC07	4060	Perform Failure Repl 1 Failure Repl * If the cables' Error Detection	Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. in ACC. SENSOR CHECK or CR VIBRATIONCHECK ace CARRIAGE UNIT. in LONG FFC CHECK ace FLEXIBLE CABLE UNIT. error occurred a er reseating the xible cables, check the condition of xible connection Carriage EEPROM error (support number: 6820) Memo: Remove the error in service mode when handling is completed. EEPROM defect in the carriage PCB is detected			
Chapter 5 Chapte	EC07	4060	Perform Failure Repl 1 Failure Repl * If the cables' Error Detection Descriptio	Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. in ACC. SENSOR CHECK or CR VIBRATIONCHECK ace CARRIAGE UNIT. in LONG FFC CHECK ace FLEXIBLE CABLE UNIT. error occurred a er reseating the xible cables, check the condition of xible connection Carriage EEPROM error (support number: 6820) Memo: Remove the error in service mode when handling is completed. EEPROM defect in the carriage PCB is detected.			
Chapter 5 Chapter 6	EC07	4060	Perform Failure Repl 1 Failure Repl * If the cables' Error Detection Descriptio	Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. in ACC. SENSOR CHECK or CR VIBRATIONCHECK ace CARRIAGE UNIT. in LONG FFC CHECK ace FLEXIBLE CABLE UNIT. error occurred a er reseating the xible cables, check the condition of xible connection Carriage EEPROM error (support number: 6820) Memo: Remove the error in service mode when handling is completed. EEPROM defect in the carriage PCB is detected. Handling			
Chapter 5 Chapter 6	EC07	4060	Perform Failure Repl 1 Failure Repl * If the cables' Error Detection Descriptio	Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. in ACC. SENSOR CHECK or CR VIBRATIONCHECK ace CARRIAGE UNIT. in LONG FFC CHECK ace FLEXIBLE CABLE UNIT. error occurred a er reseating the xible cables, check the condition of xible connection Carriage EEPROM error (support number: 6820) Memo: Remove the error in service mode when handling is completed. EEPROM defect in the carriage PCB is detected. Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. blem			
Chapter 5 Chapter 6	EC07	4060	Perform Failure Repl 1 Failure Repl * If the cables' Error Detection Descriptio Perform No pro 1 Repl	Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. in ACC. SENSOR CHECK or CR VIBRATIONCHECK ace CARRIAGE UNIT. in LONG FFC CHECK ace FLEXIBLE CABLE UNIT. error occurred a er reseating the xible cables, check the condition of xible connection Carriage EEPROM error (support number: 6820) Memo: Remove the error in service mode when handling is completed. EPROM defect in the carriage PCB is detected. Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. blem ace CARRIAGE UNIT.			
Chapter 5 Chapter 6	EC07	4060	Perform Failure Repl * If the cables' Error Detection Descriptio Perform No pro 1 Repl Failure	Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. in ACC. SENSOR CHECK or CR VIBRATIONCHECK ace CARRIAGE UNIT. in LONG FFC CHECK ace FLEXIBLE CABLE UNIT. error occurred a er reseating the xible cables, check the condition of xible connection Carriage EEPROM error (support number: 6820) Memo: Remove the error in service mode when handling is completed. EPROM defect in the carriage PCB is detected. Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. blem ace CARRIAGE UNIT. in LONG FFC CHECK			
Chapter 5 Chapter 6 Ch	EC07	4060	Perform Failure Repl 1 Failure Repl * If the cables' Error Detection Descriptio Perform No pro 1 Repl Failure Repl	Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. in ACC. SENSOR CHECK or CR VIBRATIONCHECK ace <u>CARRIAGE UNIT</u> . in LONG FFC CHECK ace FLEXIBLE CABLE UNIT. error occurred a er reseating the xible cables, check the condition of xible connection Carriage EEPROM error (support number: 6820) Memo: Remove the error in service mode when handling is completed. EPROM defect in the carriage PCB is detected. Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. blem ace CARRIAGE UNIT. in LONG FFC CHECK ace FLEXIBLE CABLE UNIT. Carriage izm error (support number: 1318)			
Chapter 5 Chapter 6 Chap	EC07 EC0F	4060 2F93	Perform Failure Repl * If the cables' Error Detection Descriptio Perform No pro 1 Repl Failure Repl	Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. in ACC. SENSOR CHECK or CR VIBRATIONCHECK ace CARRIAGE UNIT. in LONG FFC CHECK ace FLEXIBLE CABLE UNIT. error occurred a er reseating the xible cables, check the condition of xible connection Carriage EEPROM error (support number: 6820) Memo: Remove the error in service mode when handling is completed. EEPROM defect in the carriage PCB is detected. Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. blem ace CARRIAGE UNIT. in LONG FFC CHECK] ace CARRIAGE UNIT. in LONG FFC CHECK ace FLEXIBLE CABLE UNIT. Carriage jam error (support number: 1318) • Only this error code assigns jam code also.			
Chapter 5 Chapter 6 Chapter	EC07 EC0F	4060 4060 2F93	Perform Failure Repl 1 Failure Repl * If the cables' Error Detection Descriptio Perform No pro 1 Repl Failure Repl Error	Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. in ACC. SENSOR CHECK or CR VIBRATIONCHECK ace CARRIAGE UNIT. in LONG FFC CHECK ace FLEXIBLE CABLE UNIT. error occurred a er reseating the xible cables, check the condition of xible connection Carriage EEPROM error (support number: 6820) Memo: Remove the error in service mode when handling is completed. EEPROM defect in the carriage PCB is detected. Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. blem ace CARRIAGE UNIT. in LONG FFC CHECK ace FLEXIBLE CABLE UNIT. Carriage jam error (support number: 1318) only this error code assigns jam code also. The detected value of acceleration sensor oward Y and Z direction xceeds the			
Chapter 5 Chapter 6 Chapter 7	EC07 EC0F	4060 2F93	Perform Failure Repl * If the cables' Error Detection Descriptio Perform No pro 1 Repl Failure Repl Failure Repl	Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. in ACC. SENSOR CHECK or CR VIBRATIONCHECK ace CARRIAGE UNIT. in LONG FFC CHECK ace FLEXIBLE CABLE UNIT. error occurred a er reseating the xible cables, check the condition of xible connection Carriage EEPROM error (support number: 6820) Memo: Remove the error in service mode when handling is completed. EEPROM defect in the carriage PCB is detected. Handling IDIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. blem ace CARRIAGE UNIT. Carriage Jam error (support number: 1318) only this error code assigns jam code also. The detected value of acceleration sensor oward Y and Z direction xceeds the threshold.			
Chapter 5 Chapter 6 Chapter 7	EC07 EC0F	4060 2F93	Perform Failure Repl 1 Failure Repl * If the cables' Error Detection Descriptio Perform No pro 1 Repl Failure Repl Error Detection Descriptio	Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. in ACC. SENSOR CHECK or CR VIBRATIONCHECK acc CARRIAGE UNIT. in LONG FFC CHECK acc FLEXIBLE CABLE UNIT. error occurred a er reseating the xible cables, check the condition of xible connection Carriage EEPROM error (support number: 6820) Memo: Remove the error in service mode when handling is completed. EEPROM defect in the carriage PCB is detected. Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. blem ace CARRIAGE UNIT. in LONG FFC CHECK CARRIAGE UNIT. In LONG FFC CHECK Carriage jam error (support number: 1318) only this error code assigns jam code also. The detected value of acceleration sensor oward Y and Z direction xceeds the threshold. Handling			
Chapter 5 Chapter 6 Chapter 7	EC07 EC0F	4060 2F93	Perform Failure Repl Failure Repl * If the cables' Error Detection Descriptio Perform No pro Perform Repl Failure Repl Failure Repl Failure Repl Failure	Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. in ACC. SENSOR CHECK or CR VIBRATIONCHECK ace CARRIAGE UNIT. in LONG FFC CHECK ace FLEXIBLE CABLE UNIT. error occurred a er reseating the xible cables, check the condition of xible connection Carriage EEPROM error (support number: 6820) Memo: Remove the error in service mode when handling is completed. EEPROM defect in the carriage PCB is detected. Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. blem ace CARRIAGE UNIT. Image ign error (support number: 1318) only this error code assigns jam code also. The detected value of acceleration sensor oward Y and Z direction xceeds the threshold. Handling e access cover and check paper jam. When jam is found, remove the jam and check ration a ain			
Chapter 5 Chapter 6 Chapter 7	EC07 EC0F	4060 2F93	Perform Failure Repl Failure Repl * If the cables' Error Detection Descriptio Perform No pro 1 Repl Failure Repl Failure Repl Error Detection Descriptio	Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. in ACC. SENSOR CHECK or CR VIBRATIONCHECK ace CARRIAGE UNIT. in LONG FFC CHECK ace FLEXIBLE CABLE UNIT. error occurred a er reseating the xible cables, check the condition of xible connection Carriage EEPROM error (support number: 6820) Memo: Remove the error in service mode when handling is completed. EEPROM defect in the carriage PCB is detected. Handling IDIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. blem ace CARRIAGE UNIT. ILXIBLE CABLE UNIT. Carriage jam error (support number: 1318) • Only this error code assigns jam code also. The detected value of acceleration sensor oward Y and Z direction xceeds the threshold. Handling e access cover and check paper jam. When jam is found, remove the jam and check ration a ain. operatio			
Chapter 5 Chapter 6 Chapter 7 Cha	EC07 EC0F	4060 2F93	Perform Failure Repl Failure Repl * If the cables' Error Detection Descriptio Perform No pro Perform No pro 1 Repl Failure Repl Failure Repl Failure Repl Failure Repl Failure Repl Failure Repl Failure Repl Failure	Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. in ACC. SENSOR CHECK or CR VIBRATIONCHECK ace <u>CARRIAGE UNIT</u> . In LONG FFC CHECK ace FLEXIBLE CABLE UNIT. error occurred a er reseating the xible cables, check the condition of xible connection Carriage EEPROM error (support number: 6820) Memo: Remove the error in service mode when handling is completed. EEPROM defect in the carriage PCB is detected. Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. blem ace CARRIAGE UNIT. in LONG FFC CHECK Carriage jam error (support number: 1318) e CARRIAGE UNIT. Carriage jam error (support number: 1318) Only this error code assigns jam code also. The detected value of acceleration sensor oward Y and Z direction xceeds the threshold. Handling e access cover and check paper jam. When jam is found, remove the jam and check ration a ain. operatio Handling			
Chapter 5 Chapter 6 Chapter 7 Chapt	EC07 EC0F	4060 2F93	Perform Failure Repl * If the cables' Error Detection Descriptio Perform No pro Perform No pro 1 Repl Failure Repl Failure Repl Failure Repl 1 Open th the ope Proper 1 Com	Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. in ACC. SENSOR CHECK or CR VIBRATIONCHECK ace CARRIAGE UNIT. in LONG FFC CHECK ace FLEXIBLE CABLE UNIT. error occurred a er reseating the xible cables, check the condition of xible connection Carriage EEPROM error (support number: 6820) Memo: Remove the error in service mode when handling is completed. EPROM defect in the carriage PCB is detected. Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. blem ace CARRIAGE UNIT. in LONG FFC CHECK ace CARRIAGE UNIT. In LONG FFC CHECK Carriage jam error (support number: 1318) Only this error code assigns jam code also. The detected value of acceleration sensor oward Y and Z direction xceeds the threshold. Handling e access cover and check paper jam. When jam is found, remove the jam and check ration a ain. operatio plete. Check media specifi ations and use e vironment (temperature and humidity) of sustomer, and give the customer appropriate			
Chapter 5 Chapter 6 Chapter 7 Chapter 1	EC07 ECOF	4060 2F93	Perform Failure Repl 1 Failure Repl * If the cables' Error Detection Descriptio Perform No pro 1 Repl Failure Repl Failure Repl Failure 1 Open th the ope Proper 1 Com the o	Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. in ACC. SENSOR CHECK or CR VIBRATIONCHECK ace CARRIAGE UNIT. in LONG FFC CHECK ace CARRIAGE UNIT. error occurred a er reseating the xible cables, check the condition of xible connection Carriage EEPROM error (support number: 6820) Memo: Remove the error in service mode when handling is completed. EEPROM defect in the carriage PCB is detected. Handling [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system. blem ace CARRIAGE UNIT. In LONG FFC CHECK ace CARRIAGE UNIT. Carriage jam error (support number: 1318) Only this error code assigns jam code also. The detected value of acceleration sensor oward Y and Z direction xceeds the threshold. Handling e access cover and check paper jam. When jam is found, remove the jam and check ration a ain. operatio give the customer appropriate instruction or jam prevention er operatio			

To Error Code Table

208 | 5-3. Detail of Hardware Error

ECOF	2F96		Error	Carriage motor error (support number: 4801)	
		De De	apte		
		Handling		Handling	r 1
			Check the items below. a) Cable connection of the arriage motor. b) Looseness and abrasion of BELT, CARRIAGE.		
		1	Replac Replac Inapprop a) Con b) Rep	re <u>CARRIAGE UNIT</u> . briate nect the cable. lace <u>BELT, CARRIAGE</u> .	Chapter 2

Chapter 4

Chapter 5

Point Each function of se vice mode is operable only when the printer successfully enters in service mode.

To Error Code Table
5-3. Detail of Hardware Error | 209
SM-17001E-00

Paper Feed System

E Code	Detail Code	Descriptio					
EC11	2F2A	Error		Paper feed home position er or (support number: 4801)			
			ection criptio	aper feed home position adju tment is failed.			
				Handling			
		Ch a b c d 1	neck the) Installa) Loose) Cable () Perforn Appropria Replac napprop	items below in PAPER FEED ENCODER UNIT. ation o FILM, TIMING SLIT DISK, scratches, circumference shaving, and smear. ness and abrasion of BELT, PAPER TRANSPORT. connection m [DIAGNOSIS > I/O DISPLAY] and check the unit operation ate condition and p oper operatio e <u>PAPER FEED ENCODER UNIT</u> . riate condition or imp oper operatio			
			a) Perf b) Rear c) Cabl	orm cleaning or replace FILM, TIMING SLIT DISK. rrange or replace <u>BELT, PAPER TRANSPORT</u> . le connection			
FC12	2529	E I	rror	Paper feed drive timeout (support number: 4801			
		Dete	ection	Paper feed drive does not finish driving within the scheduled tim			
		0030		Handling			
		1 Ch a b I I Ir	Check the items below. a) Jam inside of the printer. b) Looseness and abrasion of BELT, PAPER TRANSPORT. Appropriate Go to 2. Inappropriate a) Remove jam. b) Replace <u>BELT, PAPER TRANSPORT</u> .				
		2 2 7	place <u>P4</u> he prob Comple he prob Replac	APER FEED MOTOR UNIT. lem is resolved ete. lem is not resolved e <u>PAPER FEED ENCODER UNIT</u> .			
EC12	2F2B	EI	rror	Paper feed overload (support number: 4801)			
		Dete Desc	ection criptio	Paper feed motor keeps 100% output for a certain period.			
				Handling			
		1	neck the a) Jam in: b) Check c) Smear Appropria Go to 2 napprop a) Rem b) Chai c) Perfi- <u>ROL</u>	Items below. side of the printer. if the paper in use has strong stiffness, is a h vy roll paper, or is easy to get curled. or paper jam in the PAPER FEED ROLLER UNIT. ate 2. riate hove jam. nge the paper to use. orm cleaning or replace <u>PAPER FEED ROLLER UNIT</u> and <u>HOLDER, PAPER FEED</u> <u>LER</u> .			
		Re T 2 T	eplace <u>FI</u> The prob Comple The prob Replac	<u>LM, TIMING SLIT DISK</u> and <u>PAPER FEED MOTOR UNIT</u> . lem is resolved ete. lem is not resolved e <u>PAPER FEED ROLLER UNIT</u> .			

EC12	2F2C	Error		PAPER FEED motor error (support number: 4801)				
			Detection	The paper does not reach to the specified position while driving the paper eed				
		De	escriptio	motor.				
		Handling						
			Check the	items below.				
			a) Jam in	a) Jam inside of the printer.				
			b) Check	If the paper in use has strong stiffness, is a h vy roll paper, or is easy to get curied.				
			Appropri	or paper jain in the PAPER FEED ROLLER UNIT.		0		
		1	Go to	2.		ha		
		- 	Inapprop	priate		pte		
			a) Ren	nove jam.		r 2		
			b) Cha	nge the paper to use.				
			c) Perform cleaning or replace <u>PAPER FEED ROLLER UNIT</u> and <u>HOLDER, PAPER FEED</u>					
		⊢	ROLLER.					
		2	Replace FILM, TIMING SLIT DISK and PAPER FEED MOTOR UNIT.					
			Complete					
			The problem is not resolved					
			Replac	ce <u>PAPER FEED ROLLER UNIT</u> .				
EC13	2F17		Error	Platen suction an error (support number: 4801)	1	ω		
		Detection Descriptio		SUCTION FAN UNIT Lock signal is detected.				
		Handling						
			Replace <u>SUCTION FAN UNIT</u> .			5		
			The problem is resolved					
			Comp	lete.		ite		
		1	The problem is not resolved					
			model	Le infanti rub unit (Disassetting a reassetting <u>tot 24 thouse</u> , <u>tot 36 thouse</u> , <u>tot 44</u>				
			A er	;;- replacement_perform PCB replacement mode and pecessary adjustments				

Four Each function of se vice mode is operable only when the printer successfully enters in service mode.

To Error Code Table
5-3. Detail of Hardware Error | 211
SM-17001E-00

0	FC1F	2522		Freeze	Cu. or blade unit error (curnert number: 4901)
ha	ECIS	2023		EIIO	CUTTER HOME DOSITION SENSOR cannot be detected
pte			De	etection	• Abnormal encoder value is detected when returning the cutter to the home
er			De	scriptio	posi on.
					Handling
			(Check the	items below.
				a) Foreig	n substances on CUTTER BLADE UNIT.
				b) Check	if the cuer (CT-07) is being a ched slantwise.
Ch				c) Perfor	m [DIAGNOSIS > I/O DISPLAY] and check CUTTER HOME POSITION SENSOR operation
ap				d) Check	the harness connectio
ter				No foreig	n substance and proper conditio
N				GO TO A	2. Ubstance is adhering or improper conditio
				a) Rem	have the foreign substance
				b) Rea	ach the cu_er (CT-07).
				c) Rep	lace <u>CUTTER HOME POSITION SENSOR</u> .
Ω				d) Con	nect the harness.
hal			1		A REAL PROPERTY AND A REAL PROPERTY A REAL PROPERTY AND A REAL PROPERTY AND A REAL PRO
ote					
Ξ ω					
0					
Cha				-10-	
pt				j sla	antwise
er				Called and	
4					proper a actiment
				Poplaco C	
				The prob	lem is resolved
			2	Compl	ete.
Ch Ch				The prob	lem is not resolved
ap				Replac	e <u>CUTTER BLADE UNIT</u> .
ter	EC16	2021		Error	Upper roll drive timeout (support number: 4801
С			De	etection	The target value of operation ommand is not achieved when controlling upper
			De	scriptio	ACTIVE ROLL BRAKE UNIT motor.
			1.		Handling
				Lneck the	ITEMS DEIOW.
0				h) Fngag	ment of the spool with the gear of the printer side
nap				c) Check	if the paper in use has strong stiffness, is a h vy roll paper, or is easy to get curled.
ote				Appropri	ate
r 6			1	Go to 2	2.
				Inapprop	riate
				a) Rem	nove the foreign substance and jam.
				b) Rese	et the spool.
0				c) Cha	nge the paper to use.
ha					LIVE NULL BRANE UNII. Iam is resolved
pte				Compl	ete.
			2	The prob	lem is not resolved
7				Replac	e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>
				<u>model</u>).
				•A er	replacement, perform PCB replacement mode and necessary adjustments.

216	2022		Error	Upper roll drive overload (support number: 4801)				
			etection	ection Current value reaches to the maximum value when controlling upper ACTIVE ROLL				
		Descriptio BRAKE UNIT motor.						
		Handling						
			Check the	e items below.				
			a) Foreig	n substances or jam at paper feed part.				
			b) Engag	ement of the spool with the gear of the printer side.				
			c) Check	if the paper in use has strong stiffness, is a h vy roll paper, or is easy to get curled.				
		1	Appropriate					
			GO tO	Z.				
			inapprop	oriale				
			b) Rec	et the speel				
			c) Cha	ange the paper to use				
		H	Replace A					
			The prot	blem is resolved				
			Comp	lete.				
		2	The prot	plem is not resolved				
			Repla	ce MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"				
			<u>mode</u>	<u>l</u>).				
			• A e	r replacement, perform PCB replacement mode and necessary adjustments.				
:16	2027		Error	Upper role motor error (support number: 4801)				
		Detection The timing when upper oll drive timeout or upper oll drive overload occurs,						
			Descriptio operation in truction is indi ated by fir ware.					
		H		Handling				
			Check the	e items below.				
			b) Engag	in substances of jam at paper reed part.				
			c) Check	the paper in use has strong stiffness is a h vy roll paper or is easy to get curled				
			Appropr	iate				
		1	Go to	2.				
			Inapprop	oriate				
			a) Rer	nove the foreign substance and jam.				
			b) Res	et the spool.				
			c) Change the paper to use.					
			Replace A	CTIVE ROLL BRAKE UNIT				
			The prob	plem is resolved				
		2	Comp	IETE.				
		2	I ne prot	DIEM IS NOT RESOLVED				
			Replace	IN IN THE UNIT USASSEMBLY & REASSEMBLY TO 24 MODEL, TO 35 MODEL, TO 44				
		1	i inoue	1).				
				r replacement perform PCR replacement mode and peressary adjustments				
			• A e	r replacement, perform PCB replacement mode and necessary adjustments.				
			• A e	r replacement, perform PCB replacement mode and necessary adjustments.				

EC16	5 202A	Error	Upper roll motor drive control abnormal (support number: 4801)					
		Detection	Abnormity is detected at control IC on the main PCB during upper ACTIVE ROLL					
		Descriptio	BRAKE UNIT controlling.					
		ļ	Handling	5				
		Check the	e items below.					
		a) Foreig	a) Foreign substances or jam at paper feed part.					
		D) Engag	if the paper in use has strong stiffness if	printer side.				
		Appropr	iate	s a fi vy foli paper, of is easy to get curred.				
		1 Go to	2.					
		Inappro	oriate					
		a) Rer	nove the foreign substance and jam.					
		b) Res	et the spool.					
		c) Cha	ange the paper to use.					
		Replace A	ACTIVE ROLL BRAKE UNIT.					
		I ne proi	lete					
		2 The prol	alem is not resolved					
		Repla	ce MAIN PCB UNIT (Disassembly & Reass	embly for 24" model, for 36" model, for 44"				
		mode	I).	<u></u>				
		• A e	r replacement, perform PCB replacemen	t mode and necessary adjustments.				
EC16	5 202E	Error	Upper roll spool detection er or (suppo	rt number: 100E)				
		Detection	UPPER RIGHT SPOOL SET SENSOR or UF	PPER LEFT SPOOL SET SENSOR detects "No				
		Descriptio	spool" when SPOOL LOCK UNIT is ON.					
		L	Handling	3				
		Check the	e items below.					
		a) Engag	ement of the spool with the gear of the	printer side.				
		b) Check	and the paper in use has strong stiffness, i	s a n vy roll paper, or is easy to get curled.				
		d) Perfor	rm [DIAGNOSIS > I/O DISPLAY] and check	the operation of LIPPER RIGHT SPOOL SET				
		SENSO	SENSOR and UPPER LEFT SPOOL SET SENSOR					
		Appropr	iate					
		Repla	ce <u>SPOOL LOCK UNIT</u> .					
		Inappro	oriate					
		a) Res	et the spool.					
		b) Cha	ange the paper to use.					
		d) Rep	blace SPOOL SENSOR LINIT and/or LIPPER	LEET SPOOL SET SENSOR when the connect				
			dition of the harness is not troubled.	when the connect				
			left spool sensor l ver	right spool sensor lever				
EC16	2038	Error	Upper ARB motor calibration er or (sup	pport number: 4801)				
		Detection	Calibration of upper CTIVE ROLL BRAK	E UNIT motor fails.				
		Descriptio	Handling	7				
		Check if a	spool is installed in the upper roll unit					
		With the	spool					
		Remo	ve the spool from the upper roll unit and	reboot the main unit*				
		↓ Without	the spool					
		Repla	ce <u>ACTIVE ROLL BRAKE UNIT</u> .					
		* The sp	ool must be removed before calibrating	the upper oll unit.				

Point Each function of se vice mode is operable only when the printer successfully enters in service mode.

Chapter 1

Chapter 2

Chapter 3

Chapter 4

Chapter 5

Chapter 6

Chapter 7

Detection Descriptio Lower ACTIVE ROLL BRAKE UNIT does not reach to its motor control target value. Handling Check the items below. a) Foreign substances or jam at paper feed part. b) Engagement of the spool with the gear of the printer side. c) Check if the paper in use has strong stiffness, is a h vy roll paper, or is easy to get curled. Appropriate a) Remove the foreign substance and jam. b) Reset the spool. c) Change the paper to use. Replace ACTIVE ROLL BRAKE UNIT. The problem is not resolved Complete. 2 The problem is not resolved Replace MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44" model). • A er replacement, perform PCB replacement mode and necessary adjustments. EC17 2024 Error Lower roll drive overload (support number: 4801) Detection Current value reaches to the maximum value when controlling lower ACTIVE ROLL BRAKE UNIT motor. Handling Check the items below. a) Foreign substances or jam at paper feed part. b) Engagement of the spool with the gear of the printer side. c) Check if the paper in use has strong stiffness, is a h v
EC17 Ector Lower coll 2024 Error Lower coll drive overload (support number: 4801) 2024 Error Lower coll drive overload (support number: 4801) 2024 Error Lower coll drive overload (support number: 4801) 2024 Error Lower coll drive overload (support number: 4801) 2024 Error Lower coll drive overload (support number: 4801) 2024 Error Lower coll drive overload (support number: 4801) 2024 Error Lower coll drive overload (support number: 4801) 2024 Error Lower coll drive overload (support number: 4801) 2024 Error Lower coll drive overload (support number: 4801) 2024 Error Lower coll drive overload (support number: 4801) 2024 Error Lower coll drive overload (support number: 4801) 2024 Error Lower coll drive overload (support number: 4801) 2024 Error Lower coll drive overload (support number: 4801) 2024 Error Lower coll drive overload (support number: 4801) 2025 Error Lower coll drive overload (support number: 4801)
EC17 2024 Error Lower roll drive overload (support number: 4801) Detection Detection Descriptio BRAKE UNIT motor. Handling Check the items below. a) Foreign substances or jam at paper feed part. b) Engagement of the spool with the gear of the printer side.
EC17 2024 Foreign substances or jam at paper feed part. b) Engagement of the spool with the gear of the printer side. c) Check if the paper in use has strong stiffness, is a h vy roll paper, or is easy to get curled. Appropriate
b) Engagement of the spool with the gear of the printer side. c) Check if the paper in use has strong stiffness, is a h vy roll paper, or is easy to get curled. 1 Appropriate Go to 2. Inappropriate a) Remove the foreign substance and jam. b) Reset the spool. c) Change the paper to use. c) Change the paper to use. Replace ACTIVE ROLL BRAKE UNIT. The problem is resolved Complete. Replace MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44" model). exer replacement, perform PCB replacement mode and necessary adjustments. Error EC17 2024 Error EC17 Check the items below. a) Foreign substances or jam at paper feed part. b) Engagement of the spool with the gear of the printer side. c) Check if the paper in use has strong stiffness, is a h vy roll paper, or is easy to get curled. Appropriate a) Remove the foreign substance and jam. b) Engagement of the spool with the gear of the printer side. c) Check if the paper in use has strong stiffness, is a h vy roll paper, or is easy to get curled. Appropriate Go to 2. a) Remove the foreign substance and jam. b) Reset the spool. c) Change the paper to use. Replace ACTIVE ROLL BRAKE UNIT. The problem is resolverd Replace ACTIVE ROLL BRAKE UNIT.
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• A er replacement, perform PCB replacement mode and necessary adjustments. EC17 2024 Error Lower roll drive overload (support number: 4801) Detection Current value reaches to the maximum value when controlling lower ACTIVE ROLL BRAKE UNIT motor. Handling Check the items below. a) Foreign substances or jam at paper feed part. b) Engagement of the spool with the gear of the printer side. c) Check if the paper in use has strong stiffness, is a h vy roll paper, or is easy to get curled. Appropriate a) Remove the foreign substance and jam. b) Reset the spool. c) Change the paper to use. Replace ACTIVE ROLL BRAKE UNIT. The prohlem is resolved
EC17 2024 Error Lower roll drive overload (support number: 4801) Detection Current value reaches to the maximum value when controlling lower ACTIVE ROLL BRAKE UNIT motor. Handling Check the items below. a) Foreign substances or jam at paper feed part. b) Engagement of the spool with the gear of the printer side. c) Check if the paper in use has strong stiffness, is a h vy roll paper, or is easy to get curled. Appropriate Go to 2. Inappropriate a) Remove the foreign substance and jam. b) Reset the spool. c) Change the paper to use. Replace ACTIVE ROLL BRAKE UNIT. The problem is resolved
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Handling Check the items below. a) Foreign substances or jam at paper feed part. b) Engagement of the spool with the gear of the printer side. c) Check if the paper in use has strong stiffness, is a h vy roll paper, or is easy to get curled. Appropriate Go to 2. Inappropriate a) Remove the foreign substance and jam. b) Reset the spool. c) Change the paper to use. Replace ACTIVE ROLL BRAKE UNIT. The problem is resolved
 Check the items below. a) Foreign substances or jam at paper feed part. b) Engagement of the spool with the gear of the printer side. c) Check if the paper in use has strong stiffness, is a h vy roll paper, or is easy to get curled. Appropriate Go to 2. Inappropriate a) Remove the foreign substance and jam. b) Reset the spool. c) Change the paper to use. Replace <u>ACTIVE ROLL BRAKE UNIT</u>. The problem is resolved
 a) Foreign substances of jam at paper reed part. b) Engagement of the spool with the gear of the printer side. c) Check if the paper in use has strong stiffness, is a h vy roll paper, or is easy to get curled. Appropriate Go to 2. Inappropriate a) Remove the foreign substance and jam. b) Reset the spool. c) Change the paper to use. Replace <u>ACTIVE ROLL BRAKE UNIT</u>. The problem is resolved
 c) Check if the paper in use has strong stiffness, is a h vy roll paper, or is easy to get curled. Appropriate Go to 2. Inappropriate a) Remove the foreign substance and jam. b) Reset the spool. c) Change the paper to use. Replace <u>ACTIVE ROLL BRAKE UNIT</u>. The problem is resolved
1 Appropriate Go to 2. Inappropriate a) Remove the foreign substance and jam. b) Reset the spool. c) Change the paper to use. Replace ACTIVE ROLL BRAKE UNIT. The problem is resolved
Go to 2. Inappropriate a) Remove the foreign substance and jam. b) Reset the spool. c) Change the paper to use. Replace <u>ACTIVE ROLL BRAKE UNIT</u> . The problem is resolved
Inappropriate a) Remove the foreign substance and jam. b) Reset the spool. c) Change the paper to use. Replace <u>ACTIVE ROLL BRAKE UNIT</u> . The problem is resolved.
a) Remove the foreign substance and jam. b) Reset the spool. c) Change the paper to use. Replace <u>ACTIVE ROLL BRAKE UNIT</u> . The problem is resolved
b) Reset the spool. c) Change the paper to use. Replace <u>ACTIVE ROLL BRAKE UNIT</u> . The problem is resolved
Replace <u>ACTIVE ROLL BRAKE UNIT</u> . The problem is resolved
The problem is resolved
Complete.
2 The problem is not resolved
Replace MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"
<u>model</u>).
• A er replacement, perform PCB replacement mode and necessary adjustments.

EC17	2028	Error	Lower roll motor error (support number: 4801)				
		Detection	The timing when I wer roll drive timeout or I wer roll drive overload occurs,				
		Descriptio	operation in truction is indi ated by fir ware.				
		Handling					
		Check the	e items below.				
		a) Foreig	n substances or jam at paper feed part.				
		b) Engag	ement of the spool with the gear of the printer side.				
		c) Check	if the paper in use has strong stiffness, is a h vy roll paper, or is easy to get curled.				
		Appropr	iate				
		Go to	2.				
		Inappro	priate				
		a) Rer	nove the foreign substance and jam.				
		b) Res	et the spool.				
		c) Cha	ange the paper to use.				
		Replace A	CTIVE ROLL BRAKE UNIT.				
		The prob	blem is resolved				
		Comp	lete.				
		2 The prot	plem is not resolved				
		Керіа	ce MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>				
]). r ranksoment, perform PCP replacement mode and percessary adjustments				
FC17	2029	Error	Lower roll motor drive control abnormal (support number: 4801)				
2017	2025	Detection	Abnormity is detected at control IC on the main PCR during lower ACTIVE ROLL				
		Descriptio	BRAKE UNIT controlling				
		Beschptio	Handling				
		Check the	e items below.				
		a) Foreig	n substances or jam at paper feed part.				
		b) Engag	ement of the spool with the gear of the printer side.				
		c) Check	if the paper in use has strong stiffness, is a h vy roll paper, or is easy to get curled.				
		Appropr	iate				
		Go to	Go to 2.				
		Inappro	Inappropriate				
		a) Rer	a) Remove the foreign substance and jam.				
		b) Res	b) Reset the spool.				
		c) Cha	c) Change the paper to use.				
		Replace A	CTIVE ROLL BRAKE UNIT				
		The prob	blem is resolved				
		Comp	lete.				
		2 The prot	Diem is not resolved				
		Repla	ce IVIAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>				
		mode]).				
EC17	2020	- A e	No lower roll unit (support number: 1975)				
ECI/	2020	Detection	The lower roll unit (support number: 1875)				
		Detection	• The lower roll unit is not recognized when staring prining from the lower roll.				
		Descriptio	Pandling				
		Charlethe					
		Check the	e items below.				
			roll unit connection				
		Connoct					
			cu ce I/E PCB LINIT BIL and/or BELAY PCB LINIT BIL				
		Disconne	ected				
		a) Cor	a) Connect the cable				
		h) Cor	nnect the unit.				

Chapter 3

Chapter 4

Chapter 5

Chapter 6
EC17	202F	Error	Lower roll spool detection er or (sup	port number: 100F)				
		Detection	LOWER RIGHT SPOOL SET SENSOR or	LOWER LEFT SPOOL SET SENSOR detects "No				
		Descriptio	spool" when spool lock solenoid is O	N				
		Handling						
		Check th	e items below.					
		a) Enga	gement of the spool with the gear of th	ne printer side.				
		b) Chec	k if the paper in use has strong stiffnes:	s, is a h vy roll paper, or is easy to get curled.				
		c) Dama	age of the spool sensor lever. $rm \left[D(A C N O S S > 1/O D(S D A Y) + c c h o c h$	k the operation of LOW/ED RICHT SPOOL SET				
			SENSOR and LOWER LEET SPOOL SET SENSOR					
		Approp	riate					
		Repla	ace SPOOL LOCK UNIT.					
		Inappro	Inappropriate					
		a) Re	set the spool.					
		b) Ch	ange the paper to use.					
		c) Re	c) Replace COVER, ROLL GEAR L and/or LOCK LEVER A and/or LOCK LEVER B.					
		d) Re	d) Replace LOWER RIGHT SPOOL SET SENSOR and/or LOWER LEFT SPOOL SET SENSOR when					
		the the	e connect condition of the arness is no	ot troubled.				
			left spool sensor I ver	right spool sensor lever				
:C17	2039	Error	Lower ARB motor calibration er or (s	upport number: 4801)				
		Detection Descriptio	Calibration of I wer ACTIVE ROLL BRA	AKE UNIT motor fails.				
			Handl	ing				
		Check if	a spool is installed in the upper roll uni	t.				
		With the	spool					
		1 Kemo	bye the spool from the upper roll unit a	ing repoot the main unit*				
		Repla						
		* The si	pool must be removed before calibratir	ng the upper oll unit.				
C17	203A	Error	Non-supported lower roll unit installe	ed (support number: 1039)				
		Detection						
		Descriptio	Installation of an unsuppor ed lower	roll unit is detected.				
			Handl	ing				
		Check th	e items below.					
		a) The i	nstalled lower roll unit is for PRO series).				
		b) Conn	ection f the lower roll I/F cable.					
		Correct	roll unit and proper cable connectio					
		Repla	ice <u>I/F PCB UNIT, RU</u> , <u>RELAY PCB UNIT, F</u>	RU, and lower roll I/F cable.				
		Incorre	ct roll unit or improper c able connection)				
		a) In	stall the lower roll unit for TX series.					

Chapter 1

Chapter 2

Chapter 3

Chapter 4

Chapter 5

EC17 2050 Initial information of the boot sequence of lower formatic support number: 430 Detection The motor driver boot sequence of lower roll unit was not completed properties starting up. Handling Check the items below. a) Connection f the lower roll I/F cable. b) Installation o the lower roll unit. Correct roll unit and proper cable connectio Replace I/F PCB UNIT, RU, RELAY PCB UNIT, RU, and lower roll I/F cable. Incorrect roll unit or improper cable connectio a) Connect the cable. b) Install the lower roll unit. EC19 Error Release lever open at access cover locking (support number: 1214) Detection Detection Detection Release lever is released when locking the access cover. Handling Start up the printer in service mode.	erly in				
Descriptio Internetion under boot sequence on lower roll unit was not completed propriation of the lower roll unit and propercipies and propercipie					
EC19 Endering up? Handling Check the items below. a) Connection f the lower roll I/F cable. b) Installation o the lower roll unit. Correct roll unit and proper cable connectio Replace I/F PCB UNIT, RU, RELAY PCB UNIT, RU, and lower roll I/F cable. Incorrect roll unit or improper cable connectio a) Connect the cable. b) Install the lower roll unit. EC19 ZF21 Error Release lever open at access cover locking (support number: 1214) Detection Release lever is released when locking the access cover. Handling Start up the printer in service mode.					
EC19 Check the items below. a) Connection f the lower roll I/F cable. b) Installation o the lower roll unit. Correct roll unit and proper cable connectio Replace I/F PCB UNIT, RU, RELAY PCB UNIT, RU, and lower roll I/F cable. Incorrect roll unit or improper cable connectio a) Connect the cable. b) Install the lower roll unit. EC19 ZF21 Error Release lever open at access cover locking (support number: 1214) Detection Detection Detection Start up the printer in service mode.					
a) Connection f the lower roll I/F cable. b) Installation o the lower roll unit. Correct roll unit and proper cable connectio Replace I/F PCB UNIT, RU, RELAY PCB UNIT, RU, and lower roll I/F cable. Incorrect roll unit or improper cable connectio a) Connect the cable. b) Install the lower roll unit. EC19 2F21 Error Release lever open at access cover locking (support number: 1214) Detection Detection Detection Start up the printer in service mode.					
b) Installation o the lower roll unit. Correct roll unit and proper cable connectio Replace I/F PCB UNIT, RU, RELAY PCB UNIT, RU, and lower roll I/F cable. Incorrect roll unit or improper cable connectio a) Connect the cable. b) Install the lower roll unit. EC19 2F21 Error Release lever open at access cover locking (support number: 1214) Detection Detection Detection Release lever is released when locking the access cover. Handling Start up the printer in service mode.					
Image: Start up the printer in service mode. Correct roll unit and proper cable connectio Replace I/F PCB UNIT, RU, RELAY PCB UNIT, RU, and lower roll I/F cable. Incorrect roll unit or improper cable connectio a) Connect the cable. b) Install the lower roll unit. EC19 2F21 Error Release lever open at access cover locking (support number: 1214) Detection Descriptio Release lever is released when locking the access cover.					
Image: Product of the case is released when locking the access cover. Image: Product of the case is released when locking the access cover. Image: Product of the case is released when locking the access cover. Image: Product of the case is released when locking the access cover. Image: Product of the case is released when locking the access cover. Image: Product of the case is released when locking the access cover. Image: Product of the case is released when locking the access cover. Image: Product of the printer in service mode.					
EC19 2F21 Error Release lever open at access cover locking (support number: 1214) Detection Descriptio Release lever is released when locking the access cover. Handling Start up the printer in service mode.					
a) Connect the cable. b) Install the lower roll unit. EC19 2F21 Error Release lever open at access cover locking (support number: 1214) Detection Release lever is released when locking the access cover. Handling Start up the printer in service mode.					
EC19 2F21 Error Release lever open at access cover locking (support number: 1214) Detection Descriptio Release lever is released when locking the access cover. Handling Start up the printer in service mode.					
Detection Release lever open at access cover locking (support humber, 1214) Detection Release lever is released when locking the access cover. Handling Start up the printer in service mode.					
Descriptio Release lever is released when locking the access cover. Handling Start up the printer in service mode.					
Handling Start up the printer in service mode.					
Start up the printer in service mode.					
Move the release lever back and forth. Perform [DIAGNOSIS > I/O DISPLAY] to check R	ELEASE				
LEVER SWITCH operation	LEVER SWITCH operation				
Appropriate	Appropriate				
Replace ACCESS COVER LOCK UNIT R.					
	Inappropriate				
Replace <u>RELEASE LEVER SWITCH</u> .	Replace <u>RELEASE LEVER SWITCH</u> .				
Memo : Release lever open cannot be performed since release lever and access cover	rare				
locked with the same solenoid.	are				
EC1B 2030 Error Upper roll nip arm sensor non-detection (support number: 4801					
Detection UPPER ROLL NIP SENSOR cannot detect nip position when tarting up or w	itching				
Descriptio nip position.	-				
Handling					
Check the items below.					
a) Foreign substances around upper DRIVE NIP ARM UNIT.					
b) Perform [DIAGNOSIS> I/O DISPLAY] to check UPPER ROLL NIP SENSOR operation					
Appropriate					
Replace <u>DRIVE NIP ARM UNIT.</u>					
a) Remove the foreign substance					
b) Replace UPPER ROLL NIP SENSOR.					
EC1B 2031 Error Upper roll nip arm drive timeout (support number: 4801					
EC1B 2031 Error Upper roll nip arm drive timeout (support number: 4801 Detection Detection Detection Detection					
EC1B 2031 Error Upper roll nip arm drive timeout (support number: 4801 Detection Detection Upper DRIVE NIP ARM UNIT does not complete driving within the scheduler	d time				
EC1B 2031 Error Upper roll nip arm drive timeout (support number: 4801 Detection Detection Upper DRIVE NIP ARM UNIT does not complete driving within the scheduled Handling Handling	d time				
EC1B 2031 Error Upper roll nip arm drive timeout (support number: 4801 Detection Detection Upper DRIVE NIP ARM UNIT does not complete driving within the scheduler Handling Check if foreign substances are adhering around upper DRIVE NIP ARM UNIT.	d time				
EC1B 2031 Error Upper roll nip arm drive timeout (support number: 4801 Detection Detection Upper DRIVE NIP ARM UNIT does not complete driving within the scheduler Handling Check if foreign substances are adhering around upper DRIVE NIP ARM UNIT. Without foreign substance Without foreign substance	d time				
EC1B 2031 Error Upper roll nip arm drive timeout (support number: 4801 Detection Detection Upper DRIVE NIP ARM UNIT does not complete driving within the scheduler Handling Check if foreign substances are adhering around upper DRIVE NIP ARM UNIT. Without foreign substance 1 Replace DRIVE NIP ARM UNIT.	d time				
EC1B 2031 Error Upper roll nip arm drive timeout (support number: 4801 Detection Detection Upper DRIVE NIP ARM UNIT does not complete driving within the scheduler Handling Check if foreign substances are adhering around upper DRIVE NIP ARM UNIT. Without foreign substance Replace DRIVE NIP ARM UNIT. With foreign substances With foreign substances	d time				
EC1B 2031 Error Upper roll nip arm drive timeout (support number: 4801 Detection Detection Upper DRIVE NIP ARM UNIT does not complete driving within the scheduler Handling Check if foreign substances are adhering around upper DRIVE NIP ARM UNIT. Without foreign substance Replace DRIVE NIP ARM UNIT. With foreign substances Remove the foreign substance.	d time				
EC1B 2031 Error Upper roll nip arm drive timeout (support number: 4801 Detection Detection Upper DRIVE NIP ARM UNIT does not complete driving within the scheduler Handling Check if foreign substances are adhering around upper DRIVE NIP ARM UNIT. Without foreign substance Replace DRIVE NIP ARM UNIT. With foreign substances Remove the foreign substance. EC1B 2032 Error Upper roll nip arm drive overload (support number: 4801)	d time				
EC1B 2031 Error Upper roll nip arm drive timeout (support number: 4801 Detection Detection Upper DRIVE NIP ARM UNIT does not complete driving within the schedule Handling Check if foreign substances are adhering around upper DRIVE NIP ARM UNIT. Without foreign substance Replace DRIVE NIP ARM UNIT. With foreign substances Remove the foreign substances. EC1B 2032 Error Upper roll nip arm drive overload (support number: 4801) Detection The motor of upper DRIVE NIP ARM UNIT keeps 100% output for more thar	d time				
EC1B 2031 Error Upper roll nip arm drive timeout (support number: 4801 Detection Detection Upper DRIVE NIP ARM UNIT does not complete driving within the scheduler Handling Check if foreign substances are adhering around upper DRIVE NIP ARM UNIT. Without foreign substance Replace DRIVE NIP ARM UNIT. With foreign substances Remove the foreign substance. EC1B 2032 Error Upper roll nip arm drive overload (support number: 4801) Detection Detection The motor of upper DRIVE NIP ARM UNIT keeps 100% output for more than specified du ation.	d time				
EC1B 2031 Error Upper roll nip arm drive timeout (support number: 4801 Detection Detection Upper DRIVE NIP ARM UNIT does not complete driving within the schedule. Handling Check if foreign substances are adhering around upper DRIVE NIP ARM UNIT. Without foreign substance Replace DRIVE NIP ARM UNIT. With foreign substances Remove the foreign substance. EC1B 2032 Error Upper roll nip arm drive overload (support number: 4801) Detection Detection The motor of upper DRIVE NIP ARM UNIT keeps 100% output for more than specified du ation. Handling Check if foreign substances are adhering around upper DRIVE NIP ARM UNIT	d time				
EC1B 2031 Error Upper roll nip arm drive timeout (support number: 4801 Detection Detection Upper DRIVE NIP ARM UNIT does not complete driving within the schedule Handling Check if foreign substances are adhering around upper DRIVE NIP ARM UNIT. Without foreign substance Nithout foreign substance 1 Replace DRIVE NIP ARM UNIT. With foreign substances Remove the foreign substance. EC1B 2032 Error Upper roll nip arm drive overload (support number: 4801) Detection Detection The motor of upper DRIVE NIP ARM UNIT keeps 100% output for more than bescriptio specified du ation. Handling Check if foreign substances are adhering around upper DRIVE NIP ARM UNIT. Without foreign substance Handling Check if foreign substance of upper DRIVE NIP ARM UNIT keeps 100% output for more than bescriptio Specified du ation. Handling Check if foreign substances are adhering around upper DRIVE NIP ARM UNIT. Without foreign substance Handling	d time				
EC1B 2031 Error Upper roll nip arm drive timeout (support number: 4801 Detection Detection Upper DRIVE NIP ARM UNIT does not complete driving within the schedule Handling Check if foreign substances are adhering around upper DRIVE NIP ARM UNIT. Without foreign substance 1 Replace DRIVE NIP ARM UNIT. With foreign substances Remove the foreign substances. EC1B 2032 Error Upper roll nip arm drive overload (support number: 4801) Detection Detection The motor of upper DRIVE NIP ARM UNIT keeps 100% output for more thar specified du ation. Handling Check if foreign substances are adhering around upper DRIVE NIP ARM UNIT. Without foreign substances Handling Check if foreign substances are adhering around upper DRIVE NIP ARM UNIT. Without foreign substances are adhering around upper DRIVE NIP ARM UNIT. Without foreign substances are adhering around upper DRIVE NIP ARM UNIT. Without foreign substance Handling Check if foreign substances are adhering around upper DRIVE NIP ARM UNIT. Without foreign substance Handling Check if foreign substance Handling Check if foreign substance Replace DRIVE NIP ARM UNIT.	d time				
EC1B 2031 Error Upper roll nip arm drive timeout (support number: 4801 Detection Detection Upper DRIVE NIP ARM UNIT does not complete driving within the schedule Handling Check if foreign substances are adhering around upper DRIVE NIP ARM UNIT. Without foreign substances Replace DRIVE NIP ARM UNIT. With foreign substances Remove the foreign substance. EC1B 2032 Error Upper roll nip arm drive overload (support number: 4801) Detection Detection The motor of upper DRIVE NIP ARM UNIT keeps 100% output for more than specified du ation. Handling Check if foreign substances are adhering around upper DRIVE NIP ARM UNIT. Without foreign substances are adhering around upper DRIVE NIP ARM UNIT. Without foreign substances are adhering around upper DRIVE NIP ARM UNIT. Handling Check if foreign substances are adhering around upper DRIVE NIP ARM UNIT. Without foreign substances I Replace DRIVE NIP ARM UNIT. Without foreign substance I Replace DRIVE NIP ARM UNIT. With foreign substance	d time				

Chapter 6

Chapter 7

EC1B	2033		Error	Upper roll nip arm motor error (support number: 4801)					
		D	etection	At the timing when upper DRIVE NIP ARM UNIT dri e timeout or dri e overload					
		D	Descriptio occurs, fir ware receives operation ommand.						
				Handling					
			Check if foreign substances are adhering around upper DRIVE NIP ARM UNIT.						
			Without	foreign substance					
		1	Replac	e DRIVE NIP ARM UNIT.					
			With fore	ign substances					
			Remov	re the foreign substance.					
EC1C	2034		Error	Lower roll nip arm sensor non-detection (support number: 4801					
			etection	LOWER ROLL NIP SENSOR fails to detect nip position when tarting up or shifting ni					
			escriptio	position.					
		F		Handling					
		E	Check the	items below					
			a) Eoroigi	a substances around lower DRIVE NID ARM LINIT					
			b) Dorfor	m [DIAGNOSIS > 1/0 DISPLAY] to check 10WER ROLL NIP SENSOR operation					
				in substance and proper operatio					
		1	Ronlac						
				ubstance is adhering or improper operatio					
			a) Rom	hove the foreign substance					
			b) Ropi						
C1C	2025		Error	Lower roll nin arm drive timeout (support number: 4801					
	2055	┝╴							
			etection	Lower DRIVE NIP ARM UNIT does not finish driving within the scheduled tim					
			escriptio						
				Handling					
			Check if fo	foreign substances are adhering around lower DRIVE NIP ARM UNIT.					
			Without	foreign substance					
		1	Replac	e <u>DRIVE NIP ARM UNIT</u> .					
	With foreig			gn substances					
			Remov	e the foreign substance.					
C1C	2036		Error	Lower roll nip arm drive overload (support number: 4801)					
			etection	The motor of lower DRIVE NIP ARM UNIT keeps 100% output for longer than the					
			Descriptio specified du ation.						
			Handling						
			Check if fo	reign substances are adhering around lower DRIVE NIP ARM UNIT.					
			No foreig	n substance					
		1	Replac	e <u>DRIVE NIP ARM UNIT</u> .					
			Foreign s	ubstances are adhering					
			Remov	e the foreign substances.					
C1C	2037		Error	Lower roll nip arm motor error (support number: 4801)					
			etection	At the timing when I wer DRIVE NIP ARM UNIT drive timeout or dri e overload					
		D	escriptio	occurs, fir ware receives operation ommand.					
				Handling					
			Check if fo	reign substances are adhering around lower DRIVE NIP ARM UNIT.					
			Without	foreign substance					
		1	Replac	e <u>DRIVE NIP ARM UNIT</u> .					
			With foreign substances						
			Remov	e the foreign substance.					
C1D	2050		Error	Upper roll paper set sensor error (support number: 4805)					
			etection	Communicating with the upper oll paper set sensor failed when loading the upper					
		D	escriptio	roll paper.					
				Handling					
			cable connection of OLL DADED SET SENSOR LINUT (for upper roll)						
		1		capie connection of OLL PAPER SET SENSOR UNIT (IOF upper foil).					
		1							
		±	керіас						
		1		connectio					
			Connect the cable.						

Chapter 2

Chapter 3

EC1E	2053		Error	Lower roll paper set sensor error (support number: 4805)			
			etection	Communicating with the l wer roll paper set sensor failed when loading the lower			
		De	escriptio	roll paper.			
				Handling			
			Check the	cable connection of OLL PAPER SET SENSOR UNIT (for lower roll).			
			Proper co	onnectio			
		1	Replace <u>NIP ARM SENSOR UNIT (for lower roll)</u> .				
			Improper connectio				
			Conne	ct the cable.			



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Print System

E Code	Detail Code	Descriptio						
EC21	282D	Error	Print head Si melting (eboot request) (support number: 140C)					
		Detection Descriptio	Si solution amou t is more than the standard solution amou t.					
			Handling					
		1 Reboot t	he printer.					
EC21	282E	Error	Print head Si melting (pri t head replacement request) (support number: 1403)					
		Detection Descriptio	The printer does not recover by rebooting er print head Si solution er or.					
			Handling					
		1 Replace t	he print head.					
EC21	2F43	Error	Print head 768 nozzles complete non-ejection (support number: 1494					
		Detection Descriptio	Petection Non-ejection in 768 n zzles is detected through non-ejection d tection.					
			Handling					
		When th Ink is fil 1 Go to Ink is no Repla	e printer does not recover by rebootin , check if the ink is filled i to tubes. le 2. (Ink inside of the print head insufficiency or pr t head defect is suspected.) of fille ince the <u>TUBE UNIT</u> .					
		Perform Proper 1 2 Comp Imprope Repla	deep cleaning, and print nozzle check paern. nozzle paern plete. er nozzle paern ice the print head.					
EC21	2F44	Error	Abnormal increase of non-ejection n zzles from last non-ejection d tection (suppo t number: 1492)					
		Detection Descriptio	Since last non-ejection d tection, fifty or e non-ejection n zzles are newly detected out of six hundred forty nozzles in a print head.					
			Handling					
		Perform deep cleaning and print nozzle check pa ern.						
		Proper nozzle pa ern						
		1 Com	olete.					
		Improp	er nozzle pa ern					
		Repla	ce the print head.					

Ch		EC21	2F50		Error	VH leak at print head replacement (support number: 1477)	
ap						VH leak is detected at print head replacement	
tei				De	escriptio		
–						Handling	
					Perform []	DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system.	
					No probl	em	
					Go to :	2.	
				1	Abnorma	l	
Ch				±	 Probler 	n in ACC. SENSOR CHECK or CR VIBRATIONCHECK	
la					Replac	e <u>CARRIAGE UNIT</u> .	
te					 Probler 	n in LONG FFC CHECK	
Γ N					Replac	e <u>FLEXIBLE CABLE UNIT</u> .	
10					Remove tl	ne print head and check the condition of pri t head contacting part	
					Proper conditio		
				2	Replac	Replace the print head.	
					Imprope	r conditio	
Q					Go to 3	3.	
าล					Clean the	surface of the print head contacting part. (The aste cloth without a nap must be	
ote					used.)	used.)	
Ĩ,				2	The prob	lem is resolved	
00				5	Compl	ete.	
					The prob	lem is not resolved	
					Go to -	4.	
					Replace th	ne print head.	
0					The proble	em is resolved	
ha					Comple	te.	
pt				4	The prob	lem is not resolved	
C C					Replac	e MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"	
4					<u>model</u>).	
					■A er	replacement, perform PCB replacement mode and necessary adjustments.	
		EC21	2F51		Error	VH leak at starting up, cleanin , and print starting (support number: 4801	
				D	etection	VH look is detected at starting up, cleaning, and print starting	
0				De	escriptio	is detected at starting up, cleaning , and print starting	
ha						Handling	
pt				1	Reboot th	e printer.	
er							
0							



EC21	2F53		Error	VH leak at rebooting (support number: 1478	5			
			etection	The printer does not recover by rebooting er the VH leak error at starting up,	ap			
			escriptio	cleaning, and print starting.	ter			
		⊢	Perform [[
			No probl	em				
			Go to 2.					
		1	Abnorma					
			Probler Poplar	n in ACC. SENSOR CHECK or CR VIBRATIONCHECK				
			· Problem in LONG FFC CHECK					
			Replac	ce <u>FLEXIBLE CABLE UNIT</u> .	er			
			Remove tl	he print head and check the condition of pri t head contacting part				
			Proper co	onditio				
		2	Replace the print head.					
			Go to 3.					
			Clean the	surface of the print head contacting part. (The aste cloth without a nap must be	na			
			used.)		pre			
		3	The prob	The problem is resolved				
			The prob	Complete.				
		4	Go to 4.					
			Replace th					
			The proble	em is resolved	5			
			Comple	ete.	lap			
			Replac	ce MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"	ter			
			model)).	4			
			• A er	replacement, perform PCB replacement mode and necessary adjustments.				
EC21	2F54		Error	Print head VH voltage abnormal (support number: 4801)				
			etection	VH voltage of the print head is detected.				
			scriptio	Handling	Cha			
			Perform [[DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system.	pd.			
			No probl	em				
			Go to 2	2.	Ŭ			
		1	· Probler	n in ACC SENSOR CHECK or CR VIBRATIONCHECK				
			Replac	ce <u>CARRIAGE UNIT</u> .				
			• Probler	m in LONG FFC CHECK				
			Replac	e <u>FLEXIBLE CABLE UNIT</u> .	na			
			Remove th	he print head and check the condition of print head contacting part	pre			
		2	Replac	onditio				
			Imprope	r conditio				
			Go to 3	3.				
			Clean the	surface of the print head contacting part. (The aste cloth without a nap must be				
			The prob	lem is resolved	S			
		3	Compl	lete.	lap			
			The prob	lem is not resolved	ter			
		⊢	Go to 4	4.	-			
			Replace th	ne print head.				
			Comple	en is resolved				
		4	The prob	lem is not resolved				
			Replac	ce MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>	Cho			
			model).	apr			
		I	∣ • A er	replacement, perform PCB replacement mode and necessary adjustments.	e			

To Error Code Table5-3. Detail of Hardware Error223

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Ch		EC21	2F56		Error	VHTR leak at print head replacement (support number: 1477)		
ap	2				etection	VHTR leak is detected at print head replacement		
te				De	Descriptio			
P						Handling		
					Perform [[DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system.		
					No probl	em		
					Go to 2	2.		
				1	Abnorma	al		
S				1	· Probler	n in ACC. SENSOR CHECK or CR VIBRATIONCHECK		
ap					Replac	e <u>CARRIAGE UNIT</u> .		
tei					Probler	n in LONG FFC CHECK		
2					Replac	e <u>FLEXIBLE CABLE UNIT</u> .		
					Remove th	he print head and check the condition of pri t head contacting part		
					Proper conditio			
				2	Replac	Replace the print head.		
-					Imprope	Improper conditio		
S					UU UU 5.			
ap					Clean the	surface of the print head contacting part. (The aste cloth without a nap must be		
tei					used.)	Least to see a local		
ω				3	The prob	liem is resolved		
					Compi	ele. Jom is not recolued		
					Co to			
					GO LO 4	4.		
-					Replace tr	ie print nead.		
5								
ap					The prob	ler.		
tei				4	Renlac	a MAIN PCB LINIT (Disassembly & Reassembly for 24" model for 36" model for 44"		
4					model			
					■ A er	,. replacement perform PCB replacement mode and peressary adjustments		
		FC21	2F57		Frror	VHTR leak at starting up, cleaning, and print starting (support number: 4801		
					etection	The printer does not recover by rebooting er the VHTR leak error at starting up		
					scrintio	cleaning and print starting		
S						Handling		
bde				1	Reboot th	e printer		
E.				<u> </u>	neboot in			
U								

Chapter 6



EC21	2F58		Error	VHTR leak at rebooting (support number: 1478				
			etection	The printer does not recover by rebooting er the VHTR leak error at starting up,	lap			
		D	escriptio	cleaning, and print starting	ler			
		H	Porform [D		-			
			No proble	pm pm				
			Go to 2)				
		1	Abnorma	I				
		1	· Problem	Problem in ACC. SENSOR CHECK or CR VIBRATIONCHECK				
			Replace	e <u>CARRIAGE UNIT</u> .	a			
		Replace FLEXIBLE CABLE UNIT.						
		⊢	Replace	e <u>FLEXIBLE CABLE UNII</u> .	- r			
			Proper co	nditio				
		2	Replace	ce the print head.				
			Improper	conditio				
			Go to 3	}.	<u> </u>			
			Clean the s	surface of the print head contacting part. (The aste cloth without a nap must be				
			used.)	lam is resolved				
		3	Comple	The problem is resolved				
			The probl	em is not resolved				
			Go to 4	k.				
			Replace the	e print head.				
			The probl	em is resolved	<u>c</u>			
			Comple	ete.	2			
		4	The probl	em is not resolved • MAIN PCP LINIT (Disascembly & Reassembly for 24" model, for 26" model, for 44"				
			model)	e MAIN PCB ONTI (Disassembly & Reassembly <u>tor 24 model</u> , <u>tor 36 model</u> , <u>tor 44</u>				
			• A er	replacement, perform PCB replacement mode and necessary adjustments.				
EC21	2F59		Error	Print head VHTR voltage abnormal (support number: 4801)				
			etection	Abnormal VHTP voltage of the print head is detected				
		D	escriptio		<u> </u>			
		-	D ([D	Handling	<u> </u>			
			No proble	<u>JIAGNOSIS > CR_SYSTEM_CHECKI</u> to diagnose carriage system.				
			Go to 2	2011)				
			Abnormal	l				
		±	· Problem	n in ACC. SENSOR CHECK or CR VIBRATIONCHECK				
			Replace	e <u>CARRIAGE UNIT</u> .				
				· Problem		<u>(</u>		
		⊢	Remove th	e <u>FLEXIBLE CABLE UNII</u> .				
			Proper co	nditio				
		2	Replace	ce the print head.				
			Improper	conditio				
			Go to 3	3.	-			
			Clean the s	surface of the print head contacting part. (The aste cloth without a nap must be				
			used.)	am is resolved	<u>(</u>			
		3	Comple		2			
			The problem is not resolved					
			Go to 4	k.				
			Replace the	e print head.	1 -			
			The proble	em is resolved				
			Complet	te.				
		4	The probl	em is not resolved				
			model)	e IVIAIIN FOD UNIT (DISASSEITIDIY & REASSEITIDIY <u>TOF 24 MODEL, TOF 35 MODEL, TOF 44 </u>				
		1	• A er	replacement, perform PCB replacement mode and necessary adjustments.				



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0		FC21	2F60		Frror	H3V voltage abnormal at print head replacement (support number: 1477)	
ha			2.00		etection		
pte				De	escriptio	Abnormal H3V voltage is detected at print head replacement.	
~					. <u> </u>	Handling	
					Perform [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system.	
					No probl	em	
					Go to	2.	
0				1	Abnorma		
5 Cho					Probler	n in ACC. SENSOR CHECK of CR VIBRATIONCHECK	
pt					Replac	e <u>CARRIAGE UNII</u> .	
er					Probler Replac		
2				⊢	Remove t	he print head and check the condition of print head contacting part	
					Proper conditio		
				2	Replac	Replace the print head.	
					Imprope	Improper conditio	
0					Go to	3.	
Jar					Clean the	surface of the print head contacting part. (The aste cloth without a nap must be	
ote					used.)		
Ξ ω				3	The prob	lem is resolved	
					Compl	ete.	
					The problem is not resolved		
				⊢	GO tO	4.	
					Replace the print head.		
Ch					Comple		
Ide				4	The prob	lem is not resolved	
.er				Ľ	Replac	e MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"	
4					model).	
					• A er	replacement, perform PCB replacement mode and necessary adjustments.	
		EC21	2F61		Frror	H3V voltage abnormal at starting up, cleanin , and print startin	
						(support number: 4801)	
Ω					etection	Abnormal H3V voltage is detected at starting up, cleanin, and print starting	
าลุ					escriptio		
ote						Handling	
ч				11	Keboot th	e printer.	

Chapter 6



Point Each function of se vice mode is operable only when the printer successfully enters in service mode.

226 | 5-3. Detail of Hardware Error SM-17001E-00

EC21	2F62		Error	VHTR leak at rebooting (support number: 1478					
			Detection	The printer does not recover by rebooting er the VHTR leak error at starting up,	ap				
		D	escriptio	cleaning, and print starting	ter				
			Perform [DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system.					
			No probl	em					
		1	G0 t0 2.						
			· Problem in ACC. SENSOR CHECK or CR VIBRATIONCHECK						
			Renlac	CARRIAGE LINIT	na				
	• Problem in LONG FFC CHECK Replace FLEXIBLE CABLE UNIT.								
	Remove the print head and check the condition of print head contacting part								
			Proper co	onditio					
		2	Replac	Replace the print head.					
			Improper conditio						
			Go to	3.	9				
			Clean the	surface of the print head contacting part. (The aste cloth without a nap must be	าล				
			used.)	.)					
		3	The prob	lem is resolved					
			Compl	ete.					
			The prob	The problem is not resolved					
			Go to 4.						
			Replace th	ne print head.					
			The proble	em is resolved	S				
			Comple	ite.	ap				
		4	I ne prob	nem is not resolved	ote				
			Replace MAIN PCB UNIT (Disassembly & Reassembly tor 24" model, tor 36" model, for 44						
		,. replacement perform PCB replacement mode and peressary adjustments							
FC21	2F63	-	Frror	Print head contact error at print head replacement (support number: 1479)					
1021		F)etection						
		D	escriptio	Direct diode sensor detects print head contact failure at print head replacement.					
				Handling					
			Remove tl	he print head and check the condition of prit head contacting part	þ				
			Proper co	nditio	<u>e</u>				
		1	Go to 2.		U				
		1	Imprope	r conditio					
			Clean	the surface of the print head contacting part. (The aste cloth without a nap must be					
			used.)						
			Perform [DIAGNOSIS > CR_SYSTEM_CHECK] to check the result of LONG FFC CHECK.	C				
			Without b	oroken wires	na				
		2	Replace C	ARRIAGE UNIT	pto				
			With bro	ken wires					
			Replac	CE <u>FLEXIBLE CABLE UNII</u> .	G				

0	FC24	2564	F		
ha	EC21	2164	Er	rror	Print head contact error at starting up (support number: 4801
pt				rintio	Direct diode sensor detects print head contact failure at print head replacement.
er			Desci	Πρειο	Handling
4			Pe	rform [[DIAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system
				lo proble	em
				Go to 2	2.
			₁ A	bnorma	l
Ch			1 ·	Problen	n in ACC. SENSOR CHECK or CR VIBRATIONCHECK
ap				Replac	e <u>CARRIAGE UNIT</u> .
ter			.	Problen	
2				Replac	e <u>FLEXIBLE CABLE UNIT</u> .
) Condit	ion of the print head nozzle side surface
			b) Condit	ion of the print head contacting par
			P	roper co	onditio
C.			2	Go to 3	3
nap			A	bnorma	Il conditio
ote				a) Repl	lace the print head.
T 3				b) Clea	in the surface of the print head contacting part. (The ste cloth without a nap must
				be u	ISEG.)
			3 m	odel)	
			• A	A er rep	lacement, perform PCB replacement mode and necessary adjustments.
0	EC21	2F67	Er	rror	Print head H3V voltage abnormal during printing (support number: 4801
hap			Dete	ection	Abnormal H3V voltage of the print head is detected during printing
ote			Desci	riptio	
r 4					
				norm [[]o proble	DIAGNOSIS > CR_SYSTEM_CHECKT to diagnose carriage system.
				Go to 2	2.
			A	bnorma	l
0			1 · Probl	Problen	n in ACC. SENSOR CHECK or CR VIBRATIONCHECK
ha				Replac	e <u>CARRIAGE UNIT</u> .
pte			·	Problen	n in LONG FFC CHECK
Ч СП				Replac	e <u>FLEXIBLE CABLE UNII</u> .
				roper co	ne print nead and check the condition of print nead contacting part
			2	Replac	e the print head.
			- In	nproper	r conditio
0				Go to 3	3.
ha			Cle	ean the	surface of the print head contacting part. (The aste cloth without a nap must be
pte			use	ed.)	
ere			3	he prob	lem is resolved
01				be prob	ele. Iem is not resolved
			''	Go to 4	4.
			Re	place th	e print head.
0			т	he prob	lem is resolved
Cha la				Compl	ete.
Ipt			4 TI	he prob	lem is not resolved
				керlac	e iviain pub unit (disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>
7				■A er	<i>replacement, perform PCB replacement mode and necessary adjustments.</i>
	EC21	2F6D	Er	rror	Print head EEPROM checksum error 2 (support number: 140F)
			Dete	ection	Abnormity is detected in checksum judgement of EEPROM at print head installation
0			Desci	riptio	and starting up.
h					Handling
			I1 IRe	place th	ne print head.

EC21	2F70	Err	or	Print head diode temperature abnormal (reboot request) (support number: 1408)						
		Detec Descri	ction ptio	Abnormal temperature of the diode is detected at diode correction.						
				Handling						
		1 Reb	oot the	printer.						
EC21	2F71	Err	or	Print head diode temperature unstable (support number: 1409)						
		Detec Descri	ption	Diode temperature is detected to be unstable at diode correction.						
				Handling						
		1 Reb	oot the	printer.						
EC21	2F72	Err	or	Print head diode correction er or (reboot request) (support number: 140A)						
		Detec Descri	ction ptio	Abnormal value is detected at diode correction						
				Handling						
		1 Reb	oot the	printer.						
EC21	2F73	Err	or	Print head diode temperature abnormal (print head replacement request) (support number: 1408)						
		Detec Descri	tion ptio	The printer does not recover by rebooting er this error.						
				Handling						
		1 Rep	lace th	e print head.						
EC21	2F74	Err	or	Print head diode temperature unstable (print head replacement request) (support number: 1409)						
		Detec Descri	tion ptio	The printer does not recover by rebooting er this error.						
			Handling							
		1 Rep	lace th	e print head.						
EC21	2F75	Err	or	Print head diode correction er or (print head replacement request) (support number: 140A)						
		Detec Descri	tion ptio	The printer does not recover by rebooting er this error.						
			Î	Handling						
		1 Rep	lace th	e print head.						
EC21	2F7D	Err	or	Print head contact error before non-ejection d tection (support number: 4801						
		Detec Descri	ction ptio	Sending command to the print head is disabled.						
				Handling						
		Ren	nove th	the print head and check the condition of pri t head contacting part						
		Pro	oper co	nditio						
		1	GO TO Z							
			Cloan t	contailed						
			used)	the surface of the print head contacting part. (The aste cloth without a hap Must be						
		Perf	form [D	IAGNOSIS > CR_SYSTEM_CHECK] to diagnose carriage system						
		No	No problem							
			Replace the print head.							
		Ab	Abnormal							
		² · P	Problem in ACC. SENSOR CHECK or CR VIBRATIONCHECK							
			Replace <u>CARRIAGE UNIT</u> .							
		· P	Problem in LONG FFC CHECK							
			Replace	FLEXIBLE CABLE UNIT.						
EC21	2F7E	Err	or	Print head abnormal temperature rising (reboot request) (support number: 5200)						
		Detec Descri	ction ptio	Abnormal temperature rising on the print head heater board is detected.						
		L		Handling						
		1 Reb	oot the	printer.						

Chapter 2

Chapter 3

Chapter 4

EC21	2F7F	Error	Print head abnormal temperature rising (print head replacement request) (support number: 1478)
		Detection Descriptio	The printer detects print head abnormal temperature rising and does not recover by rebooting
			Handling
		1 Replace th	ne print head.
EC22	2F30	Error	Head management sensor position adju tment error (support number: 4801)
		Detection Descriptio	Adjusting head mana ement sensor position is ailed.
			Handling
		Check if th	ne ink is filled i to ink tubes.
		Ink is fille	
			z. t fille
		Perfor	m [DIAGNOSIS > PURGE CHECK] to diagnose ink vacuum of PURGE UNIT.
		1	U
		PURGE UN	NIT ink vacuum diagnosis
		Proper o	peratio
		Perfor	m deep cleaning and fill the ink. When the ink acuum does not recover, replace the
			leau.
		Replac	
		Print user	nozzle check na ern or service nozzle check na ern to check the nozzle condition
		(Check if k	plur or non-ejection appeals at the top and bo om edge line of the nozzle check
		pa ern.)	
		Appropri	ate conditio
		Replac	e <u>HEAD MANAGEMENT SENSOR UNIT</u> .
		Abnorma	al conditio
		Perfor	m deep cleaning and fill the ink. When the ink acuum does not recover, replace the
		print r	1690.
		2	
			Top and bottom
			edge line
			(horizontal line)

Chapter 3

Chapter 4

Chapter 5

Chapter 6

EC23 Peterction Descriptio The head management sensor unit is detected to be faulty at starting up and not opection 4 tection. Handling Check the items below. a) Adherence of paper dust and hairs on the HEAD MANAGEMENT SENSO UNIT. b) Adherence of paying-up of large amount of ink mist on the HEAD MANAGEMENT SENSO UNIT. c) Connector condition 1 Appropriate condition and p oper connectio go to 2. Inappropriate condition or imp oper connectio a) Remove it. b) Perform cleaning or replace <u>HEAD MANAGEMENT SENSOR UNIT.</u> c) Connect the connector. 2 Check if the fuse (FUS202) on MAIN PCB UNIT is disconnected. Connected Connect the connector. 2 Disconnector. Check if the fuse (FUS202) on MAIN PCB UNIT is disconnected. Connected 2 Disconnector. Check if the fuse (FUS202) on MAIN PCB UNIT is disconnected. Replace <u>HEAD MANAGEMENT SENSOR UNIT.</u> c) Connectific connector. 2 Disconnector. Check if the fuse (FUS202) on MAIN PCB UNIT (Disassembly for 24" model, for 36" model, for 4 model. 2 Poisconnector. End-of-life of head management sensor unit (support number: 5816) Memo : Remove the error in service mode a or handling. 2 Error End-of-life of head management sensor exceeds the threshold. Descriptio 2 Error Gap adjustment error (support number: 4801) 2 Detection In k amount in the head management sensor exceeds the threshold.	EC22	2F47		Error	Head management sensor unit failure (support number: 4801)					
Descriptio Jesting of legend of the testion. Handling Check the items below. a) Anherence of paper dust and hairs on the HEAD MANAGEMENT SENSOR UNIT. b) Adherence or laying up of large amount of ink mist on the HEAD MANAGEMENT SENSOR UNIT. c) Connector condition a) Appropriate condition and p oper connectio G c) Z a) Remove It. b) Perform cleaning or replace HEAD MANAGEMENT SENSOR UNIT. c) Connect the connector. Check if the fuse (FUS202) on MAIN PCB UNIT is disconnected. Connect HEAD MANAGEMENT SENSOR UNIT. c) Disconnected Replace HEAD MANAGEMENT SENSOR UNIT. c) Disconnected Replace HEAD MANAGEMENT SENSOR UNIT. c) Disconnected Replace MEAN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 4 model). c) The full of the dam anagement sensor unit (support number: 5816) Memo : Remove the error in service mode a - er handling. Detection Ind-of-Hie of head amanagement sensor unit (support number: 5816) Memo : Remove the error in service mode a - er handling. c) Detection In amount in the head management sensor unit (support number: 5816) Memo : Remove the error in service mode a - er handling. c) Detection In amount in the head management sensor whice support number: 5816) Memo : Remove the error in service mode a - er handling.			D	etection	The head management sensor unit is detected to be faulty at starting up and non					
Handling Check the items below. a) Adherence of paper dust and hairs on the HEAD MANAGEMENT SENSOR UNIT. b) Adherence of paper dust and hairs on the HEAD MANAGEMENT SENSOR UNIT. b) Adherence of paper dust and hairs on the HEAD MANAGEMENT SENSOR UNIT. c) Connector condition a paperopriate condition and p oper connectio Go to 2. inappropriate condition or imp oper connectio a) Remove it. b) Perform cleaning or replace <u>HEAD MANAGEMENT SENSOR UNIT.</u> c) Connect the connector. Check if the fuse (FUS202) on MAIN PCB UNIT is disconnected. Connected Replace <u>HEAD MANAGEMENT SENSOR UNIT.</u> Disconnected Replace <u>HEAD MANAGEMENT SENSOR UNIT.</u> 2 Disconnected Replace <u>HEAD MANAGEMENT SENSOR UNIT.</u> 2 End-of-life of head management sensor unit (support number: SB16) Memo: Termor is service mode a or handling. 2 Error End-of-life of head management sensor exceeds the threshold. 23 Z60E Error Gap adjustment error (support number: 4801) Detection Descriptio Mamoding 1 Replace HEAD MANAGEMENT SENSOR UNIT. Proper connectio Handling 241 Error Gap adjustment error (support number: 4801) <td></td> <td></td> <td>De</td> <td>escriptio</td> <td>ejection d tection.</td>			De	escriptio	ejection d tection.					
22 4001 End-of-life of head management sensor exceeds the threshold. 22 4001 End-of-life of head management sensor exceeds the threshold. 22 4001 End-of-life of head management sensor exceeds the threshold. 23 260E End-of-life of head management sensor exceeds the threshold. 23 261E Enror Ga adjustment error (support number: 4801) 23 2F11 Enror Ga adjustment error (support number: 4801) 23 2F11 Error Ga adjustment error (support number: 4801) 24 Error Ga adjustment error (support number: 4801) 25 2F11 Error Ga adjustment error (support number: 4801) 26 Error Ga adjustment error (support number: 4801) 27 1 Replace HEAD MANAGEMENT SENSOR UNIT. 28 Error Ga adjustment error (support number: 4801) 29 Error Ga a					Handling					
UNIT. c) Connector condition 1 Appropriate condition and p oper connectio 6 to 2. Inappropriate condition or imp oper connectio a) Remove it. b) Perform cleaning or replace HEAD MANAGEMENT SENSOR UNIT. c) Connected Replace HEAD MANAGEMENT SENSOR UNIT. c) Connected Replace HEAD MANAGEMENT SENSOR UNIT. c) Disconnected Replace HEAD MANAGEMENT SENSOR UNIT. c) Disconnected Replace MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 40" model). - A er replacement, perform PCB replacement mode and necessary adjustments. Error Error Educot-HEAD MANAGEMENT SENSOR UNIT. Descriptio Memo: Remove the error in service mode a. er handling. Detection Ink amount in the head management sensor exceeds the threshold. Descriptio Ink amount is the case of AP adjustment. Descriptio Abnormity is detected at GAP adjustment. Descriptio Abnormity is detected at GAP adjustment. Descriptic Communication of MU TI SENSOR UNIT. Proper connectio Replace MUIT SENSOR UNIT. Improper connectio Connect the cable. 223 2F11 Error Multi sensor bus ommunicat				a) Adher b) Adher	rence of paper dust and hairs on the HEAD MANAGEMENT SENSOR UNIT. rence or laying-up of large amount of ink mist on the HEAD MANAGEMENT SENSOR					
23 Go to 2. Inappropriate condition or imp oper connectio a) Remove it. b) Perform cleaning or replace HEAD MANAGEMENT SENSOR UNIT. c) Connect the connector. Check if the fuse (FU5202) on MAIN PCB UNIT is disconnected. Connect ted Replace MEAD MANAGEMENT SENSOR UNIT. 2 Disconnected Replace MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 4 model). * A er replacement, perform PCB replacement mode and necessary adjustments. Error End-of-life of head management sensor unit (support number: 5B16) Memo : Remove the error in service mode a er handling. Detection Ink amount in the head management sensor exceeds the threshold. Detection Ink amount in the head management sensor exceeds the threshold. Detection Ink amount in the head management sensor exceeds the threshold. Detection Abnormity is detected at GAP adjustment. Detection Abnormity is detected at GAP adjustment. Detection Abnormity is detected at GAP adjustment. Detection Check the cable connection of MU TI SENSOR UNIT. Proper connectio Connect the cable. 223 ZF11 Error Multi Sen			1	UNIT. c) Conne Appropr	ector condition iate condition and p oper connectio					
a) Remove II. b) Perform cleaning or replace HEAD MANAGEMENT SENSOR UNIT. c) Connect the connector. Check if the fuse (FU5202) on MAIN PCB UNIT is disconnected. Connected Replace HEAD MANAGEMENT SENSOR UNIT. 2 Disconnected Replace HEAD MANAGEMENT SENSOR UNIT. 2 Disconnected Replace MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 4 model). :22 4001 Error End-of-life of head management sensor unit (support number: 5B16) :24 Memove the error is service mode a er handling. Detection :25 Petection Ind-andling :24 Petection Replace HEAD MANAGEMENT SENSOR UNIT. :25 Error Gap adjustment error (support number: 4801) :260E Error Gap adjustment error (support number: 4801) :260E Error Multi sensor bus ommunication er or (support number: 4801) :27 2611 Error Multi sensor bus ommunication er or (support number: 4801) :28 ZF11 Error Multi sensor bus ommunication er or (support number: 4801) :29 Detection Commettion of MU TI SENSOR UNIT. :20 Proper connectio Handling <t< td=""><td></td><td></td><td></td><td>Go to Inapprop</td><td>2. priate condition or imp oper connectio</td></t<>				Go to Inapprop	2. priate condition or imp oper connectio					
223 2F11 Error Gapacetic Gapacitor 223 2F11 Error Multi sensor bus ommunication er or (support number: 4801) 224 2F11 Error Multi Sensor bus ommunication er or (support number: 4801) 225 2F11 Error Error Error 2604 Error End-of-life of head management sensor unit (support number: 5B16) 272 4001 Error End-of-life of head management sensor exceeds the threshold. 272 2605 Error Ead-of-life of head management sensor exceeds the threshold. 273 2606 Error Gap adjustment error (support number: 4801) 274 Detection Abnormity is detected at GAP adjustment. 275 Porper connectio Concert the cable. 276 Check the cable connection of MU TI SENSOR UNIT. 277 Proper connectio Communicating with multi sensor elated hard ware, such as LED driver and multi bescriptic sensor EEROM, is failed. 273 ZF11 Error Multi sensor mafunction. Communation of or of other ICs is indicated when communication ailure occurs, since confirm tion of or other ICs is indicated when communication ailure occurs, since confirm tion of oromunica				a) Rer b) Per c) Cor	nove it. form cleaning or replace <u>HEAD MANAGEMENT SENSOR UNIT</u> . inect the connector.					
2 Disconnected 3 Pisconnected Replace MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 4 model). • A er replacement, perform PCB replacement mode and necessary adjustments. 222 4001 Error End-of-life of head management sensor unit (support number: 5B16) Memo : Remove the error in service mode a er handling. 1 Replace HEAD MANAGEMENT SENSOR UNIT. 233 260E Error Gap adjustment error (support number: 4801) 1 Replace HEAD MANAGEMENT SENSOR UNIT. Proper connectio 24001 Error Gap adjustment error (support number: 4801) Detection Detection of MU TI SENSOR UNIT. Proper connectio Handling 1 Replace MUIT SENSOR UNIT. Proper connectio Connect the cable. 223 2F11 Error 244 Error Multi sensor bus ommunication er or (support number: 4801) Detection Connect the cable. Handling Check the cable connection of MU TI SENSOR UNIT. Proper connectio 1 Replace MULT SENSOR UNIT. Proper connectio 2523 ZF11 Error Multi sensor malfunction				Check if t Connect	he fuse (FU5202) on MAIN PCB UNIT is disconnected. ed					
22 4001 • A er replacement, perform PCB replacement mode and necessary adjustments. 22 4001 Error End-of-life of head management sensor unit (support number: 5B16) 24 Error End-of-life of head management sensor exceeds the threshold. 25 Detection Descriptio Ink amount in the head management sensor exceeds the threshold. 260E Error Gap adjustment error (support number: 4801) Detection Descriptio Abnormity is detected at GAP adjustment. 260E Error Gap adjustment error (support number: 4801) Detection Descriptio Abnormity is detected at GAP adjustment. 273 Check the cable connectio of MU TI SENSOR UNIT. Proper connectio Connect the cable. 274 Error Multi sensor bus ommunication er or (support number: 4801) Detection Communicating with multi sensor elated hard ware, such as LED driver and multi bescriptio 273 2F11 Error Multi sensor MU TI SENSOR UNIT. Proper connectio Connect the cable. Handling 273 Check the cable connection of MU TI SENSOR UNIT. Proper connectio 274 Error Multi sensor malfunction. Commun ation er or of other ICs is indicated when communica			2	Disconne Replac	ce MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>					
222 4001 Fire of Pepideenenit, perform CB replacement induce and infectessar y adjustments. 222 4001 Error End-of-life of head management sensor unit (support number: 5816) Memo : Remove the error in service mode a er handling. Detection Detection Ink amount in the head management sensor exceeds the threshold. 223 260E Error Gap adjustment error (support number: 4801) Detection Detection Abnormity is detected at GAP adjustment. 223 Check the cable connection of MU TI SENSOR UNIT. Proper connectio Replace MULTI SENSOR UNIT. Proper connectio Replace MULTI SENSOR UNIT. Proper connectio Connect the cable. Error Multi sensor bus ommunication er or (support number: 4801) Detection Detection Communicating with multi sensor elated hard ware, such as LED driver and multi bescriptio 273 2F11 Error Multi sensor bus ommunication er or (support number: 4801) Detection Communicating with multi sensor elated hard ware, such as LED driver and multi bescriptio 274 Error Multi SENSOR UNIT. Proper connectio Connect the cable. 1 Improper connectio Connect the cable. 2711 Error<				mode).					
213 Error Memo : Remove the error in service mode a er handling. Detection Descriptio Ink amount in the head management sensor exceeds the threshold. 223 260E Error Gap adjustment SENSOR UNIT. 223 260E Error Gap adjustment error (support number: 4801) Detection Descriptio Abnormity is detected at GAP adjustment. 223 Check the cable connection of MU TI SENSOR UNIT. Proper connectio Handling Check the cable connection of MU TI SENSOR UNIT. Proper connectio Connect the cable. 223 ZF11 Error Multi sensor bus ommunication er or (support number: 4801) Detection Communicating with multi sensor elated hard ware, such as LED driver and multi sensor EEPROM, is failed. 223 ZF11 Error Multi sensor malfunction. Communication er or of other ICs is indicated when communication of MU TI SENSOR UNIT. Proper connectio Replace MULTI SENSOR UNIT. Improper connectio Connect the cable. This error is caused by Multi sensor malfunction. Communication of the multi sensor ics indicated when communication ailure occurs, since confirm tion of ommunication with of ICs in the carriage is performed prior to confirm tion of ommunication with of ICs in the carriage board I2C bus communication er or (support number: 4801) </td <td>222</td> <td>4001</td> <td></td> <td>• A e</td> <td>End-of-life of head management sensor unit (support number: 5B16)</td>	222	4001		• A e	End-of-life of head management sensor unit (support number: 5B16)					
Detection Descriptio Ink amount in the head management sensor exceeds the threshold. Handling 1 Replace HEAD MANAGEMENT SENSOR UNIT. 223 260E Error Gap adjustment error (support number: 4801) Detection Descriptio Abnormity is detected at GAP adjustment.				Error	Memo : Remove the error in service mode a er handling.					
Handling 1 Replace HEAD MANAGEMENT SENSOR UNIT. 223 260E Error Gap adjustment error (support number: 4801) Detection Descriptio Abnormity is detected at GAP adjustment. Handling Check the cable connection of MU TI SENSOR UNIT. Proper connectio 1 Replace MULTI SENSOR UNIT. Improper connectio 2511 Error Multi sensor bus ommunication er or (support number: 4801) Detection Descriptio Detection Connect the cable. C23 2F11 Error Multi sensor bus ommunication er or (support number: 4801) Detection Descriptio Descriptio Sensor EEPROM, is failed. Handling Check the cable connection of MU TI SENSOR UNIT. Proper connectio Replace MULTI SENSOR UNIT. Improper connectio Replace MULTI SENSOR UNIT. Improper connectio Connect the cable. 1 Improper connectio Connect the cable. This error is caused by Multi sensor malfunction. Commun ation er or of other ICs is indicated when communication ailure occurs, since confirm tio			De De	etection escriptio	Ink amount in the head management sensor exceeds the threshold.					
260E Firror Gap adjustment error (support number: 4801) 223 260E Error Gap adjustment error (support number: 4801) Detection Descriptio Abnormity is detected at GAP adjustment. Image: Second S			1	Doplace						
23 2100 2100 Corport adjustment enror (support number: 4801) Detection Descriptio Abnormity is detected at GAP adjustment. 4 Check the cable connection of MU TI SENSOR UNIT. Proper connectio Replace MULTI SENSOR UNIT. 1 Replace MULTI SENSOR UNIT. 1 Replace MULTI SENSOR UNIT. 1 Improper connectio Connect the cable. Communicating with multi sensor elated hard ware, such as LED driver and multi bescriptio sensor EEPROM, is failed. 23 2F11 Error Multi sensor bus Multi SENSOR UNIT. Proper connectio Communicating with multi sensor elated hard ware, such as LED driver and multi bescriptio sensor EEPROM, is failed. 24 Check the cable connection of MU TI SENSOR UNIT. Proper connectio Replace MULTI SENSOR UNIT. Proper connectio Replace MULTI SENSOR UNIT. 1 Improper connectio Replace MULTI SENSOR UNIT. 1 Improper connectio Connect the cable. 21 This error is caused by Multi sensor malfunction. Commun ation er or of other ICs is indicated when communication ailure occurs, since confirm tion of ommunication with ol ICs in the carriage is performed prior to confirm tion of ommunication with ol ICs in the carriage is performed prior to confirm tion of ommun	73	260F	1	Fror	EAD MANAGEMENT SENSOR UNIT.					
23 2F11 Abnormity is detected at GAP adjustment.	.025	2002		etection						
23 2F11 Error Multi sensor bus ommunication er or (support number: 4801) 23 2F11 Error Multi sensor bus ommunication er or (support number: 4801) 26 Detection Communicating with multi sensor elated hard ware, such as LED driver and multi sensor EEPROM, is failed. 7 Handling 7 Check the cable connection of MU TI SENSOR UNIT. 9 Proper connectio 26 Communicating with multi sensor elated hard ware, such as LED driver and multi bescriptio 9 Detection 1 Berger onnectio 1 Replace MULTI SENSOR UNIT. 9 Proper connectio 1 Improper connectio 1 Improper connectio 20 Connect the cable. 1 Improper connectio 21 Improper connectio 223 2F18 2F18 Error 2F10 Error 2F11 Detection 2C writing and eading to ICs on the carriage board is failed. 2F18 Error 2F18 Perform [DIAGNOSIS > CR_SYSTEM_CHECK] to check broken wires of FLEXIBLE CABLE UNIT. <			De	escriptio	Abnormity is detected at GAP adjustment.					
23 2F11 Check the cable connection of MU TI SENSOR UNIT. Proper connectio Connect the cable. 22.3 2F11 Error Multi sensor bus ommunication er or (support number: 4801) Detection Descriptio Communicating with multi sensor elated hard ware, such as LED driver and multi sensor EEPROM, is failed. Check the cable connectio Onnect the cable. Handling Check the cable connection of MU TI SENSOR UNIT. Proper connectio Replace <u>MULTI SENSOR UNIT</u> . Handling 1 Check the cable connection of MU TI SENSOR UNIT. Proper connectio Connect the cable. Improper connectio Connect the cable. 21 Error Carriage by Multi sensor malfunction. Commun ation er or of other ICs is indicated when communication ailure occurs, since confirm tion of ommunication with of ICs in the carriage is performed prior to confirm tion of ommunication of the multi sens . 223 2F18 Error Carriage board I2C bus communication er or (support number: 4801) Detection Descriptio I2C writing and eading to ICs on the carriage board is failed. 21 Replace <u>CARRIAGE UNIT</u> . Without broken wires Handling Perform [DIAGNOSIS > CR_SYSTEM_CHECK] to check broken wires of FLEXIBLE CABLE UNIT. Without broken wires Handling					Handling					
23 2F11 Proper connectio Replace MULTI SENSOR UNIT. Improper connectio Connect the cable. 223 2F11 Error Multi sensor bus ommunication er or (support number: 4801) Detection Communicating with multi sensor elated hard ware, such as LED driver and multi bescriptio Descriptio Communicating with multi sensor elated hard ware, such as LED driver and multi bescriptio Detection Communicating with multi sensor elated hard ware, such as LED driver and multi bescriptio Sensor EEPROM, is failed. Handling Check the cable connection of MU TI SENSOR UNIT. Proper connectio Replace MULTI SENSOR UNIT. Proper connectio Replace MULTI SENSOR UNIT. Improper connectio Connect the cable. This error is caused by Multi sensor malfunction. Commun ation er or of other ICs is indicated when communication ailure occurs, since confirm tion of ommunication with of ICs in the carriage is performed prior to confirm tion of ommunication with of ICs in the carriage is performed prior to confirm tion of ommunication with of ICs in the carriage is performed prior to confirm tion of ommunication with end to be complexity of the multi sensor :23 2F18 Error Carriage board I2C bus communication er or (support number: 4801) Detection Detection Detection Detection Detection Detection I2C writing and eading to ICs				Check the	e cable connection of MU TI SENSOR UNIT.					
1 Replace MULTI SENSOR UNIT. Improper connectio Connect the cable. 223 2F11 Error Multi sensor bus ommunication er or (support number: 4801) Detection Communicating with multi sensor elated hard ware, such as LED driver and multi sensor EEPROM, is failed. Error Multi Sensor DUTI SENSOR UNIT. Proper connectio Replace MULTI SENSOR UNIT. Proper connectio Replace MULTI SENSOR UNIT. 1 Improper connectio Connect the cable. • This error is caused by Multi sensor malfunction. Commun ation er or of other ICs is indicated when communication ailure occurs, since confirm tion of ommunication with of ICs in the carriage is performed prior to confirm tion of ommunication with of ICs in the carriage board I2C bus communication er or (support number: 4801) Detection Descriptio I2C writing and eading to ICs on the carriage board is failed. Handling Perform [DIAGNOSIS > CR_SYSTEM_CHECK] to check broken wires of FLEXIBLE CABLE UNIT. Without broken wires 1 Replace CARRIAGE UNIT. Without broken wires			1	Proper c						
223 2F11 Error Multi sensor bus ommunication er or (support number: 4801) Detection Communicating with multi sensor elated hard ware, such as LED driver and multi sensor EEPROM, is failed. Handling Check the cable connection of MU TI SENSOR UNIT. Proper connectio Replace MULTI SENSOR UNIT. Improper connectio Connect the cable. • This error is caused by Multi sensor malfunction. Communication of the multi sensor is caused by Multi sensor malfunction. Communication of the multi sensor 223 2F18 Error Carriage board I2C bus communication er or (support number: 4801) Detection Detection Detection Connect the cable. • This error is caused by Multi sensor malfunction. Communication of the multi sensor • Check the cable communication ailure occurs, since confirm tion of ommunication with ot ICs in the carriage is performed prior to confirm tion of ommunication of the multi sensor • This error Carriage board I2C bus communication er or (support number: 4801) Detection Detection Descriptio I2C writing and eading to ICs on the carriage board is failed. • Handling Perform [DIAGNOSIS > CR_SYSTEM_CHECK] to check broken wires of FLEXIBLE CABLE UNIT. Without broken wires 1 Replace CARRIAGE UNIT				Imprope	r connectio					
23 2F11 Error Multi sensor bus ommunication er or (support number: 4801) Detection Communicating with multi sensor elated hard ware, such as LED driver and multi sensor EEPROM, is failed. Handling Check the cable connection of MU TI SENSOR UNIT. Proper connectio Replace MULTI SENSOR UNIT. Improper connectio Connect the cable. • This error is caused by Multi sensor malfunction. Commun ation er or of other ICs is indicated when communication ailure occurs, since confirm tion of ommunication with of ICs in the carriage is performed prior to confirm tion of ommunication of the multi sensor 23 2F18 Error Carriage board I2C bus communication er or (support number: 4801) Detection Detection I2C writing and eading to ICs on the carriage board is failed. Handling Perform [DIAGNOSIS > CR_SYSTEM_CHECK] to check broken wires of FLEXIBLE CABLE UNIT. Without broken wires 1 Replace CARRIAGE UNIT. Without broken wires				Conne	ect the cable.					
23 2F18 Error Carriage board 12C bus communication er or (support number: 4801) 23 2F18 Error Carriage board 12C bus communication er or (support number: 4801) 21 Detection Perform [DIAGNOSIS > CR_SYSTEM_CHECK] to check broken wires of FLEXIBLE CABLE UNIT. 21 Without broken wires 1 23 2F18 Error 23 2F18 Error 24 Detection Detection 25 Error Carriage board 12C bus communication er or (support number: 4801) 25 Error Carriage board 12C bus communication er or (support number: 4801) 26 Detection 12C writing and eading to 1Cs on the carriage board is failed. 27 Without broken wires 1 Replace CARRIAGE UNIT.	23	2F11		Error	Multi sensor bus ommunication er or (support number: 4801)					
Handling Handling Check the cable connection of MU TI SENSOR UNIT. Proper connectio Replace MULTI SENSOR UNIT. Improper connectio Connect the cable. • This error is caused by Multi sensor malfunction. Communication er or of other ICs is indicated when communication ailure occurs, since confirm tion of ommunication with or ICs in the carriage is performed prior to confirm tion of ommunication of the multi sensor. Carriage board I2C bus communication er or (support number: 4801) Detection Perform [DIAGNOSIS > CR_SYSTEM_CHECK] to check broken wires of FLEXIBLE CABLE UNIT. With broken			D	etection	Communicating with multi sensor elated hard ware, such as LED driver and multi					
Check the cable connection of MU TI SENSOR UNIT. Proper connectio Replace MULTI SENSOR UNIT. Improper connectio Connect the cable. • This error is caused by Multi sensor malfunction. Commun ation er or of other ICs is indicated when communication ailure occurs, since confirm tion of ommunication with of ICs in the carriage is performed prior to confirm tion of ommunication of the multi sens . 223 2F18 Error Carriage board I2C bus communication er or (support number: 4801) Detection Detection Descriptio I2C writing and eading to ICs on the carriage board is failed. Handling Perform [DIAGNOSIS > CR_SYSTEM_CHECK] to check broken wires of FLEXIBLE CABLE UNIT. Without broken wires 1 Replace CARRIAGE UNIT. Without broken wires 1 Replace CARRIAGE UNIT.					Handling					
223 2F18 Error Carriage board I2C bus communication er or (support number: 4801) Detection Detection I2C writing and eading to ICs on the carriage board is failed. Handling Perform [DIAGNOSIS > CR_SYSTEM_CHECK] to check broken wires of FLEXIBLE CABLE UNIT. With backen wires Replace CARRIAGE UNIT.				Check the	e cable connection of MU_TI SENSOR UNIT.					
Replace MULTI SENSOR UNIT. Improper connectio Connect the cable. • This error is caused by Multi sensor malfunction. Communication er or of other ICs is indicated when communication ailure occurs, since confirming tion of ommunication with or ICs in the carriage is performed prior to confirming tion of ommunication of the multi sensor. C23 2F18 Error Carriage board I2C bus communication er or (support number: 4801) Detection I2C writing and eading to ICs on the carriage board is failed. Handling Perform [DIAGNOSIS > CR_SYSTEM_CHECK] to check broken wires of FLEXIBLE CABLE UNIT. Without broken wires 1 Replace CARRIAGE UNIT. With broken wires				Proper c	onnectio					
1 Improper connectio Connect the cable. • This error is caused by Multi sensor malfunction. Commun ation er or of other ICs is indicated when communication ailure occurs, since confirm tion of ommunication with of ICs in the carriage is performed prior to confirm tion of ommunication of the multi sens 23 2F18 Error Carriage board I2C bus communication er or (support number: 4801) Detection Descriptio I2C writing and eading to ICs on the carriage board is failed. • Handling • Perform [DIAGNOSIS > CR_SYSTEM_CHECK] to check broken wires of FLEXIBLE CABLE UNIT. • Without broken wires 1 Replace CARRIAGE UNIT. • With broken wires				Repla	ce <u>MULTI SENSOR UNIT</u> .					
2523 2F18 Error Carriage board I2C bus communication er or (support number: 4801) Detection Detection Detection Detection Detection Detection Detection Detection Detection Error Carriage board I2C bus communication er or (support number: 4801) Detection Detection Detection Detection Detection Berform [DIAGNOSIS > CR_SYSTEM_CHECK] to check broken wires of FLEXIBLE CABLE UNIT. Without broken wires Replace CARRIAGE UNIT. With broken wires			1	Imprope	r connectio					
223 2F18 Error Carriage is performed prior to confirm tion of ommunication of the multi sensor numerication er or (support number: 4801) Detection Detection I2C writing and eading to ICs on the carriage board is failed. Handling Perform [DIAGNOSIS > CR_SYSTEM_CHECK] to check broken wires of FLEXIBLE CABLE UNIT. Without broken wires 1 Replace CARRIAGE UNIT. With broken wires				• This erro	culule capie. This caused by Multi sensor malfunction Community ation or or of other ICs is					
2713 2F18 Error Carriage is performed prior to confirm tion of ommunication of the multi sens 223 2F18 Error Carriage board I2C bus communication er or (support number: 4801) Detection Detection I2C writing and eading to ICs on the carriage board is failed. Handling Perform [DIAGNOSIS > CR_SYSTEM_CHECK] to check broken wires of FLEXIBLE CABLE UNIT. Without broken wires 1 Replace CARRIAGE UNIT. With broken wires 1				indicated	when communication ailure occurs since confirm tion of ommunication with other					
23 2F18 Error Carriage board I2C bus communication er or (support number: 4801) Detection Detection I2C writing and eading to ICs on the carriage board is failed. Handling Perform [DIAGNOSIS > CR_SYSTEM_CHECK] to check broken wires of FLEXIBLE CABLE UNIT. Without broken wires 1 Replace CARRIAGE UNIT. With broken wires 1				ICs in the	carriage is performed prior to confirm tion of ommunication of the multi sens .					
Detection Descriptio I2C writing and eading to ICs on the carriage board is failed. Handling Perform [DIAGNOSIS > CR_SYSTEM_CHECK] to check broken wires of FLEXIBLE CABLE UNIT. Without broken wires 1 Replace CARRIAGE UNIT. With broken wires	23	2F18		Error	Carriage board I2C bus communication er or (support number: 4801)					
Descriptio Handling Handling Handling Perform [DIAGNOSIS > CR_SYSTEM_CHECK] to check broken wires of FLEXIBLE CABLE UNIT. Without broken wires 1 Replace CARRIAGE UNIT. With broken wires			D	etection	12C writing and leading to ICs on the carriage board is failed					
Handling Perform [DIAGNOSIS > CR_SYSTEM_CHECK] to check broken wires of FLEXIBLE CABLE UNIT. Without broken wires 1 Replace CARRIAGE UNIT. With broken wires			Descriptio							
 Perform <u>IDIAGNOSIS > CR_SYSTEM_CHECK</u> to check broken wires of FLEXIBLE CABLE UNIT. Without broken wires Replace <u>CARRIAGE UNIT</u>. With broken wires 				Deufer						
1 Replace <u>CARRIAGE UNIT</u> .				Perform [DIAGNOSIS > CR_SYSTEM_CHECK] to check broken wires of FLEXIBLE CABLE UNIT.						
With broken wires			1							
				Keplace <u>CARRIAGE UNII</u> . With broken wires						
Replace FLEXIBLE CABLE UNIT.			1	Donla						

EC23	2F32	Error	Multi sensor er or (support number: 4801)					
		Detection	Abnormity is detected in multi sensor EEP OM reading at each automatic					
		Descriptio	adjustment, paper edge detection, GAP adju tment, and starting up.					
			Handling					
		Check th	e cable connection of MU TI SENSOR UNIT.					
		Proper of	connectio					
		1 Repla	ce <u>MULTI SENSOR UNIT</u> .					
		Imprope	er connectio					
		Conn	ect the cable.					
EC24	4049		Abnormal temperature by temperature and humidity sensor (support number:					
		Error	8200)					
			Memo: Remove the error in service mode a er handling.					
		Detection Descriptio	Abnormity is detected at reading temperature.					
		· · ·	Handling					
		Check th	e cable connection of SENSOR, HUMIDIT .					
		Proper of	er connectio					
		1 Repla	ce <u>SENSOR, HUMIDITY</u> .					
		Imprope	er connectio					
		Conn	ect the cable.					
EC24	404A	Error	Abnormal humidity by temperature and humidity sensor (support number: 8200)					
			Memo: Remove the error in service mode a er handling.					
		Detection Descriptio	Abnormity is detected at reading humidity.					
			Handling					
		Check th	e cable connection of SENSOR, HUMIDIT .					
		Proper of	connectio					
		1 Repla	ce <u>SENSOR, HUMIDITY</u> .					
		Imprope	er connectio					
		Conn	ect the cable.					
EC24	404B	Frror	Temperature and humidity sensor non-connection (support number: 8200					
			Memo: Remove the error in service mode a er handling.					
		Detection	Abnormity is detected at reading temperature and humidity.					
		Descriptio	Handling					
		Proper	connection					
		1 Repla	CE SENSOR HUMIDITY					
			er connectio					
		Conn	ect the cable.					

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EC25	2F16		Error	ror Mist fan error (support number: 4801)						
		Detection Descriptio Abnormity is detected at reading humidity.								
		Handling								
	Check the cable connection of MI T FAN. Proper connectio									
		1	Go to	2.						
			Conne	r connectio	0					
		⊢	Replace th	ne parts below.	hap					
	<24" model> MIST FAN DUCT UNIT 2									
				el>						
			<pre>44" mod</pre>	MIST FAIN DUCT UNIT 1, WIST FAIN DUCT UNIT 3						
		2	MIST FAN	MIST FAN DUCT UNIT 1, MIST FAN DUCT UNIT 2						
			The prob Compl The prob Replac model	ilem is resolved lete. ilem is not resolved ce MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u> i).	apter 3					
			• A er	replacement, perform PCB replacement mode and necessary adjustments.						
EC25	4001		Error End-of-life of mist collecting duct (support number: 5B20 Memo: Remove the error in service mode a er handling.							
			etection escriptio	Ink amount in the mist collecting duct xceeds the threshold.						
				Handling	4					
			Replace th	Replace the parts below.						
		1	<24" mod MIST FAN <36" mod MIST FAN <44" mod MIST FAN	el> <u>DUCT UNIT 2</u> el> <u>DUCT UNIT 1, MIST FAN DUCT UNIT 3</u> el> DUCT UNIT 1, MIST FAN DUCT UNIT 2	Chapter 5					

Ink Supply System

E Code	Detail Code			Descriptio						
EC31	2F09		Error	Wiper blade encoder and motor error (support number: 4801)						
		De	etection escriptio	The encoder does not detect the wiper moved to the specified positio						
			Handling							
			Check if th	ne foreign substances such as paper debris are adhering around PURGE UNIT.						
			Without	foreign substances						
		1	Go to 2.							
			With for	eign substances						
			Remov	ve the foreign substances.						
			Perform	DIAGNOSIS > PURGE CHECK > INITIALIZE CHECK] to check purge unit operation						
			Proper o	peratio						
		2	Reboo	t and recheck operation						
			Imprope	r operatio						
EC21	2510		Error	Viner blade meter overlead (support number: 4801)						
ECSI		┝╴								
			escriptio	The motor keeps 100% output.						
				Handling						
			Check if the foreign substances such as paper debris are adhering around PURGE							
			Without	; foreign substances						
		1	Go to	2.						
			With fore	eign substances						
			Remov	ve the foreign substances.						
			Perform [DIAGNOSIS > PURGE CHECK > INITIALIZE CHECK] to check purge unit operation						
			Proper o	peratio						
		2	Reboo	t and recheck operation						
FC 24	2540		Керіас	ie <u>PORGE UNII</u> .						
EC31		\vdash	Error	WIPER Diade position di tecting sensor er or (support number: 4801)						
				wiper to the specified positio						
			escriptio							
			Chock if th							
			Without	foreign substances						
		1	Go to	7						
		Ľ	With foreign substances							
			Remov	ve the foreign substances.						
			Perform [DIAGNOSIS > PURGE CHECK > INITIALIZE CHECK] to check purge unit operation							
			Proper op	eratio						
		2	Reboot ar	nd recheck operation						
			Imprope	r operatio						
			Replac	e <u>PURGE UNIT</u> .						

Chapter 2



Point Each function of se vice mode is operable only when the printer successfully enters in service mode.

234 5-3. Detail of Hardware Error SM-17001E-00

5004		-	-								
EC31	2F1C		Error	Purge main cam sensor error (support number: 4801)							
			etection	The following failure is detected.	pt						
		D	escriptio	· Ini aliza on of purge main cam posi on is failed.	ier						
		<u> </u>	•	CARRIAGE UNIT is not able to be moved to the specified position when capping.							
			Handling								
			Check the	items below.							
			a) The foreign substances such as paper debris are adhering around PURGE UNIT.								
			b) Scratcl	h or stain on FILM, TIMING SLIT STRIP.							
		1	Without	paper debris, scratch, and stain	5						
			Go to	2.	de						
			with pap	per debris, scratch, and stain	ter						
			a) Reff	Tove the foreign substance.	N						
		-		cking CAPPIAGE LINIT with [EUNCTION > CP LINI OCK] perform [EUNCTION > CP							
				therk CARRIAGE UNIT lock operation							
			Proper of	neratio							
		2	Reboo	t and recheck the operation	0						
			Abnorma	al operatio	ch a						
			Replac	e PURGE UNIT.	pt						
EC31	2F1D		Error	Purge motor error (support number: 4801)	er.						
			etection		ω						
		D	escriptio	The motor does not operate.							
				Handling	1						
			Check if th	ne foreign substances such as paper debris are adhering around PURGE UNIT.	1						
			Without	foreign substance	0						
		1	Go to 2	2.	ha						
			With foreign substances								
			Remov	ve the foreign substance.							
			Perform [DIAGNOSIS > PURGE CHECK > INITIALIZE CHECK] to check purge unit operation								
			Proper o	peratio							
		2	Reboo	t and recheck the operation							
			Abnorma	al operatio							
			Replac	e <u>PURGE UNIT</u> .	<u>ୁ</u>						
EC31	2F1E		Error	Purge motor overload (support number: 4801)							
			etection	The motor keeps 100% output.	te						
			escriptio	Ling	ើ						
		-	Charle if th								
				foreign substances such as paper debris are adhering around PORGE UNIT.							
		1	Go to	7							
		±	With fore	z. Pign substances							
			Remov	Remove the foreign substance							
		⊢	Perform [DIAGNOSIS > PURGE CHECK > INITIALIZE CHECK] to check purge unit operation								
			Proper o								
		2	Reboo	t and recheck the operation	6						
			Abnormal operatio								
			Replac	e <u>PURGE UNIT</u>							
EC31	2F1F		Error	Pump roller position d tecting sensor er or (support number: 4801)	1						
			etection	The PUMP ROLLER SENSOR fails to detect pump rolling position when driving the							
		D	escriptio	pump.	ha						
				Handling	pto						
			Check if th	ne foreign substances such as paper debris are adhering around PURGE UNIT.	er						
			Without foreign substance								
		1 Go to 2.									
		1	With fore	eign substances							
			Remov	ve the foreign substance.							
		1	Perform [DIAGNOSIS > PURGE CHECK > INITIALIZE CHECK] to check purge unit operation								
			Proper operatio								
		2	Reboo	t and recheck the operation	pto						
		1	Abnorma	al operatio	er						
			Replac	e <u>PURGE UNIT</u> .	00						

EC31	2F22	Error Purg	e motor drive timeout (support number: 4801
		Detection The	ourge motor drive does not complete the specified ope ation within the
		Descriptio spec	ified time
			Handling
		Check if the for	eign substances such as paper debris are adhering around PURGE UNIT.
		Without forei	yn substance
		1 Go to 2.	
		With foreign s	ubstances
		Remove the	foreign substance.
		Perform [DIAG	<u>NOSIS > PURGE CHECK > INITIALIZE CHECK</u> to check purge unit operation
		Proper operat	0
		Z Reboot and	recheck the operation
		Replace the	
FC31	2F23	Error Wine	er blade motor drive timeout (support number: 4801
2001		Detection The	purge motor drive does not complete the specified operation within the
		Descriptio spec	ified tim
		· · · ·	Handling
		Check if the for	eign substances such as paper debris are adhering around PURGE UNIT.
		Without foreig	gn substance
		1 Go to 2.	
		With foreign s	ubstances
		Remove the	foreign substance.
		Perform [DIAG	NOSIS > PURGE CHECK > INITIALIZE CHECK] to check purge unit operation
		Proper operat	
		2 Reboot and	recheck the operation
		Abnormal ope	
FC24	2504	Replace the	PORGE UNII.
EC31	2F94	Error Carr	age obstacle error (support number: 4801)
		Detection whe	the opposite direction of CARRI. GELINIT scapning direction
			Handling
		Check the item	shelow
		a) The foreign	substances such as paper debris around PURGE UNIT.
		b) The purge l	ock pin to strikes to CARRIAGE UNIT during CARRIAGE UNIT operation
		No foreign sul	ostance and the purge lock pin does not strike
		Go to 2.	
		Foreign substa	nce is adhering or the purge lock pin strikes
		a) Remove	he foreign substance.
		b) Replace t	he <u>PURGE UNIT</u> .
EC31	4001	Error End-	of-life of purge unit (support number: 5C00)
		Detection	iviemo : Remove the error in service mode a ler handling.
		Detection The	purge unit lifespan runs out.
		Descriptio	Handling
		1 Replace the PU	RGELINIT
FC33	4001		of-life of tube unit (support number: B510)
LCSZ	4001	Error	Memo · Remove the error in service mode a er handling
		Detection The	amount of carriage scan time, yceeds the threshold, and the tube unit lifesnan
		Descriptio runs	out.
			Handling
		1 Replace the INI	TUBE UNIT.
FC33	402x	Chol	e valve leak at initial ink filling (support number: 5A6
		Error	Memo : Remove the error in service mode a er handling.
		The	nk level detection pin d tects ink filling ailure of the sub tank.
		Detection Refe	rence: Ink colors are identified with the l t number of detail codes. (Detail of
		Descriptio the l	ast numbers)
			Handling
		1 Replace the SU	B INK TANK UNIT that ink filling er or occurred. (Disassembly & Reassembly for
		SUB INK TANK	JNIT R)

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Chapter 7

EC34	2602	Error	Right choke valve drive timeout (support number: 4801					
		Detection Descriptio	The choke valve does not complete driving within the scheduled time.					
			Handling					
	[DIAGNOSIS > I/O DISPLAY] to check the RIGHT CHOKE VALVE POSITION SENSOR operatio ot and recheck the operation in the printer does not recover, drive system overload is suspected. In this case, ce the <u>SUB INK TANK UNIT R</u> . al operatio ce the <u>SUB INK TANK UNIT R</u> .							
C34	2605	Error	Right agitation alve drive timeout (support number: 4801					
		Detection Descriptio	The agitation alve does not complete driving within the scheduled time					
			Handling					
		Perform operation Proper of Reboo 1 Wher replac Abnorm Repla	[DIAGNOSIS > I/O DISPLAY] to check the RIGHT CHOKE VALVE POSITION SENSOR operatio ot and recheck the operation of the printer does not recover, drive system overload is suspected. In this case, ce the <u>SUB INK TANK UNIT R</u> . al operatio ce the <u>SUB INK TANK UNIT R</u> .					
EC34	2F3B	Error	Right ink valve motor error (support number: 4801)					
		Detection Descriptio	Encoder value of the right ink valve motor is not detected.					
			Handling					
		1 Replace t	he <u>SUB INK TANK UNIT R</u> .					

Four Each function of se vice mode is operable only when the printer successfully enters in service mode.

To Error Code Table 5-3. Detail of Hardware Error 237 SM-17001E-00



Chap	EC3F	2F40		Error	Complete non-ejection in all olors through non-ejection d tectio (support number: 1492)
oter			D De	etection escriptio	Complete non-ejection in all olors through non-ejection d tection
F					Handling
				Check the	items below.
				a) Foreig	n substances such as paper debris around HEAD MANAGEMENT SENSOR UNIT.
				b) Tubes	are filled vink.
Ç				c) SIX-RI	NG RUBBER CHAIN is a ached properly. (when this error occurs a er TUBE UNIT
lap				replac	ement).
ote					and the second
r 2					
					1
0					
ha					
pt					
er					
ω			1		
					1
9					improper a achment
nap				No foreig	n substances and ink is fille
ote				Go to 2	2*.
r 4				Foreign s	ubstances are adhering or tubes are not filled y ink.
				a) Ren	nove the foreign substance.
				b) Go t	
				c) Cori	rect the SIX-RING RUBBER CHAIN a achment position
				* Thoro is	little possibility of pri-t head contact failure factor (because print head contact
cha				failure is c	becked by the automatic diagnosis t print head installation or b fore performing
pt				non-ejecti	ion d tection)
er				Check the	items below.
G				a) Printal	bility of the service nozzle check pa ern.
				b) Perfor	m [DIAGNOSIS > CR_SYSTEM_CHECK] to check broken wires of FLEXIBLE CABLE
				UNIT.	
			2	Printable	without broken wires
C				Replac	e <u>HEAD MANAGEMENT SENSOR UNIT</u> .
lap					able of broken wires
ote				a) Rep	lace the ELEXIBLE CABLE LINIT
r 6				Perform []	DIAGNOSIS>PLIRGE CHECK>PRESSURE CHECK1 to check vacuum operation of PLL_GE
				UNIT.	Shanosish onde eneeks nessone eneek to eneek vacuum operation of to de
				Proper o	peratio
			3	Go to 4	4.
0				Abnorma	al operatio
ha				Replac	te the PURGE UNIT.
pt				Replace th	ne <u>TUBE UNIT</u> .
r r				The prob	lem is resolved
7			4	Compl	ete.
				Ine prob	nem is not resolved
				filled	e the sub tank unit, the <u>SUD INK TANK UNIT K</u> , OF the COIOF that lifk has not been
		I		mea.	

EC3F	2F41	E	Error	Complete non-ejection in one olor (support number: 1492)						
		Det	tection	Non-ejection in all n zzles of the one color is detected through non-ejection						
		Dese	criptio	detection er cleaning.						
		Handling								
		C	heck if th	e ink is filling i to tubes.						
		Ir	nk is fille							
		1 G	io to 2. (Ii	nsuffici t ink in the print head or print head defect is suspected.)						
			Ink is not	fille						
			Go to 3.							
		P	Perform deep cleaning and print nozzle check pa ern.							
		2	Complete.							
			Inappropriate							
			Replac	e the print head.						
		R	eplace th	e <u>TUBE UNIT</u> .						
		'	The prob	lem is resolved						
		2	Compl	ete.						
			The prob	lem is not resolved						
			Replac	e the sub tank unit, the <u>SUB INK TANK UNIT R</u> , of the color that ink has not been						
			filled							

ach	function	of se	vice r	node is	operable	only when	the	printer	success	fully	enters in	n servi	ice r	node.
						,				,				

To Error Code Table
5-3. Detail of Hardware Error | 239
SM-17001E-00



Chap	EC3F	4120 4121		Error Ink vacuum error at initial ink filling. (support number: B51 Memo: Remove the error in service mode when handling is completed.
oter 1		4122 4123	D De	etection A er filling ink o the sub tank, ink filling i to the tubes and the print head fails.
		4126		Handling
				Check if ink is filling each tube and check ink filling ondition y each cap. Not ink filling ailure by each cap Go to 2.
Chapte				Ink filling ailure by each cap Replace the <u>PURGE UNIT</u> .
er 2				<the check="" filling="" ink="" of="" ondition="" places="" td="" to="" tubes<=""></the>
Chapter 3			1	
0				<the be="" by="" cap="" each="" ink="" to="" vacuumed=""></the>
hapter 4				
Chapte				
ч				MBK,BK,MBK Y, M, C
			2	Perform [FUNCTION > HEAD REPLACEMENT] and remove the print head. Install the other print head. Then, check the installation functio Proper functio
Chapte			2	Replace the print head. Improper functio Go to 3.
r6			3	Replace the <u>IUBE UNII</u> . The problem is resolved Complete. The problem is not resolved Replace the sub tank unit, the <u>SUB INK TANK UNIT R</u> , of the color that ink has not been filled
hapter 7				

To Error Code Table

240 5-3. Detail of Hardware Error SM-17001E-00

Waste Ink System

Detail	Descriptio					
Code						
4001	Error	End-of-life of platen fan duct (support number: 5B20)				
		Memo : Remove the error in service mode a er handling.				
	Detection Descriptio	Ink filled up in SU TION FAN UNIT or in SUCTION FAN DUCT UNIT is detected.				
		Handling				
	1 Replace t	ne <u>SUCTION FAN UNIT</u> or <u>SUCTION FAN DUCT UNIT</u> .				
4001	Error	End-of-life of waste ink absorber unit A (support number: 5B20) Memo : Remove the error in service mode a er handling.				
	Detection Descriptio	Ink filled up in ASTE INK ABSORBER UNIT A is detected.				
		Handling				
	1 Replace t	ne <u>WASTE INK ABSORBER UNIT A</u> .				
4001	Error	End-of-life of waste ink absorber unit B (support number: 5B20) Memo : Remove the error in service mode a er handling.				
			Detection Descriptio	Ink filled up in ASTE INK ABSORBER UNIT B is detected.		
		Handling				
	1 Replace t	ne <u>WASTE INK ABSORBER UNIT B</u> .				
4001	Error	End-of-life of waste ink absorber unit C (support number: 5B20) Memo : Remove the error in service mode a er handling.				
	Detection Descriptio	Ink filled up in ASTE INK ABSORBER UNIT C is detected.				
		Handling				
	1 Replace t	he WASTE INK ABSORBER UNIT C.				
4001		End-of-life of waste ink absorber unit (support number: 5B20)				
	Error	Memo : Remove the error in service mode a er handling.				
	Detection Descriptio	Ink filled up in ASTE INK ABSORBER UNIT is detected.				
		Handling				
	1 Replace t	he WASTE INK ABSORBER UNIT.				
4001	Error	End-of-life of waste ink tank unit (support number: 5B21)				
	Detection	Ink filled up in ASTE INK TANK UNIT is detected.				
	Descriptio	Handling				
	1 Replace t	he WASTE INK TANK LINIT				
4001	1 neplace ti	End-of-life of waste ink tank unit (support number: 5820)				
	Error	Memo : Remove the error in service mode a er handling.				
	Detection					
	Descriptio	Ink filled up in ASTE INK ABSORBER UNIT E is detected.				
		Handling				
	1 Replace t	ne <u>WASTE INK ABSORBER UNIT E</u> .				
	Detail Code 4001 4001 4001 4001 4001 4001 4001 4001	Detail CodeError4001ErrorDetection Descriptio1Replace the Detection Descriptio4001Error1Replace the Detection Descriptio4001Error4001Error1Replace the Detection Descriptio4001Error1Replace the Detection Descriptio4001Error4001Error1Replace the Detection Descriptio4001Error1Replace the Detection Descriptio4001Error4001Error1Replace the Detection Descriptio4001Error1Replace the Detection Descriptio4001Error1Replace the Detection Descriptio4001Error1Replace the Detection Descriptio1Replace the Detection Descriptio1Replace the 				

Electric System

E Code	Detail Code		Descriptio			
EC51	203C	Error	Motor driver boot sequence failure (support number: 4803)			
		Detection Descriptio	Motor driver boot sequence was not completed properly in starting up			
			Handling			
		When the 1 Reassemt	printer does not recover by rebootin , replace MAIN PCB UNIT (Disassembly & ply <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44" model</u>).			
EC51	2F07	Error	USB Vbus overcurrent (support number: 9000)			
		Detection Descriptio	Vbus overcurrent is detected.			
			Handling			
		1 Reboot.	-			
EC51	2F14	Error	Main PCB I2C bus error (support number: 4801)			
		Detection	Abnormal checksum value of the ink agitation timer or ink cleaning timer			
		Descriptio	detected, or accessing DA converter is disabled.			
		Deinstellt	Handling			
		Reinstall t	ne fir Ware.			
			lete			
		1 The prob	lem is not resolved			
		Replac	ce MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"			
		mode	<u>model</u>).			
		A ei	replacement, perform PCB replacement mode and necessary adjustments.			
EC51	2F15	Error	Unable to allocate memory (support number: 4801)			
		Detection Descriptio	Acquisition of OS memo y pool packet is disabled.			
			Handling			
		Reinstall t	he fir ware.			
		The prot	olem is resolved			
		1 The prot	lete. Nem is not resolved			
		Replace	The MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"			
		mode).			
		• A ei	replacement, perform PCB replacement mode and necessary adjustments.			
EC51	2F38	Error	Access cover open error at the cover locking (support number: 1214)			
		Detection Descriptio	Cover open is detected when the access cover is being locked.			
			Handling			
		Close the	access cover, and reboot.			
		The prob	lem is resolved			
			lete.			
			nem is not resolved The MAIN PCB LINIT (Disassembly & Reassembly for 24" model for 26" model for 44"			
		mode).			
		• A e	replacement, perform PCB replacement mode and necessary adjustments.			

EC51	2FDE		Error	Right ink level detection er or (support number: 4801)			
		1	Detection	The state that the longer ink level detection pin in the sub ink ank unit is OFF. In			
		D	escriptio	connection ailure. This state does not normally occur.)			
		F		Handling			
			Check the	connection of the l ft MAIN PCB UNI .	1		
			Proper connectio				
			Go to 2.				
			Conne	ect the connector.			
					1		
		1					
		Ľ					
					-		
				The place to check the connection of the l ft MAIN PCB UNI .			
		Check Proper Replac	Check the	connection of the rig t TANK PCB UNIT.			
			Replace N	e MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"			
			<u>model</u>).	······································			
			A er rep	placement, perform PCB replacement mode and necessary adjustments.			
			Imprope Conne	r connectio	-		
		2					
				The place to check the connection of the rig t TANK PCB UNIT.			
EC51	3000		Error	Network sub-system launch error (support number: 6900)			
]	Detection	Starting up sequence of N twork sub-system is failed.			
		Descriptio Handling					
		F	Reboot.	nanoning	1		
			The prob	lem is resolved			
		1	Compl	ete.	9		
			Ine prob	Iem is not resolved all the fir ware			
				an the m ware.			

EC51	3001	Error	Network sub-system timeout (support number: 6901
		Detection Descriptio	Network sub system does not respond.
			Handling
		Reboot. The prob 1 Comp The prob Go to	blem is resolved lete. blem is not resolved 2.
		Reinstall t The prot Comp 2 The prot Replac <u>mode</u> • A er re	the fir ware. Dem is resolved lete. Dem is not resolved ce MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u> <u>[]</u> . eplacement, perform PCB replacement mode and necessary adjustments.
EC51	3004	Error	Wired LAN driver error (support number: 6920)
		Detection Descriptio	The fatal error occurs in the ethernet driver.
			Handling
		1 The prol Comp Repla <u>mode</u>	blem is resolved blem is not resolved ce MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u> <u>el</u>).
EC51	3005	Error	Wired LAN hardware error (support number: 6921)
		Detection Descriptio	Ethernet driver is physically broken.
			Handling
		Check the The prob Replace N 1 <u>model</u>).	e connection of the I/F PCB UNIT and the MAIN PCB UNI . lem is resolved MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>
		A er re The prol	placement, perform PCB replacement mode and necessary adjustments. blem is not resolved ect the L/E PCB LINIT to the MAIN PCB LINIT
EC51	3006	Error	Other network sub-system errors (support number: 6902)
		Detection Descriptio	Starting up sequence of n twork sub-system fails.
			Handling
		Reinstall The prol Comp 1 The prol	the fir ware. blem is resolved plete. blem is not resolved pre MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"
		mode ■ A e	r replacement, perform PCB replacement mode and necessary adjustments.

EC51	3100		Error	USB control-out bus error (support number: 6930)				
		De	etection escriptio	Bus error occurs at USB control-out end point occurs.				
				Handling				
			Check the	cable connection and if the able in use supports USB2.0.				
			When pro	pper connection and USB2.0 is suppor ed, reinstall the fir ware.				
			The prob	Diem is resolved				
		1	Comp	lete.				
			Renlau	ce MAIN PCB LINIT (Disassembly & Reassembly for 24" model for 36" model for 44"				
			mode					
			• A er	r replacement, perform PCB replacement mode and necessary adjustments.				
EC51	3101		Error	USB control-in bus error (support number: 6931)				
			etection					
		De	escriptio	USB control-in end point bus error occurs				
				Handling				
			Check the	e cable connection and if the able in use supports USB2.0.				
			When pro	oper connection and USB2.0 is suppor ed, reinstall the fir ware.				
			The prob	olem is resolved				
		1	Comp	lete.				
			The prob	olem is not resolved				
			Replac	ce MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>				
C51	3102		Frror	USB print hulk-out hus error (support number: 6932)				
	5102		etection					
			escriptio	Bus error occurs at print bulk-out end point				
			Handling					
			Check the	e cable connection and if the able in use supports USB2.0.				
			When pro	per connection and USB2.0 is suppor ed, reinstall the fir ware.				
		1	The prob	olem is resolved				
			Comp	lete.				
			The prob	olem is not resolved				
			Replac	ce MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>				
			mode					
CE 1	2102	_	A ei	r replacement, perform PCB replacement mode and necessary adjustments.				
.051	3103	F	Error	USB print bulk-in bus error (support number: 6933)				
			election	Bus error occurs at print bulk-in end point.				
				Handling				
			Check the	cable connection and if the able in use supports USB2.0.				
			When cor	nnection is p oper and USB2.0 is supported, reinstall the fir ware.				
			The prob	plem is resolved				
		1	Comp	lete.				
		1	T	The prob	olem is not resolved			
			Replac	ce MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>				
			mode]).				
			A er	r replacement, perform PCB replacement mode and necessary adjustments.				
C51	3104		Error	USB sub-system fir ware error (support number: 6940)				
			etection	USB firm er or occurs.				
			escriptio					
		-	Delinetella	Handling				
			Reinstall t	ine fir ware.				
		1		iere.				
			Renlar	ce MAIN PCB LINIT (Disassembly & Reassembly for 24" model for 36" model for 44"				
			mode).				
			• A ei	r replacement, perform PCB replacement mode and necessary adjustments.				

FC51	3105		Frror	USB sub-system command error (support number: 6941)
			Detection	
		D	escriptio	USB command error occurs.
			v	Handling
		L	Check the	cable connection and if the able in use supports USB2.0.
		L	When con	nection is p oper and USB2.0 is supported, reinstall the fir ware.
		L	The prob	lem is resolved
		1	Compi	ete. Jam is not resolved
		L	Replac	e MAIN PCB LINIT (Disassembly & Reassembly for 24" model for 36" model for 44"
		L	model).
		L	• A er	, replacement, perform PCB replacement mode and necessary adjustments.
EC51	3106		Error	USB sub-system timeout (support number: 6942
		C	Detection	USB watch dog error occurs.
			escriptio	
		H	Deinetell ti	Handling
		L	The prob	lem is resolved
		L	Compl	ete.
		1	The prob	lem is not resolved
		L	Replac	e MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"
		L	model).
	2107	_	A er	replacement, perform PCB replacement mode and necessary adjustments.
EC51	3107	┝╴		USB sub-system data copy error (support number: 6943)
			escriptio	USB-Relax fir ware data copy error occurs.
		F		Handling
			Reinstall t	he fir ware.
		L	The prob	lem is resolved
			Compl	ete.
		±	Replac	IEM IS NOT RESOLVED
		L	model).
		L	• A er	replacement, perform PCB replacement mode and necessary adjustments.
EC51	3108		Error	USB sub-system instruction er or (support number: 6944)
			Detection	USB-Relax firm are instruction on error is occurs
			escriptio	
		H		Handling
		L	Reinstall ti	he fir ware.
		L	Compl	ete
		1	The prob	lem is not resolved
		L	Replac	e MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"
		L	model).
			A er	replacement, perform PCB replacement mode and necessary adjustments.
EC51	3109	F	Error	USB sub-system not started properly (support number: 6945)
			escriptio	Boot error of USB-Relax fir ware occurs.
		F		Handling
			Reinstall t	he fir ware.
		L	The prob	lem is resolved
		L	Compl	ete.
		1	The prob	lem is not resolved
			Replac	e MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"
				j. replacement perform PCB replacement mode and peressary adjustments
		L		replacement, perform replacement mode and necessary aujustments.

Chapter 7

EC51	3110		Error	USB sub-system improper timeout s tting (support number: 694
		D	etection	Initial alue set error of LISP. Pelay fir ware watch dog occurs
		De	escriptio	
				Handling
			Reinstall t	he fir ware.
			The prob	lem is resolved
		1	Compi	ete.
		±	Replac	en MAIN PCR LINIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"
			model	
			• A er	replacement, perform PCB replacement mode and necessary adjustments.
EC51	3301		Error	Sub-chip connection er or (support number: 4801)
		D	etection	When starting up the pri ter or returning from power saving mode, connecting o
		De	escriptio	sub-chip fails.
		<u> </u>		Handling
			Reinstall t	he fir ware.
			The prob	lem is resolved
			Compl	ete.
		1	The prob	lem is not resolved
			Replac	e MAIN PCB UNIT (Disassembly & Reassembly tor 24" model, tor 36" model, tor 44"
			model).
ECE1	2202		• A er	Sub ship initiali ation or or (support number: 4801)
ECST	5502	\vdash	etection	When starting up the printer or returning from power saving model initialitation of
			election	the sub-chin fails
				Handling
			Reinstall t	he fir ware.
			The prob	lem is resolved
			Compl	ete.
			The prob	lem is not resolved
		1	Replac	e MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"
			model	
			■ A er	replacement, perform PCB replacement mode and necessary adjustments.
			cabl	e error occurred a er reseating the xible cables, theth the condition of xible
FC51	3303		Frror	Sub-chip fir ware loading error (support number: 4801)
2001			etection	When starting up the printer or returning from power saving mode, downloading
		De	escriptio	sub-chip fir ware fails.
		<u> </u>		Handling
			Reinstall t	he fir ware.
			The prob	lem is resolved
			Compl	ete.
		1	The prob	lem is not resolved
			Replac	e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>
			model).
			■A er	replacement, perform PCB replacement mode and necessary adjustments.

FC51	3304		Frror	Media updating ailure (support number: 4905)
1001			etection	Updating the printer media information ails.
		D	escriptio	
			•	Handling
			Update th	e printer media information with Media Co figu ation ool.
			The prob	lem is resolved
		1	Compl	ete.
			The prob	lem is not resolved
			Go to 2	2.
			Reinstall t	he fir ware.
			The prob	lem is resolved
			Compl	ete.
		2	The prob	lem is not resolved
			Replac	e MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"
			model).
		_	∣ •A er	replacement, perform PCB replacement mode and necessary adjustments.
EC51	3306	L	Error	NAND file ystem initiali ation er or (support number: 4905)
			etection	When starting up the printer or returning from power saving mode, initialitation of
			escriptio	NAND file ystem fails.
		-		Handling
			Reinstall t	he fir ware.
			I ne prob	iem is resolved
		1	The prob	ele. Iem is not resolved
		1	Renlac	e MAIN PCB LINIT (Disassembly & Reassembly for 24" model for 36" model for 44"
			model	
			• A er	replacement, perform PCB replacement mode and necessary adjustments.
EC51	3307		Error	NAND file vstem unforma ed (support number: 4905)
			etection	When starting up the printer or returning from power saving mode, formatting o
			escriptio	NAND file vstem fails.
				Handling
			Reinstall t	he fir ware.
			Reinstall t The prob	he fir ware. lem is resolved
			Reinstall t The prob Compl	he fir ware. lem is resolved ete.
		1	Reinstall t The prob Compl The prob	he fir ware. lem is resolved ete. lem is not resolved
		1	Reinstall t The prob Compl The prob Replac	he fir ware. lem is resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>
		1	Reinstall t The prob Compl The prob Replac <u>model</u>	he fir ware. lem is resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>).
		1	Reinstall t The prob Compl The prob Replac <u>model</u> • A er	he fir ware. lem is resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>). replacement, perform PCB replacement mode and necessary adjustments.
EC51	3308	1	Reinstall t The prob Compl The prob Replac <u>model</u> • A er Error	he fir ware. lem is resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>). replacement, perform PCB replacement mode and necessary adjustments. Checksum error at fir ware update (support number: 4905)
EC51	3308	1	Reinstall t The prob Compl The prob Replac <u>model</u> • A er Error Detection	he fir ware. lem is resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>). replacement, perform PCB replacement mode and necessary adjustments. Checksum error at fir ware update (support number: 4905) Checksum of the fir ware sent at fir ware updating does not m tch.
EC51	3308	1 	Reinstall t The prob Compl The prob Replac <u>model</u> • A er Error Detection escriptio	he fir ware. lem is resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>).). replacement, perform PCB replacement mode and necessary adjustments. Checksum error at fir ware update (support number: 4905) Checksum of the fir ware sent at fir ware updating does not m tch.
EC51	3308	1 	Reinstall t The prob Compl The prob Replac <u>model</u> • A er Error Detection escriptio	he fir ware. lem is resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>). replacement, perform PCB replacement mode and necessary adjustments. Checksum error at fir ware update (support number: 4905) Checksum of the fir ware sent at fir ware updating does not m tch. Handling
EC51	3308	1 	Reinstall t The prob Compl The prob Replac • A er Error Detection escriptio	he fir ware. lem is resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>). replacement, perform PCB replacement mode and necessary adjustments. Checksum error at fir ware update (support number: 4905) Checksum of the fir ware sent at fir ware updating does not m tch. Handling he fir ware.
EC51	3308	1 	Reinstall t The prob Compl The prob Replac <u>model</u> • A er Error Detection escriptio Reinstall t The prob	he fir ware. lem is resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>). replacement, perform PCB replacement mode and necessary adjustments. Checksum error at fir ware update (support number: 4905) Checksum of the fir ware sent at fir ware updating does not m tch. Handling he fir ware. lem is resolved
EC51	3308	1 []	Reinstall t The prob Compl The prob Replac model • A er Error Detection escriptio Reinstall t The prob Compl	he fir ware. lem is resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>). replacement, perform PCB replacement mode and necessary adjustments. Checksum error at fir ware update (support number: 4905) Checksum of the fir ware sent at fir ware updating does not m tch. Handling he fir ware. lem is resolved ete.
EC51	3308	1	Reinstall t The prob Compl The prob Replac • A er Error Detection escriptio Reinstall t The prob Compl The prob	he fir ware. lem is resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>). replacement, perform PCB replacement mode and necessary adjustments. Checksum error at fir ware update (support number: 4905) Checksum of the fir ware sent at fir ware updating does not m tch. Handling he fir ware. lem is resolved ete. lem is not resolved ete.
EC51	3308	1 	Reinstall t The prob Compl The prob Replac • A er Error Detection escriptio Reinstall t The prob Compl The prob Replac	he fir ware. lem is resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>). replacement, perform PCB replacement mode and necessary adjustments. Checksum error at fir ware update (support number: 4905) Checksum of the fir ware sent at fir ware updating does not m tch. Handling he fir ware. lem is resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>
EC51	3308	1 D	Reinstall t The prob Compl The prob Replac • A er Error Detection escriptio Reinstall t The prob Compl The prob Replac model	he fir ware. lem is resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>). replacement, perform PCB replacement mode and necessary adjustments. Checksum error at fir ware update (support number: 4905) Checksum of the fir ware sent at fir ware updating does not m tch. Handling he fir ware. lem is resolved ete. lem is not resolved ete. lem is not resolved ete. lem is not resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>).
EC51	3308	1 	Reinstall t The prob Compl The prob Replac model • A er Error Detection escriptio Reinstall t The prob Compl The prob Replac model • A er	he fir ware. lem is resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model, for 36" model, for 44"</u>). replacement, perform PCB replacement mode and necessary adjustments. Checksum error at fir ware update (support number: 4905) Checksum of the fir ware sent at fir ware updating does not m tch. Handling he fir ware. lem is resolved ete. lem is not re
EC51 EC51	3308	1 	Reinstall t The prob Compl The prob Replac <u>model</u> • A er Error Detection escriptio Reinstall t The prob Compl The prob Replac <u>model</u> • A er	he fir ware. lem is resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>). replacement, perform PCB replacement mode and necessary adjustments. Checksum error at fir ware update (support number: 4905) Checksum of the fir ware sent at fir ware updating does not m tch. Handling he fir ware. lem is resolved ete. lem is not resolved ete. lem is not resolved ete. lem is not resolved ete. lem is not resolved replacement, perform PCB replacement mode and necessary adjustments. Memory allocation ailure at fir ware update (support number: 4905)
EC51 EC51	3308		Reinstall t The prob Compl The prob Replac • A er Error Detection escriptio Reinstall t The prob Compl The prob Replac model • A er Error	he fir ware. lem is resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>). replacement, perform PCB replacement mode and necessary adjustments. Checksum error at fir ware update (support number: 4905) Checksum of the fir ware sent at fir ware updating does not m tch. Handling he fir ware. lem is resolved ete. lem is not resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>). replacement, perform PCB replacement mode and necessary adjustments. Memory allocation ailure at fir ware update (support number: 4905) Securing the operation a ea in RAM during fir ware updating ails.
EC51	3308		Reinstall t The prob Compl The prob Replac • A er Error Detection escriptio Reinstall t The prob Compl The prob Replac <u>model</u> • A er Error Detection escriptio	he fir ware. lem is resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>). replacement, perform PCB replacement mode and necessary adjustments. Checksum error at fir ware update (support number: 4905) Checksum of the fir ware sent at fir ware updating does not m tch. Handling he fir ware. lem is resolved ete. lem is not resolved ete. lem is not resolved ete. lem is not resolved ete. lem is not resolved ete. lem of the fir ware update (support number: 4905) Securing the operation a ea in RAM during fir ware updating ails. Handling
EC51 EC51	3308		Reinstall t The prob Compl The prob Replac model • A er Error Detection escriptio Reinstall t The prob Compl The prob Replac <u>model</u> • A er Error Detection escriptio	he fir ware. lem is resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>). replacement, perform PCB replacement mode and necessary adjustments. Checksum error at fir ware update (support number: 4905) Checksum of the fir ware sent at fir ware updating does not m tch. Handling he fir ware. lem is resolved ete. lem is not resolved ete. lem of resolved ete. lem is not re
EC51 EC51	3308		Reinstall t The prob Compl The prob Replac model • A er Error Detection escriptio Reinstall t The prob Replac model • A er Error Detection escriptio Reinstall t	he fir ware. lem is resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , for 36" model, for 44"). replacement, perform PCB replacement mode and necessary adjustments. Checksum error at fir ware update (support number: 4905) Checksum of the fir ware sent at fir ware updating does not m tch. Handling he fir ware. lem is resolved ete. lem is not resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , for 36" model, for 44"). replacement, perform PCB replacement mode and necessary adjustments. Memory allocation ailure at fir ware update (support number: 4905) Securing the operation a ea in RAM during fir ware updating ails. Handling he fir ware. lem is resolved
EC51	3308		Reinstall t The prob Compl The prob Replac <u>model</u> • A er Error Detection escriptio Reinstall t The prob Compl The prob Replac <u>model</u> • A er Error Detection escriptio	he fir ware. lem is resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , for 36" model, for 44"). replacement, perform PCB replacement mode and necessary adjustments. Checksum error at fir ware update (support number: 4905) Checksum of the fir ware sent at fir ware updating does not m tch. Handling he fir ware. lem is resolved ete. lem is not resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , for 36" model, for 44"). replacement, perform PCB replacement mode and necessary adjustments. Memory allocation ailure at fir ware update (support number: 4905) Securing the operation a ea in RAM during fir ware updating ails. Handling he fir ware. lem is resolved ete.
EC51	3308		Reinstall t The prob Compl The prob Replac • A er Error Detection escriptio Reinstall t The prob Replac <u>model</u> • A er Error Detection escriptio Reinstall t The prob Replac <u>model</u> • A er	he fir ware. lem is resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"). replacement, perform PCB replacement mode and necessary adjustments. Checksum error at fir ware update (support number: 4905) Checksum of the fir ware sent at fir ware updating does not m tch. Handling he fir ware. lem is resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"). replacement, perform PCB replacement mode and necessary adjustments. Memory allocation ailure at fir ware update (support number: 4905) Securing the operation a ea in RAM during fir ware updating ails. Handling he fir ware. lem is resolved ete. lem is not resolved ete.
EC51	3308		Reinstall t The prob Compl The prob Replac • A er Error Detection escriptio Reinstall t The prob Compl The prob Replac <u>model</u> • A er Error Detection escriptio Reinstall t The prob Compl The prob Compl The prob	he fir ware. lem is resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"). replacement, perform PCB replacement mode and necessary adjustments. Checksum error at fir ware update (support number: 4905) Checksum of the fir ware sent at fir ware updating does not m tch. Handling he fir ware. lem is resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"). replacement, perform PCB replacement mode and necessary adjustments. Memory allocation ailure at fir ware update (support number: 4905) Securing the operation a ea in RAM during fir ware updating ails. Handling he fir ware. lem is resolved ete. lem is not resolved ete. lem is not resolved ete. lem is not resolved ete. lem is not resolved ete.
EC51	3308		Reinstall t The prob Compl The prob Replac model • A er Error Detection escriptio Reinstall t The prob Replac model • A er Error Detection escriptio Reinstall t The prob Replac model • A er Error	he fir ware. lem is resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , for 36" model, for 44"). replacement, perform PCB replacement mode and necessary adjustments. Checksum error at fir ware update (support number: 4905) Checksum of the fir ware sent at fir ware updating does not m tch. Handling he fir ware. lem is resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , for 36" model, for 44"). replacement, perform PCB replacement mode and necessary adjustments. Memory allocation ailure at fir ware update (support number: 4905) Securing the operation a ea in RAM during fir ware updating ails. Handling he fir ware. lem is resolved ete. lem is resolved ete. lem is resolved ete. lem is not
EC51	3308		Reinstall t The prob Compl The prob Replac model • A er Error Detection escriptio Reinstall t The prob Replac model • A er Error Detection escriptio Reinstall t The prob Replac model • A er Error	he fir ware. lem is resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , for 36" model, for 44"). replacement, perform PCB replacement mode and necessary adjustments. Checksum error at fir ware update (support number: 4905) Checksum of the fir ware sent at fir ware updating does not m tch. Handling he fir ware. lem is resolved ete. lem is not resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , for 36" model, for 44"). replacement, perform PCB replacement mode and necessary adjustments. Memory allocation ailure at fir ware update (support number: 4905) Securing the operation a ea in RAM during fir ware updating ails. Handling he fir ware. lem is resolved ete. lem is not resolved ete. le

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Chapter 8



Point Each function of se vice mode is operable only when the printer successfully enters in service mode.

5-3. Detail of Hardware Error 248 SM-17001E-00

330A	Error		Firmware size error (support number: 4905)			
	Detection		The size information described in the eceived fir ware data and the actual			
	De	escriptio	received size does not match at fir ware updating.			
			Handling			
		Reinstall t	he fir ware.			
		The prob	lem is resolved			
		Compl	ete.			
	1	The problem is not resolved				
		Replac	Replace MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>			
		model	<u>model</u>).			
4044	-	∎ A er	replacement, perform PCB replacement mode and necessary adjustments.			
4041		Error	Mano: Remove the error in cervice mode when handling is completed			
	\vdash_{Γ}	otaction	Wento. Remove the error in service mode when handling is completed.			
		election	Deletion of the orresponding area in SROM during fir ware updating ails.			
		scriptio	Handling			
	-	Poinctall t	ha fir wara			
			lem is resolved			
		Compl	ete			
	1	The prob	lem is not resolved			
	-	Replac	e MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"			
		model).			
		• A er	, replacement, perform PCB replacement mode and necessary adjustments.			
4042		-	Main PCB failure in SROM writing (support number: 6820			
		Error	Memo: Remove the error in service mode when handling is completed.			
		etection	Multiple a CDOM during fin, ware undefine, sile			
	De	escriptio	writing o show during fir ware updating alls.			
			Handling			
		Reinstall t	he fir ware.			
		The prob	lem is resolved			
		Complete.				
	1	1 The problem is not resolved				
		Replac	e MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"			
		<u>model</u>).			
		• A er	replacement, perform PCB replacement mode and necessary adjustments.			
4045		Frror	Main PCB EEPROM error (support number: 6820)			
	L		Memo: Remove the error in service mode when handling is completed.			
		etection	Abnormity is detected when information is wrighted to the PCB EEPRM.			
		escriptio	,			
			Handling			
		Reinstall t	he fir ware.			
	1	ine prob	iem is resolved			
	1	C				
	1	Compl	lom is not resolved			
	1	Compl The prob	lem is not resolved			
	1	Compl The prob Replac	lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>			
	1	Compl The prob Replac <u>model</u>	lem is not resolved we MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>).			
4046	1	Compl The prob Replac <u>model</u> • A er	lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>). replacement, perform PCB replacement mode and necessary adjustments.			
4046	1	Compl The prob Replac <u>model</u> • A er Error	 Ident is not resolved ice MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"). ice replacement, perform PCB replacement mode and necessary adjustments. Main PCB failure in NAND flash del tion (support number: 6820 Memo: Remove the error in service mode when handling is completed 			
4046	1	Compl The prob Replac <u>model</u> • A er Error	lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>). replacement, perform PCB replacement mode and necessary adjustments. Main PCB failure in NAND flash del tion (support number: 6820 Memo: Remove the error in service mode when handling is completed.			
4046		Compl The prob Replac <u>model</u> • A er Error etection	lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>). replacement, perform PCB replacement mode and necessary adjustments. Main PCB failure in NAND flash del tion (support number: 6820 Memo: Remove the error in service mode when handling is completed. Deletion of the orresponding area in NAND flash during fi ware updating ails.			
4046	1 	Compl The prob Replac <u>model</u> • A er Error etection escriptio	 Idem is not resolved MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"). replacement, perform PCB replacement mode and necessary adjustments. Main PCB failure in NAND flash del tion (support number: 6820 Memo: Remove the error in service mode when handling is completed. Deletion of the orresponding area in NAND flash during fi ware updating ails. 			
4046	1 	Compl The prob Replac <u>model</u> • A er Error etection escriptio	lem is not resolved lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>). replacement, perform PCB replacement mode and necessary adjustments. Main PCB failure in NAND flash del tion (support number: 6820 Memo: Remove the error in service mode when handling is completed. Deletion of the orresponding area in NAND flash during fi ware updating ails. Handling be fir ware			
4046		Compl The prob Replac <u>model</u> • A er Error etection escriptio Reinstall t	Jeen is not resolved Jeen is not resolved The MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"). The replacement, perform PCB replacement mode and necessary adjustments. Main PCB failure in NAND flash del tion (support number: 6820 Memo: Remove the error in service mode when handling is completed. Deletion of the orresponding area in NAND flash during fi ware updating ails. Handling he fir ware. Jem is resolved			
4046	1 De	Compl The prob Replac • A er Error • etection • etection	lem is not resolved lem is not resolved the MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>). replacement, perform PCB replacement mode and necessary adjustments. Main PCB failure in NAND flash del tion (support number: 6820 Memo: Remove the error in service mode when handling is completed. Deletion of the orresponding area in NAND flash during fi ware updating ails. Handling he fir ware. lem is resolved ete			
4046	1 0 1	Compl The prob Replac • A er Error etection escriptio Reinstall t The prob Compl The prob	lem is not resolved lem is not resolved the MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , for 36" model, for 44"). replacement, perform PCB replacement mode and necessary adjustments. Main PCB failure in NAND flash del tion (support number: 6820 Memo: Remove the error in service mode when handling is completed. Deletion of the orresponding area in NAND flash during fi ware updating ails. Handling he fir ware. lem is resolved ete. lem is not resolved			
4046	1 De 1	Compl The prob Replac • A er Error etection escriptio Reinstall t The prob Compl The prob	lem is not resolved lem is not resolved the MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u> .). replacement, perform PCB replacement mode and necessary adjustments. Main PCB failure in NAND flash del tion (support number: 6820 Memo: Remove the error in service mode when handling is completed. Deletion of the orresponding area in NAND flash during fi ware updating ails. Handling he fir ware. lem is resolved ete. lem is not resolv			
4046	1 De 1	Compl The prob Replac • A er Error etection escriptio Reinstall ti The prob Compl The prob Replac model	lem is not resolved lem is not resolved te MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>). replacement, perform PCB replacement mode and necessary adjustments. Main PCB failure in NAND flash del tion (support number: 6820 Memo: Remove the error in service mode when handling is completed. Deletion of the orresponding area in NAND flash during fi ware updating ails. Handling he fir ware. lem is resolved ete. lem is not resolved ete. lem is not resolved e MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>).			
	330A 4041 4042 4042 4045	330A D D D D D D D D D D D D D	330AError Detection Descriptio330AError Detection Descriptio4041Reinstall th The prob Compl Replac model • A er4041Error Detection Descriptio4041Error Reinstall th The prob Compl 14042Error Detection Descriptio4042Error Reinstall th The prob Compl 14042Error Detection Descriptio4043Error Reinstall th The prob Compl 14044Error Reinstall th The prob Compl 04045Error Reinstall th The prob Compl 14045Error Reinstall th The prob Compl 14045Error Compl 14045Error Compl 14045Error Compl 14045Error Compl 14045Error Compl 04045Error Compl 04045Error Compl 04045Error 04045Error 04045Error 04045Error 04045Error 04045Error 04045Error 04045Error 04045Error 04045Error 04045Error 04045Error 04045Error 04045Error 04045Error 04045Error 04045Error 04045Error 0 <tr< td=""></tr<>			

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Chapter 6

Chapter 7

5054	4047		Marin DCD failure in MAND flash writing (compared purchase CO2			
ECSI	4047	Error	Memo: Remove the error in service mode when handling is completed			
		Detecti	on			
		Descript	Writing o NAND flash during fi ware updating ails.			
		Handling				
		Reins	tall the fir ware.			
		The	problem is resolved			
			omplete.			
			problem is not resolved analyze MAIN PCB LINIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"			
		m m	odel).			
			A er replacement, perform PCB replacement mode and necessary adjustments.			
EC51	404C	Error	Serial ID mismatch (support number: 6820)			
			Memo: Remove the error in service mode when handling is completed.			
		Detecti	on Mismatch of the serial ID in the BACKUP PCB UNIT and the MAIN PCB UNIT at			
		Descript	io starting up the pri ter is detected.			
			Handling			
			to 2			
		1 This e	error occurs without performing MAIN PCB UNIT replacement.			
		Go	to 3.			
		, Start	up the printer in service mode. Perform PCB replacement mode. (Automatic			
		² transf	formation f om service mode to PCB replacement mode at starting up.			
		Repla	ce MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"			
		mode				
		A e	• A er replacement, perform PCB replacement mode and necessary adjustments.			
		3 me	Complete.			
		The	problem is not resolved			
		Ρι	Put back the MAIN PCB UNIT, the one that has been installed before the replacement, and			
		re	place the <u>BACKUP PCB UNIT</u> .			
EC51	404D	Error	Model ID mismatch (support number: 6820)			
			Memo: Remove the error in service mode when handling is completed.			
		Detecti	on When starting up the pri ter, model ID mismatch between MAIN PCB UNIT and			
		Descript	Handling			
		This e	error occurs a er MAIN PCB LINIT replacement			
		Go	to 2.			
		This e	error occurs without performing MAIN PCB UNIT replacement			
		1 Go	to 3.			
		This e	error occurs a er replacing to the BACKUP PCB UNIT that has been installed to the other			
		mode				
		Ke Stort	Diace with the new <u>BACKUP PCB UNII</u> .			
		2 transf	formation f om service mode to PCB replacement mode at starting up			
		Repla	ce MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"			
		mode	el).			
		• A e	r replacement, perform PCB replacement mode and necessary adjustments.			
		3 The	problem is resolved			
		C(omplete.			
		The	problem is not resolved			
			IT DACK THE MIAIN PCB UNIT, THE ONE THAT HAS been installed before the replacement, and			
		l re				

Chapter 2

Chapter 3

Chapter 4

Chapter 5

EC51	4070	Error	Main PCB NAND flash CC error (support number: 6820)				
		Detection	ECC error in NAND flash during fi ware updating occu s.				
		Descriptio					
			Handling				
		Reinstall	Reinstall the fir ware.				
		The prol	plem is resolved				
		Comp	lete.				
		1 The prof	Diem is not resolved				
		Керіа	ce MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"				
		mode	<u>l</u>). I ventecoment in outering DCD ventecoment media and recorder vedivation into				
254	4071	• A e	Asia DCD failure in NAND flack initial, ation (support support of C220				
.51	4071	Error	Mama: Remove the error in cervice mode when handling is completed				
		Detection	When starting up the pri-ter or returning from power spying mode, initiali, stion of				
		Detection	When starting up the priliter or returning from power saving mode, initial ation of				
		Descriptio	INAND Hash alls.				
		Deinstell	Hallullig				
		The prol	lie iir Ware.				
		1 The prof	alem is not resolved				
		Repla	ce MAIN PCB LINIT (Disassembly & Reassembly for 24" model for 36" model for 44"				
		mode).				
		• A e	r replacement, perform PCB replacement mode and necessary adjustments.				
.51	4072		Main PCB failure in NAND flash ormat (support number: 6820)				
		Error	Memo: Remove the error in service mode when handling is completed.				
		Detection	When starting up the printer or returning from power saving mode, formatting o				
		Descriptio	NAND flash ails.				
		· · · ·	Handling				
		Reinstall	the fir ware.				
		The prol	olem is resolved				
		Comp	lete.				
		1 The prol	plem is not resolved				
		Repla	ce MAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"				
		mode	<u>l</u>).				
		• A e	r replacement, perform PCB replacement mode and necessary adjustments.				
C51	5001	Error	Start-up disabled (support number: 7050)				
			Memo: Remove the error in service mode when handling is completed.				
		Detection	Starting up the printer fails.				
		Descriptio					
			Handling				
		Check cal	ole connection o the MAIN PCB UNIT.				
		Proper of	connectio				
		1 Go to	2.				
		Imprope	r connectio				
		Conne					
		Keplace N	VIAIN PCB UNIT (Disassembly & Reassembly for 24" model, for 36" model, for 44"				
		model).	placement perform DCD replacement made and records a diverse at				
		A er re	placement, perform PCB replacement mode and necessary adjustments.				
		2 The prof					
			ilette. Alem is not resolved				
			ce the ID PCR LINIT *				
		* Δεk ca	les companies in each region on how to order				

EC51	5002	Бинен		Start-up disabled (support number: 7051)		
		Error		Memo: Remove the error in service mode when handling is completed.		
		Detection Descriptio		Starting up the pri ter fails.		
		Handling				
			Check cab	le connection o the MAIN PCB UNIT.		
		1	Proper co	onnectio		
			Go to 2	2		
			Imprope	r connectio		
		\vdash	Roplace M	ct the cable.		
		2	model)			
			• A er replacement, perform PCB replacement mode and necessary adjustments.			
			The problem is resolved			
			Compl	ete.		
			The prob	lem is not resolved		
			Replac	e the ID PCB UNIT.*		
			* Ask sal	es companies in each region on how to order.		
EC51	5003	Error		Start-up disabled (support number: 7052)		
				Memo: Remove the error in service mode when handling is completed.		
		Detection		Starting up the pri ter fails.		
		F	Handling			
		Check cab		le connection o the MAIN PCB UNIT.		
			Proper co	onnectio		
		1	Go to 2	2.		
		L	Imprope	r connectio		
		⊢	Conne	ct the cable.		
				IAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>		
		L	• A er replacement, perform PCB replacement mode and necessary adjustments			
		L.	The problem is resolved			
		2	Compl	ete.		
		L	The prob	lem is not resolved		
		L	Replac	e the ID PCB UNIT.*		
			* Ask sal	es companies in each region on how to order.		
EC52	4038		Error	Abnormal power supply voltage in standby or printing (support number: 9110 Memo: Remove the error in service mode when handling is completed.		
		Detection Descriptio		Power supply from the power supply unit stops at waiting or pri ting.		
		Handling				
		L	Reconnect a er unplugging the power cable from the AC outlet for ten seconds or long			
			The prob	lem is resolved		
		1	Compl	ete.		
			Go to 2	2		
		⊢	Replace the POWER SUPPLY UNIT. The problem is resolved Complete.			
		L				
		2	The prob	The problem is not resolved		
			Replace MAIN PCB UNIT.			
			• A er replacement, perform PCB replacement mode and necessary adjustments.			
			(Disasser	nbly & Reassembly <u>tor 24" model</u> , <u>for 36" model</u> , <u>for 44" model</u>)		

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EC54	401A	Erro	or	Hard disk reading/writing er or (support number: 7001)				
		Detection		Reading/writing o the hard disk is disabled.				
		Descrip						
		Ben	ace th	hand disk cable				
			nroh	lem is resolved				
			Compl	ete.				
		The	e prob	lem is not resolved				
			Go to 2	2.				
		Repl	ace th	ne hard disk.				
		The The	e prob	lem is resolved				
			Compl	ete.				
		2 The	e prob	lem is not resolved				
		F	Replac	e MAIN PCB UNIT.				
			A er	replacement, perform PCB replacement mode and necessary adjustments.				
	4054		sasser	nbly & Reassembly <u>for 24° model, for 36° model, for 44° model</u>)				
EC54	405A	Erro	or	Hard disk capacity mismatch (support number: 7003)				
		Dotoc	tion					
		Detec	otio	Hard disk capacity di erence is detected at start-up.				
				Handling				
		1 Repl	ace th	ne hard disk.				
		Disa (Disa	assem	bly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44" model</u>)				
EC54	405B	Erro	or	Hard disk model mismatch (support number: 7004)				
				Memo: Remove the error in service mode when handling is completed.				
		Detec	tion	Hard disk model ID mismatch is detected at start-up.				
		Descrip	500	Handling				
		Repl	ace th	ne hard disk.				
		1 (Disa	assem	bly & Reassembly <u>for 24" model, for 36" model, for 44" model</u>)				
EC54	4080			Non-supported hard disk connected (support number: 7005)				
		Enc	זכ	Memo: Remove the error in service mode a er handling.				
		Detec	tion	Installation of SED had dick was not detected				
		Descrip	otio					
				Handling				
		Chee	ck the	hard disk cable connection				
		Pro	per co	onnectio				
			Go to a	2.				
			oropei	r connectio				
		Cho		ct the capie.				
				ne sed hard disk				
			Renlac					
			Aer	replacement, perform PCB replacement mode and necessary adjustments.				
		2 It is	s not a	genuine hard disk				
		F F	Replac	e with a genuine SED hard disk.				
		*W	/hen w	whether the cause is the SED hard disk or not cannot be identified clear , replace				
			with a	genuine SED hard disk.				
		Dis	sasser	nbly & Reassembly <u>for 24" model, for 36" model</u> , <u>for 44" model</u>)				

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Point Each function of se vice mode is operable only when the printer successfully enters in service mode.

EC54	4081		Error	Hard disk SED function- elated communication er or (support number: 7006)	Cha				
			Detection	•A er replacement, perform PCB replacement mode and necessary adjustments.	apte				
		D	escriptio		L L				
		H	.	Handling					
			Check the	e hard disk cable connection					
			Proper c	onnectio					
		1	Go to	Z. r connectio	0				
			Improper connectio						
		H	Replace t	he hard disk	pt				
			The prob	plem is resolved					
			Comp	lete.	2				
		2	The prot	plem is not resolved					
			Repla	ce MAIN PCB UNIT.					
			A er rep	lacement, perform PCB replacement mode and necessary adjustments.					
			(Disasse	mbly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44" model</u>)	9				
EC55	2F20		Error	Flexible cable connection er or (support number: 4801)	la				
		l r)etection	Abnormity, left onnection, or inapp opriate connection in xible cable connectio	ote				
			escriptio	between the fl xible cable connection in the arriage unit or between FLEXIBLE	Γu				
		Ŀ		CABLE UNIT and MAIN PCB UNIT.					
		H		Handling	-				
			Check the	e fl xible cable connection in the arriage unit or between FLEXIBLE CABLE UNIT and					
			INIAIN PC	3 UNII.					
		1	Proper connectio						
			Improper connectio						
			Recon		er				
			The problem is not resolved						
				Go to 2.					
			Reconnec	t a er unplugging the power cable from the AC outlet for ten seconds or longer.	1				
		2	The prob	plem is resolved					
			Complete. The problem is not resolved						
			Repla	ce the POWER SUPPLY UNIT.	pte				
		-	(Disas	sembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44" model</u>)	- F				
EC55	2F24		Error	Flexible cable connected at an angle (support number: 1468)					
			Detection	Flexible cable connection t an angle or non-connection is d tected in the carriage					
			escriptio	Junit or between MAIN PCB UNIT and CARRIAGE RELAY PCB UNIT.					
		H	Charletha	Handling					
				IN TRUE CADE CONNECTION IN THE AMAGE UNIT OF DELWEEN FLEXIBLE CABLE ON IT AND	Ch Ch				
			Proper c		qe				
			Go to	2	tei				
		1	Imprope	r connectio	6				
			Conne	ect the fl xible cable properly.					
			The	problem is not resolved					
			(Go to 2.					
			Reconnec	t a er unplugging the power cable for ten seconds or more from the AC outlet.					
			The prob	plem is resolved	- ha				
			Comp	lete.	pt				
		2	The prob	plem is not resolved	er				
		[Repla	ce <u>FLEXIBLE CABLE UNIT</u> .	7				
			The	e problem is not resolved					
				Replace POWER SUPPLY UNIT.					
			1 (Disassembly & Reassembly 101 24 model, 101 35 model, 101 44 model)]				

EC55	2F6C	Error	Print head temperature reading error (support number: 4801)
		Detection Descriptio	Temperature reading by the direct diode sensor failed.
			Handling
		Check the MAIN PC Proper o	e fl xible cable connection in the arriage unit or between FLEXIBLE CABLE UNIT and B UNIT. connectio
		Go to	2.
		Imprope	er connectio
		Conne	ect the fl xible cable properly.
		The	e problem is not resolved
		- Devile set	
		Replace V	VITI <u>CARRIAGE UNII</u> OF <u>FLEXIBLE CABLE UNII</u> .
		2 The prol	alem is not resolved
		Repla	ace MAIN PCB UNIT (Disassembly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44"</u>
		<u>mode</u>	
5050	2550	A err	eplacement, perform PCB replacement mode and necessary adjustments.
2056	ZFEU	Error	Sub-ink tank unit power supply error (support number: 6502)
		Detection Descriptio	The power is not supplied to ink tank ROMs.
			Handling
		Check the	e MAIN PCB UNIT cable connection
		Proper of	connectio
		1 Go to	2.
		Imprope	er connectio
		Chock if t	ect the cable.
		Not om	ne ink tank is empty.
		2 Repla	re the SUB INK TANK LINIT (replacement procedure for SUB INK TANK LINIT B)
		E Fmpty	the sob link lank own (<u>replacement procedure for sob link lank own replacement procedure for sob lank own</u>
		Repla	ce the INK TANK.
EC57	4040		RTC time unkn wn (support number: 6702)
		Error	Memo: Remove the error in service mode when handling is completed.
		Detection Descriptio	Unsetting GMT in TC is detected at printer start-up in user mode.
		· · ·	Handling
		Check if t	he ba ery is mounted in the I/F PCB UNIT.
		Ba ery	is mounted
		Repla	ce the ba ery and set GMT time y [OTHERS>RTC SETTING] GMT
		1 Ba ery	is not mounted
		Remo	unt the ba ery and set GMT time y [OTHERS>RTC SETTING].
		• GMT tin	ne = G eenwitch Mean Time

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FC57	404F			RTC non-connection (support number: 6700	0				
2007			Error	Memo: Remove the error in service mode when handling is completed.	hap				
			Detection escriptio	Reading / writing on i formation is disabled.					
			. <u> </u>	Handling					
			Check I/F	PCB UNIT connectio					
			Proper c	onnectio					
		1	Go to	2.					
			Imprope	r connectio	Cha				
		⊢	Conne	ect the I/F PCB UNIT.	apt				
			Replace ti	he I/F PCB UNII.	er				
					2				
		2	The prof	nem is not resolved					
		-	Replac	ce MAIN PCB UNIT.					
			• A er	r replacement, perform PCB replacement mode and necessary adjustments.					
			(Disassei	mbly & Reassembly <u>for 24" model</u> , <u>for 36" model</u> , <u>for 44" model</u>)	0				
EC58	2F12		Error	Backup PCB EEPROM error (support number: 4801)	Пар				
		C	Detection	BACKUP PCB UNIT EEPROM	ote				
		D	Descriptio Memo: Remove the error in service mode when handling is completed.						
			.						
		1	Check the	e cable connectio					
			Proper connectio						
			Improper connectio						
			Conne	ect the cable	ha				
EC59	3002		Error	Wireless LAN device non-connection (support number: 6910	- Ipt				
			Detection		er				
		D	escriptio	Wireless LAN device is not recognized.	4				
				Handling					
			Check the	WIRELESS LAN PCB UNIT fl xible cable connectio					
			Proper c	onnectio					
		1	Replac	ce the <u>WIRELESS LAN PCB UNIT</u> .	S S				
			Conne	r connectio	ap				
FC59	3003	-	Frror	Wireless LAN bardware error (support number: 6911)					
	5005	\vdash_{Γ}			<u> </u>				
			escriptio	The wireless LAN device is physically broken.					
				Handling					
			Check the	WIRELESS LAN PCB UNIT fl xible cable connectio					
			Proper c	onnectio	C				
		1	Replac	ce the <u>WIRELESS LAN PCB UNIT</u> .	har				
			Imprope	r connectio	ote				
			Conne	ect the fl xible cable.	re				

Detail of Jam Error

Jam Code	Detail Code			Descriptio
001111	2E3A		Error	Paper feeding failure (upper roll) (support number: 1300)
			Detection	Feeding of the roll paper fails at the upper roll paper path (roll1). (from the paper
		D	escriptio	feed sensor to the PE sensor in paper path)
			1	Handling
			Reload the	e roll paper. (Remove left paper pieces and check the op edge of the paper.)
			The erro	r is removed
		1	Comp	ete.
			The erro	r is not removed
			Go to	2.
			Replace th	he following parts from the top and check if the error is removed a er each
			replaceme	ent. (from the loading sensor to the PE sensor)
			• ROLL P	APER FEED SENSOR UNIT.
		2	• HARNE	SS ASS Y, KLNIP PF SNS.
				ENTRY SENSOR.
				NP ARM UNIT.
		⊢	Chack ath	ROLL BRAKE ONT. Aujustment and counter reset is necessary.
			Check oth	er suspected cause.
		3		related cause (size, media type mismatch, paper turn-up at the top edge)
			· Curry e	he paper with strong sness or heavy roll paper
001112	2520		Error	Dapar facility failure (upper roll) (support number: 1200)
001112		┝╴		Faper reduing failure (upper foil) (support number, 1500)
				recuiring of the foil paper fails at the upper foil paper path (foil1). (from the PE
		μ	escriptio	
		⊢	Poloaco tk	ndituilig
			(Pomovol	of paper pieces and check the op edge of the paper)
			The orre	ris removed
		1	Comp	
			The erro	r is not removed
			Go to	2
		⊢	Replace th	e following parts from the top and check if the error is removed a er each
			replacem	ent
				APER FEED SENSOR LINIT
			HARNF	SS ASS'Y. RINIP PE SNS.
		2	• PAPER	ENTRY SENSOR.
			· DRIVE I	NIP ARM UNIT.
			· MULTI	SENSOR UNIT. Adjustment and counter reset is necessary.
			· ACTIVE	ROLL BRAKE UNIT. Adjustment and counter reset is necessary.
			Check oth	er suspected cause.
			· Media	related cause (size, media type mismatch, paper turn-up at the top edge)
		3	· Curly e	nd edge of the roll paper
			· Avoid t	he paper with strong s ness or heavy roll paper.
001113	2025		Error	Upper roll drive overload (in roll paper loading) (support number: 1328)
				The electric current reached to the maximum loadable value at the upper ACTIVE
				ROLL BRAKE UNIT motor control in paper loading (between UPPER PAPER SET
				SENSOR and UPPER PAPER ENTRY SENSOR).
			Detection	<the assumed="" situation<="" td=""></the>
		ם ן	escriptio	• ACTIVE ROLL BRAKE UNIT receives load, e.g. due to touching the roll paper by
				the user, during roll paper front edge detection with UPPER APER SET SENSOR.
				· Heavy roll paper is being loaded.
				Handling
		1	Feed the r	oll paper again. When re-feeding is disabled, feed the paper manually.

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 To Error Code Table

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 5-4. Detail of Jam Error

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001113	2026	Error	Lower roll drive overload (in roll paper loading) (support number: 1329)					
		Detection	The electric current reached to the maximum loadable value at the lower ACTIVE ROLL BRAKE UNIT motor control in paper loading (between LOWER PAPER SET SENSOR and LOWER PAPER ENTRY SENSOR). <the assumed="" situation<="" td=""></the>					
		Descriptio	 ACTIVE ROLL BRAKE UNIT receives load, e.g. due to touching the roll paper by the user, during roll paper front edge detection with OWER PAPER SET SENSOR. Heavy roll paper is being loaded. 					
			Handling					
		1 Feed the	roll paper again. When re-feeding is disabled, feed the paper manually.					
01113	2051	Error	Unable to pick up the upper roll paper (in roll paper loading) (support number: 1326)					
		Detection	UPPER PAPER SET SENSOR fails to detect the roll paper front edge in roll paper feeding. <the assumed="" situation<="" td=""></the>					
		Descriptio	 The front edge of the roll paper does not peel off f om the roll paper. The spool does not rotate due to gear damage in paper feeding. Sensor malfunction 					
			Handling					
		1 Feed the	roll paper again. When re-feeding is disabled, feed the paper manually.					
01113	2052	Error	Unable to pick up the upper roll paper (in roll paper loading) (support number: 1300)					
		Detection Descriptio	UPPER PAPER ENTRY SENSOR fails to detect the roll paper front edge within the specified time period er UPPER PAPER SET SENSOR detected the roll paper front edge.					
			Handling					
		1 Feed the	roll paper again. When re-feeding is disabled, feed the paper manually.					
01113	2056	Error	Upper roll paper not loaded (support number: 1034)					
		Detection	UPPER PAPER SET SENSOR fails to detect loading of the roll paper in roll paper					
		Descriptio feeding.						
		1 Delead th	Handling					
01215	2520	Error	Paper feeding failure (support number: 1300)					
01215		Detection	Feeding of the cut sheet fails at the paper path. (from paper loading to end of					
		Descriptio	feeding in paper path)					
		· · · ·	Handling					
		Release th	ne release lever. Reload the sheet.					
		(Remove	left paper pieces and check the op edge of the sheet.)					
		1 The erro	r is removed					
		Comp	lete.					
		Ine erro	r is not removed					
		Renlace +	4.					
		replacem	ent.					
		2 · <u>PAPER</u>	FEED ENCODER UNIT.					
		· <u>MULTI</u>	SENSOR UNIT. Adjustment and counter reset is necessary.					
01215	200D	Error	Paper detection ailure (support number: 1322)					
		Detection	Detecting cut she t fails at the paper path. (from paper setting o the end of					
		Descriptio	loading operation in paper p th)					
			Handling					
		Release th	he release lever. Check the cut sheet length and paper jam.					
		1 Comp						
		The erro	r is not removed					
		Go to	2.					
		Replace t	he following parts and check if the error is removed a er each replacement.					
		2 MULTI SE	NSOR UNIT. Adjustment and counter reset is necessary.					
		• <u>PAPER</u>	ENTRY SENSOR.					
		3 Check oth	er suspected cause.					
		🎽 · Media	related cause (size, media type mismatch)					

001215	2016		Error	Paper feeding failure (support number: 1300)
		De	etection	Feeding of the cut sheet fails at the paper path. (from the paper setting o end of
		Des	scriptio	loading in paper path)
				Handling
		F	Release th	ne release lever and reload the sheet. Or check and replace the cut sheet.
			The erro	r is removed
		1	Compl	lete.
			The erro	r is not removed
		$\left - \right $	Go to	2.
			Replace th	he following parts from the top and check if the error is removed a er each
		ľ		
		2		FEED MOTOR UNIT
			· PAPER	FEED ENCODER UNIT.
			· FILM, T	IMING SLIT DISK.
			• HARNE	SS ASS'Y, L.
002121	2010		Error	Skew (support number: 1317)
		De	etection	The multi censor di tects skew
		Des	scriptio	
				Handling
		F	Release th	ne release lever. Reload the paper.
			(Reset to 1	the spool with setting the paper traight.)
		1	Compl	r is removed
			The error	r is not removed
			Go to	2.
		2 1	Replace th	ne MULTI SENSOR UNIT. Adjustment and counter reset is necessary.
			Check oth	er suspected cause.
		3	· Curly e	nd edge of the roll paper
002221	200C		Error	Paper detection ailure (at the top edge of the paper) (support number: 1322)
		De	etection	The multi sensor, ails to detect the paper during paper feeding
		De	scriptio	
				Handling
			Release th	ne release lever. Check the top edge of the paper. Reload the paper.
		1	The erro	r is removed
			The error	r is not removed
			Go to	2.
		2 1	Replace th	ne MULTI SENSOR UNIT. Adjustment and counter reset is necessary.
002221	2017		Error	Paper detection ailure (at the right edge of the paper) (support number: 1322)
		De	etection	
		De	scriptio	The multi sensor alls to detect the paper during paper feeding.
				Handling
		F	Release th	ne release lever. Check the right edge of the paper and the media type.
			The erro	r is removed
		1	Compl	lete.
			Go to	1 IS NOL TEMOVED 2
			Benlace +	2.
002221	2018		Frror	Paper detection, ailure (at the left ed. e of the naner) (support number: 1322)
502221	2010	De	etection	
		De	scriptio	The multi sensor ails to detect the paper during paper feeding.
			1	Handling
		I	Release th	ne release lever. Check the left ed e of the paper and the media type.
			The erro	r is removed
		1	Compl	lete.
			The erro	r is not removed
			Go to	2.
		2	Replace th	ne MULTI SENSOR UNIT. Adjustment and counter reset is necessary.

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003130	201C		Error	Sheet edge detection er or during printing - cut she t (support number: 1300)	Ch Ch						
			etection	Paper jam occurs at the platen or feed roller part during printin , or media	ap						
		D	escriptio	detection ails.	tei						
			1	Handling	, ,						
			Release th	ie release lever. Reload or replace the sheet.							
		I	The error	r is removed							
		1	Compl	Complete.							
			The error	r is not removed	0						
			GO tO A	2.							
		Ľ	Replace tr	The MOLITISENSOR UNIT. Adjustment and counter reset is necessary.	ipt						
		3	Media rela	er suspected cause.	er						
002120	2010		Frror	Paper edge detection er or during printing – oll paper (support number: 1300)	2						
003130	2010	┝╴		Paper iam occurs at the platen or feed roller part during printing or media							
			eccrintio	detection alls							
		F		Handling							
			Release th	he release lever. Reload or replace the paper	0						
			The error	r is removed	าล						
		1	Compl	ete.	ote						
			The error	r is not removed	С. С.						
			Go to 2	2.							
		2	Replace th	ne MULTI SENSOR UNIT. Adjustment and counter reset is necessary.	1						
			Check oth	er suspected cause.	1						
					3	· Media r	related cause (size, media type mismatch)				
			· Curly er	nd edge of the roll paper	Ch						
004040	2019		Error	Cut failure (support number: 4920)	ap						
			LITOI	Memo: Job will be canceled when the error is removed.	tei						
		C	etection	The culler in the printer fails to cut the paper	r 4						
		D	escriptio								
			1	Handling	_						
			The error	is removed by releasing the release lever.							
			Shift the n	node o manual cut and check the cull er operation							
		1	Ine error is removed								
			The error	is not removed							
			Go to 2	2	er						
		F	Replace th	the following parts and check if the error is removed.							
		2	· Cu er								
			· <u>CUTTE</u>	RELADE UNIT							
		2	Check oth	er suspected cause.							
		5	Media rela	ated cause (size, media type mismatch)	S						
311111	2E3B		Error	Paper feeding failure (lower roll) (support number: 1300)	qei						
		C	etection	Feeding of the roll paper fails at the lower roll paper path (roll2). (from the paper	te						
		D	escriptio	feed sensor to the PE sensor in paper path)	- r 6						
			1	Handling							
			Reload the	e roll paper. (Remove left paper pieces and check the op edge of the paper.)							
			The error	r is removed							
		1	Compl	ete.							
			The error	a solution and the solution of	Cha						
			Boplace th	2.	ap						
				ant	er						
				APER FEED SENSOR LINIT	7						
		2	· HARNE	SS ASS'Y RINIP PE SNS							
		Ē	• PAPFR F	ENTRY SENSOR.							
		L		VIP ARM UNIT.							
		L	• ACTIVE	ROLL BRAKE UNIT. Adjustment and counter reset is necessary.	0						
			Check oth	er suspected cause.	ha						
			· Media r	related cause (size, media type mismatch, paper turn-up at the top edge)	pt						
		5	· Curly er	nd edge of the roll paper	er						
			· Avoid t	he paper with strong s ness or heavy roll paper.	00						

311112	2E3E	Error	Paper feeding failure (lower roll) (support number: 1300)
		Detection	Feeding of the roll paper fails at the lower roll paper path (roll2). (from the PE
		Descriptio	sensor to end of feeding in paper path)
			Handling
		Release the	ne release lever. Reload the paper.
		(Remove	left paper pieces and check the op edge of the paper.)
		1 Comp	lete
		The erro	r is not removed
		Go to	2.
		Replace t	he following parts from the top and check if the error is removed a er each
		replacem	ent.
		· <u>ROLL P</u>	APER FEED SENSOR UNIT.
		2 · HARNE	<u>SS ASS'Y, RLNIP PF SNS</u> .
			<u>ENTRY SENSOR</u> .
		MUITI	SENSOB LINIT Adjustment and counter reset is necessary
		· ACTIVE	ROLL BRAKE UNIT. Adjustment and counter reset is necessary.
		Check oth	er suspected cause.
		, · Media	related cause (size, media type mismatch, paper turn-up at the top edge)
		Curly e	nd edge of the roll paper
		· Avoid t	he paper with strong s ness or heavy roll paper.
311113	2054	Error	Unable to pick up the lower roll paper (in roll paper loading) (support number: 1327)
			LOWER PAPER SET SENSOR fails to detect the roll paper front edge in roll paper
		Detection	feeding.
		Detection	< The assumed situation The front edge of the roll paper does not peak off from the roll paper.
		Descriptio	• The spool does not rotate due to gear damage in paper feeding
			Sensor malfunction
			Handling
		1 Feed the	roll paper again. When re-feeding is disabled, feed the paper manually.
311113	2055	Error	Unable to pick up the lower roll paper (in roll paper loading) (support number: 1300)
		Detection	LOWER PAPER ENTRY SENSOR fails to detect the roll paper front edge within the
		Descriptio	specied me period a er LOWER PAPER SET SENSOR detected the roll paper
			front edge.
		1 Feed the	Handling
211112	2057	I Feed the	roll paper again. When re-feeding is disabled, feed the paper manually.
211112	2057	Detection	LOWER PAPER SET SENSOR fails to detect loading of the roll paper in roll paper
		Descriptio	feeding.
			Handling
		1 Reload th	e roll paper.
315150	2921	Error	Take-up error (support number: 4922)
		Detection	Take-up error (nonstop take-up) of the roll paper occurs at paper take-up part of
		Descriptio	the lower roll unit.
		<u> </u>	Handling
		Check the	tape on the roll paper core.
		The tape	ns pasted.
		The tane	Z. Lis not nasted
		Paste	the tape on the roll paper core and press [OK]
		Replace t	he following parts from the top and check if the error is removed a er each
		replacem	ent.
		2 The roll h	older set.
		· <u>ACTIVE</u>	ROLL BRAKE UNIT. Adjustment and counter reset is necessary.
		· <u>SPOOL</u>	LOCK UNIT and COVER, ROLL GEAR L.

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315250	2920		Frror	Take-up error (support number: 4922)						
515250	2320	F)etection	Take-up error (take-up disabled) of the roll paper occurs at paper take-up part of	ha					
			escriptio	the lower roll unit.	pte					
		Handling								
			Check if p	aper jam is occurred.						
			Not jami	ned						
		1	Go to	2.						
			Paper is jammed							
			Remo	ve the paper jam and press [OK.]	Ch					
			Replace t	ne following parts from the top and check if the error is removed a er each	lap					
			replacem	ent.	ote					
		2	· The rol	l holder set.	r 2					
			· <u>ACTIVE</u>	ROLL BRAKE UNIT. Adjustment and counter reset is necessary.						
			· <u>SPOOL</u>	LOCK UNIT and COVER, ROLL GEAR L.						
FF0000	2E3F		Error	Paper feeding failure (support number: 1300)						
		C	Detection	Paner iam occurs						
		D	Descriptio							
		Handling								
		1	Release th	ne release lever. Reload the paper.	tei					
			(Remove	eft paper pieces and check the op edge of the paper.)	ω					
			The erro	r is removed						
			Complete.							
			The error is not removed							
			Go to	2.	-					
			Replace ti	he following parts from the top and check if the error is removed a er each	Chi					
			replacem		ap					
				APER FEED SENSOR UNIT.	ter					
		2		SS ASS 1, REINP PF SINS.	4					
			· PAPER ENTRY SENSOR.							
			DRIVE NIP ARIVI UNIT. MULTI SENSOP UNIT. Adjustment and sounter reset is percessary							
				ROLL BRAKE UNIT. Adjustment and counter reset is necessary.						
		⊢	Check oth	er suspected cause						
			· Media	related cause (size media type mismatch naner turn-up at the top edge)	L Ch					
		3	· Curly e	nd edge of the roll paper	de la compañía de la					
			· Avoid t	he paper with strong s ness or heavy roll paper.	ier					
					(n					

5-5. Detail of Operator Error and Warning

Detail of Operator Error and Warning

Detail Code		Descriptio
100x	Error	Low ink in the ink tank (support number: 1500, alarm code: -)
	Detection Timing	Ink dot count indicates low ink level value or lower.
	Handling	Replace the ink tank.
	Remarks	Ink colors are identified with the lot number of detail codes. (Detail of the last numbers)
1012	Error	Print head non-ejection (support number: 3001, alarm ode: 0017)
	Detection	The number of non-ejection n zzles is zero to 100 a er recovery cleaning of non-ejection
	Timing	detection. In addition, the number of non-ejectio omplementary disabled nozzles is 30 or more.
	Handle	Check the print out. Perform head cleaning as required. When non-ejection till occu s, replace the print head.
1021	Error	Media type mismatch (support number: 1051, alarm code: -)
	Detection	The media type selected in the printer driver does not match the media loaded into the
	Timing	printer.
	Handling	Match the media type set in the printer driver with the media type set to the printer. Or reset
		the printer driver to match the media type set to the printer.
1051	Error	Size clip warning (support number: 1054, alarm code: -)
	Detection Timing	Loading of smaller media into the printer than the media selected in the printer driver.
	Handling	Match the media type set in the printer driver with the media type set to the printer. Or reset the printer driver to match the media type set to the printer.
1052	Error	Borderless printing disabled (bo derless printing unsuppor ed media (warning)) (support number: 1055 / alarm code: -)
	Detection	When the following conditions a e sati fied
	Timing	· [Detect paper se ng mismatch] is set at other than "Pause".
		· Loading of borderless prin ng unsupported media in borderless prin ng.
	Handling	Set the paper with wide enough paper width for borderless printing.
1053	Error	Borderless printing disabled (paper ed e detection er or at home position side (arning)) (support number: 1056 / alarm code: -)
	Detection	When the following conditions a e sati fied
	Timing	· [Detect paper se ng mismatch] is set at other than "Pause".
		• The multi ensor detects that the paper edge at the home posi on side is not posi oned
		within +/-3mm from the reference paper position when bo derless printing is tarted.
	Handling	Reset the paper. When borderless printing is till disabled, eplace the paper.
1054	Error	Roll paper width mismatch (support number: 1052, alarm code: -)
	Detection	Mismatch of the roll paper width selected in [Fit Roll Paper Width] in the printer driver and
	Timing	the roll paper width loaded into the printer.
	Handling	Match the roll paper width set in the printer driver with the roll paper width set to the printer.
		Or reset the printer driver to match the roll paper width set to the printer.
1055	Error	Borderless printing disabled (th ee sides borderless printing disabled (arning)) (support number: 1057, alarm code: -)
	Detection	When the following conditions a e sati fied
	Timing	· [Detect paper se ng mismatch] is set at "Display warning".
		• The multi ensor detects that the paper feed posi on of the borderless prin ng supported paper is off mm or more from the tray for borderless prin ng at away posi on side during prin ng.
	Handling	· Load the paper in wider width than the print job paper size.
		Specify the shorter paper width in print job than the loaded paper size.
140x	Error	No ink in the ink tank (support number: 1570, alarm code: 0020 to 0031)
	Detection Timing	At the timing when ink I vel detection pin is OF .
	Handling	Replace the ink tank.
	Remarks	Ink colors are identified with the l t number of detail codes. (Detail of the last numbers)

To Error Code Table

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141x	Error	Ink tank removed (support number: 1571, alarm code: -)
	Detection	The tank cover is enabled and ink tank is removed during printing
	Timing	The tank cover is opened and link tank is removed during printing.
	Handling	Reinstall the ink tank.
	Remarks	Ink colors are identified with the l t number of detail codes. (Detail of the last numbers)
1701	Error	SGRaster general error: false number of parameters (support number: 3311/alarm code: -)
	Detection	
	Timing	The number of print data parameters is incorrect.
	Handling	Check the print result. When using print program such as RIP (Raster Image Processor), ask the
		manufacturer of the print program.
1702	Error	SGRaster general error: omission of non-optional i em (support number: 3312, alarm code: -)
	Detection	
	Timing	The omission prohibited parameter in the print data is omled.
	Handling	Check the print result. When using print program such as RIP (Raster Image Processor), ask the
	_	manufacturer of the print program.
1703	Error	SGRaster general error: unsupported data (support number: 3313, alarm code: -)
	Detection	
	Timing	The data out of setting ange is set in the print data.
	Handling	Check the print result. When using print program such as RIP (Raster Image Processor), ask the
		manufacturer of the print program.
1706	Error	SGRaster partic lar error: unsupported resoluti n value (support number: 3314, alarm code: -)
	Detection	The vesselution a string in the number data is put of astronomic and
	Timing	The resolution's itting in the protidata is out of setting large.
	Handling	Check the print result. When using print program such as RIP (Raster Image Processor), ask the
		manufacturer of the print program.
1707	Error	SGRaster particular er or: unsupported pressure value (support number: 3315, alarm code: -)
	Detection	The compression method of the print date is incorporation
	Timing	The compression method of the print data is mappropriate.
	Handling	Check the print result. When using print program such as RIP (Raster Image Processor), ask the
		manufacturer of the print program.
1708	Error	SGRaster particular er or: invalid format of data form (support number: 3316, alarm code: -)
	Detection	The format of print data form (color sequence, the number of hits) is inappropriate
	Timing	The format of print data form (color sequence, the number of bits) is mappropriate.
	Handling	Check the print result. When using print program such as RIP (Raster Image Processor), ask the
		manufacturer of the print program.
1709	Error	SGRaster particular er or: combination ailure of resolution and ima e data format (support
		number: 3317, alarm code: -)
	Detection	The combination of print data resolution and image data format is inappropriate
	Timing	
	Handling	Check the print result. When using print program such as RIP (Raster Image Processor), ask the
		manufacturer of the print program.
1900	Error	PDF/JPEG input output error (support number: 3330, alarm code: -)
	Detection	Read/Write of print ioh was disabled
	Timing	
	Handling	Check the print data.
1901	Error	Converting PD /JPEG into print data disabled (support number: 3331, alarm code: -)
	Detection	The hard disk capacity became insufficient in the middle of PDF or JPEG data conversion into
	Timing	print data with HDD.
	Handling	• Delete the saved data in the shared box in the printer HDD*.
		• Print with smaller print size or lower print quality when prin ng PDF/JPEG.
		• *Dele ng the saved job data in the shared box may help avoiding HDD capacity shortage
1000	-	that occurs in conversion into print data.
1902	Error	Invalid JPEG format (support number: 3332, alarm code: -)
	Detection	Unsupported JPEG format.
	Timing	The supported format is JPEG that complies with JFIF1.02.
	Handling	Print from PC.
1903	Error	JPEG decode error (support number: 3333, alarm code: -)
	Detection	Unsupported JPEG format.
	Timing	The supported format is JPEG that complies with JFIF1.02.
	Handling	Print from PC.

1904	Error	PDF authenti ation er or (support number: 3334, alarm code: -)
	Detection Timing	The print setting in PDF file is t to "Not allowed to print".
	Handling	Open PDF file with Adobe Ac obat to check if the printing has been permi ed.
1905	Error	PDF parse error (support number: 3335, alarm code: -)
	Detection	DDF file has here
	Timing	PDF me b oken.
	Handling	Check the PDF file
1906	Error	PDF font error (support number: 3336, alarm code: -)
	Detection	Font substitution occ s because neither the font is set in the PDF file nor included in the
	Timing	installed font.
	Handling	Set and save embedding of the necessary fonts to PDF file.
1907	Error	Image process parameter error (support number: 3340, alarm code: -)
	Detection Timing	Image process parameter to follow the print setting does not xist at the print job processing.
	Handling	When using print program such as RIP (Raster Image Processor), ask the manufacturer of the print program.
1908	Error	Image process table error (support number: 3341, alarm code: -)
	Detection	Image failure is found in image process table sheek when processing the print job
	Timing	image failure is found in image process table check when processing the print job.
	Handling	When using print program such as RIP (Raster Image Processor), ask the manufacturer of the print program.
200C	Error	Paper detection ailure (support number: 1322, alarm code: -)
200D	Detection	The multi sensor ails to detect the paper frontside edge.
	Timing	
		 Assumed cause of this error is as follows:
		The paper is loaded out of position
		• The paper loaded is curling.
		Due to taking out the cut paper just before printin , PAPER ENTRY SENSOR is not able to
	Llevelling	detect the cut paper.
	Handling	Reload the paper.
		- when using clear him, aper size may not be detected in the is stamed on the platen. In this
200E	Error	Paper size out of standard (support number: 1323, alarm code: -)
200E	Detection	The width or length of the paper in set is shorter than the supported smallest value (200E) The
2001	Timing	 width or length of the paper in set is shorter than the supported sinaliest value. (200E) me width or length of the paper in set is longer than the supported largest value. (200F) Detection timing is t paper width detection or roll papers, and paper width detection and paper longth detection or cut shoets.
	Handling	Lift the Liver up to release the error then feed the supported size paper
2010	Error	Skew (support number: 1317, alarm code: .)
2010	Detection	During the paper feeding, the multi sensor d, tests that the paper edge at home position side
	Timing	moved +/-1mm or more (for cut paper, +/-2mm or more) off the original ed e position per 300mm feeding.
	Handling	· Reload the paper.
		• Remove the roll holder. Put the roll paper into the spool un 1 it hits the frange. Set the roll holder to the printer.
		· Select "OFF" or "Loose" in [Skew detec on accuracy] in the printer menu.*
		*Skew printing auses paper jam, failure in image, or stain on the platen, which may cause ink
		smear on the reverse side of the paper in the next printing
2016	Error	Paper feeding failure (support number: 1300, alarm code: -)
	Detection	The length in feed directio of the cut paper detected by PAPER ENTRY SENSOR during printin
	Timing	is di erent from that of which detected during paper feeding.*
		*The change of the cut paper feed amount due to some reasons such as paper jam may cause
		this error.
	Handling	• Remove the paper when it is jamming inside.
		· keioad papers when papers are not jammed inside.

2017	Error	Detection ailure of home position side paper ed e (support number: 1322, alarm code: -)
	Detection	The multi sensor d tected that the paper edge at home position side as off 5mm during
	Timing	paper feeding.*
		*Loading the paper being off the eference position m y also cause this error.
	Handling	Lift the I ver up to release the error. Check the right edge position, and eload or replace the
		paper.
2018	Error	Paper detection ailure (support number: 1322, alarm code: -)
	Detection	The multi sensor ailed to detect the away side paper edge during paper feeding.*
	Timing	*Feeding clear films m y cause this error.
	Handling	Change [Detect paper width] in printer menu to "Disable".
019	Error	Cut failure (support number: 4920, alarm code: -)
	Detection	This error occurs in the following conditions
	Timing	· Neither the number of cutt r motor rota ons nor rota on speed sa sfy the specied
		rota on number and rota on speed during cu ng.
		\cdot The edge detec on posi on is off /-10mm or more from the reference posi on in edge
		detec on a er cu ng.
	Handling	\cdot The cut paper is remaining on the ejec on guide. => Remove the remaining paper.
		• The foreign substance around the ejec on guide hits the cutt r blade. => Remove the
		foreign substance.
		• The media is not used in the recommended use envionment. => Use the media in the
		recommended environmnt.*
		• The paper in use does not support [Automa c cut]. => Select [User cut] for roll paper cut
		se ng and cut the roll paper with scissors.
		• Replace the cutt r blade, in case of other than above states.
	-	The user manual for recommended use environment.
201C	Error	Edge detection er or during printing (support number: 1300, alarm ode: -)
UID		• 2010 for cut sheet, 201D for roll paper
	Detection	The paper width was changed +/-10mm or more at the home position side paper ed e or
	Timing	away side paper edge during printing with bo der.
		• The assumed situation is the olded paper during paper teeding.
020	Handling	Lift the Liver up to release the error, then reload or replace the paper.
2020	Error	No lower roll unit (support number: 1036, alarm code: 0218)
	Detection	I ne printer receives the print job that requires lower roll paper despite of lower roll unit non-
	Llandling	Installation.
	Handling	• Cancel the print job. Print it again without specifying lower roll paper.
		· Turn on the power. Check the cable connect on between the lower roll unit and the main
025	Error	Unit.
2025	Detection	The electric current reached to the maximum leadable value at the upper ACTIVE POLL BRAKE
	Timing	Inte electric current reached to the maximum loadable value at the upper ACTIVE ROLL BRAKE
	T T T T T T T T T T T T T T T T T T T	
		The assumed situation
		• ACTIVE ROLL BRAKE LINIT receives load e.g. due to touching the roll namer by the user
		during roll paper front edge detec on with LIPPER PAPER SET SENSOR
		· Heavy roll paper is being loaded.
	Handling	Switch "Roll paper auto feed" seing in the operation papel to "Disable," and feed the roll
		paper again. When re-feeding is disabled, feed the paper manually.
026	Error	Lower roll drive overload (in roll paper loading) (support number: 1329 alarm code: -)
.020	Detection	The electric current reached to the maximum loadable value at the lower ACTIVE BOLL BRAKE
	Timing	UNIT motor control in paper loading (between LOWER PAPER SET SENSOR and LOWER PAPER
	6	ENTRY SENSOR).
		<pre><the assumed="" pre="" situation<=""></the></pre>
		• ACTIVE ROLL BRAKE UNIT receives load e.g. due to touching the roll namer by the user
		during roll paper front edge detec on with LOWFR PAPER SET SENSOR
		Heavy roll paper is being loaded.
	Handling	Switch "Roll paper auto feed" se ing in the operation papel to "Disable" and feed the roll
		paper again. When re-feeding is disabled, feed the paper manually
		In the recent of the and real freed the paper manually.

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202B	Error	Upper roll end error (strong adhesion) (support number: 1024, alarm code: -)
	Detection	During paper feeding from the upper roll unit, the end edge detection er or (the abnormal
	Timing	amount of rotation dri e in ACTIVE ROLL BRAKE UNIT control) of the roll paper occurs due to
		strong adhesive on the roll end
		• The assumed situation is that the roll paper edge does not neel off from the roll core during
		namer feeding or printin or paper feeding is disabled due to beaviness of the roll paper
	Handling	The roll paper run out \rightarrow Poplace the roll paper.
	Папиния	The roll paper has been leaded but feeding does not work
		Charge print mode and print (charge the encount of rener feeding)
		=> Change print mode and print (change the amount of paper reeding.)
		=> Replace the roll paper with less amount of windings. (light weight roll paper)
		 Loose roll papers may also generates this error.
		(Check if the roll paper is loose when this error occurs while the roll paper is remaining.)
202C	Error	Lower roll end error (strong adhesion) (support number: 1025, alarm code: -)
	Detection	During paper feeding from the lower roll unit, the end edge detection er or (the abnormal
	Timing	amount of rotation dri e in ACTIVE ROLL BRAKE UNIT control) of the roll paper occurs due to
		strong adhesive on the roll end.
		<the assumed="" situation=""> The oll paper edge does not peel off f om the roll core during</the>
		paper feeding or printin, or paper feeding is disabled due to heaviness of the roll paper.
	Handling	The roll paper run out. => Replace the roll paper.
	-	The roll paper has been loaded but feeding does not work.
		=> Change print mode and print (change the amount of paper feeding.)
		=> Replace the roll paper with the less amount of windings. (light weight roll paper)
		 Loose roll papers may also generates this error.
		(Check if the roll paper is loose when this error occurs while the roll paper is remaining.)
2040	Error	Borderless printin disabled in take-up mode - borderless printin upsupported paper (support
2040		number: 4118 alarm code: -)
	Detection	Loading of the borderless printing unsuppor ed paper is detected when the printing, tarts
	Timing	while the lower roll unit is taking un the paper
	Llandling	Print with harder or proce "Concel" to stop the printing
2044	Handling	Print with border or press. Cancel to stop the printing.
2041	Error	Borderless printing disabled in ake-up mode - paper edge detection er or at nome position
		side (operator error) (support number: 4119, alarm code: -)
	Detection	When the following condition is s ti field
	liming	· [Detect paper se ing mismatch] is set at other than "Pause".
		• Besides the lower roll unit is used for taking up the paper, the multiensor detects that
		the paper edge at home posi on side is not posi oned within +3mm from the reference
		posi on when the prin ng starts.*
		* <assumed situation=""> When the paper is s ewed during taking up, due to inappropriate fixing</assumed>
		of the paper with taping to the take-up roll core put into the lower roll unit spool.
	Handling	• Reload the roll paper if the skew is caused in the paper feed unit.
		\cdot Put the tape and x the roll paper on the take-up roll core again if the skew is caused in the
		take-up unit.
		· Select [Print with border] and con nue prin ng.
2042	Error	Borderless printing disabled in ake-up mode - receiving borderless printing unsuppor ed data
		(support number: 4120, alarm code: -)
	Detection	The printer receives the data specifying the borderless printing unsuppor ed paper types or
	Timing	unsupported paper width during the lower roll unit is taking up the paper.
	Handling	Print with border or press "Cancel" to stop the printing
2043	Frror	Borderless printing disabled in _ake-up mode - three sides borderless priniting is disabled
		(operator error) (support number: 4121, alarm code: -)
	Detection	When the following condition is s ti fied
	Timing	· [Detect paper seng mismatch] in the operal on papel is set at "Hold job" or "Dause"
	Thinks and the second s	The multi- ensor detects that the paper feed posi- on of the borderless printing supported
		namer is off 3mm or more from the tray for horderless printing at away position side (3mm)
		or more from the default margin) when the printing starts
	Handling	Drint with horder or proce "Concel" to stop the printing
2044	Error	Incufficial tamount of romaining roll paper in take up mode
2044	Error	(support number: 1021, clorm code:
		I(support number: 1021, alarm code: -)
	Detection	I ne lower roll unit is taking up the paper, [Manage remaining roll amount] is set at "Enable",
	Timing	and the printer receives a print job that requires the longer paper size than the remaining
		paper length.
	Handling	Print with the set paper, "Replace paper," or press "Cancel" to stop the printing.

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2051 Error Unable to pick up the upper roll pa code: -)	per (in roll paper loading) (support number: 1326, alarm
Detection UPPER PAPER SET SENSOR fails to d	letect the roll paper front edge in roll paper feeding
Timing	leteet the foll paper front edge in foll paper feeding.
. The front edge of the roll paper	does not neel off rom the roll namer
. The spool does not rotate due to	a gear damage in paper feeding
· Sensor malfunction	geal damage in paper recuring.
Handling Switch "Boll paper auto feed" se	ng in the operation panel to "Disable" and feed the roll
paper again. When re-feeding is dis	sabled, feed the paper manually.
2052 Error Unable to pick up the upper roll part	per (in roll paper loading) (support number: 1300, alarm
code: -)	
Detection UPPER PAPER ENTRY SENSOR fails t	to detect the roll paper front edge within the speci ed me
Timing period a er UPPER PAPER SET SENS	SOR detected the roll paper front edge.
Handling Switch "Roll paper auto feed" se	ng in the opera on panel to "Disable," and feed the roll
paper again. When re-feeding is dis	sabled, feed the paper manually.
2054 Error Unable to pick up the lower roll pap	per (in roll paper loading) (support number: 1327, alarm
Detection I OWER DADER SET SENSOR fails to a	datast the roll paper front adds in roll paper feeding
Timing	detect the foil paper front edge in foil paper reeding.
The front edge of the roll paper	does not
. The spool does not rotate due to	udes not.
· The spool does not rotate due to	geal damage in paper recurig.
Handling Switch "Poll paper auto food" co.	ng in the operation panel to "Disable" and feed the rell
manuling Switch Koli paper auto reed se i	right the operation parter to Disable, and reed the roll
paper again. When re-recting is us	sabled, leed the paper manually.
code: -)	ber (m ron paper loading) (support number: 1500, alarm
Detection LOWER PAPER ENTRY SENSOR fails	to detect the roll paper front edge within the speci ed
Timing me period a er LOWER PAPER SE	T SENSOR detected the roll paper front edge.
Handling Switch "Roll paper auto feed" se	ng in the opera on panel to "Disable," and feed the roll
paper again. When re-feeding is dis	sabled, feed the paper manually.
2056 Error Upper roll paper not loaded (suppo	ort number: 1034, alarm code: -)
Detection	latest loading of the roll paper in roll paper feeding
Timing	
Handling Reload the roll paper.	
2057 Error Lower roll paper not loaded (suppo	ort number: 1035, alarm code: -)
Detection	detect loading of the roll paper in roll paper feeding
Timing	detect loading of the foil paper in foil paper recuing.
Handling Reload the roll paper.	
31x Error Sub-ink tank ink filling ailure (supp	ort number: 1757, alarm code: 0321 to 0333)
Detection In initial ink filling or sub ank ink fil	lling when eplacing the ink tank, the ink level detection
Timing pin in the sub ink tank is not turned	ON even a er a certain time has passed f om ink tank
installation	
Handling Remove and reinstall the ink tank, o	or replace the ink tank with other ink tanks.
Ink may not be fl wing from the in	nk tank to the sub tank.
Remarks Ink colors are identified with the I	t number of detail codes. (Detail of the last numbers)
405 Error Borderless printing disabled - off th	e loading position (support number: 4116, alar ode: -)
Detection Borderless printing is disabled due	o the following reasons.
Timing The paper is loaded out of position	U U U U U U U U U U U U U U U U U U U
When the printer driver is set at	[Fit Roll Paper Width]>
The multi sensor d tects that the	e paper feed position of the bo derless printing suppor ed
paper is off 3mm or mo e from p	aper edge at the home position side or f om the trav for
borderless printing t away posit	ion side
When the printer driver is set at	other than [Fit Roll Paper Width]>
The multi sensor d tects that the	e paper edge at the home position side is off 3mm or me
from the reference position	

2406	Error	Borderless printing disabled - eceiving borderless printing unsuppor ed data (support number: 4117, alarm code: -)
	Detection	The borderless print data is received when printing tarts. In addition, one or mole of the
	Timing	following conditions is s ti fied
		The paper feeding slot specified in the d ta is the slot other than roll paper feeding ports.
		• The print mode set in the data does not support borderless prin ng.
		· Banner prin ng is speci ed in the data.
		· The paper size that does not support borderless prin ng is specied in the job.
		\cdot Oversize amount of borderless prining in the data is out of standard.
	Handling	Print a er replacing the paper, select "print with border," or press "cancel" to stop printing
2407	Error	Borderless printing disabled - the paper ed e is off during pri ting (support number: 4114, alarm code: -)
	Detection	\cdot The multiensor detects that the paper edge at the home posion side is not posioned
	Timing	within +3mm from the reference paper posi on.
		• The printer driver is set at [Fit Roll Paper Width]. Besides, the multi ensor detects that the
		paper edge at away posi on side is off mm or more from the tray for borderless prin ng
		during borderless prin ng.
	Handling	Reload the paper.
2408	Error	Borderless printing disabled - bo derless printing unsuppor ed paper (operator error) (support
	Detection	Number: 4115, alarm code: -)
	Timing	The printer driver is set at [Eit Poll Paper Width]
	linnig	• The printer fed the roll paper in borderless printing unsupported size
	Handling	Print a er replacing the paper select "print with horder" or press "cancel" to stop printing
2409	Frror	Borderless printing disabled - er restarting the hold job (off the loading positi
		(support number: 4913, alarm code: -)
	Detection	When restarting the hold job er replacing the paper with [Replace paper] bu on, the
	Timing	following cause may disable borderless printing.
		Ine loaded paper position is off the efference position
		When "Hold Job?" is selected at [Device settings > aner-related settings > tect namer
		setting mistch] from the operation name! the priter saves the printing ios in HDD
		without performing printing. These s yed jobs are called "Hold Job"
	Handling	Reload the paper
240A	Frror	Borderless printing disabled - er restarting the hold job (bo derless printing unsuppor ed
240/		paper) (support number: 4913, alarm code: -)
	Detection	When restarting the hold job er replacing the paper with [Replace paper] bu on, the
	Timing	following cause may disable borderless printing
	-	· The loaded paper is not in the borderless printing suppor ed size.
	Handling	Print a er replacing the paper, select "print with border," or press "cancel" to stop printing
250x	Error	Ink empty (support number: 1752, alarm code: 0301 to 0314)
	Detection	During printing or cleaning remaining ink det count reaches to the value of empty
	Timing	
	Handling	Replace the ink tank.
252x	Error	No ink tank (support number: 1660, alarm code: -)
	Detection	Ink tank is not detected when closing the tank cover.
	Timing	
	Handling	Install the ink tank.
254x	Error	Ink tank ID error (support number: 168B, alarm code: 0111 to 0124)
	Detection	At the timing when the ink ank that does not support the corresponding product is installed.
	Timing	
25.02	Handling	Install the lnk tank that supports the corresponding products.
258X	Dotoction	Insunci – Eink (support number: 1756, alarm code: -)
	Timing	Necessary ink amount is not left b fore cleaning.
	Handling	Replace the ink tank
	Indiana	neplace are link tanki

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25Bx	Error	Ink level detection pin OFF when the ank cover is open (support number: 1201, alarm code: -
	Detection Timing	Ink level detection pin turns off when the ank cover is open.
	Handling	Close the tank cover. Check the remaining ink amount. When ink is not left, eplace the ink tank.
270x	Error	Remaining ink amount unknown (genuine ink)(support number: 1730, alarm code: 0661 to 0793)
	Detection Timing	 The ink consumption amou t used for status print, pa ern adjustment printin , or print head cleaning exceeded the specified amou t. Refilling ink o the ink cartridge may cause this error.
	Handling	Select [Cancel job] to remove the error temporarily or release [ink level detection].
	Remarks	Ink colors are identified with the l t number of detail codes. (Detail of the last numbers)
71x	Error	Remaining ink amount unknown (non-genuine ink)(support number: 1731, alarm code: 0701 to 0853)
	Detection Timing	Installation of the non- enuine ink tank.
	Handling	Select [Cancel job] to remove the error temporarily or release [ink level detection]
	Remarks	Ink colors are identified with the l t number of detail codes. (Detail of the last numbers)
73x	Error	Remaining ink amount unknown (no detection y ink level detection pin)(support number: 1753, alarm code: 0601 to 0613)
	Detection Timing	Excess of the specified ink onsumption amout in the ink cartridge during printing user's data.
	Handling	Select [Cancel iob] to remove the error temporarily or release [ink level detection]
	Remarks	Ink colors are identified with the L. t number of detail codes (Detail of the last numbers)
Dv	Error	Noti ation of n wink tank installation (support number: 1552 alarm, ode: -)
27Ux	Detection	The new ink tank installation is d tected.
	Handling	Press [OK] bu on to remove the error or the printer recovers when certain amount of time passed.
	Remarks	Ink colors are identified with the l t number of detail codes. (Detail of the last numbers)
'Ex	Error	Noti ation of used ink ank installation (support number: 1551, alarm ode: -)
2724	Detection	The used ink tank installation is d tected.
	Handling	Press [OK] bu on to remove the error or the printer recovers when certain amount of time passed.
	Remarks	Ink colors are identified with the l t number of detail codes. (Detail of the last numbers)
2800	Error	No print head (support number: 1401, alarm code: 0181)
	Detection Timing	The access cover is closed though no print head is detected.
	Handling	Replace the print head when the printer does not recover by confirming in tallation or reinstalling the print head.
2802	Error	Print head ID error (support number: 1485, alarm code: 0189)
	Detection Timing	When installing the print head, incorrect ID is detected.
	Handling	Replace the print head when the printer does not recover by confirming in tallation or reinstalling the print head.
80D	Error	Non-ejection (support number: 1495, alarm ode: 0192)
	Detection Timing	A er recovery cleaning of non-ejection d tection, 100 o 767 nozzles are non-ejection. In addition, 30 or mo e nozzles are non-ejection omplementary disabled nozzles.
	Handling	Check the printout and perform print head cleaning as required. Replace the print head when the error is not removed yet.
812	Error	Print head version error (support number: 1485, alarm code: 0194)
	Detection Timing	Installation of inapp opriate print head version.
	Handling	Replace the print head when the printer does not recover by confirming in tallation or reinstalling the print head.

2816	Error	Maintenance cartridge EEPROM error (support number: 1722, alarm code: 0197)
	Detection	At maintanance cartridge EEDPOM accessing communication or or occurs
	Timing	At maintenance cartridge EEPROM accessing, communication er or occurs.
	Handling	Replace the maintenance cartridge when the printer does not recover by confirming
		installation or einstalling the print head.
2817	Error	Maintenance cartridge ID error (support number: 1722, alarm code: 0198)
	Detection	At maintenance cartridge EEPROM accessing, the maintenance cartridge that had been
	Timing	Installed to the other model is detected.
2010	Handling	Replace the maintenance cartridge.
2010	Detection	No maintenance cartridge (support number: 1721, alarm code: -)
	Timing	No maintenance cartridge is detected.
	Handling	Check the maintenance cartridge installation or eplace the maintenance cartridge.
2819	Error	Maintenance cartridge full (support number: 1720, alarm code: 0063)
	Detection	
	Timing	At maintenance cartridge EEPROM accessing, the maintenance cartridge is detected to be run.
	Handling	Check remaining capacity of the maintenance cartridge or replace the maintenance cartridge.
281A	Error	Little emaining capacity of maintenance cartridge (support number: 3250, alarm code: -)
	Detection	At maintenance cartridge EEPROM accessing, the value indicates little apacity is left in the
	Timing	maintenance cartridge.
	Handling	Check remaining capacity of the maintenance cartridge or replace the maintenance cartridge.
281B	Error	Insuffici t capacity of maintenance cartridge (support number: 1720, alarm code: -)
	Detection	Insufficient capacity in the maintenance cartridge for cleaning is detected when accessing to
	Ling	the maintenance cartridge EEPROW.
2020	Error	Check remaining capacity of the maintenance cartridge of replace the maintenance cartridge.
2029	Detection	The correction, alue exceeds the threshold during onti, all axis adjustment
	Timing	If the onti all axis of multi sinsor is off the correct position paper edge detection with e multi
		sensor results in incorrect detection. With measuring the dige rence between the theoretical
		printin position of opti al correc on pa ern and the actual printin position the multi sensor
		detects and corrects the di erence amount of the opti al axis.
	Handling	Check if the printed opti al adjustment pa ern has blur.
		If it is blurry, perform print head cleaning.
		If it is not blurry, check the multi sensor in tallation and per orm "GAP CALIB" in service mode.
2901	Error	Hard disk capacity warning (support number: 3350, alarm code: -)
	Detection	The total capacity of the personal box in the printer hard disk became smaller than 1GB.
	Ling	Percent the international here
2002	Error	Remove the job saved in the personal box.
2902	Detection	Printing without s ving to the hard disk (support humber, 5552, alarm code, -) Printing tarts without saving due to hard disk factors (example: no blank capacity in the hard
	Timing	disk etc.)
	Handling	Remove the job saved in the personal box.
2905	Error	Hard disk full (support number: 4900, alarm code: -)
	Detection	
	Timing	The value indicates capacity is full in the hard disk.
	Handling	Remove the job saved in the personal box.
2906	Error	Max. number of files s ved to the hard disk (support number: 4903, alarm code: -)
	Detection	The number of files s yed in the bard disk reaches the max
	Timing	
	Handling	Remove the job saved in the personal box.
2907	Error	Almost the max. number of files s ved to the hard disk (support number: 3351, alarm code: -)
	Detection	The number of files s ved in the hard disk is almost reaching the max.
	Handling	Remove the job saved in the personal box
2920	Frror	Take-un disabled (support number: 4922 alarm code: -)
2320	Detection	The paper feed amount by ACTIVE ROLL UNIT is insufficient against the paper feed amount by
	Timing	PAPER FEED MOTOR. (example: lack of torque. electrical failure of the motor. etc.)
	Handling	• Check if the paper is jammed.
	5	· Reduce the paper amount to wind by the take-up unit.
		· When there is no problem in the above opera on, replace the lower roll unit.

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2921	Error	Nonstop take-up (support number: 4922, alarm code: -)
	Detection	The paper feed amount by ACTIVE ROLL UNIT is too much against the paper feed amount by
	Timing	PAPER FEED MOTOR. (example: no paper, gear damage, out-of-control motor, etc.)
	Handling	Remove the error by pressing [OK] key. A ach the paper with the tape on the roll core.
2D03	Error	Incomplete print head alignment (support number: 3000, alarm code: -)
	Detection	At the initial in tallation or t the incomplete print head position adju tment a er the print
	Timing	head replacement. (including cancel)
	Handling	Perform the print head alignment.
2D04	Error	Print head alignment failure (support number: 4937, alarm code: -)
	Detection Timing	The printer fails to adjust print head alignment toward the print head nozzle line direction.
	Handling	Check the nozzle condition with the n zzle check pa ern. Perform head cleaning as necessary. When the nozzle condition does not ecover by the nozzle cleaning, replace the print head.
E02	Error	No cut sheet (support number: 1005, alarm code: -)
	Detection	The cut sheet is not fed when receiving the job selecting cut she t. Or "No sheets." is detected
	Timing	a er starting pri ting.
	Handling	Load cut sheets on the paper feed slot.
E08	Error	Roll paper width mismatch (support number: 2130, alarm code: -)
	Detection	The paper roll width indicated in the print job and the roll paper width loaded on the printer
	Timing	are not matched.
	Handling	Replace the paper. Or continue pri ting.
E09	Error	Insufficient roll paper left (support number: 1021, alarmode: -)
	Detection	The printer, which is selecting "Enable" t [Manage remaining roll amount], receives a print
	Timing	job that requires the longer paper size than the remaining paper length.
	U	• When the lower roll unit has not been installed, this error appears. When the lower roll unit
		has been installed, 2E31 or 2E32 appears.
	Handling	Select "Print with the loaded paper", "Replace the paper and print", or "cancel" to suspend
		printing.
EOA	Error	Cut sheet has been fed while received data is for roll paper
		(support number: 1306, alarm code: -)
	Detection Timing	The printer receives roll paper print data while feeding has completed with cut sheet.
	Handling	Remove the cut sheet, and load the roll paper.
EOB	Error	Roll paper has been fed while received data is for cut sheet
		(support number: 1324, alarm code: -)
	Detection Timing	The printer receives cut sheet print data while feeding has completed with roll paper.
	Handling	Remove the roll paper, and load the cut sheet.
2EOC	Error	Cut sheet data received in take-up mode (support number: 1325, alarm code: -)
	Detection Timing	The printer receives the print data selecting cut she t printing while ake-up unit is in use.
	Handling	Remove the roll paper, and load the cut sheet.
2E0D	Error	Lower roll paper data received though upper roll paper is not yet ejected
	Dotoction	The upper roll paper feeding has been completed, but the printed roll paper is still on the
	Timing	unner roll unit. In this state, the printer receives the print data that requires to select the
	Timing	lower roll namer settin
		• Selecting "No" or "Print cut Guideline" in [Automatic Cutting] tting or upper roll printing
		may cause this error
	Handling	Cut the printed paper and restart printing
FOF	Frror	Unner roll naner data received though lower roll naner is not yet elected
202	LITOI	(support number: 4107 alarm code: 0434)
	Detection	The lower roll paper feeding has been completed, but the printed roll paper is still on the
	Timing	lower roll unit. In this state, the printer receives the print data that requires to select the
	1.1.1.15	upper roll paper settin
		• Selecting "No" or "Pri t cut Guideline" in [Automatic Cutting] tting or lower roll printing
		may cause this error.
	Handling	Cut the printed paper and restart printing
		Pere ne herrie kaket atta teatart kuttenin

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2EOF Error Lower roll unit setting e or (support number: 4112, alarm code: -) Detection The purpose of the lower roll unit setting is other than paper eeding, when printing commanded to the lower roll units. 2E15 Error Media type mismatch (support number: 1061, alarm code: -) Detection The media type selected in the job is di erent from the actual fed media. Timing The media type selection of the pr t job and the printer. 2E18 Error End of roll paper (support number: 1024, alarm code: -) Detection UPER PAPER ENTRY SENSOR detects the paper end during feeding the roll paper (to roll paper for roll for roll paper for pape for paper for paper for roll pape	e upper
Detection Timing The purpose of the lower roll unit setting is other than paper eeding, when printing commanded to the lower roll unit. 2E15 Error Media type mismatch (support number: 1061, alarm code: -) Detection Timing The media type selected in the job is di erent from the actual fed media. Handling Confirm the media type selection of the pr t job and the printer. 2E18 Error End of roll paper (support number: 1024, alarm code: -) Detection UPPER PAPER ENTRY SENSOR detects the paper end during feeding the roll paper (time printer equips a lower roll unit). Handling Replace the roll paper. ZE10 Error End of roll paper (lower roll) (support number: 1025, alarm code: -) Detection LOWER PAPER ENTRY SENSOR detects the paper end during feeding the lower roll paper (liming Handling Replace the roll paper. ZE20 Error End of roll paper its paper type or size for printing paper eeding system adjustment pa er (support number: 2132, alarm code: -) Detection When adjusting eeding system with cut sheets, media type or size of page2 or a er (support number: 2132, alarm code: -) Detection When adjusting the pri t head position with cut sheet. ZE21 Error Inappropriate paper type or size for printing pri t head position adju tm	e upper
Timing commanded to the lower roll unit. Handling Confirm the oll unit settin 2E15 Error Media type mismatch (support number: 1061, alarm code: -) Detection The media type selected in the job is di erent from the actual fed media. Handling Confirm the media type selected in the job is di erent from the actual fed media. ZE18 Error End of roll paper (support number: 1024, alarm code: -) Detection UPPER PAPER ENTRY SENSOR detects the paper end during feeding the roll paper (time roll paper if the printer equips a lower roll unit). Handling Replace the roll paper. Error End of roll paper (lower roll) (support number: 1025, alarm code: -) Detection IOWER PAPER ENTRY SENSOR detects the paper end during feeding the lower roll paper. ZE20 Error Inappropriate paper type or size for printing paper eeding system adjustment pa en (support number: 2132, alarm code: -) Detection When adjusting eeding system with cut sheets, media type or size of page2 or a er fiming di erent sheet from those of page 1, and appropriate adjustment is considered to b Handling. ZE21 Error Inappropriate paper type or size for printing pri t head position adju tment pa ern (support number: 2132, alarm code: -) Detection When adjusting the pri t head position with c	e upper
Handling Confirm the oil unit settin 2E15 Error Media type mismatch (support number: 1061, alarm code: -) Detection The media type selected in the job is dient from the actual fed media. Timing Error End of roll paper (support number: 1024, alarm code: -) Detection UPPER PAPER ENTRY SENSOR detects the paper end during feeding the roll paper (troin roll paper if the printer equips a lower roll unit). Handling Replace the roll paper. ZE10 Error End of roll paper (lower roll) (support number: 1025, alarm code: -) Detection DPERE PAPER ENTRY SENSOR detects the paper end during feeding the lower roll priming Handling Replace the roll paper. ZE20 Error Inappropriate paper type or size for printing paper eeding system adjustment pape are (support number: 2132, alarm code: -) Detection When adjusting eeding system with cut sheets, media type or size of page2 or a er di error size of the loaded cut sheet. Or reload the sheet. ZE21 Error Inappropriate paper type or size for printing pri t head position adjut tment pare error (support number: 2132, alarm code: -) Detection When adjusting the pri t head position with cut she ts, media type or size of page2 is fed as di erent sheet from those of page 1, and appropriate adjustment is consider disabled.	e upper
ZE15 Error Media type mismatch (support number: 1061, alarm code: -) Detection Timing The media type selected in the job is di erent from the actual fed media. Handling Confirm the media type selection of the pr t job and the printer. ZE18 Error End of roll paper (support number: 1024, alarm code: -) Detection Timing UPPER PAPER ENTRY SENSOR detects the paper end during feeding the roll paper (the printer equips a lower roll unit). Handling Replace the roll paper. ZE10 Error End of roll paper (lower roll) (support number: 1025, alarm code: -) Detection Timing LOWER PAPER ENTRY SENSOR detects the paper end during feeding the lower roll paper it many feeding system adjustment paper system adjustment paper system adjustment paper system adjustment paper it many feeding the form framing of the adjusting the pri t head position with cut she sts, media type or size of page2 or a er is feed as di erent sheet from those of page 1, and appropriate adjustment is considered to b Handling ZE21 Error Inappropriate paper type or size for printing pri t head position adju tment pa ern (support number: 2132, alarm code: -) Detection When adjusting the pri t head position with cu	e upper
Detection Timing The media type selected in the job is dimension for the actual fed media. 2E1B Error End of roll paper (support number: 1024, alarn code: -) Detection UPPER PAPER ENTRY SENSOR detects the paper end during feeding the roll paper (the roll paper if the printer equips a lower roll unit). Handling Replace the roll paper. 2E1C Error End of roll paper (lower roll) (support number: 1025, alarn code: -) Detection DWER PAPER ENTRY SENSOR detects the paper end during feeding the lower roll paper. 2E1C Error End of roll paper (lower roll) (support number: 1025, alarn code: -) Detection Inappropriate paper type or size for printing paper eeding system adjustment paper (support number: 2132, alarn code: -) Detection Inappropriate paper type or size for printing paper eading system adjustment paper end during feeding the number: 2132, alarn code: -) Detection When adjusting eeding system with cut sheets, media type or size of page2 or a error Timing Check the size of the loaded cut sheet. Or reload the sheet. 2E21 Error Inappropriate paper type or size for printing pri t head position adju tment pa ern (support number: 2132, alarm code: -) Detection Timing Check the size of the loaded cut sheet. Or reload the sheet. 2E30	e upper
Timing The media type selected in the job is di erent from the actual fed media. 2E1B Error End of roll paper (support number: 1024, alarm code: -) Detection UPPER PAPER ENTRY SENSOR detects the paper end during feeding the roll paper (ti roll paper if the printer equips a lower roll unit). Handling Replace the roll paper. 2E1C Error End of roll paper (lower roll) (support number: 1025, alarm code: -) Detection Timing Replace the roll paper. 2E1C Error End of roll paper (lower roll) (support number: 1025, alarm code: -) Detection LOWER PAPER ENTRY SENSOR detects the paper end during feeding the lower roll paper. 2E20 Error Inappropriate paper type or size for printing paper eeding system adjustment pa error (support number: 2132, alarm code: -) Detection When adjusting eeding system with cut sheets, media type or size of page2 or a error liming di erent sheet from those of page 1, and appropriate adjustment is considered to b Handling Check the size of the loaded cut sheet. Or reload the sheet. 2E21 Error Inappropriate paper type or size for printing pri t head position adju tment pa ern (support number: 2132, alarm code: -) Detection When adjusting the pri t head position with cut she ts, media type or size of page2 is fed as di erent sheet from t	e upper
Handling Confirm the media type selection of the pr t job and the printer. 2E1B Error End of roll paper (support number: 1024, alarm code: -) Detection UPPER PAPER ENTRY SENSOR detects the paper end during feeding the roll paper (the roll paper if the printer equips a lower roll unit). Handling Replace the roll paper. 2E1C Error End of roll paper (lower roll) (support number: 1025, alarm code: -) Detection LOWER PAPER ENTRY SENSOR detects the paper end during feeding the lower roll paper. 2E20 Error Inappropriate paper type or size for printing paper eeding system adjustment pa en (support number: 2132, alarm code: -) Detection UNER PAPER ENTRY SENSOR detects the paper and appropriate adjustment is considered to b Handling Check the size of the loaded cut sheet. Inappropriate paper type or size for printing pri t head position adjut themt pa ern (support number: 2132, alarm code: -) Detection Uhen adjusting the pri t head position with cut she ts, media type or size of page2 Timing is det as di erent sheet from those of page 1, and appropriate adjustment is considered is disabled. 2E30 Error Size clip error (support number: 2131, alarm code: -) Detection The paper width loaded on the printer. 2E31 Error Size clip	e upper
2E1B Error End of roll paper (support number: 1024, alarm code: -) Detection UPPER PAPER ENTRY SENSOR detects the paper end during feeding the roll paper (t) Handling Replace the roll paper. 2E1C Error End of roll paper (lower roll) (support number: 1025, alarm code: -) Detection Timing LOWER PAPER ENTRY SENSOR detects the paper end during feeding the lower roll paper. 2E20 Error Inappropriate paper type or size for printing paper eeding system adjustment pa e (support number: 2132, alarm code: -) Detection When adjusting eeding system with cut sheets, media type or size of page2 or a er Timing di erent sheet from those of page 1, and appropriate adjustment is considered to b Handling Check the size of the loaded cut sheet. Or reload the sheet. 2E21 Error Inappropriate paper type or size for printing pri t head position adju tment pa ern (support number: 2132, alarm code: -) Detection When adjusting the pri t head position with cut she ts, media type or size of page2 2E21 Error Inappropriate paper type or size for printing pri t head position adju tment pa ern (support number: 2132, alarm code: -) Detection When adjusting the pri t head position with cut she ts, media type or size of page2 2E30 Error Size clip error (support number	e upper
Detection UPPER PAPER ENTRY SENSOR detects the paper end during feeding the roll paper (the roll paper if the printer equips a lower roll unit). Handling Replace the roll paper. ZEIC Error End of roll paper (lower roll) (support number: 1025, alarm code: -) Detection LOWER PAPER ENTRY SENSOR detects the paper end during feeding the lower roll p Handling Replace the roll paper. ZE20 Error Inappropriate paper type or size for printing paper eeding system adjustment pa e (support number: 2132, alarm code: -) Detection When adjusting eeding system with cut sheets, media type or size of page2 or a er timing di erent sheet from those of page 1, and appropriate adjustment is considered to b Handling Check the size of the loaded cut sheet. Or reload the sheet. ZE21 Error Inappropriate paper type or size for printing pri t head position adju tment pa ern (support number: 2132, alarm code: -) Detection When adjusting the pri t head position with cut she ts, media type or size of page2 is fed as di erent sheet from those of page 1, and appropriate adjustment is considered to b Handling Check the size of the loaded cut sheet. Or reload the sheet. ZE30 Error Size clip error (support number: 2131, alarm code: -) Detection Timing The paper width loaded on the printer is shorter t	e upper
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2E33 Error Roll paper not loaded (2E33 = upper roll) (support number: 100A, alarm code: -)	
$[2 \pm 3 \pm $	
2E34 Poll paper not loaded (2E34 = lower roll) (support number: 100B alarm code: -)	
Detection When receiving the roll paper selected print ich, the roll paper (upper roll or lower selected print ich the roll paper (upper roll or lower selected print ich the roll paper (upper roll or lower selected print ich the roll paper (upper roll or lower selected print ich the roll paper (upper roll or lower selected print ich the roll paper (upper roll or lower selected print ich the roll paper selected print ich the roll paper selected print ich the roll paper (upper roll or lower selected print ich the roll paper selected print ich the	all) bac
Timing not been fed. The upper roll por lower roll has not been fed. In addition, the paper	ading
slot is "Auto" in job setting	euing
Handling Load the roll paper /the upper roll or the lower roll)	
2529 Error Email paper size for status print (support number 2122) plarm codes.	
Detection la printica the print ten interpret detection generation the size presidied was	
Detection in printing the printer internal data, the smaller paper than the size specified is each	
Timing content is loaded.	printing
Handling Load the specified sile or larger paper.	printing
2E3A Error Paper feeding failure (2E3A = upper roll) (support number: 1300, alarm code: -) 2E3B Paper feeding failure (2E3B = lower roll) (support number: 1300, alarm code: -)	printing
Detection PAPER ENTRY SENSOR fails to detect the paper edge at the proper timing during old	ı printing
Timing feeding	printing
Handling Rewind all the paper manually and reload the paper	printing
2F3C Error Daner feeding failure (cut cheet) (support number: 1200, alarm code:)	printing Daper
	printing
Detection	printing
Detection Timing PAPER ENTRY SENSOR detects no paper loaded on the printer when the printing tal	printing Daper

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2E3D 2E3E	Error	Paper feeding failure (2E3D = upper roll) (support number: 1300, alarm code: -) Paper feeding failure (2E3E = lower roll) (support number: 1300, alarm code: -)
	Detection	When the paper passes PAPER ENTRY SENSOR, the multi sensor, ails to detect the paper edge
	Timing	 This error occurs when the LE roller is catching the paper.
	Handling	Lift the elease lever up, and reload the cut sheet.
2F3F	Frror	Paper feeding failure (other) (support number: 1300, alarm code: -)
2231	Detection	Paper jam other than the above Detail Codes (2E3A to 2E3E).
	Timing	
2540	Handling	Lift the elease lever up, and reload the cut sheet.
2E40 2E41	Error	Roll paper not loaded (2E40 = upper roll) (support number: 100A, alarm code: -)Roll paper not
2041	Detection	A er starting pri tin . "No roll sheets" (at upper roll or lower roll) is detected.
	Timing	
	Handling	Load the roll paper at the upper or lower roll unit.
2E42	Error	Media type mismatch a er resuming the held job (support number: 4911, alarm code: -)
	Detection Timing	The size of the paper selected in the held job is dierent from the actual fed paper.
	Handling	Select "Replace the paper and print" or press "cancel" to stop printing
2E43	Error	Media type unknown (support number: 4111, alarm code: -)
	Detection	The job is selecting an un egistered media type in the printer.
	Timing	 This error occurs under the following situation
		1. A print job that required a paper type which had been registered in the printer at some point of ti e was saved in the HDD. A er that, this media type was deleted from the printer by MCT. However, this job was executed
		2 When printing f om driver media type data is not obtained from the printer until p essing
		"Get Information " buo n A er deletig a media type from MCT executing a print job that
		specifies this del ted media, without pressing "Get Information" bu on, may generate
		this error.
	Handling	Check the media type settings and pr_t again.
2F45	Frror	Roll paper width mismatch a er resuming the held job (support number: 4910, alarm code: -)
2243	Detection	The width of the roll paper selected in the held job (support from the width of actual fed roll
	Timing	paper.
	Handling	Select "Replace the paper and print" or press "cancel" to stop printing
2E75	Error	Borderless printing disabled - th ee sides borderless priniting is disabled (operator error)
2175	-	(support number: 4113, alarm code: -)
	Detection	When the following condition is s ti fied
	Timing	 Detect paper se ng mismatch] in the opera on panel is set at "Hold job" or "Pause". The printer driver is not set at [Fit Roll Paper Width]. The multi ensor detects that the paper feed posi on is off 3mm or more from the tray
		for borderless prin ng at away posi on side when the prin ng starts.
	Handling	 Select [Fit Roll Paper Width] for the printer driver se ng. Suspend the prin ng. Switch to [Print with border] and print again.
		· Replace the paper and print again.
2EA1	Error	Spool detection er or in the upper ACTIVE ROLL BRAKE UNIT calibration (D tail Code: 2EA1,
2EA2		support number: 1018, alarm code: -)
		Spool detection er or in the lower ACTIVE ROLL BRAKE UNIT calibration (D tail Code: 2EA2,
		support number: 1019, alarm code: 0521)
	Detection Timing	At the timing when the spool is d tected in ACTIVE ROLL BRAKE UNIT calibration
	Handling	Remove the spool installed in the printer.
2EA3	Error	Print head alignment unavailable for the media (support number: 4932, alarm code: 0100)
	Detection	The media for films which has oo high transparency to adjust the print head position is loaded
	Handling	When a highly transparent film media* is loaded, eplace the media
	lianding	*Tracing paper, semi-transparent male film Clear Films to
2FΔ/	Error	Blur printing of the print head alignment pagers (support number: 4034 alarm code: 0102)
ZLA4	Detection	proto protong of the protoneau angliment parent (support number: 4934, alarm code: 0102)
	Timing	Print blur occurs when the density at the pa ern edge is lower than prescribed value.
	Handling	Check the print out by nozzle check. Perform cleaning as required. When the problem is not removed, replace the print head.

	Гинан	Insufficient contract in the print head alignment as one (support number) (022 alore and a
ZEA5	Error	insumici i ti contrast in the print nead alignment pallern (support number: 4933, alarm code:
	Detection	
	Timing	The di erence of the density in the pa ern is lower than the prescribed value.
	Handling	Check the print out by pozzle check. Perform cleaning as required. When the problem is not
	папиши	removed replace the print bead
2546	Error	Apparent visit head alignment value (support numbers 4025, alarm cades 0102)
ZEAD	Detection	Abhormal print nead alignment value (support number: 4935, alarm code: 0103)
	Timing	The print head alignment value is higher than the prescribed value.
	Handling	Check the print out by nozzle check. Perform cleaning as required. When the problem is not removed, replace the print head
2FA7	Error	Hard disk format abnormal (support number: 4901, alarm code: 0524)
	Detection	The hard disk format type is di erent.
	Handling	Format the hard disk
2540	Handling	Format the nard disk.
ZEA8	Error	Automatic eeding adjustment error (support number: 4931, alarm code: 0206)
	Detection Timing	Unreadable patches are six or more.
	Handling	Check if smudge is on the pa ern print sheet. Check if the environment is where the natural light comes in. Perform cleaning the print head.
2EA9	Error	Eccentricity adjustment error (support number: 4936, alarm code: 0207)
	Detection	Eccentricity outomatic adjustment value is out of the prescribed value
	Timing	Eccentricity automatic adjultment value is out of the prescribed value.
	Handling	Check if smudge is on the pa ern print sheet. Check if the environment is where the natural
		light comes in. Perform cleaning the print head.
2EAA	Error	Automatic eeding adjustment failure (support number: 4929, alarm code: 0211)
	Detection	In processing of automatic jud ement for uneven paper feeding, multi sensor ead value is out
	Timing	of the prescribed value.
	Handling	Check if smudge is on the pa ern print sheet. Check if the environment is where the natural
		light comes in. Perform cleaning the print head.
2EAB	Error	Failure in automatic judgme t of uneven printing in the arriage moving directio (support number: 4928, alarm code: 0278)
	Detection	In processing of automatic judement for uneven printing oward carriage scanning direction,
	Timing	multi sensor ead value is out of the prescribed value.
	Handling	Check the print out by nozzle check. Perform cleaning the print head as required. When the
		problem is not removed, replace the print head.
2EBC	Error	Carriage cogging correction ailure (support number: 4930, alarm code: 0215)
	Detection	In the automatic jud ement for carriage cogging adjustment process, the measured value is
	Timing	out of the specified ange.
	- U	• The detecting timing of arriage cogging adjustment is as follows.
		· A er print head replacement, A er print head alignment adjustment.
		• A er the carriage related error occurs.
	Handling	• Check if the linear scale is a ached properly free from scratch and dirt. Con rm any
		scratch and dirt are not on it.
		• If the linear scale is in appropriate condion, replace the carriage encoder sensor.
2F6A	Error	Installed print head model error (support number: 1480, alarm code: -)
2104	Detection	
	Timing	The print head which had been installed into a di erent model before was installed.
	Handling	Install a print head that has been installed into the same model or install a new print head.
2F6B	Error	Installed print head model error (ink system) (support number: 1481, alarm code: -)
	Detection	The print head which had been installed into the model that used a dierent ink set before
	Timing	was installed.
		Inis error occurs in service mode only.
	Handling	Install a print head that has been installed into the same model or install a new print head.
2F7C	Error	Print head contact error at print head replacement (support number: 140B , alarm code: -)
	Detection Timing	Despite of print head installation, the pri t head is not recognized.
	Handling	Reinstall the print head. When the problem is not removed, replace the print head.

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3000	Frror	WPSPIN timeout (support number: 4950, alarm, ode: -)
	Detection	
	Timing	WPS (PIN mode) processing terminates with error due to timeout
	Handling	Follow the message on the operation panel. (Check the sting and eset)
3001	Error	WPSPBC timeout (support number: 4950, alarm ode: -)
	Detection	W/DS (DBC mode) processing terminates with error due to timeout
	Timing	WPS (PBC mode) processing terminates with error due to timeout
	Handling	Follow the message on the operation panel. (Check the s tting and eset)
3002	Error	WPSPBC session overlap (support number: 4950, alarm code: -)
	Detection Timing	WPS (PBC mode) processing terminates with error due to session overlapping.
	Handling	Follow the message on the operation panel. (Check the s tting and eset)
3003	Error	WPS credential er or (support number: 4950, alarm code: -)
	Detection	WPS (PBC mode) processing terminates with error due to false credential (enc yption mode is
	Timing	WEP).
	Handling	Follow the message on the operation panel. (Check the s tting and eset)
3004	Error	Other WPS errors (support number: 4950, alarm code: -)
	Detection Timing	The failure of the reasons other than above WPS.
	Handling	Follow the message on the operation panel. (Check the s tting and eset)
3005	Error	AOSS multiple access poi ts error (support number: 4951, alarm code: -)
	Detection Timing	Multiple wi eless LAN routers in AOSS mode are detected.
	Handling	Follow the message on the operation panel. (Check the s tting and eset)
3006	Error	AOSS timeout (support number: 4951, alarm ode: -)
	Detection Timing	Wireless LAN router in AOSS mode is not detected.
	Handling	Follow the message on the operation panel. (Check the sting and eset)
3007	Error	AOSS connection er or (support number: 4951, alarm code: -)
	Detection Timing	The other device is connecting o the wireless router.
	Handling	Follow the message on the operation panel. (Check the s tting and eset)
3008	Error	AOSS security setting e or (support number: 4951, alarm code: -)
	Detection Timing	When confirming wi eless LAN router and security information, the er or occurs.
	Handling	Follow the message on the operation panel. (Check the sting and eset)
3009	Error	Other AOSS errors (support number: 4951, alarm code: -)
	Detection Timing	Wireless LAN set-up by AOSS fails.
	Handling	Follow the message on the operation panel. (Check the sting and eset)
3010	Error	Access point connection ailure (support number: 4952, alarm code: -)
	Detection Timing	Connecting o the access point by setting w eless LAN manually fails.
	Handling	Follow the message on the operation panel. (Check the s tting and eset)
3011	Error	Access point not detected with the specified SSID (support number: 4952, alarm ode: -)
	Detection Timing	In set-up, AP detection of the input SSID ails.
	Handling	Follow the message on the operation panel. (Check the s tting and eset)
3012	Error	Connection alarm due o IP address obtaining failure (support number: 4953, alarm code: -)
	Detection Timing	In wireless detail setti , despite selecting [WEP], o taining IP address fails, and AutoIP is set.
	Handling	Follow the message on the operation panel. (Check the sting and eset)
3013	Error	Cableless setup timeout (support number: 4954, alarm ode: -)
	Detection Timing	In cableless set-up, wireless LAN setting ocess was finished in er or due to timeout.
	Handling	Follow the message on the operation panel. (Check the sting and eset)

3014	Error	Cableless setup setting ailure (support number: 4954 alarm code: -)
5014	Detection	Cableless setup setting andre (support number: 4554, alarm code: 4)
	Timing	In cableless set-up, wireless LAN setting ails.
	Handling	Follow the message on the operation panel (Check the stiting and eset)
3015	Frror	I AN invalid in IPv4/IPv6 setting (support number: 4955, alarm, ode: -)
3013	Detection	
	Timing	LAN is invalid when IPv4/IPv6 is selected.
	Handling	"Enable" [Acti e wired LAN] or [Acti e wireless LAN].
3016	Error	LAN setting u vailable (support number: 4956, alarm code: -)
	Detection Timing	When changing LAN se g, the se g change was not available due to the following reasons • The printer is in the middle of opera on. • Remote UI is selec ng the printer se ngs.
	Handling	• Terminate other opera ons and select se ngs again.
3017	Error	[Raku Raku WLAN Start] timeout er or (support number: 4957, alarm code: -)
	Detection Timing	Connecting via [Ra u Raku WLAN Start] fails.
	Handling	Connect again.
3018	Error	[Raku Raku WLAN Start] other errors (support number: 4957, alarm code: -)
	Detection	
	Timing	Accessing to the mail server fails.
	Handling	Check with the remote UI if the secure connection (SSL) s ttings of the mail s ver and the printer are matching.
3022	Error	Wi-Fi Direct connection equest (support number: 4959, alarm code: -)
	Detection Timing	Connection is equested from Wi-Fi Direct supported device.
	Handling	Select "Yes (accept)" or "No (not accept)."
3023	Error	SMTP server setting e or (support number: 3414, alarm code: -)
	Detection Timing	Connecting o SMTP server fails.
	Handling	Check with the remote UI if the address and port number of the mail server for outgoing
2024	Error	POD server setting a er (support number: 2415, alarm soda:)
3024	Detection	POP server setting e or (support number: 3415, alarm code: -)
	Timing	Connecting o POP server fails.
	Handling	Check with the remote UI if the address and port number of the mail server for incoming message (POP3) in the mail server settings e correct.
3025	Error	SMTP SSL connection er or (support number: 3416, alarm code: -)
	Detection Timing	Connecting SMTP se ver with SSL fails.
	Handling	Check with the remote UI if the secure connection (SSL) s ttings of the mail s ver and the printer are matching.
3026	Error	POP SSL connection er or (support number: 3417, alarm code: -)
	Detection Timing	Connecting POP se ver with SSL fails.
	Handling	Check with the remote UI if the secure connection (SSL) s ttings of the mail s ver and the printer are matching.
3027	Error	SMTP command error (support number: 3418, alarm code: -)
	Detection Timing	Sending command to SMTP server fails.
	Handling	Check with the remote UI if the items related to the mail server for outgoing message (SMTP) in the mail server settings — e correct
3028	Error	SMTP authorization er or (support number: 3/19 alarm code: -)
3020	Detection	SMTP authorization user name is not specified. SMTP author, ation has word is not specified
	Timing	or SMTP authorization ails.
	Handling	Check with the remote UI if the account and the password for outgoing message in the mail
		server settings e correct.

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3029	Error	POP command error (support number: 3420, alarm code: -)
	Detection	
	Timing	Sending command to POP server fails.
	Handling	Check with the remote UI if the items related to the mail server for incoming message (POP3)
		in the mail server settings e correct.
3030	Error	POP authorization er or (support number: 3421, alarm code: -)
	Detection	POP authorization user name is not specified, POP author ation pas word is not specified, or
	Timing	POP authorization ails.
	Handling	Check with the remote UI if the account and the password for incoming message in the mail
0004		server settings e correct.
3031	Error	APOP authorization er or (support number: 3422, alarm code: -)
	Detection	APOP authorization ails.
	Handling	Check with the remote LIL if the APOP settings e appropriate
032	Error	Socket server connection er or (support number: 3423 alarm code: -)
052	Detection	Communication timeout occ. s in connecting with SMTP server. Or socket error such as Read
	Timing	Write occurs.
	Handling	Check with the remote UI if the mail server settings e appropriate.
033	Error	Destin tion mail add ess error (support number: 3424, alarm code: -)
	Detection	
	Timing	Destin tion mail add ess is incorrect.
	Handling	Select a correct e-mail address of destin tion with the emote UI and send again.
034	Error	Unsupported device connected (support number: 2001, alarm code: -)
	Detection	LISP best unsupported device is connected
	Timing	
	Handling	Follow the message on the operation panel. (Check the s tting and eset)
035	Error	Hub not supported (support number: 2002, alarm code: -)
	Detection Timing	USB hub is connected to USB host.
	Handling	Follow the message on the operation panel. (Check the stting and eset)
200	Error	Parts counter alarm 1 (support number: 3200, alarm code: 0525)
	Detection Timing	The value reached to the number indicating W1 I vel in the parts counter.
	Handling	The part is available for a while unti the operati n panel indicates "Part replacement needed"
3201	Error	Parts counter alarm 2 (support number: 3201, alarm code: 0526)
	Detection	The value reached to the number indicating W2 L value the parts counter
	Timing	The value reached to the number indicating w21 ver in the parts counter.
	Handling	Replace the corresponding part, and clear the corresponding counter data in service mode.
305	Error	Media update corruption (support number: 3306, alarm ode: 0520)
	Detection	Recognizing the media data properly fails due to the broken media data of the printer
	Timing	
	Handling	Start up [Media Configu ation ool] and recover the printer media data.
	Error	Ink tank cover opening during operation (support number: 1210, alarm ode: -)
	Detection	The ink tank cover is opened in other than the following timing
	liming	Standby, closed standby, during printin , during paper feeding, at ink related error occurrence
	Llandling	
	Fandling	Close the link tank cover.
	Detection	
	Timing	The ink tank cover is opened when opening and closing is operable.
	Handling	Close the ink tank cover
	Frror	Access cover opening (support number: 1200, alarm code: -)
	Detection	
	Timing	The access cover is opened when opening and closing is operable.
	Handling	Close the access cover.
	Error	Release lever lifting (support number: 1213, alarm_ode: -)
	Detection	
	Timing	The release lever is li ed when lifting up and down is ope able.
	Handling	Lower the release lever.

5-6. Appendix

Contrast List of Error Code and Support Number

Support No.	Error Code (E code & Detail code)
1005	2E02
100A	2E33, 2E40
100B	2E34, 2E41
100E	EC16-202E
100F	EC17-202F
1018	2EA1
1019	2EA2
1021	2044, 2E09
1022	2E31
1023	2E32
1024	202B, 2E1B
1025	202C, 2E1C
1034	2056
1035	2057
1036	2020
1039	EC17-203A
1051	1021
1052	1054
1054	1051
1055	1052
1056	1053
1057	1055
1061	2E15
1201	25B0, 25B1, 25B2, 25B3, 25B6
1214	EC19-2F21, EC51-2F38
1300	2016, 201C, 201D, 2052, 2055, 2E3A, 2E3B, 2E3C, 2E3D, 2E3E, 2E3F
1306	2E0A
1317	2010
1318	EC0F-2F93
1322	200C, 200D, 2017, 2018
1323	200E, 200F
1324	2E0B
1325	2E0C
1326	2051
1327	2054
1328	2025
1329	2026
1401	2800
1403	EC21-282E

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Support No.	Error Code (E code & Detail code)	Cha
1408	EC21-2F70, EC21-2F73	apte
1409	EC21-2F71, EC21-2F74	er 1
140A	EC21-2F72, EC21-2F75	
140B	2F7C	
140C	EC21-282D	
140F	EC21-2F6D	Cha
1468	EC55-2F24	pte
1477	EC21-2F50, EC21-2F56, EC21-2F60	r 2
1478	EC21-2F53, EC21-2F58, EC21-2F62, EC21-2F7F	
1479	EC21- 2F63	
1480	2F6A	0
1481	2F6B	ha
1485	2802, 2812	ptei
1492	EC02-2F42, EC21-2F44, EC3F-2F40, EC3F-2F41	ω
1494	EC21-2F43	
1495	280D	
1500	1000, 1001, 1002, 1003, 1006	0
1551	27E0, 27E1, 27E2, 27E3, 27E6	hap
1552	27D0, 27D1, 27D2, 27D3, 27D6	ter
1570	1400, 1401, 1402, 1403, 1406	4
1571	1410, 1411, 1412, 1413, 1416	
1660	2520, 2521, 2522, 2523, 2526	
168B	2540, 2541, 2542, 2543, 2546	C C
1720	2819, 281B	hap
1721	2818	ter
1722	2816, 2817	G
1730	2700, 2701, 2702, 2703, 2706	
1731	2710, 2711, 2712, 2713, 2716	
1752	2500, 2501, 2502, 2503, 2506	Ch
1753	2730, 2731, 2732, 2733, 2736	apt
1756	2580, 2581, 2582, 2583, 2586	er (
1757	2310, 2311, 2312, 2313, 2316	0.
1875	EC17-202D	
2001	3034	
2002	3035	Cha
2130	2E08	apte
2131	2E30	er 7
2132	2E20, 2E21, 2E38	
3000	2D03	
3001	1012	
3200	3200	Cha
3201	3201	pte
3250	281A	r co

Support No.	Error Code (E code & Detail code)
3306	3305
3311	1701
3312	1702
3313	1703
3314	1706
3315	1707
3316	1708
3317	1709
3330	1900
3331	1901
3332	1902
3333	1903
3334	1904
3335	1905
3336	1906
3340	1907
3341	1908
3350	2901
3351	2907
3352	2902
3414	3023
3415	3024
3416	3025
3417	3026
3418	3027
3419	3028
3420	3029
3421	3030
3422	3031
3423	3032
3424	3033
4107	2E0D, 2E0E
4111	2E43
4112	2EOF
4113	2E75
4114	2407
4115	2408
4116	2405
4117	2406
4118	2040
4119	2041
4120	2042
4121	2043

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	Т	
Support No.	Error Code (E code & Detail code)	Cha
	EC01-2F90, EC01-2F95, EC04-2F31, EC04-2F91, EC05-2F92, EC06-2F9A, EC06-2F9B, EC06-2F9C,	pte
	EC16-2021, EC16-2022, EC16-2027, EC16-202A, EC16-2038, EC17-2023, EC17-2024, EC17-2028,	r 1
4004	EC17-2029, EC17-2039, EC1B-2030, EC1B-2031, EC1B-2032, EC1B-2033, EC1C-2034, EC1C-2035,	
4801	EC1C-2036,EC1C-2037, EC21-2F51, EC21-2F54, EC21-2F57, EC21-2F59, EC21-2F61, EC21-2F64, EC21-2F67, EC21-2F7D, EC22-2F30, EC22-2F47, EC23-260E, EC23-2F11, EC23-2F18, EC23-2F32.	
	EC25-2F16, EC31-2F09, EC31-2F10, EC31-2F1B, EC31-2F1C, EC31-2F1D, EC31-2F1E, EC31-2F1F,	
	EC31-2F22, EC31-2F23, EC31-2F94, EC34-2602, EC34-2605, EC34-2F3B, EC51-2F14, EC51-2F15, EC51-2EDE EC51-3301 EC51-3302 EC51-3303 EC54-290A EC55-2E20 EC55-2E6C EC58-2E12	Cha
4803	EC51-203C	ptei
4804	EC17-203D	r 2
4805	EC1D-2050, EC1E-2053	
4900	2905	
4901	2EA7	0
4903	2906	hap
4905	EC51-3304, EC51-3306, EC51-3307, EC51-3308, EC51-3309, EC51-330A	ter
4907	EC54-290C	ω
4910	2E45	
4911	2E42	
4913	2409, 240A	Ch Ch
4920	2019	apt
4922	2920, 2921	er 4
4923	2829	
4928	2EAB	
4929	2EAA	
4930	2EBC	Cha
4931	2EA8	lpte
4932	2EA3	Ϋ́σ
4933	2EA5	
4934	2EA4	
4935	2EA6	
4936	2EA9	Chap
4937	2D04	oter
4950	3000, 3001, 3002, 3003, 3004	.6
4951	3005, 3006, 3007, 3008, 3009	
4952	3010, 3011	
4953	3012	9
4954	3013, 3014	пар
4955	3015	ter
4956	3016	7
4957	3017, 3018	-
4959	3022	
5106	EC03-4061	Ch Ch
5200	EC21-2F7E	apt
5A60	EC33-4020, EC33-4021, EC33-4022, EC33-4023, EC33-4026	er 8
5B16	EC22-4001	00

Support No.	Error Code (E code & Detail code)
5B20	EC25-4001, EC41-4001, EC43-4001, EC44-4001, EC45-4001, EC47-4001, EC49-4001
5B21	EC48-4001
5C00	EC31-4001
6502	EC56-2FE0
6700	EC57-404F
6702	EC57-4040
6820	EC07-4060, EC51-4041, EC51-4042, EC51-4045, EC51-4046, EC51-4047, EC51-4070, EC51-4071, EC51-4072, EC51-404C, EC51-404D
6900	EC51-3000
6901	EC51-3001
6902	EC51-3006
6910	EC59-3002
6911	EC59-3003
6920	EC51-3004
6921	EC51-3005
6930	EC51-3100
6931	EC51-3101
6932	EC51-3102
6933	EC51-3103
6940	EC51-3104
6941	EC51-3105
6942	EC51-3106
6943	EC51-3107
6944	EC51-3108
6945	EC51-3109
6946	EC51-3110
7001	EC54-401A
7003	EC54-405A
7004	EC54-405B
7005	EC54-4080
7006	EC54-4081
7050	EC51-5001
7051	EC51-5002
7052	EC51-5003
8200	EC24-4049, EC24-404A, EC24-404B
9000	EC51-2F07
9110	EC52-4038, EC52-4039
B20A	EC03-403A
B510	EC32-4001, EC3F-4120, EC3F-4121, EC3F-4122, EC3F-4123, EC3F-4126

CHAPTER 6

DISASSEMBLY AND REASSEMBLY

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5 FRONT1 (NIP ARM UNIT / WASTE INK ABSORBER)	364
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10 INK TANK UNIT (R)	498
11 CARRIAGE UNIT (1)	512
12 CARRIAGE UNIT (2)	538
13 PAPER FEED ROLLER UNIT (PINCH ROLLER UNIT)	574

14 CUTTER BLADE UNIT	616
15 MAIN HARNESS	630
16 LOWER ROLL UNIT (1)	666
17 LOWER ROLL UNIT (2)	676
18 LOWER ROLL UNIT (3)	690

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6-1. Introduction

This chapter gives procedures for disassembling and reassembling the printer.

A er failure diagnostics, the se vice technician is requested to follow the instructions in this chater to replace a faulty unit.

Each procedure is based on 44" model with 24" model and 36" model information added when necessa y. Harnesses, wire saddles, and edge saddles are subject to change without notice

Notes on disassembly and reassembly:

General notes:

- 1. Before disassembly or reassembly, be sure to unplug the power cord for the safety purpose.
- 2. Before disassembly or reassembly, remove the paper from the printer.
- 3. When draining ink into the sub tank or disconnecting the ink tube, be autious not o drop ink or smear the units and surroundings with ink.
- 4. Adjustment or counter resetting is equired for some of the parts a er they are assembled. Be sure to perform the specified adju tment or counter resetting t the end of assembly. (Counter resetting i specifi ally mentioned in the appli able disassembly procedures.)
- 5. In reassembling the unit, make sure to use the proper screw (length and diameter).
- 6. DO NOT make the printer operate with a part or unit removed in principle.
- 7. Before handling the circuit board, touch the metal part of the printer to discharge static electricity and protect the board from damaged due to static electricit .
- 8. Before replacing the circuit board, unplug the AC power cord from the printer and wait for three minutes or longer to ensure discharge of electricity from the board.
- 9. Tighten the screw cautiously not o apply any extra power. Screwing too tig t or too strong will break or deform the screw hole.
- 10. For works where you can get ink smearing, it is recommended to put on vinyl gloves.
- 11. When placing a removed print head, keep the face surface free from contacting a ything.Never place the print head with the face surface facing down.
- 12. When the print head is removed or it is uncapped during the work, it is recommended to perform Print Head Cleaning at the end of the work (reassembly).
- 13. When a aching the cu er unit, a ach the special tool under the unit with the unit positioned in the center as shown below, then tig ten the screw.



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Units that are not allowed to be disassembled:

The unit that is fi ed with a red screw cannot be adjusted in the field, thus it mu t not be disassembled. If the red screw is loosened or removed, the printer will not be able to operate or print properly. DO NOT loosen or remove the red screw.



How to use this manual:

Points:

Each section onsists of "disassembly fl wchart and illustration" and detailed procedures." With the part name in the fl wchart and the part illustration, ou will be able to have a quick look at the shortest way to reach the target part.

To assemble the unit, follow the disassembly procedures in reverse order unless otherwise specified

Disassembly flowchart:

- The steps to remove the target part are shown in the simple diagram.
- Only the service parts are given in the fl wchart.

Illustration:

- Each group of parts corresponding to the one in the disassembly flo chart is shown.
- The service parts are indicated in the color white.



Detailed procedures:

- The disassembly procedures outlined in the fl wchart are explained step by step.
- The icon shown below is provided in some of the detailed procedures, which indicates that the how-to video of that procedure is available.



How to read the flowchart:

Legend:

< Example >



A [A-1]

: Group in the detailed procedures.

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How to use the flowchart:

Each fl wchart starts from the fi st step of disassembly with the printer standing still. Go th ough the

fl wchart from the top to the target part.

Multiple parts in the same f ame mean that they are handled as a unit.

< Example >



Example 1) To remove COVER, INKTANK BACK:



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Example 2) To remove COVER, INKTANK L INSIDE:



Example 3) To remove HARNESS ASS'Y, TANKLED L RLY:



Example 4) To remove INK SUPPLY TANK HOLDER UNIT L:



Explanation of Symbols

The following symbols are used throughout this Service Manual.

			1
Symbols	Meanings	Symbols	Meanings
0	Check visually.		Remove the claw.
	Remove the RS screw.		Release the hook.
	Remove the TP screw.		Release the boss.
	Remove the binding head screw.	9	Release the tab.
	Remove the toothed lock washer screw.	6	Remove the split lock washer.
	Remove the double washer SEMS screw.		Remove the toothed lock washer.
Ø	Loosen the screw.		Remove the E-clip retaining ring.
	Tighten the screw.		Disconnect the connector.
Description of	screw characteristics.		Remove the bundle cable or bundle wire from the cable guide, the edging saddle, or the wire saddle.
BK	Black screw = BK Long screw = LONG		The following four wiring tools are used for wiring harnesses. In this manual, these tools are described in the abbreviations as follows:
			Edging saddle = [E] Wire saddle = [W] Cable guide = [G] Reuse band = [R]

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6-2. Disassembly and Reassembly

Index by Parts Names

Parts names and where to find them in the disassembly and eassembly procedures are listed below. With regard to the individual electric component (such as motors, sensors, and switches), instead of the component name itself, the name of the unit where the applicable component is used is given in the list (the component name is in the parentheses under the unit name).

Printer

	Disassembly & Reassembly		Remarks
Part Name	Procedures		
	Title	Group	
ABSORBER	1	A-1	
ABSORBER, CAP	9	G-4	
ABSORBER, INK	10	E	
ACCESS COVER LOCK UNIT R	8	C-1	
ACTIVE ROLL BRAKE UNIT	2	С	
ARM, LEVER LINK	11	A-1	
AWAY PLATEN	4	С	
BACKUP PCB UNIT	9	I-2	
BASE, CHAIN LINK	12	E-3	
BELT, CARRIAGE	12	B-1	
BELT, PAPER TRANSPORT	2	D-2	
BOX INKTANK	1	A-1	
BUSH UNIT, ROLL COVER L	6	A	24" model, 36" model
BUSH, ARM ROTARY SHAFT	13	D	
BUSH, ROLL COVER L	6	A	44" model
BUSHING / CLEANER KIT	11	E-1	
BUSHING, PR RELEASE	13	В	
BUSHING, PRESSURE RELEASE	13	В	
CAM SHAFT UNIT	5	E-4	
CAP, ROLL COVER SHAFT	6	A	
CAP, SIDE COVER	1	А	L
CAP, SIDE COVER	9	А	R
CARRIAGE ENCODER UNIT	12	C-2	
CARRIAGE LIFT SENSOR	12	B-4	
"CARRIAGE MOTOR		_	
(MOTOR, DC, 47.8W)"	11	D	
CARRIAGE RELAY PCB UNIT	12	C-1	
CARRIAGE UNIT	12	B-1	
CASE, SPOOL SIDE INNER R	8	С	
CODEWHEEL COVER UNIT	2	D	
COUPLING, CARRIAGE	12	B-3	
COVER UNIT, BACK TOP CENTER	3	D	
COVER UNIT, BACK TOP R	8	А	
COVER UNIT, INKTANK, TOP R	10	А	
COVER UNIT, MTC	9	E	
COVER UNIT, SIDE L B	1	А	
COVER UNIT, SIDE R B	9	А	
COVER, BACK POSITION	14	B-1	
COVER, BACK RIGHT	13	А	24" model
COVER, FRONT L	3	С	
COVER, FRONT R	8	А	

	Disassembly	& Reassembly		
Part Name	Proc	edures	Remarks	
	Title	Group	-	
COVER. FRONT TOP R	8	A		
COVER. HOME POSITION	14	B		
	10	B		
	1	Δ-1		
	10	Δ-2		
	10	Δ-1		
	11	Δ-3		
COVER MIST FAN	11	Δ		
	2			
	12	B-/		
		D-4		
	2	A C 1		
	Z			
	1	A		
	9	A		
	6	E		
	6	В		
	1	A		
CUTTER BLADE UNIT	14	B-1		
"CUTTER HP SENSOR	14	B-2		
(IC, PHOTO INTERRUPTER)"				
CUTTER MOTOR UNIT, W/ENCODER	14	B-1		
DAMPER UNIT, ROLL COVER R	6	C-2		
DRIVE NIP ARM UNIT	5	E-3		
FILM, TIMING SLIT DISK	2	D-1		
FILM, TIMING SLIT STRIP	11	С		
FLANGE, PULLEY	2	D-1		
FLAPPER SEPARATE UNIT W/SP	5	A		
FLAPPER SEPARATE UNIT	5	A		
FLEXIBLE CABLE UNIT	12	E-2		
GEAR, PRESSURE RELEASE	13	В		
GEAR, RELEASE LEVER	9	H-4		
GUARD ACCESS COVER UNIT W/SPUR	4	A		
GUIDE UNIT, LOW A	5	D		
GUIDE UNIT, LOW B	5	D		
GUIDE UNIT, LOW C	5	D	36" model, 44" model	
GUIDE UNIT, LOW D	5	D	44" model	
GUIDE UNIT. OUTSIDE A	6	G-1		
GUIDE UNIT. OUTSIDE B	6	G-2	24" model. 44" model	
HANDLE. INKTANK BACK	9	1-4		
HARD DISK	7	A-3	24" model, 36" model	
	7	B	44" model	
	,	C		
	2			
HARNESS ASS Y, HEAD WANAGEWENT	9	G-3	24" model 26" model	
HARNESS ASS' Y, INLET RELAY	/	B-1		
	/	A-5		
	3	B B		
HARNESS ASS' Y, INTERLUCK SW	8	B-3	<u>к</u>	
HARNESS ASS' Y, L	15			
HARNESS ASS' Y, LFPE SNS	13	C-2		
HARNESS ASS' Y, PANEL LVDS	8	B-1		
HARNESS ASS' Y. POWER SUPPLY	7	C	24" model, 36" model	
	7	A-3	44" model	
HARNESS ASS' Y, R	15			
HARNESS ASS' Y, RLNIP PF SNS	5	E-2		
HARNESS ASS' Y, RSIDE FRONT	8	C-2		

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	Disassembly	& Reassembly		
Part Name P		, edures	Remarks	
	Title	Group		
HARNESS ASS' Y RIL RELAY	1	Δ-Δ		
HARNESS ASS' Y TANK CVR MEAN R	9			
HARNESS ASS' V TANKI ED R RIV	10			
	5	F_1		
	2	F	36" model 11" model	
	Z	E 2		
			24" model 26" model	
HDD CABLE ASS' Y	7	A-4 A-6	44" model	
HEAD COVER SENSOR	11	A-3		
(IC, PHOTO INTERRUPTER)				
HEAD LEVER UNIT	11	A-2		
HEAD MANAGEMENT SENSOR UNIT	9	G-2		
HOLDER, PAPER FEED ROLLER	13	D		
HOLDER, SLIDER PRESSURE, CR	12	B-5		
HOLDER, SPOOL SIDE L	6	E		
HOLDER, SPOOL SIDE R	6	В		
	3	В	L	
	8	B-3	R	
	7	A-2	24" model, 36" model	
I/F FCB UNIT	7	A-4	44" model	
ID PCB UNIT	9	I-3		
INK SUPPLY MOUNT BASE UNIT L	1	A-2		
INK SUPPLY MOUNT BASE UNIT R	9	I-4		
INK SUPPLY MOUNT UNIT R	10	E		
INK SUPPLY TANK HOLDER UNIT R	10	E		
INK TUBE UNIT	12	E-1		
INLET UNIT	1	A-3		
JOINT LEVER UNIT	11	A-1		
LEFT TOP COVER SWITCH		_		
(MICRO SWITCH)	3	В		
LEVER. PAPER FEED SENSOR	5	E-1		
LIFT UNIT	9	F		
LOCK LEVER, ACCESS COVER L	3	F		
	7	 		
MIST FAN DUCT LINIT 1	13	B	36" model 44" model	
MIST FAN DUCT UNIT 2	13	B	24" model 44" model	
	13	B	36" model	
	11	Δ-Λ		
	5	F-4		
	5	F-/		
		C_1		
	11			
	0		+	
	3	п-5	+	
	13	C-1		
	2			
	2	D-2		
	13			
PINCH ROLLER UNIT	13	D	<u> </u>	
PINCH ROLLER UNIT L 13		D	ļ	
PLATE UNIT, SPOOL SIDE SUPPORT	6	F F	ļ	
PLATE, SPRING SWITCH	3	В	L	
PLATE, SPRING SWITCH	8	B-3	R	
PLATEN CLEANER BRUSH	8	A		
PLATEN REAR	13	D		

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	Disassembly	& Reassembly		
Part Name	Proce	edures	Remarks	
	Title	Group	1	
PLATEN REAR LS	13	D		
PLATEN UNIT. TOP A	4	C		
PLATEN UNIT. TOP AWAY	4	C		
PLATEN UNIT. TOP B	4	C		
PLATEN UNIT TOP C	4	C		
PLATEN UNIT TOP D	4	C		
PLATEN INK PREFIECTION	14	Δ		
PLATEN UNDER A	14	B-1		
PLATEN UNDER C	14	B-1	36" model	
PLATEN UNDER HOME	14	B-1		
	7	B-2	24" model 36" model	
POWER SUPPLY UNIT	7	Δ-2	44" model	
DRE DRINTING DI ATEN BASE ASS' V	, 1/	Δ		
	0			
	9	۲ ۸ ۵		
		A-2		
	9	G-1		
	9	H-2		
RIGHT TANK COVER SWITCH	8	B-2		
(DETECT MICRO SWITCH)				
RIGHT TOP COVER SWITCH	8	B-3		
(MICRO SWITCH)	0	D-3		
ROLL PAPER FEED SENSOR UNIT	5	E-2		
ROM BOARD UNIT	9	H-1		
ROTARY DAMPER	4	D-2		
SENSOR, HUMIDITY	2	В		
SHAFT, PRESSURE RELEASE UNIT	13	В		
SIX-RING RUBBER CHAIN	12	E-1		
SLIDER BUSHING, OILLESS, CR	12	B-6		
SOLENOID	3	E		
SPOOL LOCK UNIT	2	C-1		
SPOOL SENSOR UNIT	6	C-1		
SPRING, COMPRESSION	11	F		
SPRING, EARTH	6	Α		
SPRING. EJECT EARTH	8	C-1		
SPRING. FILM STRIP	11	С		
SPRING, LOCK	3	E		
SPRING, PAPER FEED SENSOR	5	E-1		
SPRING, PAPER SET	5	F-4		
SPRING RELEASE LEVER	9	H-3		
SPRING SLIDER PRESSURE CR	12	B-5		
SPRING SPOOL COVER	6	B	R	
	6	F	1	
	2	D_2		
	11	Δ-2 Λ 1		
	12	B_7 P 2		
	12	P_5		
	10	<u>г</u>		
	10			
	9	I-1		
	b 10	U U		
	10			
	12	E-1		
UPPER LEFT SPOUL SET SENSOR	2	C-2		
(IC, PHOTO INTERRUPTER)				

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Part Name	Disassembly & Reassembly Procedures		Remarks
	Title	Group	
UPPER LEFT SPOOL SET SENSOR	2	6.2	
(IC, PHOTO INTERRUPTER)	2	C-2	
UPPER ROLL NIP SENSOR		гр	
(IC, PHOTO INTERRUPTER)	5	E-3	
USB HOST PCB ASS' Y	9	C-2	
WASTE INK ABSORBER UNIT	5	С	
WASTE INK ABSORBER UNIT A	5	A	
WASTE INK ABSORBER UNIT B	5	A	
WASTE INK ABSORBER UNIT C	5	A	44" model
WASTE INK ABSORBER UNIT E	5	A	36" model
WASTE INK TANK UNIT	9	Н	
WINDOW	4	D-1	
WINDOW R	4	D-1	
	7	D	24" model, 36" model
WIRELESS LAIN PCB UNIT	7	С	44" model

Lower Roll Unit

	Disassembly	& Reassembly	Remarks
Part Name	Proce	edures	
	Title	Group	1
ACTIVE ROLL BRAKE UNIT	17	B	
BUSHING DRIVE	16	H	
CAM SHAFT UNIT	18	1	
	10		
	17	1- <u>1</u>	
	17	A	
	17	A	
	1/	F	
COVER, ROLL GEAR L	1/	B-1	1
COVER, SIDE L SUB	17	A	
COVER, SIDE R	16	E	
COVER, SIDE R REAR	16	G-1	
COVER, SIDE TOP L	17	B-2	
DRIVE NIP ARM UNIT	18	H-1	
FLAPPER POSITION SENSOR	10		
(IC, PHOTO INTERRUPTER)	10		
FLAPPER SEPARATE UNIT W/SP	18	G	
FLAPPER SEPARATE UNIT	18	G	
GUIDE UNIT, LOW A	18	G	
GUIDE UNIT. LOW B	18	G	
GUIDE UNIT. LOW C	18	G	36" model. 44" model
GUIDE UNIT LOW D	18	G	44" model
	16	Δ	
	16	B	R
	10		
	10	D-1	
	10	D-1	
	1/	E-5	
HARNESS ASS Y, LO FLAP SPLSET	18	D-2	
	1/	E-3	
HARNESS ASS' Y, LO SPL SOL	1/	E-2	
HARNESS ASS' Y, LO SPLSET L	17	E-4	
HARNESS ASS' Y, RLNIP PF SNS	18	J-1	
HARNESS ASS' Y, ROLL SEP RLY	18	K-2	
HARNESS ASS' Y, RU MAIN	18	K-1	
HARNESS ASS' Y, RU PANEL RLY	17	F	
HOLDER, SPOOL L	16	A	
HOLDER, SPOOL R	16	В	
I/F PCB UNIT, RU	17	E-1	
KNOB, OPERATION	16	Н	
LEVER ASS'Y, SPL LOCK R	16	Н	
LEVER, PAPER FEED SENSOR	18	J-2	
LOCK LEVER A	16	C-1	
LOCK LEVER B	16	C-1	
LOWER LEET SPOOL SET SENSOR			
	17	D	
	16	G-2	
LOWER ROLL NIP SENSOR	18	H-1	
(IC, PHOTO INTERRUPTER)			
NIP ARM SENSOR UNIT	18	H-3	
NIP ARM UNIT	18	H-2	
OPERATION PANEL UNIT, RU	16	G-1	
PAPER GUIDE ROLLER UNIT, RU A	18	G	
PAPER GUIDE ROLLER UNIT, RU B	18	G	
PAPER GUIDE ROLLER UNIT, RU C	18	G	44" model

	Disassembly & Reassembly			
Part Name	Procedures		Remarks	
	Title	Group		
PAPER GUIDE ROLLER UNIT, RU E	18	G	36" model	
PLATE, SPOOL GROUND	16	C-2		
RAIL UNIT L	18	B-2		
RAIL UNIT R	18	B-2		
ROLL PAPER FEED SENSOR UNIT	18	J-1		
ROLLER, LOCK	16	D		
SPOOL LOCK UNIT	17	С		
SPRING, LOCK A	16	C-1		
SPRING, LOCK C	16	F		
SPRING, PAPER FEED SENSOR	18	J-2		
SPRING, PAPER SET	18	H-2, H-3		
SUPPORT, FLAP SELEC	18	F-2		



Α D

1 INK TANK BOX UNIT (L)













24" model



1 INK TANK BOX UNIT (L) 303

SM-17001E-00

Α

- **1**. Remove [1] a set of
 - COVER, SIDE L A
 - COVER UNIT, SIDE L B
 - CAP, SIDE COVER.



2. Open [1] the access cover.



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304 | **1 INK TANK BOX UNIT (L)** SM-17001E-00

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3. Remove [1] COVER, TOP L.





- 4. Remove [1] a set of
 - BOX, INKTANK
 - COVER, INKTANK BACK
 - COVER, INKTANK L INSIDE.







5. Remove [1] COVER, INKTANK L INSIDE.





6. Remove [1] COVER, INKTANK BACK.





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7. From [1] COVER, INKTANK BACK, remove [2] two plates.





8. Remove [1] the plate.





9. Remove [1] BOX, INKTANK.





10. Remove [1] ABSORBER.





Chapter 2

Chapter 3

Chapter 4

A-2 (24" model, 36" model)

5. From [1] the cover of the RELAY PCB, release [2] the cable.



6. Remove [1] the cover of the RELAY PCB.







7. Remove [1] RELAY PCB UNIT, RU.

[2]	[3]	[W]	[E]
2 pcs	4 pcs	1 pc	1 pc



8. Remove [1] INK SUPPLY MOUNT BASE UNIT L.





A-2 (44" model)

5. Remove [1] the cover of the RELAY PCB.





6. Remove [1] RELAY PCB UNIT, RU.

[2]	[3]	[W]	[E]
2 pcs	4 pcs	1 pc	1 pc



7. Remove [1] INK SUPPLY MOUNT BASE UNIT L.





A-3 (24" model, 36" model)

5. Remove [1] INLET UNIT.

[2]	[3]	[4]	[5]	[W]
(Sector Contraction of the sector of the se				
1 pc	1 pc	1 pc	3 pcs	5 pcs



A-3 (44" model)

5. Remove [1] the plate (with the INLET UNIT).



6. Remove [1] INLET UNIT.





A-4 (24" model)

5. Open [1] the right ink unit.





6. Remove [1] the plate.





7. From [1] the cover of the RELAY PCB, release [2] the cable.



8. Remove [1] the cover of the RELAY PCB.







9. Remove [1] HARNESS ASS'Y, RU RELAY.





A-4 (36" model)

5. Open [1] the right ink unit.





6. Remove [1] the plate.





7. Remove [1] the plate.

[2]	[3]
	ST.
2 pcs	2 pcs



8. Remove [1] the plate.



9. From [1] the cover of the RELAY PCB, release [2] the cable.



10. Remove [1] the cover of the RELAY PCB.





11. Remove [1] HARNESS ASS'Y, RU RELAY.









5. Remove [1] the plate.

[2]	[3]	
	E?	
8 pcs	2 pcs	



Chapter 7

Chapter 6



 $\mathbf{6}_{\bullet}$ Remove [1] the plate (with the INLET UNIT).





7. Remove [1] the plate.





8. Remove [1] the cover of the RELAY PCB.





9. Remove [1] HARNESS ASS'Y, RU RELAY.







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2 LEFT SIDE (ACTIVE ROLL BRAKE UNIT / PF ENCODER UNIT)



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Chapter 1

Chapter 2

Chapter 3



Α



1. Remove [1] a set of

- COVER, SIDE L A
- COVER UNIT, SIDE L B
- CAP, SIDE COVER.



B

- **1**. Remove all the parts of Group A.
- 2. Remove [1] SENSOR, HUMIDITY.






Point

- **1**. Remove all the parts of Group A.
- **2.** Remove [1] ACTIVE ROLL BRAKE UNIT and [2] HARNESS ASS'Y, ARB MOTOR.





Notes when assembling the unit:

• Arrange the HARNESS ASS'Y, ARB MOTOR as shown below.



[SERVICE MODE > ADJUSTMENT > UPPER_ARB_CALIB]





3. Remove [1] COVER, ROLL GEAR L.





4. Remove [1] SPOOL LOCK UNIT.







3. Remove [1] the plate (with the UPPER LEFT SPOOL SET SENSOR).



4. Remove [4] UPPER LEFT SPOOL SET SENSOR.





D

- **1**. Remove all the parts of Group A.
- **2.** Remove [1] COVER, PF ENCODER OUTER.





3. Remove [1] CODEWHEEL COVER UNIT.





4. Remove [1] PAPER FEED ENCODER UNIT.

[2]	[3]	[4]	[W]
2 pcs	1 pc	2 pcs	3 pcs



Notes when assembling the unit:
Perform adjustment at the end of assembly.
[SERVICE MODE > ADJUSTMENT > LF_ENC_ADJ]

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5. Remove [1] FILM, TIMING SLIT DISK.

Point

Notes when assembling the unit: Perform adjustment at the end of assembly. [SERVICE MODE > ADJUSTMENT > LF TUNING2]

6. Remove [2] FLANGE, PULLEY.





5. Remove [1] BELT, PAPER TRANSPORT.





6. Remove [1] the plate.

[2]	[3]	[4]
	No.	
1 pc	2 pcs	2 pcs



- **7.** Remove [1] SPRING, TENSION.
- 8. Remove [2] PAPER FEED MOTOR UNIT.





Chapter 1

E (36" model, 44" model)

- **1**. Remove all the parts of Group A.
- **2.** Open [1] the access cover.



3. Remove [1] COVER, TOP L.





- 4. Remove [1] a set of
 - BOX, INKTANK
 - COVER, INKTANK BACK
 - COVER, INKTANK L INSIDE.





5. Remove [1] COVER, BACK.

(36" model)





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Chapter 5

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6. Remove [1] COVER, MIST FAN.





- **7.** Open [1] the right ink tank cover.
- 8. Remove [2] a set of
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B
 - CAP, SIDE COVER.





9. Remove [1] COVER, FRONT TOP R.

334 2 LEFT SIDE (ACTIVE ROLL BRAKE UNIT / PF ENCODER UNIT)





Chapter 6

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10. Remove [1] ACCESS COVER UNIT with holding the handles.

	[2]
36" model	7 pcs
44" model	8 pcs



11. Remove [1] COVER UNIT, BACK TOP CENTER.





12. Disconnect [1] HARNESS ASS'Y, MFAN L.





_
\Box
5
9
2
Ö
-
Ě

3 LEFT FRONT (ACCESS COVER LOCK L)



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24" model 36" model

Ø

44" model

G





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- COVER, SIDE L A
- COVER UNIT, SIDE L B
- CAP, SIDE COVER.

[2]

4 pcs



2. Open [1] the access cover.



3. Remove [1] COVER, TOP L.





В

- **1.** Remove all the parts of Group A.
- 2. Remove [1] the inner cover L.





- 3. Remove [1] HOLDER, SWITCH (with
 - LEFT TOP COVER SWITCH
 - PLATE, SPRING SWITCH
 - HARNESS ASS'Y, INTERLOCK SW).





4. Remove [1] LEFT TOP COVER SWITCH and [2] HARNESS ASS'Y, INTERLOCK SW.



5. Remove [4] PLATE, SPRING SWITCH.



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- **1**. Remove all the parts of Group A.
- 2. Remove [1] COVER, FRONT L.





3. Remove [1] SPRING, EARTH and [2] CAP, ROLL COVER SHAFT.



4. Remove [4] BUSH, ROLL COVER L.

(the BUSH UNIT, ROLL COVER L in 24" model and 36" model)



5. Remove [6] the roll cover.



6. Remove [1] COVER, SPOOL L and [2] SPRING, SPOOL COVER.







Chapter 2

7. Remove [1] HOLDER, SPOOL SIDE L.





D

- **1**. Remove all the parts of Group A.
- 2. Open [1] the right ink tank cover.
- 3. Remove [2] a set of
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B
 - CAP, SIDE COVER.





4. Remove [1] COVER, FRONT TOP R.





5. Remove [1] ACCESS COVER UNIT with holding the handles.

	[2]
24" model	5 pcs
36" model	7 pcs
44" model	8 pcs



6. Remove [1] COVER UNIT, BACK TOP CENTER.



(24" model)



(36" model, 44" model)



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- Chapter 7

- **1.** Remove all the parts of Groups A, C, and D.
- **2.** Remove [1] the inner cover.





3. Remove [1] the plate.





4. Remove [1] the plate with

- SPRING, LOCK
- LOCK LEVER, ACCESS COVER L
- SOLENOID.





- 5. Remove [1] SPRING, LOCK.
- 6. Remove [2] LOCK LEVER, ACCESS COVER L.



7. Remove [4] SOLENOID.







4 ACCESS COVER



350 | **4 ACCESS COVER** SM-17001E-00

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Chapter 6

Chapter 7



1. Open [1] the access cover.



2. Remove [1] GUARD ACCESS COVER UNIT W/SPUR.





Chapter 6

Chapter 1

Chapter 2

Chapter 3

Chapter 4

Chapter 5

Α

B

- 1. Remove [1] a set of
 - COVER, SIDE L A
 - COVER UNIT, SIDE L B
 - CAP, SIDE COVER.



2. Open [1] the access cover.



3. Remove [1] COVER, TOP L.

[2]	[3]
1 pc	5 pcs



С

- **1**. Remove all the parts of Group B.
- 2. Remove [1] AWAY PLATEN.





Use a stubby screwdriver.

3. Remove [1] PLATEN UNIT, TOP AWAY.





- **4.** Remove
 - [1] PLATEN UNIT, TOP D
 - [2] PLATEN UNIT, TOP C
 - [3] PLATEN UNIT, TOP B, and
 - [4] PLATEN UNIT, TOP A.

	PLATEN UNIT, TOP			
	A [4]	B [3]	C [2]	D [1]
	12 pcs	16 pcs	14 pcs	12 pcs
24" model	remove	remove	-	-
36" model	remove	remove	remove	-
44" model	remove	remove	remove	remove



 Notes when assembling the unit:

 Point
 Perform adjustment at the end of assembly.

 [SERVICE MODE > ADJUSTMENT > CR REG]



- **1.** Remove all the parts of Group B.
- 2. Open [1] the right ink tank cover.
- 3. Remove [2] a set of
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B
 - CAP, SIDE COVER.





4. Remove [1] COVER, FRONT TOP R.





5. Remove [1] ACCESS COVER UNIT with holding the handles.

	[2]
24" model	5 pcs
36" model	7 pcs
44" model	8 pcs





6. Remove [1] WINDOW and [2] WINDOW R.







Chapter 2

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Chapter 4

Chapter 5



6. Remove [1] two handles.





7. Remove [1] the plate.

	[2]
24" model	12 pcs
36" model	16 pcs
44" model	16 pcs



8. Remove [1] two SPRING, ACCESS COVER and [2] two HINGE ASS'Y, ACCESS COVER SP.





Notes when replacing ACCESS COVER UNIT:

[2] SPRING, ACCESS COVER and [3] HINGE ASS'Y, ACCESS COVER SP are not included in [1] ACCESS COVER UNIT S.

When replacing ACCESS COVER UNIT, detach SPRING, ACCESS COVER, and HINGE ASS'Y, ACCESS COVER SP from the removed old ACCESS COVER UNIT. A ach the detached SPRING, ACCESS COVER and HINGE ASS'Y, ACCESS COVER SP to a new ACCESS COVER UNIT S.




9. Turn [1] the plate as shown below and remove [2] the shaft





- **10.** Return [1] the plate to the original position, then emove the plate.
- **11.** Remove [2] ROTARY DAMPER.



5 FRONT1 (NIP ARM UNIT / WASTE INK ABSORBER)



Chapter 2

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Chapter 1

Α

- Chapter 2
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- **1**. Open [1] the access cover.
- **2.** Open [2] the roll cover.



3. Remove eight pieces of [1] FLAPPER SEPARATE UNIT (four pieces in 24" model, six pieces in 36" model)

and [2] FLAPPER SEPARATE UNIT W/SP.



4. (44" model only)

Remove [5] COVER, ROLL BACK UP.









364 | **5 FRONT1 (NIP ARM UNIT / WASTE INK ABSORBER)** SM-17001E-00

- **1**. Remove all the parts of Group A.
- 2. Remove [1] WASTE INK ABSORBER UNIT A.



3. Remove [3] WASTE INK ABSORBER UNIT B.



4. (36" model only)

Remove [5] WASTE INK ABSORBER UNIT E.





4. (44" model only)

Remove [5] WASTE INK ABSORBER UNIT C.





Points of disassembly:

• When removing GUIDE UNIT, LOW A, B, C, or D, or INK ABSORBER UNIT, remove only the corresponding WASTE INK ABSORBER UNIT A, B, C, or E, described as "remove" in the list.

	WASTE INK	WASTE INK	WASTE INK	WASTE INK
	ABSORBER UNIT	ABSORBER UNIT	ABSORBER UNIT	ABSORBER UNIT
	А	В	С	E
GUIDE UNIT, LOW A	remove	remove	-	-
GUIDE UNIT, LOW B	-	remove	remove	-
GUIDE UNIT, LOW C	-	-	remove (44")	remove (36")
GUIDE UNIT, LOW D	-	-	remove (44")	-
WASTE INK ABSORBER UNIT	-	remove (24")	remove (44")	remove (36")

- To prevent ink leakage from the absorber, place the removed [1] WASTE INK ABSROBER with
 - [2] FLAPPER, SEPARATE fi ed in place as shown below.



Chapter 2

Chapter 3

Chapter 4

Point

	Notes when the unit is replaced:	Cha
	Reset the applicable counter when the unit is replaced:	apte
	WASTE INK ABSORBER UNIT A	r 1
	[SERVICE MODE > PARTS COUNTER > Wia1]	
Point	WASTE INK ABSORBER UNIT B	
Point	[SERVICE MODE > PARTS COUNTER > Wia2]	G
	WASTE INK ABSORBER UNIT C	lapt
	[SERVICE MODE > PARTS COUNTER > Wia3]	er 2
	WASTE INK ABSORBER UNIT E	
	[SERVICE MODE > PARTS COUNTER > Wia5]	

C (24" model, 44" model)

- **1.** Remove all the parts of Groups A and B.
- 2. Remove [1] WASTE INK ABSORBER UNIT.







Notes when the unit is replaced:

Reset the counter when the unit is replaced. [SERVICE MODE > PARTS COUNTER > Wia6] **Chapter 3**

Chapter 4

Chapter 5

C (36" model)

- **1** Remove all the parts of Groups A and B.
- **2.** Push down [2] NIP ARM UNIT and remove [1] GUIDE UNIT, LOW C.



3. Remove [1] WASTE INK ABSORBER UNIT.

[2]	[3]
1 pc	2 pcs

 Point
 Notes when the unit is replaced:

 Reset the counter when the unit is replaced.
 [SERVICE MODE > PARTS COUNTER > Wia6]

- **1**. Remove all the parts of Groups A and B.
- 2. Push down [2] NIP ARM UNIT and remove [1] GUIDE UNIT, LOW A.
- **3.** Push down [2] NIP ARM UNIT and remove [4] GUIDE UNIT, LOW B.
- 4. (36" model, 44" model only)

Push down [2] NIP ARM UNIT and remove [6] GUIDE UNIT, LOW C.

5. (44" model only)

Push down [2] NIP ARM UNIT and remove [8] GUIDE UNIT, LOW D.

	[3]	[5]	[7]	[9]
24" model	5 pcs	4 pcs	-	-
36" model	5 pcs	4 pcs	5 pcs	-
44" model	5 pcs	4 pcs	6 pcs	4 pcs



	Points of disassembly:							
	When removing GUIDE UNIT, LOW A to D or INK ABSORBER UNIT individually, remove only							
	the corresponding parts described in "remove" in the list.							
		GUIDE UNIT,	GUIDE UNIT,	GUIDE UNIT,	GUIDE UNIT,			
		LOW A	LOW B	LOW C	LOW D			
Point	SPRING, PAPER FEED SENSOR	remove	-	-	-			
	LEVER, PAPER FEED SENSOR	remove	-	-	-			
	ROLL PAPER FEED SENSOR UNIT	remove	-	-	-			
	HARNESS ASS'Y, RLNIP PF SNS	remove	remove	-	-			
	DRIVE NIP ARM UNIT	-	remove	-	-			
	UPPER ROLL NIP SENSOR	-	remove	-	-			
	HARNESS ASS'Y, UP RLNIP RELAY	-	remove	remove	remove			
	CAM SHAFT UNIT	remove	remove	remove	remove			
Point	Notes when assembling the unit: Tighten the screws in the order of numbers Image: Comparison of the screws in the order of numbers	shown bel	ow. 3 2 1 4 5					



Chapter 2

Chapter 3

Chapter 4

Chapter 5

Chapter 6

1. Remove all the parts of Groups A, B, and D.



Ε

2. From [1] GUIDE UNIT, LOW A, remove [2] SPRING, PAPER FEED SENSOR and [3] LEVER, PAPER FEED SENSOR.





2. Remove [1] ROLL PAPER FEED SENSOR UNIT.



3. Disconnect [1] HARNESS ASS'Y, RLNIP PF SNS.

[2]	[W]	[G]
1 pc	1 pc	2 pcs



E-3

2. Remove [1] DRIVE NIP ARM UNIT.

[2]	[3]	[4]	[W]	[G]
		ST.		
2 pcs	3 pcs	2 pcs	1 pc	2 pcs



3. Remove [1] UPPER ROLL NIP SENSOR.

[2]	[3]
1 pc	4 pcs





2. Remove [1] DRIVE NIP ARM UNIT.

[2]	[3]	[4]	[W]	[G]
2 pcs	3 pcs	2 pcs	1 pc	2 pcs



Chapter 1

3. Remove [1] SPRING, PAPER SET and [2] NIP ARM SENSOR UNIT.





4. Remove six pieces each of [1] SPRING, PAPER SET and [2] NIP ARM UNIT. (three pieces each in 24" model, fi e pieces each in 36" model).



5. Remove [1] CAM SHAFT UNIT.





- **1**. Remove all the parts of Groups A, B, C, and D.
- **2.** Remove [1] the cable cover.





F-1

3. Disconnect [1] HARNESS ASS'Y, UP RLNIP RELAY.

(24" model)

[2]	[3]	[W]	[E]
4 pcs	3 pcs	3 pcs	2 pcs



(36" model)

[2]	[3]	[W]	[E]	[G]
E				
4 pcs	3 pcs	4 pcs	2 pcs	2 pcs



Chapter 6

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(44" model)				
[2]	[3]	[W]	[E]	[G]
4 pcs	3 pcs	5 pcs	2 pcs	3 pcs





Chapter 1



3. Disconnect [1] HARNESS ASS'Y, ROLL SEP RLY.

	[2]	[3]	[W]	[E]	[G]
24" model	2 pcs	3 pcs	5 pcs	1 pc	2 pcs
36" model	2 pcs	3 pcs	5 pcs	1 pc	4 pcs
44" model	2 pcs	3 pcs	7 pcs	1 pc	5 pcs





Chapter 8

Chapter 7



Chapter 2

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6 FRONT2 (SUCTION FAN UNIT / SPOOL SENSOR UNIT)



6 FRONT2 (SUCTION FAN UNIT / SPOOL SENSOR UNIT) 382





Α

- Chapter 1
- Chapter 2
- Chapter 3
- Chapter 4

Chapter 7

1. Open [1] the access cover.

2. Remove [1] SPRING, EARTH and [2] CAP, ROLL COVER SHAFT.



3. Remove [4] BUSH, ROLL COVER L

(the BUSH UNIT, ROLL COVER L in 24" model and 36" model).



4. Remove [6] the roll cover.



- **1**. Remove all the parts of Group A.
- 2. Remove [1] COVER, SPOOL R and [2] SPRING, SPOOL COVER.





3. Remove [1] HOLDER, SPOOL SIDE R.







2. Remove [1] SPOOL SENSOR UNIT.







Chapter 5



2. Remove [1] DAMPER UNIT, ROLL COVER R.





- **1**. Remove all the parts of Group A.
- 2. Remove eight pieces of [1] FLAPPER SEPARATE UNIT (four pieces in 24" model, six pieces in 36" model)

and [2] FLAPPER SEPARATE UNIT W/SP.



3. (44" model only)

Remove [5] COVER, ROLL BACK UP.







D

Chapter 4

4. Remove [1] WASTE INK ABSORBER UNIT A.



5. Remove [3] WASTE INK ABSORBER UNIT B.



6. (36" model only)

Remove [5] WASTE INK ABSORBER UNIT E.





6. (44" model only)

Remove [5] WASTE INK ABSORBER UNIT C.





Points of disassembly:

To prevent ink leakage from the absorber, place the removed [1] WASTE INK ABSROBER with [2] FLAPPER, SEPARATE fi ed in place as shown below.



	Notes when the unit is replaced:
	Reset the applicable counter when the unit is replaced:
	WASTE INK ABSORBER UNIT A
	[SERVICE MODE > PARTS COUNTER > Wia1]
int	WASTE INK ABSORBER UNIT B
<u> </u>	[SERVICE MODE > PARTS COUNTER > Wia2]
	WASTE INK ABSORBER UNIT C
	[SERVICE MODE > PARTS COUNTER > Wia3]

WASTE INK ABSORBER UNIT E
[SERVICE MODE > PARTS COUNTER > Wia5]

Point

P

(24" model, 44" model)

7. Remove [1] WASTE INK ABSORBER UNIT.





	Notes when the unit is replaced:
Point	Reset the counter when the unit is replaced.
	[SERVICE MODE > PARTS COUNTER > Wia6]

8. Push down [2] NIP ARM UNIT and remove [1] GUIDE UNIT, LOW A.







(36" model)

7. Push down [2] NIP ARM UNIT and remove [1] GUIDE UNIT, LOW C.









Tighten the screws in the order of numbers shown below.



Chapter 6

Chapter 5

Chapter 1

Chapter 2

Chapter 3

Chapter 4

Point

8. Remove [1] WASTE INK ABSORBER UNIT.



 Point
 Notes when the unit is replaced:

 Reset the counter when the unit is replaced.
 [SERVICE MODE > PARTS COUNTER > Wia6]

9. Push down [2] NIP ARM UNIT and remove [1] GUIDE UNIT, LOW A.







Notes when assembling the unit:

Tighten the screws in the order of numbers shown below.



Ε

Point

Chapter 1

Chapter 2

Chapter 3

Chapter 4

Chapter 5

- **1**. Remove all the parts of Group A.
- 2. Remove [1] COVER, SPOOL L and [2] SPRING, SPOOL COVER.





Chapter 7

3. Remove [1] HOLDER, SPOOL SIDE L.







- Chapter 2
- Chapter 3
- Chapter 4

G

- **Chapter 6**
- Chapter 7



- **1.** Remove all the parts of Groups A and E.
- 2. Remove [1] PLATE UNIT, SIDE SUPPORT.





- **1.** Remove all the parts of Groups A, B, D, and E.
- 2. Remove [1] SUCTION FAN UNIT.

[2]	[3]	[4]	[W]
1 pc	2 pcs	2 pcs	2 pcs



Notes when the unit is replaced: Point Reset the applicable counter. [SERVICE MODE > PARTS COUNTER > Wia7]

6 FRONT2 (SUCTION FAN UNIT / SPOOL SENSOR UNIT) 396
3. Remove [1] the paper feed guide.





G-1 (24" model, 44" model)

4. Remove four pieces of [1] GUIDE UNIT, OUTSIDE A. (two pieces in 24" model)

(To remove the rightmost GUIDE UNIT, the adjacent GUIDE UNIT on the left needs o be removed fi st.)



G-1 (36" model)

4. Remove four pieces of [1] GUIDE UNIT, OUTSIDE A. (To remove the rightmost GUIDE UNIT, the adjacent

GUIDE UNIT on the left needs o be removed fi st, and vice versa.)





G-2 (24" model, 44" model)

4. Remove [1] GUIDE UNIT, OUTSIDE A.





Chapter 7

Chapter 2

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Chapter 5

5. Remove the GUIDE UNIT, OUTSIDE B ([1] and [2]).Separate the joint of [1] and [2]. Remove [2] the lower

part of the guide unit fi st, then [1] the upper part.





7 MAIN PCB UNIT / POWER SUPPLY UNIT / HARD DISK DRIVE (24" model) 400 SM-17001E-00

24" MODEL





[

Α

- 1. Remove [1] a set of
 - COVER, SIDE L A
 - COVER UNIT, SIDE L B
 - CAP, SIDE COVER.



2. Open [1] the access cover.



Chapter 6

Chapter 4

3. Remove [1] COVER, TOP L.





- 4. Remove [1] a set of
 - BOX, INKTANK
 - COVER, INKTANK BACK
 - COVER, INKTANK L INSIDE.





- 5. Open [1] the right ink tank cover.
- 6. Remove [2] a set of
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B
 - CAP, SIDE COVER.

[3]	[4]	[5]
R.		
4 pcs	3 pcs	1 pc



Chapter 2

7. Open [1] the right ink unit.





8. Remove [1] the plate.









9. Disconnect all the cables from [1] MAIN PCB UNIT.



10. Remove the MAIN PCB UNIT.





	Notes when assembling the unit:
	Perform adjustment at the end of assembly.
aint	[SERVICE MODE > ADJUSTMENT > LF_ENC_ADJ]
oint	[SERVICE MODE > ADJUSTMENT > UPPER_ARB_CALIB]
	[SERVICE MODE > ADJUSTMENT > LOWER_ARB_CALIB]
	[SERVICE MODE > ADJUSTMENT > TOUCH PANEL CALIBRATION]



9. Remove [1] I/F PCB UNIT.





	Notes when the unit is replaced:	
Point	The date and time needs o be set in the Service Mode a er replacing the I/F PCB UNIT.	
	See 7-2. Service Mode > Details of OTHERS > 2) OTHERS menu level > RTC SETTING.	



 ${f 9}_{ullet}$ Remove [1] the bracket (with the HARD DISK).



10. Remove [4] the HARD DISK.







9. Disconnect [1] HDD CABLE ASS'Y.







Point

Notes when assembling the unit:

The HDD CABLE ASS'Y must be on top of the other cables.

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Chapter 2

Chapter 6

В

- **1**. Remove [1] a set of
 - COVER, SIDE L A
 - COVER UNIT, SIDE L B
 - CAP, SIDE COVER



2. Open [1] the access cover.



3. Remove [1] COVER, TOP L.





- 4. Remove [1] a set of
 - BOX, INKTANK
 - COVER, INKTANK BACK
 - COVER, INKTANK L INSIDE.





B-1

5. Remove [1] the plate.





6. Disconnect [1] HARNESS ASS'Y, INLET RELAY.

[2]	[W]	[E]
2 pcs	1 pc	1 pc





B-2



5. While holding [2] the handle, remove [1] POWER SUPPLY UNIT.



[4]

[2]

[5]

[4]

С 1. Remove [1] a set of

- COVER, SIDE L A
- COVER UNIT, SIDE L B

- CAP, SIDE COVER.



2. Open [1] the access cover.



3. Remove [1] COVER, TOP L.





- 4. Remove [1] a set of
 - BOX, INKTANK
 - COVER, INKTANK BACK
 - COVER, INKTANK L INSIDE.





- 5. Open [1] the right ink tank cover.
- 6. Remove [2] a set of
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B
 - CAP, SIDE COVER.





Chapter 6

7. Open [1] the right ink unit.





8. Remove [1] the plate.





9. Remove [1] the plate.





10. Disconnect [1] HARNESS ASS'Y, POWER SUPPLY.

[2]	[W]
2 pcs	3 pcs



Chapter 6

Chapter 4

D

- **1**. Remove [1] a set of
 - COVER, SIDE L A
 - COVER UNIT, SIDE L B
 - CAP, SIDE COVER.



2. Open [1] the access cover.



3. Remove [1] COVER, TOP L.





- 4. Remove [1] a set of
 - BOX, INKTANK
 - COVER, INKTANK BACK
 - COVER, INKTANK L INSIDE.





- 5. Open [1] the right ink tank cover.
- 6. Remove [2] a set of
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B
 - CAP, SIDE COVER.

[3]	[4]	[5]
4 pcs	3 pcs	1 pc



- Chapter 2
- Chapter 3
- Chapter 4

- Chapter 6
- Chapter 7
- Chapter 8

7. Open [1] the right ink unit.





[1]

[2]

[2]

8. Remove [1] a set of

REAR VIEW

- COVER, MIST FAN
- COVER, BACK RIGHT.





9. Remove [1] WIRELESS LAN PCB UNIT.





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36" MODEL





- **1**. Open [1] the right ink tank cover.
- 2. Remove a set of [2]
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B

- CAP, SIDE COVER.

[3]	[4]	[5]
Y		
4 pcs	3 pcs	1 pc



Chapter 2

Α

3. Open [1] the right ink unit.





4. Remove [1] the plate.

[2]	[3]
(Series	G
7 pcs	2 pcs





Chapter 2

Chapter 3

Chapter 4

A-1

5. Disconnect all the cables from [1] MAIN PCB UNIT.



6. Remove [1] MAIN PCB UNIT.





Perform adjustment at the end of assembly.

[SERVICE MODE > ADJUSTMENT > LF_ENC_ADJ]

[SERVICE MODE > ADJUSTMENT > UPPER_ARB_CALIB] [SERVICE MODE > ADJUSTMENT > LOWER_ARB_CALIB]

[SERVICE MODE > ADJUSTMENT > TOUCH PANEL CALIBRATION]

Ch	
apte	
Ч С	

Point



5. Remove [1] I/F PCB UNIT.





	Notes when the unit is replaced:	
Point	The date and time needs o be set in the Service Mode a er replacing the I/F PCB UNIT.	
	See 7-2. Service Mode > Details of OTHERS > 2) OTHERS menu level > RTC SETTING.	



5. Remove [1] the bracket (with the HARD DISK).



6. Remove [4] the HARD DISK.







5. Disconnect [1] HDD CABLE ASS'Y.







Point

Notes when assembling the unit:

The HDD CABLE ASS'Y must be on top of the other cables.

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В

- 1. Remove a set of [1]
 - COVER, SIDE L A
 - COVER UNIT, SIDE L B
 - CAP, SIDE COVER.



2. Open [1] the access cover.



3. Remove [1] COVER, TOP L.





- 4. Remove [1] a set of
 - BOX, INKTANK
 - COVER, INKTANK BACK
 - CAVER, INKTANK L INSIDE.





- 5. Open [1] the right ink tank cover.
- 6. Remove a set of [2]
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B
 - CAP, SIDE COVER.

[3]	[4]	[5]
4 pcs	3 pcs	1 pc



- Chapter 2
- Chapter 3
- Chapter 4

- Chapter 6
- Chapter 7

7. Open [1] the right ink unit.





[1]

[2]

8. Remove [1] the plate.

REAR VIEW

[2]	[3]
	ST.
7 pcs	2 pcs


9. Remove [1] the plate.





B-1

10. Disconnect [1] HARNESS ASS'Y, INLET RELAY.





B-2



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SM-17001E-00

10. While holding [2] the handle, remove [1] POWER SUPPLY UNIT.



[4]

[2]

[5]

[4]

[3]

[3] [5]

С

- **1**. Open [1] the right ink tank cover.
- 2. Remove [2] a set of
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B
 - CAP, SIDE COVER.



3. Open [1] the right ink unit.





4. Remove [1] the plate.

[2]	[3]
(Series	G
7 pcs	2 pcs



5. Disconnect [1] HARNESS ASS'Y, POWER SUPPLY.







- **1**. Open [1] the right ink tank cover.
- 2. Remove [2] a set of
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B

- CAP, SIDE COVER.





Chapter 7

Chapter 4

Chapter 5

3. Open [1] the right ink unit.





4. Remove [1] the plate.





5. Remove [1] COVER, BACK.





6. Remove [1] WIRELESS LAN PCB UNIT.



Chapter 1

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7 MAIN PCB UNIT / POWER SUPPLY UNIT / HARD DISK DRIVE (44" model) 440 T SM-17001E-00

44" MODEL





(2		
[COVE	R, BACK]
C	WIREI	ESSIAN	
l	PC	B UNIT	

Α

Chapter 2



1. Remove [1] the plate.





A-1

2. Disconnect all the cables from [1] MAIN PCB UNIT.



3. Remove [1] MAIN PCB UNIT.





	Notes when assembling the unit:	Cha
	Perform adjustment at the end of assembly.	apte
Point	[SERVICE MODE > ADJUSTMENT > LF_ENC_ADJ]	ir 1
Point	[SERVICE MODE > ADJUSTMENT > UPPER_ARB_CALIB]	
	[SERVICE MODE > ADJUSTMENT > LOWER_ARB_CALIB]	
	[SERVICE MODE > ADJUSTMENT > TOUCH PANEL CALIBRATION]	Ch
A-2		apter
7 W/b	ile holding [2] the handle, remove [1] POWER SUPPLY UNIT	2

[5]

[2]

[6]

[5]



2. While holding [2] the handle, remove [1] POWER SUPPLY UNIT.



Chapter 3

Chapter 4

Chapter 5

Chapter 6



2. Disconnect [1] HARNESS ASS'Y, POWER SUPPLY.







2. Remove [1] I/F PCB UNIT.





Point

Notes when the unit is replaced: The date and time needs o be set in the Service Mode a er replacing the I/F PCB UNIT. See 7-2. Service Mode > Details of OTHERS > 2) OTHERS menu level > RTC SETTING.



2. Disconnect [1] HARNESS ASS'Y, INLET RELAY.







2. Disconnect [1] HDD CABLE ASS'Y.







Notes when assembling the unit: The HDD CABLE ASS'Y must be on top of the other cables.

1. Remove [1] the plate.





- 2. Open [1] the right ink tank cover.
- 3. Remove [2] a set of
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B
 - CAP, SIDE COVER.





Chapter 7

Chapter 1

B

4. Open [1] the right ink unit.





Chapter 5

Chapter 2

Chapter 3

5. Remove [1] the bracket (with the HARD DISK).



6. Remove [4] HARD DISK.



1. Remove [1] COVER, BACK.

[2]

4 pcs





С





Chapter 3

2. Remove [1] the plate.





3. Remove [1] WIRELESS LAN PCB UNIT.



8 RIGHT FRONT (ACCESS COVER LOCK R)



Chapter 1

Chapter 2

Chapter 4

Chapter 5

Chapter 6



Chapter 1

Α

- Chapter 2
- Chapter 3
- Chapter 4
- Chapter 5
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- Chapter 7

- **1**. Remove [1] a set of
 - COVER, SIDE L A
 - COVER UNIT, SIDE L B
 - CAP, SIDE COVER.

[2]



2. Open [1] the access cover.



3. Remove [1] COVER, TOP L.





- **4**. Open [1] the right ink tank cover.
- 5. Remove [2] a set of
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B
 - CAP, SIDE COVER.





6. Remove [1] COVER, FRONT TOP R.





7. Remove [1] ACCESS COVER UNIT with holding the handles.

	[2]
24" model	5 pcs
36" model	7 pcs
44" model	8 pcs



8. Remove [1] COVER UNIT, BACK TOP CENTER.



(24" model)



(36" model, 44" model)



- Chapter 1
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- **9.** Remove [1] PLATEN CLEANER BRUSH.
- **10.** Open [2] COVER UNIT, MTC.
- **11.** Remove [3] COVER, FRONT R.





12. Remove [1] COVER UNIT, BACK TOP R (with the OPERATION PANEL UNIT).

[2]	[3]	[4]	[W]	[G]
1 pc	3 pcs	2 pcs	5 pcs	2 pcs





1. Remove all the parts of Group A.

B-1 (24" model)

2. Open [1] the right ink unit.





- 3. Remove [1] a set of
 - BOX, INKTANK
 - COVER, INKTANK BACK
 - COVER, INKTANK L INSIDE.





4. Remove [1] the plate.





5. Disconnect [1] HARNESS ASS'Y, PANEL LVDS.



B-1 (36" model, 44" model)

2. Open [1] the right ink unit.





3. Remove [1] the plate.

(36" model)

. ,	
[2]	[3]
7 pcs	2 pcs



(44" model)

[2]	[3]
Real Providence	
8 pcs	2 pcs



Chapter 2

Chapter 1

4. Disconnect [1] HARNESS ASS'Y, PANEL LVDS.







2. Remove [1] RIGHT TANK COVER SWITCH.





- 2. Remove [1] HOLDER, SWITCH with
 - RIGHT TOP COVER SWITCH
 - PLATE, SPRING SWITCH
 - HARNESS ASS'Y, INTERLOCK SW.





3. Remove [1] RIGHT TOP COVER SWITCH and [2] HARNESS ASS'Y, INTERLOCK SW.



4. Remove [4] PLATE, SPRING SWITCH.



Chapter 2

Chapter 5

- **1**. Remove all the parts of Group A.
- 2. Remove [1] LIFT UNIT.





3. Unlock the carriage.

Turning [1] the gear in the arrowed direction will m ve [2] the lock pin up and down.



4. Remove [1] PURGE UNIT.





Notes when removing the unit:

There is an opening on the bo om of the PURGE UNIT. Place the unit on paper towel, etc.



Chapter 4

Point

Chapter 1

Chapter 2

5. Remove [1] MAINTENANCE CARTRIDGE and [2] WASTE INK TANK UNIT.



6. Remove [1] RELEASE LEVER UNIT.







7. Remove [1] COVER, SPOOL R and [2] SPRING, SPOOL COVER.





8. Remove [1] SPRING, EARTH and [2] CAP, ROLL COVER SHAFT.



9. Remove [4] BUSH, ROLL COVER L

(the BUSH UNIT, ROLL COVER L in 24" model and 36" model).



10. Remove [6] the roll cover.



11. Remove [1] CASE, SPOOL SIDE INNER R and [2] HOLDER, SPOOL SIDE R.





C-1

12. Remove [1] the plate (with the USB HOST PCB ASS'Y).

[2]	[3]	[W]	[E]
K	1		
1 pc	2 pcs	1 pc	1 pc



13. Remove [1] the inner cover R.





14. Remove [1] the plate.

[2]	[3]	[W]
1 pc	3 pcs	3 pcs


15. Remove [1] ACCESS COVER LOCK UNIT R.

[2]	[3]	[4]	[W]	[R]
		E		
2 pcs	3 pcs	1 pc	5 pcs	1 pc
				1] 2] 2] V] 3]

16. Remove [1] SPRING, EJECT EARTH.

[2]	[3]	[4]
	Rest of the second seco	
1 pc	1 pc	1 pc



Chapter 1

Chapter 2

Chapter 3

Chapter 4



Chapter 2

Chapter 3

Chapter 4

Chapter 5

C-2

12. Disconnect [1] HARNESS ASS'Y, RSIDE FRONT.









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9 RIGHT SIDE (PURGE UNIT / OPERATION PANEL)







Chapter 7

Chapter 5



Α

- **1**. Open [1] the right ink tank cover
- 2. Remove [2] a set of
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B

- CAP, SIDE COVER.





B

- **1**. Remove all the parts of Group A.
- 2. Open [1] the access cover.
- 3. Remove [2] COVER, FRONT TOP R.







Chapter 2

Chapter 3

Chapter 4

Chapter 5

Chapter 6

1. Remove all the parts of Groups A and B.



С

2. Remove [1] OPERATION PANEL UNIT.







 Notes when assembling the unit:

 Perform adjustment at the end of assembly.

 [SERVICE MODE > ADJUSTMENT > TOUCH PANEL CALIBRATION]

2. Remove [1] USB HOST PCB ASS'Y.





- **1.** Remove all the parts of Groups A and B.
- 2. Remove [1] PLATEN CLEANER BRUSH.
- 3. Open [2] COVER UNIT, MTC.
- **4.** Remove [3] COVER, FRONT R.





Ε

- **1**. Remove all the parts of Groups A, B, and D.
- 2. Remove [1] COVER UNIT, MTC.



Chapter 1

F





2. Remove [1] LIFT UNIT.





3. Unlock the carriage.

Turning [1] the gear in the arrowed direction will m ve [2] the lock pin up and down.



4. Remove [1] PURGE UNIT.









1. Remove all the parts of Groups A and F.



G

 [2]
 [3]
 [W]

 [2]
 [1]
 [2]

 [2]
 [2]
 [3]

 [2]
 [1]
 [2]

 [2]
 [2]
 [3]

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 [3]
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 [9]
 [9]
 [





2. Remove [1] HEAD MANAGEMENT SENSOR UNIT.







Point	Notes when assembling the unit:
	Perform adjustment at the end of assembly.
	[SERVICE MODE > ADJUSTMENT > NOZZLE CHK POS.]
	Notes when the unit is replaced:
Point	Reset the counter when the unit is replaced.
	[SERVICE MODE > PARTS COUNTER > WF1]



2. Disconnect [1] HARNESS ASS'Y, HEAD MANAGEMENT.







2. Remove two pieces of [1] ABSORBER, CAP.



Chapter 1

Η

- Chapter 2
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- Chapter 7



2. Remove [1] MAINTENANCE CARTRIDGE and [2] WASTE INK TANK UNIT.







3. Remove [1] ROM BOARD UNIT.







3. Remove [1] RELEASE LEVER UNIT.







H-3

- 3. Remove [1] SPRING, RELEASE LEVER.
- **4**. Remove [2] PAD, RELEASE LEVER STOPPER.





Chapter 1

Chapter 2

Chapter 3

Chapter 4

Chapter 5

3. Remove [1] RELEASE LEVER SWITCH.



4. Remove [3] the plate (with the GEAR, RELEASE LEVER).





Notes when assembling the unit: Adjust the phase of gears.







5. Remove [1] GEAR, RELEASE LEVER.





- **1.** Remove all the parts of Group A.
- **2.** Open [1] the right ink unit.





I-1

Chapter 3

Chapter 4

Chapter 6

Chapter 7

Chapter 8



3. Remove [1] SUCTION FAN DUCT UNIT.







1 pc

2 pcs



I-3

3. Remove [1] ID PCB UNIT.





I-4

3. Remove [1] INK SUPPLY MOUNT BASE UNIT R.





4. Remove [1] HANDLE, INKTANK BACK.





- **1**. Remove all the parts of Groups A, B and F.
- **2.** Open [1] the right ink unit.





J

3. Remove [1] COVER, BACK.

(36" model)





(44" model)

[2]	[3]
4 pcs	2 pcs



4. (24" model)

Remove [1] a set of

- COVER, MIST FAN

- COVER, BACK RIGHT.





(36" model, 44" model)

Remove [1] COVER, MIST FAN.

[2]	[3]
	C S
1 pc	2 pcs

9 RIGHT SIDE (PURGE UNIT / OPERATION PANEL)



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SM-17001E-00

Chapter 7

Chapter 2

5. Remove [1] a set of

- COVER, SIDE L A
- COVER UNIT, SIDE L B
- CAP, SIDE COVER.





6. Open [1] the access cover.



7. Remove [1] COVER, TOP L.

[2]	[3]
1 pc	5 pcs



 ${f 8}_{ullet}$ Remove [1] ACCESS COVER UNIT with holding the handles.

	[2]
24" model	5 pcs
36" model	7 pcs
44" model	8 pcs



Chapter 7

Chapter 2

Chapter 3

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Chapter 5

9. Remove [1] COVER UNIT, BACK TOP CENTER.



(24" model)



(36" model, 44" model)



10. Disconnect [1] HARNESS ASS'Y, TANK CVR MFAN R.





494 9 RIGHT SIDE (PURGE UNIT / OPERATION PANEL)

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10 INK TANK UNIT (R)



10 INK TANK UNIT (R) 496 SM-17001E-00





1. Remove [1] COVER UNIT, INKTANK, TOP R.



- 2. Remove [1] a set of
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B
 - CAP, SIDE COVER.





Α

- 3. Remove [1] a set of
 - COVER, INKTANK TOP BACK
 - COVER, INKTANK BACK
 - COVER, INKTANK R INSIDE.





A-1

4. Remove [1] COVER, INKTANK TOP BACK.

[2]	[3]
(Comercial Comercia Comercial Comercial Comer	
3 pcs	4 pcs





A-2

r 1

Β



4. Remove [1] COVER, INKTANK R INSIDE.



- **1**. Remove all the parts of Group A.
- 2. From [1] COVER, INKTANK BACK, remove [2] four plates.



С

- **1**. Open [1] the right ink tank cover.
- 2. Remove [2] a set of
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B
 - CAP, SIDE COVER.





- 3. Remove [1] a set of
 - COVER UNIT, INKTANK, TOP R
 - COVER, INKTANK TOP BACK
 - COVER, INKTANK BACK
 - COVER, INKTANK R INSIDE.





D

- Chapter 1
- Chapter 2
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- Chapter 7

- **1.** Remove all the parts of Group C.
- 2. Remove [1] TANK LED PCB UNIT and [2] HARNESS ASS'Y, TANKLED R RLY.

[3]	[4]	[W]	[E]	[G]
	(Ser 1)			
2 pcs	3 pcs	3 pcs	1 pc	2 pcs



Remove all the ink tanks.

2 Drain ink into the sub ink tank.

To do it in the Service Mode: 1 Unlock the carriage by selecting [SE VICE MODE > FUNCTION > CR UNLOCK] in the operation panel, manually m ve the carriage unit to the position whe e the print head can be 2. On the printer operation panel, select [SE_VICE MODE > FUNCTION > INK SUPPLY VALVE OPEN > OPEN]. The supply valve (choke valve) of SUB INK TANK UNIT will open. 3. Ink will be drained from the CARRIAGE UNIT (or INK TUBE UNIT) into the SUB INK TANK UNIT. **4**. Wait for fi e to ten minutes, then confirm the the ink has been drained from the tubes. 5. Power off the pri ter and unplug the power cord. To do it manually: **1**. Open [1] the right ink tank cover. Point 2. Remove [2] a set of - COVER, SIDE R A - COVER UNIT, SIDE R B - CAP, SIDE COVER. [3] [4] [5] 4 pcs 3 pcs 1 pc [1] [3] [2] [3] [5]

[3]

3. Unlock the carriage.

Turning [1] the gear in the arrowed direction will m ve [2] the lock pin up and down.



- **4.** Turn the gear in the arrowed direction o open ink tank unit valve.
 - When [1] the gear flag omes under [2] the sensor, the valve will open.

When [A] the tab is at the top center, the valve is fully opened.



5. Open [1] the access cover.



Chapter 2

Chapter 7


- **3.** Remove all the parts of Group C.
- **4.** Disconnect [1] the tube joint.





Notes when removing the unit:

Wrap the joint in [1] paper towel, etc., put them in [2] a plastic ba , and close the bag.



Chapter 5

Chapter 2

Chapter 3

Chapter 4

Point

5. Remove [1] the ink tank unit.





Chapter 1

Chapter 2

Chapter 3

Chapter 4

6. Remove [1] INK SUPPLY TANK HOLDER UNIT R, [2] TANK LED PCB UNIT, and [3] HARNESS ASS'Y, TANK LED



[4]	[5]	[6]	[W]	[E]	[G]
	A COM				
1 pc	5 pcs	2 pcs	4 pcs	1 pc	2 pcs



7. Disconnect the harness.



8. Remove [2] SUB INK TANK UNIT R.







Notes when the SUB INK TANK UNIT R is replaced: Dispose of ink of the replaced (old) SUB INK TANK UNIT R into a waste ink bottl (or in a bucket) before carrying it.

9. Remove [1] ABSORBER, INK from [2] INK SUPPLY MOUNT UNIT R.



10 INK TANK UNIT (R) 509 SM-17001E-00



510 | **11 CARRIAGE UNIT (1)** SM-17001E-00





Chapter 2

- **1**. Open [1] the right ink tank cover.
- 2. Remove [2] a set of
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B

- CAP, SIDE COVER.





3. Unlock the carriage.

Turning [1] the gear in the arrowed direction will m ve [2] the lock pin up and down.



Α

4. Open [1] the access cover.



5. Remove [1] PRINT HEAD.



A-1

6. Remove [1] SPRING, TENSION and two pieces of [2] ARM, LEVER LINK.



7. Remove [1] the joint base.





8. Remove [1] JOINT LEVER UNIT.







Chapter 4

Chapter 5



6. Close [1] HEAD LEVER UNIT and remove [2] SPRING, TENSION.



7. Remove [1] HEAD LEVER UNIT.







Point

6. Remove [1] SPRING, TENSION and two pieces of [2] ARM, LEVER LINK.







7. Remove [1] the joint base.

Notes when removing the unit:

Place the unit on [2] a paper towel, etc. as shown below.



8. Remove [1] the tube guide.





516 | 11 CARRIAGE UNIT (1)

SM-17001E-00

Chapter 7

Chapter 1

9. Remove [1] COVER, LEVER PI, CR.





10. Remove [1] HEAD COVER SENSOR.







Point

6. Remove [1] SPRING, TENSION and two pieces of [2] ARM, LEVER LINK.







7. Remove [1] the joint base.

Notes when removing the unit:

Place the unit on [2] a paper towel, etc. as shown below.



8. Remove [1] the tube guide.





518 | 11 CARRIAGE UNIT (1)

SM-17001E-00

Chapter 7

Chapter 1

9. Remove [1] MULTI SENSOR UNIT.





	Notes when attaching the unit:			
	The unit must be a ached straight. It must not be slanted or til ed.			
Point				
	Notes when assembling the unit:			
Point	Perform adjustment at the end of assembly.			
	[SERVICE MODE > ADJUSTMENT > OPTICAL AXIS]			
	[SERVICE MODE > ADJUSTMENT > GAP CALIB.]			
	Notes when the unit is replaced:			
Point	Reset the applicable counter when the unit is replaced:			
	[SERVICE MODE > PARTS COUNTER > CR5]			
	[SERVICE MODE > PARTS COUNTER > MS1]			

- **1**. Open [1] the right ink tank cover.
- 2. Remove [2] a set of
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B

- CAP, SIDE COVER.

[3]	[4]	[5]	
4 pcs	3 pcs	1 pc	



- 3. Remove [1] a set of
 - COVER, SIDE L A
 - COVER UNIT, SIDE L B
 - CAP, SIDE COVER.







B

4. Unlock the carriage.

Turning [1] the gear in the arrowed direction will m ve [2] the lock pin up and down.



C

- **1**. Remove all the parts of Group B.
- 2. Open [1] the access cover.



3. Remove [1] SPRING, FILM STRIP and [2] FILM, TIMING SLIT STRIP.



- **2.** Pass [1] FILM, TIMING SLIT STRIP through [2] CARRIAGE ENCODER SENSOR.
- **3.** Hook [1] FILM, TIMING SLIT STRIP to [3] the hook.







Chapter 6

Chapter 1

Chapter 2

Chapter 3

Chapter 4

5. Hook [1] SPRING, FILM STRIP and [2] FILM, TIMING SLIT STRIP.







Notes when replacing the unit:

Keep the FILM, TIMING SLIT STRIP free from any grease.

How to clean the FILM, TIMING SLIT STRIP:

- Clean it with a dry cloth.
- Clean it with pure water.
- Clean it with ethanol.

When cleaning the strip in the printer without removing it, avoid applying any excessive power to the film

Be sure to confirm the ollowing at the end of cleaning:

- The film does not ome off f om the carriage encoder.
- The film does not ome off f om the linear scale and it is properly positioned o the plate.

Chapter 6

Chapter 1

Chapter 2

Chapter 3

Chapter 4

Chapter 5

Point



- **1**. Remove all the parts of Group B.
- 2. Open [1] the access cover.



3. Remove [1] COVER, TOP L.





4. Remove [1] COVER, FRONT TOP R.





5. Remove [1] ACCESS COVER UNIT with holding the handles.

	[2]
24" model	5 pcs
36" model	7 pcs
44" model	8 pcs



6. Remove [1] COVER UNIT, BACK TOP CENTER.



(24" model)





- **7.** Remove [1] PLATEN CLEANER BRUSH.
- 8. Open [2] COVER UNIT, MTC.
- **9.** Remove [3] COVER, FRONT R.





10. Remove [1] COVER UNIT, BACK TOP R (with the OPERATION PANEL UNIT).

[2]	[3]	[4]	[W]	[G]
1 pc	3 pcs	2 pcs	5 pcs	2 pcs



11. Remove [1] the wedge and loosen [2] BELT, CARRIAGE.





12. Remove [1] the plate.





13. Remove [1] MOTOR, CARRIAGE.

[2]	[3]	[4]
	Y B	
2 pcs	2 pcs	1 pc



- **1**. Open [1] the right ink tank cover.
- 2. Remove [2] a set of
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B
 - CAP, SIDE COVER.





3. Open [1] the access cover.



	Notes when removing/attaching the bushing:
Point	When removing or a aching, lift the arriage slightly. At this time, be areful with handling the
Point	tool* not to hit the carriage shaft
	*The needle-nose pliers or tweezers are recommended.
	Notes when replacing the bushing:
	• Be sure to replace the right and le sha cleaners and the right and le bushings at the same
Point	time (using BUSHING / CL ANER KIT).
	• DO NOT lift up the arriage when it is capped. (Lifting up the apped carriage may damage
	the purging system.)

Ε

4. Remove [1] the RAIL CLEANER UNIT S (from the right side of the carriage).



5. Remove [3] the plate (from the right side of the carriage).





- **6.** Remove [1] the PAD, BUSHING, CR (from the right side of the carriage).
- **7.** Remove [2] the bushing (from the right side of the carriage).



Chapter 1

Chapter 2

Chapter 3

8. Remove [1] the RAIL CLEANER UNIT S (from the left side of the arriage).



9. Remove [3] the plate (from the left side of the carriage).





- **10.** Remove [1] the PAD, BUSHING, CR (from the left side of the carriage).
- **11.** Remove [2] the bushing (from the left side of the arriage).



F

- **1**. Open [1] the right ink tank cover.
- 2. Remove [1] a set of
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B
 - CAP, SIDE COVER.





3. Unlock the carriage.

Turning [1] the gear in the arrowed direction will m ve [2] the lock pin up and down.



4. Open [1] the access cover.







5. Remove two [1] SPRING, COMPRESSION.





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536 | **12**

Chapter 1

Chapter 2

Chapter 3

Chapter 4

Chapter 5

Chapter 6

Chapter 7



1. Drain ink into the sub ink tank.

- To do it in the Service Mode:
- 1 Unlock the carriage by selecting [SE VICE MODE > FUNCTION > CR UNLOCK]
- 2. On the printer operation panel, select [SE VICE MODE > FUNCTION > INK SUPPLY VALVE OPEN > OPEN]. The supply valve (choke valve) of SUB INK TANK UNIT will open.
- Ink will be drained from the CARRIAGE UNIT (or INK TUBE UNIT) into the SUB INK TANK UNIT.
- **4.** Wait for fi e to ten minutes, then confirm th t the ink has been drained from the tubes.



- **5.** Power off the pri ter and unplug the power cord.
- To do it manually:
- 1. Remove [1] a set of
 - COVER, SIDE L A
 - COVER UNIT, SIDE L B
 - CAP, SIDE COVER.





Chapter 1

Point



Turning [1] the gear in the arrowed direction will m ve [2] the lock pin up and down.



Chapter 6

Chapter 1

Chapter 2

Chapter 3

Chapter 4

- 5. Remove [1] a set of
 - BOX, INKTANK
 - COVER, INKTANK BACK
 - CAVER, INKTANK L INSIDE.





6. Turn the gear in the arrowed direction o open ink tank unit valve.When [1] the gear flag omes under [2] the sensor, the valve will open.



Chapter 1

Chapter 2

Chapter 3

Chapter 4

Chapter 5


- **2.** Open [1] the right ink tank cover.
- 3. Remove [2] a set of
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B
 - CAP, SIDE COVER.





4. Unlock the carriage.

Turning [1] the gear in the arrowed direction will m ve [2] the lock pin up and down.



5. Open [1] the access cover.



Chapter 2

Chapter 7

6. Remove [1] PRINT HEAD.



7. Remove [1] SPRING, TENSION and two pieces of [2] ARM, LEVER LINK.



- 8. Remove [1] a set of
 - COVER, SIDE L A
 - COVER UNIT, SIDE L B
 - CAP, SIDE COVER.



9. Remove [1] COVER, TOP L.

[2]	[3]
1 pc	5 pcs



10. Remove [1] COVER, FRONT TOP R.





544 | **12 CARRIAGE UNIT (2)** SM-17001E-00

Chapter 2

Chapter 3

Chapter 4

11. Remove [1] ACCESS COVER UNIT with holding the handles.

	[2]
24" model	5 pcs
36" model	7 pcs
44" model	8 pcs



12. Remove [1] COVER UNIT, BACK TOP CENTER.



(24" model)



(36" model, 44" model)





- **1**. Remove all the parts of Group A.
- 2. Release [1] the tubes from [2] the guide.







Chapter 6

546 | **12 CARRIAGE UNIT (2)** SM-17001E-00

Chapter 2

Chapter 3

3. Remove [1] INK TUBE UNIT from the CARRIAGE UNIT.





- **4**. Remove [1] PLATEN CLEANER BRUSH.
- 5. Open [2] COVER UNIT, MTC.
- **6.** Remove [3] COVER, FRONT R.





7. Remove [1] COVER UNIT, BACK TOP R. (with the OPERATION PANEL UNIT)

[2]	[3]	[4]	[W]	[G]
1 pc	3 pcs	2 pcs	5 pcs	2 pcs



8. Remove [1] the wedge and loosen [2] BELT, CARRIAGE.





Chapter 5

Chapter 6

Chapter 2

Chapter 3

9. Remove [1] CARRIAGE UNIT and [2] BELT, CARRIAGE together.



	Notes when assembling the unit:
	Perform adjustment at the end of assembly.
Point	[SERVICE MODE > FUNCTION > OPTICAL AXIS]
_	[SERVICE MODE > FUNCTION > GAP CALIB.]
	[SERVICE MODE > FUNCTION > CR MOTOR COG]
Notes when the unit is replaced:	
	Reset the applicable counter when the unit is replaced:
Point	[SERVICE MODE > PARTS COUNTER > CR1]
Point	[SERVICE MODE > PARTS COUNTER > CR2]
	[SERVICE MODE > PARTS COUNTER > CR3]

B-1

10. Remove [1] the plate.



11. Remove [3] BELT, CARRIAGE.





10. Remove three pieces of [1] SPRING, TENSION.



B-3

10. Remove [1] COUPLING, CARRIAGE.





Chapter 1

11. Remove [1] a set of

- HOLDER, CLUCH UNIT
- COVER, PI SENSOR, CR
- CARRIAGE LIFT SENSOR.





12. Remove [1] SPRING TENSION.





B-4











- **11.** Remove [1] a set of
 - HOLDER, CLUCH UNIT
 - COVER, PI SENSOR, CR
 - CARRIAGE LIFT SENSOR.







12. Remove [1] COVER, PI SENSOR CR.



13. Remove [3] CARRIAGE LIFT SENSOR.





B-5

10. Remove [1] STOPPER, SUB SLIDER, CR.





11. Remove [2] HOLDER, SLIDER PRESSURE, CR and [3] SPRING, SLIDER PRESSURE, CR from [1] STOPPER, SUB

SLIDER, CR. [4] 2 pcs





10. Remove [1] STOPPER, SUB SLIDER, CR.







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Chapter 3

Chapter 4

11. Remove [1] SLIDER BUSHING, OILLESS, CR.





C

Point

- **1**. Remove all the parts of Group A.
- 2. Release [1] the tubes from [2] the guide.

Notes when removing the unit:

Place the unit on [3] a paper towel, etc. as shown below.



3. Remove [1] INK TUBE UNIT from the CARRIAGE UNIT.





C-1

Chapter 1

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Chapter 5

- **4.** Remove all the parts of Group A.
- 5. Remove [1] CARRIAGE RELAY PCB UNIT.

[2]	[3]
4 pcs	4 pcs





4. Remove [1] CARRIAGE ENCODER UNIT.





D (24" model)

- **1**. Remove all the parts of Group A.
- 2. Remove [1] a set of
 - BOX, INKTANK
 - COVER, INKTANK BACK

- COVER, INKTANK L INSIDE.





Chapter 2

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Chapter 6

3. Open [1] the right ink unit.





[1]

[2]

4. Remove [1] the plate.

REAR VIEW

[2]	[3]
	ST.
5 pcs	2 pcs



558 | **12 CARRIAGE UNIT (2)** SM-17001E-00

5. Remove [1] a set of

- COVER, MIST FAN

- COVER, BACK RIGHT.





D (36" model, 44" model)

- **1**. Remove all the parts of Group A.
- 2. (36" model only)

Open [1] the right ink unit.





3. Remove [1] COVER, BACK.





Chapter 2

Chapter 7



4. Remove [1] the plate.







- **1**. Remove all the parts of Groups A and D.
- **2.** Release [1] the tubes from [2] the guide.

Point	Notes when removing the unit:
FUIIL	

Place the unit on [3] a paper towel, etc. as shown below.



Ε

3. Remove [1] INK TUBE UNIT from the CARRIAGE UNIT.







INK TUBE UNIT removal (Step 2, 3)

INK TUBE UNIT a achment (Step 2, 3)

4. Disconnect and release [1] the fl xible cables.





5. Remove [1] INK TUBE UNIT and [2] SIX-RING RUBBER CHAIN.

[3]	[4]	[5]
S	Come of the second seco	Service of the servic
	LONG	
2 pcs	2 pcs	2 pcs

Notes when removing the unit:

- To avoid smearing with ink, spread a paper towel, etc.
- To avoid ink leakage, wrap the joint in [1] paper towel, etc., put them in [2] a plastic ba , and close the bag.



Chapter 5

Chapter 1

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Chapter 3



UNIT to bosses from the top of SIX-RING RUBBER CHAIN.

Point

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Chapter 5

6. Remove four pieces of [1] cable holders (three pieces in 24" model). Separate the INK TUBE UNIT into

[1]	[4]	[5]
4 pcs	2 pcs	2 pcs

two parts, [2] FLEXIBLE CABLE UNIT and [3] TUBE UNIT.



Notes when assembling the unit:

Fit the cable holders to the cable guide at marking ([A]).





Point

FLEXIBLE CABLE UNIT removal (Step 3)

Chapter 7

Chapter 2

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Chapter 5

4. Disconnect and release [1] the fl xible cables.





5. Remove four pieces of [1] cable holders (three pieces in 24" model) and [2] FLEXIBLE CABLE UNIT.

[1]	[3]	[4]	[5]
	(Ser 1)		
4 pcs	2 pcs	2 pcs	2 pcs



Notes when assembling the unit:

Fit the cable holders to the cable guide at marking ([A]).





4. Disconnect and release [1] the fl xible cables.







Chapter 1

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Point

5. Remove [1] INK TUBE UNIT and [2] SIX-RING RUBBER CHAIN.





Chapter 1



6. Remove [1] BASE, CHAIN LINK.





13 PAPER FEED ROLLER UNIT (PINCH ROLLER UNIT)



Chapter 2

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Chapter 7



1. Remove [1] a set of

[2]

- COVER, SIDE L A
- COVER UNIT, SIDE L B
- CAP, SIDE COVER.



2. Open [1] the access cover.



3. Remove [1] COVER, TOP L.





- 4. Remove [1] a set of
 - BOX, INKTANK
 - COVER, INKTANK BACK
 - COVER, INKTANK L INSIDE.





- 5. Open [1] the right ink tank cover.
- 6. Remove [2] a set of
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B
 - CAP, SIDE COVER.

[3]	[4]	[5]
R.		
4 pcs	3 pcs	1 pc




7. Open [1] the right ink unit.





8. Remove [1] the plate.





- 9. Remove [1] a set of
 - COVER, MIST FAN

- COVER, BACK RIGHT.





10. Remove [1] WIRELESS LAN PCB UNIT.





- **1**. Open [1] the right ink tank cover.
- 2. Remove [2] a set of
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B
 - CAP, SIDE COVER.





Chapter 2

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Chapter 6

3. Open [1] the right ink unit.





[2]

4. Remove [1] COVER, BACK.

REAR VIEW





5. Remove [1] the plate.





6. Remove [1] WIRELESS LAN PCB UNIT.



Chapter 1

Chapter 2

Chapter 3

- 7. Remove [1] a set of
 - COVER, SIDE L A
 - COVER UNIT, SIDE L B
 - CAP, SIDE COVER.





8. Open [1] the access cover.



9. Remove [1] COVER, TOP L.





- 10. Remove [1] a set of
 - BOX, INKTANK
 - COVER, INKTANK BACK
 - COVER, INKTANK L INSIDE.





11. Remove [1] COVER, MIST FAN.





12. Remove [1] COVER, MIST FAN.





Chapter 2

Chapter 3

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Chapter 5



1. Remove [1] COVER, BACK.





2. Remove [1] the plate.





3. Remove [1] WIRELESS LAN PCB UNIT.



- 4. Remove [1] a set of
 - COVER, SIDE L A
 - COVER UNIT, SIDE L B

- CAP, SIDE COVER.

[2]	[3]	[4]
4 pcs	3 pcs	1 pc



5. Open [1] the access cover.



6. Remove [1] COVER, TOP L.





- 7. Remove [1] a set of
 - BOX, INKTANK
 - COVER, INKTANK BACK
 - COVER, INKTANK L INSIDE.





8. Remove [1] COVER, MIST FAN.





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- **9**. Open [1] the right ink tank cover.
- 10. Remove [2] a set of
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B
 - CAP, SIDE COVER.

[3]	[4]	[5]
4 pcs	3 pcs	1 pc



11. Open [1] the right ink unit.



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[1]

[2]

12. Remove [1] COVER, MIST FAN.

REAR VIEW

[2]	[3]	
K.	K	
1 pc	2 pcs	



- **1.** Remove all the parts of Group A.
- 2. Remove [1] LIFT UNIT.





3. Unlock the carriage.

Turning [1] the gear in the arrowed direction will m ve [2] the lock pin up and down.



4. Move the carriage unit to the left end (back position side).

5. Remove [1] PURGE UNIT.





	Notes when removing the unit:
Point	There is an opening on the bo om of the PURGE UNIT. Place the unit on paper towel, etc.
	Notes when the unit is replaced:
	Reset the applicable counter when the unit is replaced:
Point	[SERVICE MODE > PARTS COUNTER > PG1]

[SERVICE MODE > PARTS COUNTER > PG2] [SERVICE MODE > PARTS COUNTER > PG3]

Chapter 6

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6. Remove the [1] MIST FAN DUCT UNIT.

	[1]		[2]		[3]	
	MIST FAN DUCT		MIST FAN DUCT		MIST FAN DUCT	
	UNIT 1		UNIT 2		UNIT 3	
24" model	-		remove		-	
36" model	remove		-		remove	
44" model	remove	remove			-	
[4]	[5]	[W]				
	R.					
1 pc each	2 pcs each	_				
1 pc each	2 pcs each	1 pc each				
1 pc each	2 pcs each	1 pc each				





7. Release [1] the pinch roller springs.



8. Remove 11 pieces of [1] BUSHING, PRESSURE RELEASE

(seven pieces in 24" model, nine pieces in 36" model).





9. Remove [1] GEAR, PRESSURE RELEASE.





Chapter 1



10. Remove [1] SHAFT, PRESSURE RELEASE UNIT and [2] BUSHING, PR RELEASE.





Chapter 1

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- **1.** Remove all the parts of Groups A and B.
- 2. Remove two pieces each of [1] BUSH, ARM ROTARY SHAFT and [2] PINCH ROLLER UNIT.











3. With pressing [1] the pinch roller unit, move [2] CARRIAGE UNIT to the arrowed direction.



Chapter 7

Chapter 5

4. Remove [2] PLATEN, INK PRE EJECTION.







5. Remove [1] PLATEN REAR.





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Chapter 4

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6. Remove [1] PAPER ENTRY SENSOR.

[2]	[3]
4 pcs	1 pc



Point Notes when rer

Notes when removing the unit: When removing PAPER ENTRY SENSOR as a unit, the screwdriver hits the carriage shaft, and it will be inserted slantwise. Therefore, remove the single SENSOR with your hand without removing screws.



6. Disconnect [1] HARNESS ASS'Y, LFPE SNS.

[2]	[W]	[E]	[G]
2 pcs	6 pcs	3 pcs	1 pc



- D
- **1**. Remove all the parts of Groups A and B.
- 2. Remove [1] BUSH, ARM ROTARY SHAFT, [2] PINCH ROLLER UNIT, and [3] PINCH ROLLER UNIT L.

	[1]	[2]	[3]	
	BUSH, ARM	PINCH	PINCH ROLLER	
	ROTARYSHAFT	ROLLER UNIT	UNIT L	
24" model	6	5	1	
36" model	8	7	1	
44" model	10	9	1	











Chapter 7



3. Move [1] CARRIAGE UNIT to the arrowed direction.



Chapter 7

Chapter 5

4. Remove [1] PLATEN, INK PRE EJECTION.







5. Move [1] CARRIAGE UNIT to the Home Position.





6. (24" model, 44" model)

Remove fi e pieces of [1] PLATEN REAR (three pieces in 24" model).





7. (36" model)

Remove four pieces of [1] PLATEN REAR and [2] PLATEN REAR LS.





8. Remove [1] COVER, PF ENCODER OUTER.

[2]	[3]
2 pcs	2 pcs

606 | 13 PAPER FEED ROLLER UNIT (PINCH ROLLER UNIT)



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Chapter 7

9. Remove [1] CODE WHEEL COVER UNIT.



10. Remove [4] BELT, PAPER TRANSPORT.





11. Remove [1] PAPER FEED ROLLER UNIT.







The PAPER FEED ROLLER UNIT needs to be adjusted a erit is a ached.

Perform the following when the unit is a ached:

1. Confirm the PINCH ROLLER UNIT applies pressure to the PAPER FEED ROLLER UNIT.





2. A ach [1] BELT, PAPER TRANSPORT.

Turn the pulley clockwise and counterclockwise one time each o confirm the the belt does not come off and it is t and straight on the pulley.



Caution

DO NOT touch [1] SPRING, TENSION, [2] BELT, PAPER TRANSPORT, and [3] PAPER FEED MOTOR UNIT until er the screws are tig tened.





12. Remove [1] AWAY PLATEN.

[2]	[3]
1 pc	2 pcs



Chapter 5

13. Remove [1] PLATEN UNIT, TOP AWAY.



Chapter 2

Chapter 3

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14. Remove [1] PLATEN UNIT, TOP D, [2] PLATEN UNIT, TOP C, [3] PLATEN UNIT, TOP B, and [4] PLATEN UNIT, TOP A.

	PLATEN UNIT, TOP			
	D [1]	D [1] C [2] B [3]		A [4]
	12 pcs	16 pcs	14 pcs	12 pcs
24" model	remove	remove	-	-
36" model	remove	remove	remove	-
44" model	remove	remove	remove	remove





Notes when assembling the unit: Perform adjustment at the end of assembly. [SERVICE MODE > ADJUSTMENT > CR REG]

15. Remove ten pieces of [1] HOLDER, PAPER FEED ROLLER.

(six pieces in 24" model, nine pieces in 36" model).




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14 CUTTER BLADE UNIT











A



14 CUTTER BLADE UNIT 615 SM-17001E-00

- **1**. Open [1] the right ink tank cover.
- 2. Remove [2] a set of
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B

- CAP, SIDE COVER.





- **3.** Open [1] the access cover.
- **4**. Remove [2] COVER, FRONT TOP R.







Α

5. Remove [1] the plate (with the USB HOST PCB ASS'Y).

[2]	[3]	[W]	[E]
2 pcs	1 pc	4 pcs	1 pc



6. Unlock the carriage.

Turning [1] the gear in the arrowed direction will m ve [2] the lock pin up and down.



7. Remove [1] PLATEN, INK PRE EJECTION.







8. Remove [1] PRE PRINTING PLATEN BASE ASS'Y.





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Chapter 1

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618 | **14 CUTTER BLADE UNIT** SM-17001E-00 B

- **1**. Open [1] the right ink tank cover.
- 2. Remove [2] a set of
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B
 - CAP, SIDE COVER.





- **3.** Open [1] the access cover.
- **4**. Remove [2] COVER, FRONT TOP R.





5. Remove [1] the plate (with the USB HOST PCB ASS'Y).

[2]	[3]	[W]	[E]
2 pcs	1 pc	4 pcs	1 pc



6. Unlock the carriage.

Turning [1] the gear in the arrowed direction will m ve [2] the lock pin up and down.



7. Remove [1] PLATEN, INK PRE EJECTION.





Chapter 7



- 8. Remove [1] PLATEN CLEANER BRUSH.
- 9. Open [2] COVER UNIT, MTC.
- **10.** Remove [3] COVER, FRONT R.





Chapter 4

Chapter 5

11. Remove [1] COVER, HOME POSITION.





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- 12. Remove [2] a set of
 - COVER, SIDE L A
 - COVER UNIT, SIDE L B
 - CAP, SIDE COVER.





13. Remove [1] COVER, TOP L.





14. Remove [1] COVER, BACK POSITION.





15. Remove [1] COVER, FRONT L.





16. (24" model, 44" model)

Remove [1] PLATEN, UNDER HOME and [2] four pieces of PLATEN, UNDER A (two pieces in 24" model).







(36" model)

Remove [1] PLATEN, UNDER HOME, three pieces of [2] PLATEN, UNDER A, and [3] PLATEN, UNDER C.

	[4]	[5]
PLATEN, UNDER HOME [1]	1 pc	3 pcs
PLATEN, UNDER A [2]	1 pc each	3 pcs each
PLATEN, UNDER C [3]	1 pc	2 pcs



17. Remove [1] CUTTER BLADE UNIT.

	[2]	[3]
		Y
24" model	1 pc	4 pcs
36" model	1 pc	5 pcs
44" model	1 pc	6 pcs



18. Remove [1] CUTTER MOTOR UNIT, W/ENCODER.







B-2 12. Remove [1] CUTTER HP SENSOR.





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15 MAIN HARNESS



Chapter 2

Chapter 3

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Chapter 6

Chapter 7



HARNESS ASS'Y L



HARNESS ASS'Y R



Chapter 8

Chapter 7



Chapter 2

Chapter 3

Chapter 4

Chapter 5

HARNESS ASS'Y, L (24" model)

- **1**. Remove [1] a set of
 - COVER, SIDE L A
 - COVER UNIT, SIDE L B
 - CAP, SIDE COVER.



2. Open [1] the access cover.



3. Remove [1] COVER, TOP L.

[2]	[3]
1 pc	5 pcs



- 4. Remove [1] a set of
 - BOX, INKTANK
 - COVER, INKTANK BACK
 - COVER, INKTANK L INSIDE.





- 5. Open [1] the right ink tank cover.
- 6. Remove [2] a set of
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B
 - CAP, SIDE COVER.

[3]	[4]	[5]
4 pcs	3 pcs	1 pc





Chapter 8

7. Open [1] the right ink unit.





[1]

[2]

[2]



[2]	[3]
(And the second	ST.
5 pcs	2 pcs



634 | **15 MAIN HARNESS** SM-17001E-00 **9.** Disconnect [2] the cables from [1] the cover of the RELAY PCB.



10. Remove [1] the cover of the RELAY PCB.







11. Remove [1] the plate.





12. Remove [1] COVER, FRONT L.





13. Remove [1] SPRING, EARTH and [2] CAP, ROLL COVER SHAFT.



14. Remove [4] BUSH UNIT, ROLL COVER L.



15. Remove [6] the roll cover.



16. Remove [1] COVER, SPOOL L and [2] SPRING, SPOOL COVER.





17. Remove [1] HOLDER, SPOOL SIDE L.





18. Disconnect [1] HARNESS ASS'Y, L.

[2]	[W]	[E]	[R]
22 pcs	21 pcs	2 pcs	2 pcs











Chapter 4

Chapter 5

Chapter 6

638 | 15 MAIN HARNESS SM-17001E-00

HARNESS ASS'Y, L (36" model)

- **1**. Remove [1] a set of
 - COVER, SIDE L A
 - COVER UNIT, SIDE L B
 - CAP, SIDE COVER.



2. Open [1] the access cover.



3. Remove [1] COVER, TOP L.

[2]	[3]
1 pc	5 pcs



- 4. Remove [1] a set of
 - BOX, INKTANK
 - COVER, INKTANK BACK
 - COVER, INKTANK L INSIDE.





- 5. Open [1] the right ink tank cover.
- 6. Remove [2] a set of
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B
 - CAP, SIDE COVER.

[3]	[4]	[5]
4 pcs	3 pcs	1 pc





Chapter 8

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7. Open [1] the right ink unit.











[2]

8. Remove [1] the plate.

[2]	[3]	
A CONTRACTOR	ST.	
7 pcs	2 pcs	



9. Remove [1] the plate.





10. Remove [1] the plate.

[2]	[W]		
2 pcs	1 pc		



11. Disconnect [2] the cables from [1] the cover of the RELAY PCB.



12. Remove [1] the cover of the RELAY PCB.





13. Remove [1] the plate.







Chapter 2

Chapter 7

14. Remove [1] COVER FRONT L.





15. Remove [1] SPRING, EARTH and [2] CAP, ROLL COVER SHAFT.



16. Remove [4] BUSH UNIT, ROLL COVER L.



17. Remove [6] the roll cover.



18. Remove [1] COVER, SPOOL L and [2] SPRING, SPOOL COVER.





19. Remove [1] HOLDER, SPOOL SIDE L.





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Chapter 5

20. Disconnect [1] HARNESS ASS'Y, L.

[2]	[W]	[E]	[R]
24 pcs	24 pcs	2 pcs	2 pcs



[w]



Chapter 6

Chapter 1

Chapter 2

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HARNESS ASS'Y, L (44" model)

- **1**. Remove [1] a set of
 - COVER, SIDE L A
 - COVER UNIT, SIDE L B
 - CAP, SIDE COVER.

[2]



2. Open [1] the access cover.


3. Remove [1] COVER, TOP L.





- 4. Remove [1] a set of
 - BOX, INKTANK
 - COVER, INKTANK BACK
 - COVER, INKTANK L INSIDE.





5. Remove [1] the plate.



 $\mathbf{6}_{\bullet}$ Remove [1] the plate (with the INLET UNIT).

[2]	[3]	[4]
	R	3
2 pcs	1 pc	1 pc



Chapter 6

Chapter 2

Chapter 3

Chapter 4

7. Remove [1] the plate.





 ${f 8}_{{f \circ}}$ Remove [1] the cover of the RELAY PCB.





9. Remove [1] the plate.





10. Remove [1] COVER FRONT L.





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Chapter 2

Chapter 3

Chapter 4

11. Remove [1] SPRING, EARTH and [2] CAP, ROLL COVER SHAFT.



12. Remove [4] BUSH, ROLL COVER L.



13. Remove [6] the roll cover.



14. Remove [1] COVER, SPOOL L and [2] SPRING, SPOOL COVER.





15. Remove [1] HOLDER, SPOOL SIDE L.





16. Disconnect [1] HARNESS ASS'Y, L.





HARNESS ASS'Y, R (24" model)

- 1. Remove [1] a set of
 - COVER, SIDE L A
 - COVER UNIT, SIDE L B
 - CAP, SIDE COVER.



2. Open [1] the access cover.



3. Remove [1] COVER, TOP L.

[2]	[3]
1 pc	5 pcs



- 4. Remove [1] a set of
 - BOX, INKTANK
 - COVER, INKTANK BACK
 - COVER, INKTANK L INSIDE.





- 5. Open [1] the right ink tank cover.
- 6. Remove [2] a set of
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B
 - CAP, SIDE COVER.

[3]	[4]	[5]
4 pcs	3 pcs	1 pc





Chapter 8

7. Open [1] the right ink unit.











[2]

8. Remove [1] the plate.

[2]	[3]
A CONTRACTOR	
5 pcs	2 pcs



658 | **15 MAIN HARNESS** SM-17001E-00 9. Disconnect [1] HARNESS ASS'Y, R.

[2]	[W]	[E]	[R]
34 pcs	14 pcs	2 pcs	2 pcs



Chapter 4

Chapter 1

Chapter 2

HARNESS ASS'Y, R (36" model, 44" model)

- **1**. Open [1] the right ink tank cover.
- 2. Remove [2] a set of
 - COVER, SIDE R A
 - COVER UNIT, SIDE R B
 - CAP, SIDE COVER.





660 | **15 MAIN HARNESS** SM-17001E-00 **3.** Open [1] the right ink unit.





4. Remove [1] the plate.







5. Disconnect [1] HARNESS ASS'Y, R.

[2]

(36" model)

[2]	[W]	[E]	[R]
33 pcs	13 pcs	2 pcs	2 pcs



2

(REAR VIEW)

[2]

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16 LOWER ROLL UNIT (1)





В

LOCK LEVER B

SPRING, LOCK A

CUT WASHER

С

C-1

LOCK LEVER A

SPRING, LOCK A

CUT WASHER







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- Chapter 4
- er 4
- Chapter 5
- Chapter 6
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666 | **16 LOWER ROLL UNIT (1)** SM-17001E-00

1. From the left side of the pri ter, remove [1] GUIDE, UPPER.





2. Remove [1] HOLDER, SPOOL L.





- B
- **1**. From the right side of the printer, remove [1] GUIDE, UPPER.





2. Remove [1] HOLDER, SPOOL R.







1. Remove all the parts of Group B.

C-1

С

2. Remove [1] SPRING, LOCK A, then remove [2] LOCK LEVER A and [3] LOCK LEVER B.







2. Remove [1] PLATE, SPOOL GROUND.





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668 | **16 LOWER ROLL UNIT (1)** SM-17001E-00

Chapter 2

Chapter 5



- **1**. Remove all the parts of Group B.
- 2. Remove [1] ROLLER, LOCK.





Ε

1 Remove [1] COVER, SIDE R.





2. Remove [1] a set of

- OPERATION PANEL UNIT, RU

- COVER, SIDE R REAR.

[2]	[3]	[4]	[W]
	Y North Contraction of the second sec	YB	
1 pc	2 pcs	2 pcs	2 pcs



F

- **1**. Remove all the parts of Group E.
- 2. Remove [1] SPRING, LOCK C.





1. Remove all the parts of Group E.



2. Remove [1] OPERATION PANEL UNIT, RU from the [2] COVER, SIDE R REAR.





G-2

2. While pressing and holding [1] the spool lock lever downward, lower [2] KNOB, OPERATION.



3. Remove [1] LOWER RIGHT SPOOL SET SENSOR.







- 1. Remove all the parts of B, D, E, and F.
- 2. Remove [1] a set of
 - LEVER ASS'Y, SPL LOCK R
 - KNOB, OPERATION

- BUSHING, DRIVE.





Chapter 8

Chapter 7

Chapter 2

3. Remove [2] KNOB, OPERATION from [1] LEVER ASS'Y, SPL LOCK R.



4. Remove [4] BUSHING, DRIVE from [1] LEVER ASS'Y, SPL LOCK R.







Chapter 1

Chapter 2

Chapter 3

Chapter 4





Chapter 1

Α

- Chapter 2
- Chapter 3
- **Chapter 4**
- Chapter 5
- Chapter 6
- Chapter 7
- Chapter 8



1 Pull [1] the lower roll unit toward you.

[2]	[3]
1 pc	2 pcs



2. Remove [1] COVER, SIDE L SUB.





- 3. Remove [1] a set of
 - COVER UNIT, SIDE OUTER L

- CAP, COVER SIDE L.





В

- **1**. Remove all the parts of Group A.
- 2. Remove [1] ACTIVE ROLL BRAKE UNIT.



Notes when assembling the unit:	
Point	Perform adjustment at the end of assembly.
	[SERVICE MODE > ADJUSTMENT > LOWER_ARB_CALIB]



B-1

3. Remove [1] COVER, ROLL GEAR L.



[2]

2 pcs





Chapter 4





Chapter 8

678 | 17 LOWER ROLL UNIT (2) SM-17001E-00



С

- **1.** Remove all the parts of Groups A and B.
- **2.** Remove [1] the plate.





3. Remove [1] SPOOL LOCK UNIT.



Chapter 1

D

- Chapter 2
- Chapter 3
- Chapter 4

- Chapter 6
- Chapter 7

- **1**. Remove all the parts of Group A.
- 2. Remove [1] the plate (with the LOWER LEFT SPOOL SET SENSOR).





3. Remove [1] LOWER LEFT SPOOL SET SENSOR.





- **1**. Remove all the parts of Group A.
- **2.** Remove [1] the plate.





E-1

3. Remove [1] I/F PCB UNIT, RU.







3. Disconnect [1] HARNESS ASS'Y, LO SPL SOL.







3. Disconnect [1] HARNESS ASS' Y, LO ROLL SEP RLY.





682 | **17 LOWER ROLL UNIT (2)** SM-17001E-00

Chapter 2



3. From the left side of the pri ter, remove [1] GUIDE, UPPER.





4. Remove [1] HOLDER, SPOOL L.





5. Disconnect [1] HARNESS ASS'Y, LO SPLSET L.

[2]	[W]	[E]
2 pcs	3 pcs	3 pcs





3. Remove [1] ACTIVE ROLL BRAKE UNIT.




4. Disconnect [1] HARNESS ASS'Y, ARB MOTOR.







1. Pull [1] the lower roll unit toward you.

[2]	[3]
	and the second second
1 pc	2 pcs



2. Remove [1] COVER, SIDE R.





- 3. Remove [1] a set of
 - OPERATION PANEL UNIT, RU

- COVER, SIDE R REAR.

[2]	[3]	[4]	[W]	
		YB		
1 pc	2 pcs	2 pcs	2 pcs	
	4	2		

4. Remove [1] COVER UNIT, SIDE OUTER R.



5. Disconnect [1] HARNESS ASS'Y, RU PANEL RLY.



Chapter 1

Chapter 2

Chapter 3

Chapter 4

Chapter 5

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Chapter 7

Chapter 8

18 LOWER ROLL UNIT (3)



688 | **18 LOWER ROLL UNIT (3)** SM-17001E-00



1 Pull [1] the lower roll unit toward you.

[2]	[3]
1 pc	2 pcs



2. Take down [1] the lower roll unit on the floo .



Chapter 2

Chapter 3

Chapter 4

Α



B

1. Remove all the parts of Group A.

B-1

2. Remove [1] HANDLE UNIT, LOWER SUPPORT L and [2] HANDLE UNIT, LOWER SUPPORT R.









B-2



2. Remove [1] RAIL UNIT L and [2] RAIL UNIT R.





- **1**. Remove all the parts of Groups A.
- **2.** Remove [1] COVER, SIDE R.





- 3. Remove [1] a set of
 - OPERATION PANEL UNIT, RU
 - COVER, SIDE R REAR.





4. Remove [1] COVER UNIT, SIDE OUTER R.





D

- **1** Remove all the parts of Groups A and C.
- **2.** Remove [1] the cap.





Chapter 3

Chapter 2

Chapter 4

Chapter 5

3. Remove [1] the right top cover.









4. Slide [1] the plate to the right, and remove [2] FLAPPER POSITION SENSOR.





D-2

4. Remove [1] HARNESS ASS'Y, LO FLAP SPLSET.

[2]	[W]	[E]
3 pcs	8 pcs	3 pcs



Chapter 4

Chapter 5

Chapter 6

- **1**. Remove all the parts of Group A.
- 2. Remove [1] COVER, SIDE TOP L.





3. Remove the top covers [1] to [3].







 ${f 4}_{ullet}$ Remove [1] the plate (with the CAM, FLAP SELEC).



Chapter 7

Chapter 6

1. Remove all the parts of Groups A, C, and E.



- 2. Remove nine pieces of [1] CAM, FLAP SELEC from [2] the plate
 - (fi e pieces in 24" model, seven pieces in 36" model).



F-2

2. Remove six pieces of [1] SUPPORT, FLAP SELEC

(three pieces in 24" model, fi e pieces in 36" model).





G

- **1**. Remove all the parts of Groups A, C, and E.
- 2. Remove eight pieces of [1] FLAPPER SEPARATE UNIT (four pieces in 24" model, six pieces in 36" model)

and [2] FLAPPER SEPARATE UNIT W/SP.

[3]	[4]
	C A
1 pc each	2 pcs each



Chapter 6



Chapter 8

3. Remove [1] PAPER GUIDE ROLLER UNIT, RU A.



4. Remove [3] PAPER GUIDE ROLLER UNIT, RU B.



5. (36" model only)

Remove [7] PAPER GUIDE ROLLER UNIT, RU E.





5. (44" model only)

Remove [5] PAPER GUIDE ROLLER UNIT, RU C.





6. Push down [2] NIP ARM UNIT and remove [1] GUIDE UNIT, LOW A.



7. Push down [2] NIP ARM UNIT and remove [4] GUIDE UNIT, LOW B.



8. (36" model, 44" model only)

Push down [2] NIP ARM UNIT and remove [6] GUIDE UNIT, LOW C.



9. (44" model only)

Push down [2] NIP ARM UNIT and remove [8] GUIDE UNIT, LOW D.







Chapter 2

Chapter 3

Chapter 4

Chapter 5



Η

1. Remove all the parts of Groups A, C, E, and G.

H-1

2. Remove [1] DRIVE NIP ARM UNIT.

[2]	[3]	[4]	[W]	[G]
		K		
3 pcs	2 pcs	2 pcs	1 pc	2 pcs
	[2]			
			[4]	[3]

Chapter 7

Chapter 4

Chapter 5

3. Remove [1] LOWER ROLL NIP SENSOR.





- H-2
 - 2. Remove six pieces each of [1] SPRING, PAPER SET and [2] NIP ARM UNIT (three pieces each in 24" model, fi e pieces each in 36" model).



Chapter 1

Chapter 2

2. Remove [1] SPRING, PAPER SET and [2] NIP ARM SENSOR UNIT.



Ι

- **1**. Remove all the parts of Groups A, C, E, G, and H.
- 2. Remove [1] CAM SHAFT UNIT.



- Chapter 1

Chapter 3

Chapter 2

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- Chapter 5
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- Chapter 7
- Chapter 8
- 706 | 18 LOWER ROLL UNIT (3) SM-17001E-00

1. Remove all the parts of Groups A, C, E, and G.



J

2. Remove [1] ROLL PAPER FEED SENSOR UNIT.







3. Disconnect [1] HARNESS ASS'Y, RLNIP PF SNS.





2. From [1] GUIDE UNIT, LOW A, remove [2] SPRING, PAPER FEED SENSOR and [3] LEVER, PAPER FEED SENSOR.



K

- **1**. Remove all the parts of Groups A, C, E, and G.
- 2. Remove [1] COVER, SIDE L SUB.





- 3. Remove [1] a set of
 - COVER UNIT, SIDE OUTER L
 - CAP, COVER SIDE L.





4. Remove [1] the plate.





Chapter 7

Chapter 2

Chapter 5

5. From the left side of the pri ter, remove [1] GUIDE, UPPER.





6. Remove [1] HOLDER, SPOOL L.

[2]	[3]
	C S
4 pcs	1 pc



7. From the right side of the printer, remove [1] GUIDE, UPPER.







8. Disconnect [1] HARNESS ASS'Y, RU MAIN.

	[2]	[W]	[E]	[G]
24" model	7 pcs	6 pcs	3 pcs	4 pcs
36" model	7 pcs	8 pcs	3 pcs	6 pcs
44" model	7 pcs	8 pcs	3 pcs	7 pcs

(24" model)





Chapter 8

(36" model)

[2]

[2]

[E]

[W]



[1]

11







8. Disconnect [1] HARNESS ASS'Y, ROLL SEP RLY.

	[2]	[W]	[E]	[G]
24" model	2 pcs	5 pcs	1 pc	2 pcs
36" model	2 pcs	7 pcs	1 pc	4 pcs
44" model	2 pcs	7 pcs	1 pc	5 pcs

(24" model)



(36" model)

[E]



Chapter 1

(44" model)



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CHAPTER 7

SERVICING FUNCTIONS AND TOOLS

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7-1. Servicing Functions Outline

1) Outline

There are two servicing functions, "Se vice mode" and "PCB replacement mode." Use the two modes as the following servicing usages:

Service mode: Printer status check, adjustment, diagnosis, test printin , E-RDS setti , and etc.
PCB replacement mode: When the MAIN PCB UNIT or the BACK UP PCB UNIT is replaced in repair servicing, etc., the adjustment value and settings fore the PCB replacement are automati ally wri en in the new PCB.

2) Servicing functions

<How to launch service mode>

- Press and hold the Power bu on while touching Area4 (lower left) of the ope ation panel. (DO N T release the bu ons.)
- 2. When the Canon logo is displayed on the operation panel, elease the finer touching Area4 (lower left) while holding the Power buon, touch in order of Area2 (lower right,) Area3 (upper left) and Area1 (upper right) of the operation panel, elease the finer from Area1 (upper right) and finally elease the Power buon within two seconds.







Chapter 2

Chapter 3

Chapter 4

3. When the service mode is successfully launched, the orange lamp blinks above the operation panel t the timing when the messa e "Starting the ystem... Please wait." is displayed.



NOTE:

- $\cdot\;$ The touch interval should be within two seconds.
- · If you release the Power bu on while touching the operation panel, tart the printer in the user mode.
- · If you make a mistake in touching order, start the printer in the user mode.

<How to launch PCB replacement mode>

When the printer is launched following the procedures for starting se vice mode a er replacing a MAIN PCB UNIT or a BACK UP PCB UNIT, the printer automati ally enters the PCB replacement mode. For details, refer to <u>7-3. PCB Replacement Mode</u>.

3) The function for servicing and users (recovery mode)

"Recovery mode" is the function or not only servicing but users. In recovery mode, when the power of the printer is disconnected during fir ware update^{*1} for some reason, the screen automati ally transits to the recovery mode at the next launch of the printer. For details, refer to <u>7-5. Recovery Mode</u>.

*¹: Firmware update by Firm update tool, iPF PRO Service Tool or FIRMWARE UPDATE(USB) of service mode.

7-2. Service Mode

1) Purpose

The service mode is to be used when a service person provides the customer with servicing of this product (troubleshootin , repair, diagnosis, servicing adjustment, and etc.). Servicing is classified i to the following seven items: "PRINTER STATUS," "DIAGNOSIS," "FUNCTION," "ADJUSTMENT," "TEST PRINT," "E-RDS," and "OTHERS." These items are displayed in the menu of the operation panel only when the se vice mode is launched.

The purpose and the details of each item are to be described later item by item.

2) The differences from user mode

The behavior di erences between user mode and service mode are shown below.

The specific error codes are ignored.

In the user mode, when the error codes below are displayed, the maintenance cartridge is required to be replaced. On the other hand, in the service mode, the error codes below are ignored, therefore, the counter of the maintenance cartridge can be reset from the service mode menu.

E codes	Detail codes	Status
-	2819 (1720)	Maintenance cartridge full
-	281B (1720)	Lack of maintenance cartridge remaining capacity
		error

NOTE: The number in parenthesis is a support number, which is an error code for users displayed on PC or online manual.

Releasing the error with detail code starting from four or five.

When the printer is started in the service mode, the message for releasing the error with detail code starting f om four or fi e (4*** or 5***) is displayed so that a service person can perform troubleshooting

The user's print jobs cannot be printed.

If the user made the printer enter the service mode, printing annot be performed.

The print head can be swapped between the models among TX series.

As the print head can be swapped among TX series in the service mode, the number of the print head for tool required for print-head-related troubleshooting is minimi ed.

When replacing the print head, select [SERVICE MODE > FUNCTION > HEAD REPLACEMENT]. (Do not use CR LOCK/CR UNLOCK to replace the print head).

Chapter 1
Automatic cleaning is not performed.

No automatic cleaning p events the increase of the service operating time due o unintended automatic cleaning.

Auto Power OFF and sleep timer are not performed.

- Prevents unintended powering off and sleep t ansition in t oubleshooting
 - Select [Device settings > vice user settings > En gy saving settings > A o power off/Sleep timer] i the operation panel

Service mode menu hierarchy

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	Service mode menu	Descriptio	
First hierarchy	Second hierarchy		
PRINTER STATUS	SYSTEM INFO	Printer information (serial number	
		environmental temperature/cumulati	
		PV, etc.)	
	ERROR LOG	Error history (up to 10 cases for ERROR	
		LOG up to 5 cases for IAM LOG)	
	PARTS COUNTER	Clearing parts counter values	
		Cumulati e number of cleaning (past	
		history Up to three times	
		Data of the latest adjustment	
		Head information (head lat number (d)	
	TIEAD USAGE LOG	Head information (nead lot number/ud	
		count information, tc.)	
	INK USAGE LUG	Ink information (cumul ti e ink usage/	
		elapsed days a er ink tank installation	
		etc.)	
	OTHER CONSUMABLES USAGE LOG	Maintenance cartridge usage log/cu e	
		usage log	
	USER COMMAND LOG	Head alignment history/color calibration	
		history	
DIAGNOSIS	CR_SYSTEM CHECK	Carriage drive functional diagnosi	
	PURGE CHECK	Purge unit functional diagnosi	
	I/O DISPLAY	I/O DISPLAY (each sensor and switch	
		functional diagnosis	
	OPT SENS CHECK	Multi sensor functional diagnos	
		Head management sensor functional	
		diagnosis	
		Europianal diagnosis of head ontact	
	HEAD CNT CHECK	Functional diagnosis of head ontact	
		detectio	
		LF encoder sensor functional diagnosi	
FUNCTION	CR LOCK	Carriage lock	
	CRUNLOCK	Carriage unlock	
	HEAD REPLACEMENT	Head removal and reinstallation (Ink is	
		not removed from the head)	
	INK SUPPLY VALVE OPEN	Ink supply valve opening and closing	
		operatio	
	INK FILLING	Ink filling (er parts replacement)	
ADJUSTMENT	OPTICAL AXIS	Multi sensor o ti al axis adjustment	
	GAP CALIB	GAP calibratio	
	LF TUNING	LF correction and ccentricity correction	
	NOZZLE CHK POS	Adjustment of the opti al axis in the	
		head management sensor	
	CR REG	Dynamic head alignment	
	CR MOTOR COG	Cogging torque control	
	TOUCH PANEL CALIBRATION	Touch panel calibratio	
	MANUAL HEAD ADI	Manual head alignment	
	MARGINADI	Margin adjustment	
		I F encoder adjustment	
		Upper paper feed unit calibratio	
		Lower paper feed unit calibratio	
TEST DRINT		Service log printin	
		Sonvice nog printin	
		E maintanance certi att (CA certi	
E-KD2		E-maintenance certi ate/CA-certi a	
		information disply	
	E-RDS SETUP	E-RDS setup	
	E-RDS OTHERS	E-maintenance CA-certi ate deletio	

OTHERS	RTC SETTING	RTC setti
	PV AUTO JUDGE	Waste ink reduction mode s tti
	PRINT HEAD INFO SETTING	Availability of print head warranty
		information displ y
	HDD BOX PASS	HDD BOX password reset
	FIRMWARE UPDATE(USB)	Firmware installation using USB flas
		drive
	GET PRINT INF (USB)	Storing PRINT INF information o USB
		flash dri e
	GET ENCRYPTING LOG(USB)	Storing serial log to USB flash dri e
	DELETE ENCRYPTING LOG	Deletion of serial logs tored in HDD

Details of PRINTER STATUS

1) Purpose

PRINTER STATUS checks the printer status and obtains the information necessa y for diagnosis.

2) How to use PRINTER STATUS

Execute the menu in PRINTER STATUS, and the detailed information will be displyed on the operation panel

Menu level: Select [SERVICE MODE > PRINTER STATUS] in the operation panel

Menu SYSTEM INFO	Operation panel disply	Details				
SYSTEM INFO		i Detalis	Operation panel disply	Details	Operation panel disply	Details
	S/N: xxxxxxxx	(1) Printer serial number				
	TMP [C]/TMP [F]	(2) Environmental temperature (Celsius /				
		Fahrenheit)				
	RH [%]	(3) Environmental humidity				
	AFTER INSTLATION [days]	(4) Number of days passed since the initial				
		installation sequence tarted				
	PV TTL [m2]	(5) Cumulati e PV (m2)				
	PV TTL [sq.f]	(6) Cumulati e PV (sq.f)				
	PV TTL [A4]	(7) Cumulati e PV (in A4 equivalent)				
	ROLL1 TOTAL [m2]	(8) Roll paper 1 (upper) Cumulati e PV (m2)				
	ROLL1 TOTAL [sq.f]	(9) Roll paper 1 (upper) Cumulati e PV (sq.f)				
	ROLL1 TOTAL[A4]	(10) Roll paper 1 (upper) Cumulati e PV (in A4				
		equivalent)				
	ROLL2 TOTAL [m2]	(11) Roll paper 2 (lower) Cumulati e PV (m2)				
	ROLL2 TOTAL [sq.f]	(12) Roll paper 2 (lower) Cumulati e PV (sq.f)				
	ROLL2 TOTAL[A4]	(13) Roll paper 2 (lower) Cumulati e PV (in A4				
		equivalent)				
	CUISHEET TOTAL [m2]	(14) CUTSHEET Cumulati e PV (m2)				
		(15) CUTSHEET Cumulati e PV (sq.f)				
		(16) CUISHEET Cumulati e PV (in A4 equivalent)				
	PV ENV	(17) PV per environmental temperature				
	A: B:	A: Temperature 15 C to 25 C/Humidity 40%				
	C: **** D: ****	1000%				
	E. F. F.	b. lemperature 25 C to 50 C/Humiluly 40%				
		C: Temperature 15°C to 30°C/Humidity 10%				
		D: Temperature 15°C to 30°C/Humidity 60%				
		F: Temperature 15°C to 30°C/Humidity 0% t	0			
		10% or temperature up to 15°C 30°C or				
		higher/Humidity 0% to 50%				
		F: Temperature 15°C to 30°C/Humidity 80%				
		to 100%, or temperature up to 15°C. 30°	c			
		or higher/Humidity 50% to 100%				

PRINTER STATUS me	nu level				
Second level	Third level		Fourth level		Fifth I vel
Menu	Operation panel disply	Details	Operation panel disply	Details	Operation panel disply
ERROR LOG	HARDWARE ERROR LOG	(1)HARDWARE ERROR LOG (Hardware error)	HARDWARE ERROR LOG	(5) The date and time of HAR WARE ERROR (the	DETAILS
			MM/DD HH:MM Exxx-xxxx(xxxx)	latest ten cases) and their error codes are	Number SheetS [A4]
				displayed.	
	ERROR LOG	(2)ERROR LOG (Operator error)	ERROR LOG		TMP [C]
			MM/DD HH:MM xxxx(xxxx)		
				(6) The date and time of ER OR (the latest ten	TMP [F]
	WARNING LOG	(3)WARNING LOG (Warning)	WARNING LOG	operator errors) and their error codes are	
			MM/DD HH:MM xxxx(xxxx)	displayed.	RH [%]
				(7) The date and time of ARNING (the latest	
				ten warnings) and their warning types are	
				displayed.	
				· · · · · · · · · · · · · · · · · · ·	
	JAM LOG	(4)JAM LOG (Jam error)	JAM LOG	(8) The date and time of the I test fi e JAM errors	DETAILS
			MM/DD HH:MM xxxxxx(xxxx)	and their warning types are displayed.	01:x
					02:x
					03:x
					04:x
					05:x
					06:x
					07:x
PARTS COUNTER	Wia1 xx /yyyy/mm/dd/ xxx%	(1) Parts name (*2)	DETAILS	Details of each parts counter	
	Wia2 xx /yyyy/mm/dd/ xxx%	(2) Status: xx (OK/W1/W2/E)	COUNTER NAME XXXXXX	(5) Parts name	
	Wia3 xx /yyyy/mm/dd/ xxx%	W1: Warning 1/W2: Warning 2/E: Error	COUNTER VALUE XXXXXX	(6) Counter value	
	Wia5 xx /yyyy/mm/dd/ xxx%	(3) The date of resetting ounter: yyyy/mm/dd	PART LIFE XXXXXX	(7) Parts life threshold	
	Wia6 xx /yyyy/mm/dd/ xxx%	(4) Usage rate: xxx%	ACCUMLATION XXXXXX	(8) Accumulated counter value	
	Wia7 xx /yyyy/mm/dd/ xxx%	*2: Details of the parts to reset the counter (See	THE NO. OF RESET XXXXXX	(9) The number of times of the ounter value	
	WF1 xx /yyyy/mm/dd/ xxx%	the Appendix 2).		reset	
	CR1 xx /yyyy/mm/dd/ xxx%				
	CR2 xx /yyyy/mm/dd/ xxx%		[Reset]		
	CR3 xx /yyyy/mm/dd/ xxx%		Execute?	[Parts counter reset]	
	CR4 xx /yyyy/mm/dd/ xxx%		YES/NO	Select [YES], the counter value will be reset. (The	
	CR5 xx /yyyy/mm/dd/ xxx%			cumulati e counter value is not cleared).	
	CR6 xx /yyyy/mm/dd/ xxx%				
	PG1 xx /yyyy/mm/dd/ xxx%				
	PG2 xx /yyyy/mm/dd/ xxx%				
	PG3 xx /yyyy/mm/dd/ xxx%				
	HMa1 xx /yyyy/mm/dd/ xxx%				
	MT1 xx /yyyy/mm/dd/ xxx%				
	PL1 xx /yyyy/mm/dd/ xxx%				
	Mi1 xx /yyyy/mm/dd/ xxx%				
	Mi2 xx /yyyy/mm/dd/ xxx%				
	MS1 xx /yyyy/mm/dd/ xxx%				

	Cha
Details	pt
Details of each HARDWARE ERROR/ERROR/	e r
WARNING	P
(9) PV when each error/warning occurs (in A4	
equivalent)	
(10) Environmental temperature when each	
error/warning occurs (Celsius)	Ľ
	de
(11) Environmental temperature when each	te
error/warping occurs (Eabranhait)	N
error/ warning occurs (ramennerr)	
(12) Environmental humidity when each error/	
warning occurs	
Datails of IAM	ç
(12) Detailed information when a AM error	a
	ote
*1: Dotailed information when a IAM error occurs	- -
(See the Appendix 1)	00
(See the Appendix 1).	
	0
	ha
	pt
	er
	4
	0
	ğ
	d
	ter
	Л
	~
	Ch
	qe
	te
	r 6

cond level	Third level		Fourth level		Fifth vel	
		Details	Operation panel display	Details		Details
		(1) Cleaning name (*2)		Details		
LEANING LOG	A-AD ()		DETAILS			
	A-A ***(***)	*3: Cleaning mode list (Figure 1: CAP-A/CAP-B	yyyy/mm/dd	(3) Execution hi tory of each cleaning (the last		
	A-B ***(***)	layout)	yyyy/mm/dd	three cases)		
	S-AB ***(***)	A-AB: Cleaning (All CAP) / A-A: Cleaning (CAP-A)	yyyy/mm/dd			
	S-A ***(***)	/ A-B: Cleaning (CAP-B) / S-AB: System cleaning				
	S-B ***(***)	$(\Delta II (\Delta P) / S - \Delta \cdot System cleaning (C \Delta P - \Delta) / S - B \cdot$				
	D AD ***(***)	System cleaning (CAD R) / P AP: Deep cleaning				
	R-AD ()	(All CAD) (D. A. Dean sharing (CAD A) (D. D.				
	R-A ***(***)	(All CAP) / R-A: Deep cleaning (CAP-A) / R-B:				
	R-B ***(***)	Deep cleaning (CAP-B) / EX: Ink removal at the				
	EX ***	head replacement / H: Ink filling t the head				
	H ***	replacement /				
	T1 ***	T1: Ink removal (Transport outdoors) / T2: Ink				
	T2 ***	removal (total frequency of ""Move indoors to a				
	C ***	di erent floor"" and ""M ve indoors on the same				
	С БІ_ЛД ***	floor"") / C: On arri al ink filling /				
		I AD, lok filling, t the installation of anistation				
	FI-A	FI-AB: INK filling t the installation er printer				
	FI-B ***	transportation (All CAP) / FI-A: Ink filling t the				
	IR-AB ***	installation er printer transportation (CA -A)				
	IR-A ***	/ FI-B: Ink filling t the installation er printer				
	IR-B ***	transportation (CA -B) /				
		IR-AB: Ink filling er irregular recovery (All CAP)				
		/ IR-A: Ink filling er irregular recovery (CAP-A) /				
		IR-R: Ink filling or irregular recovery (CAP-R)				
		(2) Accumulated number of automatic and				
		manual cleaning (Accumulated number of				
		manual cleaning)				
ERVICE LOG	SERVICE ADJUSTMENT LOG	(1) Service adjustment execution hi tory	SERVICE ADJUSTMENT LOG	Details of each service adjustment execution		
			GAP_CALIB:yyyy/mm/dd	history		
			OPTICAL AXIS:yyyy/mm/dd	(3) Each service adjustment name		
			CR_MOTOR_COG:vvvv/mm/dd	(4) Last implementation d te of each service		
			LE THNING: www./mm/dd	diuctment		
			CR_REG:yyyy/mm/dd			
	PCB REPLACEMENT LOG	(2) PCB replacement execution hi tory	PCB REPLACEMENT LOG			
			01:yyyy/mm/dd x			
			02:yyyy/mm/dd x	Details of PCB replacement execution hi tory		
			03:yyyy/mm/dd x	(5) The date of PCB replacement and the case		
			04:vvvv/mm/dd x	number (the last ten cases)		
			05:maa/mm/dd x	Case number 0: PACKUD DCD replacement		
				The data is equival.		
				The data is copied from main PCB to backup		
				PCB.		
				Case number 1: MAIN PCB replacement		
				The data is copied from backup PCB to main		
				PCB.		
				 Case number 2: Roth of main DCR and backung 		
				DCD are replaced	۶ <u> </u>	
				The data is copied from GID PCB to main PCB		
				l and backup PCB.		

RINTER STATUS me	nu level					
cond level	Third level		Fourth level		Fifth I vel	
enu	Operation panel disply	Details	Operation panel disply	Details	Operation panel disply	Details
D USAGE LOG	CURRENT HEAD PREVIOUS HEAD	(1)The currently-installed print head informatio (2) The previously-installed print head informati	CURRENT HEAD LOT DATE OF INSTALL DOT COUNT [Details] PREVIOUS HEAD LOT DATE OF INSTALL DOT COUNT [Details]	 (5) The currently-installed print head Lot number Print head installa on date Total dot count [Details of the currently-installed print head] (6) The previously-installed print head Lot number Print head installa on date Total dot count [Details of the previously-installed print head] 	DETAILS DOT COUNT MBK:xxxxx Bk:xxxxx MBK2:xxxxx Y:xxxxx M:xxxxx C:xxxxx REFILL INKTANK USAGE HISTORY A:*** B:*** C:*** D:*** E:*** F:*** THE NO. OF NON-EJECTION NOZZLES A1:*** A2:*** B1:*** B2:*** C1:*** C2:*** D1:*** D2:*** E1:*** E2:*** F1:*** F2:***	 (9) Head dot count (per color) (10) Refill ink ank usage log (per chip: *4) *4: The correlation b tween chip positions and colors (See the Appendix 3) (11) The number of the non-ejection n zzles (per chip: *4)
	DOT COUNT ACCUMULATED	(3) The currently-installed print head dot count	DOT COUNT ACCUMULATED TTL:****** [Details]	(7) The accumulated currently-installed print head dot count (in total)	<u>DETAILS</u> MBK:xxxxxx Bk:xxxxxx MBK2:xxxxxx Y:xxxxxx	(12) The accumulated currently-installed print head dot count (total per color)
	THE NO. OF REPLACEMENT	(4) The number of times of pri t head replacement	THE NO. OF REPLACEMENT REPLACEMENT:** S:**	 [Details of print head dot count] (8) THE NO. OF REPLACEMENT means the number of times of prit head replacement. "S" means the number of times th t the commands for removing and installing print head in Service mode are executed. (SERVICE MODE > FUNCTION > TEMPORARY HEAD REPLACEMENT) 	M:xxxxx C:xxxxx	
USAGE LOG	ACCUMULATED INK USAGE	(1) Accumulated ink usage	INK-USE1 INK-TTL [ml] INK-USE1 NINK-TTL [ml] INK-USE2 INK-TTL [ml] INK-USE2 NINK-TTL [ml]	 (3) Accumulated genuine ink usage (INK-USE1 INK-TTL) (4) Accumulated refilled ink usa e (INK-USE1 NINK-TTL) (5) Genuine ink interval usage (INK-USE2 INK-TTL) (6) Refilled ink i terval usage (INK-USE2 NINK-TTL) 	INK-USE1 INK DETAILS MBK:xxxxxx Bk:xxxxxx Y:xxxxx M:xxxxx C:xxxxxx INK-USE1 NINK DETAILS MBK:xxxxxx Bk:xxxxxx Y:xxxxx M:xxxxx C:xxxxxx INK-USE2 INK DETAILS MBK:xxxxx M:xxxxx Y:xxxxx M:xxxxx INK-USE2 NINK DETAILS MBK:xxxxx Bk:xxxxx Y:xxxxx C:xxxxxx INK-USE2 NINK DETAILS MBK:xxxxx M:xxxxx Y:xxxxx M:xxxxx	 (8) Accumulated genuine ink usage (per color) (INK-USE1 INK DETAILS) (9) Accumulated refilled ink usa e (per color) (INK-USE1 NINK DETAILS) (10) Genuine ink (per color) interval usage (INK-USE2 INK DETAILS) (11) Refilled ink (per olor) interval usage (INK-USE2 NINK DETAILS)
	THE NO. oF INK-USE2 CLEAR	(2) Ink interval usage clear is executed. (THE No. OF INK-USE2 CLEAR)	THE NO. OF INK-USE2 CLEAR COUNT:** [CLEAR] Execute? YES/NO	 (7) The number of times of clearing the ink interval usage [ink interval usage clear] Select [YES], clear the ink interval usage 		
HER INSUMABLES AGE LOG	MAINTENANCE CARTRIDGE USAGE	(1) Maintenance cartridge usage log	MAINTENANCE CARTRIDGE USAGE USAGE:**% THE NO. OF REPLACEMENT:*** THE NO. OF RESET:*** [Reset] Execute? YES *NO	 (3) Maintenance cartridge usage (%) (4) The number of maintenance cartridge replacement (5) The number of maintenance cartridge usage reset [Maintenance cartridge volume reset] Select [YES], and the volume of the maintenance cartridge will be reset. 		

Second level	Third level		Fourth level		Fifth I vel	
Menu	Operation panel disply	Details	Operation panel disply	Details	Operation panel disply	Details
	CUTTER USAGE	(2) Cu er usage log	CUTTER USAGE THE NO. OF REPLACEMENT THE NO. OF CUTS(CURRENT) THE NO. OF CUTS(PRE)	 (6) The number of times of cu er blade replacement (7) The number of times of cuts of the cur ent 	THE NO. OF REPLACEMENT TOTAL: *** THE NO. OF CUTS(CURRENT)	 (9) The number of times of cu er blade replacement (10) The number of times of cuts of the cur ent
				(8) The number of times of cuts of the p evious	1:MEDIA1: ***	cu er
				cu er	2:MEDIA2: ***	- TOTAL: The total number of times of cuts
					THE NO. OF CUTS(PRE)	- 1: The media name and the number of
					TOTAL: ***	times of cuts or the most common
					1:MEDIA1: ***	media type
					2:MEDIA2: ***	 - 2: The media name and the number of times of cuts or the second most common media type
						(11) The number of times of cuts of the p evio
						cu er
						- TOTAL: The total number of times of cuts
						- 1: The media name and the number of
						times of cuts or the most common
						media type
						- 2: The media name and the number of
						times of cuts or the second most
		(1) Print head alignment log		(2) Print haad alignment log (nast fills cases)	Details	(5) Details of adjustment
			0. YYYY/MM/DD HH:MM auto(*)	- Log number: 00 to 04 & D	DATE:****	- DATE: Implementation d te
			1: YYYY/MM/DD HH:MM auto(*)	00 to 04 (the newest event has the	MEDIA TYPE:****	- MEDIA: Media type
			2: YYYY/MM/DD HH:MM manual	smallest history number). D: Latest	HEAD:***	- HEAD: Head height
			3:	detailed adjustment	TMP [C]:***	- TMP [C]: Environmental temperature
			4:	- Adjustment type	TMP [F]:***	(Celsius)
			D: MM/DD HH:MM auto(*)	auto(d): Detailed adjustment, auto(S): Standard adjustment, manual: Manual	RH [%]:***	- TMP [F]: Environmental temperature (Fahrenheit)
						- RH: Environmental humidity

Appendix 1: Detailed information when a AM error occurs

No.	Contents	Details
01	Paper width detection OFF mod	1: ON, 2: OFF, -: Unknown
02	Carriage height	0: SL, 1: L, 2: M1, 3: M2, 4: M3, 5: H,
		-: Unknown
03	The position of pl ten shu er	1: Closed, 2: Half-open, 3: Fully open <1/4>, 4: Fully open <2/4>,
		5: Fully open <3/4>, 6: Fully open <4/4>, -: Unknown
04	Cut mode	1: User cut, 2: Eject cut,
		3: Automatic cut, *: Unkn wn
05	Paper feeding environment	0: Temperature 15°C to 25°C/Humidity 40% to 60%
		1: Temperature 25°C to 30°C/Humidity 40% to 60%
		2: Temperature 15°C to 30°C/Humidity 10% to 40%
		3: Temperature 15°C to 30°C/Humidity 60% to 80%
		4: Temperature 15°C to 30°C/Humidity 0% to 10%
		or Temperature up to 15°C, 30°C or higher/Humidity 0% to 50%
		5: Temperature 15°C to 30°C/Humidity 80% to 100%
		or Temperature up to 15°C, 30°C or higher/Humidity 50% to 100%
		-: Unknown
06	Borderless/bordered	1: Bordered printin , 2: Borderless printin , -: Unknown
07	Spur positio	1: Top, 2: Down, -: Unknown
08	Print mode label No.	Internal information (Not used in se vicing)
09	Paper width	The size is displayed. (Unit: mm) *Only when paper width detection is O
		-: Unknown
10	Paper type	Displayed by paper name.
		-: Unknown

Appendix 2: Details of the parts to reset the counter

If the parts to reset the counter are replaced, reset parts counter value by selecting [SE VICE MODE >

PRINTER STATUS > PARTS COUNTER > xxx (select the parts to reset the counter) > RESET THE COUNTER? > [YES].

Counter name	The parts to reset the counter	Applicable models
Wia1	WASTE INK ABSORBER UNIT A	All models
Wia2	WASTE INK ABSORBER UNIT B	All models
Wia3	WASTE INK ABSORBER UNIT C	44" model
Wia5	WASTE INK ABSORBER UNIT E	36" model
Wia6	WASTE INK ABSORBER UNIT	All models
Wia7	SUCTION FAN UNIT SUCTION FAN DUCT UNIT	All models
WF1	WASTE INK TANK UNIT	All models
CR1	BUSHING & CLEANER KIT	All models
CR2	FILM, TIMING SLIT STRIP	All models
CR3	CARRIAGE UNIT	All models
CR4	INK TUBE UNIT	All models
CR5	MULTI SENSOR UNIT	All models
CR6	FLEXIBLE CABLE UNIT	All models
PG1	PURGE UNIT	All models
PG2	PURGE UNIT	All models
PG3	PURGE UNIT	All models
HMa1	HEAD MANAGEMENT SENSOR UNIT	All models
MT1	MOTOR, DC, 47.8 W	All models
PL1	ACTIVE ROLL BRAKE UNIT	All models
Mi1	MIST FAN DUCT UNIT 1&2	All models
Mi2	MIST FAN DUCT UNIT 1&3	36"model, 44" model
MS1	MULTI SENSOR UNIT	All models

* All models: 24" model, 36" model, and 44" model

Appendix 3: The correlation b tween chip positions and olors (to be shared among all the supported models.)

Chip positio	A	В	С	D	E	F
Color	MBK	BK	MBK2	Y	М	С



<Figure seen from the contact pad side of the print head>

*Figure 1: PURGE UNIT CAP-A/CAP-B layout

There are two CAPs, one CAP per chip, "CAP-A" and "CAP-B" in order from the Away side.

Seen from the front of the printer, Away side is on the left side, and Home side is on the rig t side.



Details of DIAGNOSIS

1) Purpose

The diagnosis functions (select [SE_VICE MODE > DIAGNOSIS] from the operation panel) diagnose the priter operations as normal or abnormal, and disply their results on the operation panel. The diagnosis esults and the diagnosis date are recorded in service logs. Therefore, you can confirm the p evious diagnosis results by selectin [SERVICE MODE > PRINTER STATUS > SERVICE LOG > SERVICE ADJUSTMENT LOG] or printin [SERVICE MODE > TEST PRINT > PRINT INF] on the operation panel. or how to obtain service log, see <u>Details of TEST</u> <u>PRINT (2)</u>.

DIAGNOSIS menu	Details	When to use
CR SYSTEM CHECK	The diagnosis of CARRIAGE UNIT and	 When a carriage error occurs
	FLEXIBLE CABLE UNIT:	 When an error code (EC0F) occurs
	· Checking exible cable disconnec on	· A er CARRIAGE UNIT is replaced
	· Checking exible cable inserted at an	· A er INK TUBE UNIT and FLEXIBLECABLE
	angle	UNIT are replaced
	 Checking accelera on sensor 	· A er exible cable is removed and inserted
PURGE CHECK	The diagnosis of PURGE UNIT:	When an ink supply-related troubles are
	· Cap opening/closing opera on check	distinguishe
	 Purging opera on check 	
I/O DISPLAY	The diagnosis of each sensor and switch	Troubleshooting of abnormal sensor and witch
OPT SENS CHECK	The diagnosis of multi senso	When a multi sensor er or occurs
NOZZLE CHECK	The diagnosis of HEAD MANAGEMENT	When head management sensor-related error
	SENSOR UNIT	(EC22) occurs with a normal nozzle check
		pa ern
HEAD CNT CHECK	The diagnosis of head contact detectio	When a print head-related error occurs
ANALOG ENCODER CHECK	The diagnosis of analog encoder sensor	When an analog encoder-related error occurs

NOTE:

In each diagnosis result (OK/NG) displayed on the operation panel, OK means assed, and NG means Failed.

2) How to use diagnosis function

<CR SYSTEM CHECK>

- 1. Select [SERVICE MODE > DIAGNOSIS > CR SYSTEM CHECK > YES] from the operation panel
 - When [YES] is selected: CR SYSTEM CHECK is executed.
 - $\cdot~$ When [NO] is selected: Returns to the CR SYSTEM CHECK screen.
- 2. A er CR SYSTEM CHECK is completed, the diagnosis result (OK or NG) is displayed on the operation panel



How to handle NG items

Diagnosis items	How to solve
Acceleration sensor chec	If NG is displayed even a er AIL CLEANER UNIT is replaced, replace CARRIAGE
(ACC. SENSOR CHECK)	UNIT.
Flexible cable disconnection chec	If NG is displayed when confirming emoval or insertion of FLEXIBLE CABLE,
(LONG FFC CHECK)	replace FLEXIBLE CABLE UNIT.
CR vibration measu ement	If NG is displayed even a er RAIL CLEANER UNIT is replaced, replace CARRIAGE
(CR VIBRATION)	UNIT.

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Chapter 1

<PURGE CHECK>

INITIALIZE CHECK

- 1. Select [SERVICE MODE > DIAGNOSIS > PURGE CHECK > INITIALIZE CHECK > YES] from the operation panel
 - $\cdot\;$ When [YES] is selected: The initiali e check of the purge unit is executed.
 - $\cdot~$ When [NO] is selected: Returns to the screen to select [INITIALIZE CHECK] or [PRESSURE CHECK].
- 2. When the initiali e check is completed, the following screen is displayed again. Confirm th t an error is not displayed on the operation panel. If an er or occurs, see <u>5-3</u>. Detail of Hardware to handle the error.

PG CHECK
INITIALIZE CHECK
PRESSURE CHECK

PRESSURE CHECK

- Remove four screws for fixing rig t side cover, and remove the right side cover from the printer. Then, select [SERVICE MODE > FUNCTION > CR UNLOCK] from the operation panel o release the lock of the carriage.
- Return to the menu screen, and select [SERVICE MODE > DIAGNOSIS > PURGE CHECK > PRESSURE CHECK > YES].
 - $\cdot~$ When [YES] is selected: Transits to the next screen.
 - $\cdot~$ When [NO] is selected: Returns to the screen to select [INITIALIZE CHECK] or [PRESSURE CHECK].
- 3. When the following message is displayed on the operation panel, m ve CARRIAGE UNIT manually so that the CAP part of Purge Unit can be visually checked.

UNLOCK THE CAR	RIAGE UNIT,
THEN MOVE IT O	VER THE
PLATEN . PLACE	THE PLATE
ON THE PURGE U	NIT CAPS
AND HOLD IT DO	MN.
YES	NO

734 **7-2. Service Mode**

SM-17001E-00

Chapter 7

4. Wash the surface of the PLATE, PURGE CHECK, a service jig, with ethanol. Then, put it on the CAP of PURGE UNIT. Be sure to remove a thin vinyl sheet on the surface of a new PLATE, PURGE CHECK.



5. Select [YES].

- $\cdot~$ When [YES] is selected: Transits to the next screen.
- · When [NO] is selected: Returns to the screen to select INITIALIZE CHECK or PRESSURE CHECK.

UNLOCK THE CARR	IAGE UNIT,
THEN MOVE IT OV	ER THE
PLATEN . PLACE	THE PLATE
ON THE PURGE UN	IIT CAPS
AND HOLD IT DOW	IN.
YES	NO

- Select CAP for checking suctioning ope ation. Check the suctioning op ation in the ollowing order from the top (CAP A => CAP B => ALL CAPS) (Execute three times in otal).
 - \cdot When [CHECK CAP A] is selected: The suctioning op ration of CAP A is chec ed.
 - When [CHECK CAP B] is selected:
- The suctioning op ration of CAP B is chec ed.
- When [CHECK ALL CAPS] is selected: The suctioning op rations of All CA s are checked at the same time



7. A er selecting CAP , select [YES].

0	
Execute?	
YES	NO

8. Select [YES], and the following message will be displayed and suctioning ope ation will be xecuted. Here, manually apply the slight pressure to the PLATE, PURGE CHECK from above.

SUCTIONING

9. A er the suctioning ope ation is ompleted, the following message is displayed on the operation panel. Check the negati e pressure of CAP.

The PLATE, PURGE CHECK must not be peeled even by slightly pulling with one's hand. If the PLATE, PURGE CHECK is easily peeled, Purge Unit may be defect e.



- 10. Check the negati e pressure, then select [OK].
- 11. Select [OK], and the following message will be displayed and the negati e pressure will be released.



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12. A er the negati e pressure is released, the following screen is displayed again.

CHECK CA	P A	
CHECK CA	P B	
CHECK AL	L CAPS	

13. Check the remaining suctioning ope ation (CAP B => ALL CAPS) in the same p ocedures.

Make sure to check the suctioning ope ation per CA . If the suctioning ope ation is chec ed by selecting ALL CAPS only, even if any of the CAPs is not normal, as the PLATE, PURGE CHECK is not removed, it is possible that the negati e pressure of the abnormal CAP is mistakenly regarded as OK when you check. (For example, even if CAP B has not suctioned ink, if the ne ati e pressure of CAP A is left, it is possible that the negati e pressure of CAP B is mistakenly regarded as OK when you check.)

<I/O DISPLAY>

 Select [SERVICE MODE > DIAGNOSIS > I/O DISPLAY] from the operation panel. The ollowing screen is displayed in the operation panel

	IO CHECK	
0:	0123456789ABCDEF	
	000000000000000000000000000000000000000	
1:	0123456789ABCDEF	
	000000000000000000000000000000000000000	
2:	0123456789ABCDEF	
	000000000000000000000000000000000000000	

2. Check the switching information of senso s and switches by the display on the operation panel (0: not shielded or 1: shielded) or the beeping sounds when they are switched ON and OFF.

<<I/O check list of the sensors and switches displayed on the operation panel>

Display		Sensor and switch names
0	0	PURGE MAIN CAM SENSOR
	1	PAPER ENTRY SENSOR
	2	PAPER FEED HOME POSITION SENSOR
	3	PUMP ROLLER SENSOR
	4	CARRIAGE LIFT SENSOR
	5	WIPER POSITION SENSOR
	6	CUTTER HOME POSITION SENSOR
	7	RIGHT CHOKE VALVE POSITION SENSOR
	8	-
	9	RIGHT AGITATION VALVE POSITION SENSOR
	A	-
	В	RIGHT TANK COVER SWITCH
	C	-
	D	PAPER WIND DIRECTION SENSOR
	E	PAPER WIND SWITCH
	F	PAPER UNWIND SWITCH

- · For the positions of senso s and switches, refer to 8. UNIT CONFIGURATION Sensors.
- $\cdot~$ When you check the sensor you cannot touch, manually rotate the gear or cam to switch ON and OFF.
- When the Paper Entry Sensor (0:1) is shielded, the roller is rotated, and PAPER FEED HOME POSITION SENSOR (0:2) is switched ON and OFF.

Display		Sensor and switch names	
1	0	RELEASE LEVER SWITCH	
	1	RIGHT TOP COVER SWITCH	
	2	LEFT TOP COVER SWITCH	
	3	LOWER PAPER ENTRY SENSOR	
	4	UPPER PAPER ENTRY SENSOR	
	5	UPPER ROLL NIP SENSOR	
	6	LOWER ROLL NIP SENSOR	
	7	FLAPPER POSITION SENSOR	
	8	HEAD COVER SENSOR	
	9	PAPER WIND ON/OFF SWITCH	
	А	UPPER LEFT SPOOL SET SENSOR	
	В	UPPER RIGHT SPOOL SET SENSOR	
	С	LOWER LEFT SPOOL SET SENSOR	
	D	LOWER RIGHT SPOOL SET SENSOR	
	E	UPPER ROLL COVER SENSOR	
	F	-	
Display		Sensor and switch names	
Display		School and Switch hames	
2	0	-	
2	0 1		
2	0 1 2		
2	0 1 2 3		
2	0 1 2 3 4		
2	0 1 2 3 4 5		
2	0 1 2 3 4 5 6		
2	0 1 2 3 4 5 6 7		
2	0 1 2 3 4 5 6 7 8		
2	0 1 2 3 4 5 6 7 8 9		
2	0 1 2 3 4 5 6 7 8 9 4		
2	0 1 2 3 4 5 6 7 8 9 8 9 A B		
2	0 1 2 3 4 5 6 7 8 9 8 9 4 8 9 4 8 9 A B C		
2	0 1 2 3 4 5 6 7 8 9 4 8 9 4 8 9 4 8 9 4 8 5 0 7 2 8 9 5 6 7 2 8 9 5 6 7 7 8 9 6 7 7 8 9 6 7 7 8 9 7 8 9 7 8 9 7 8 7 7 7 7 7 7 7 7		
2	0 1 2 3 4 5 6 7 8 9 4 9 4 8 9 4 8 9 A 8 9 4 8 5 5 6 7 7 8 9 4 7 7 8 9 5 6 7 7 8 9 9 4 5 5 6 7 7 8 9 9 6 8 9 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		

• For the positions of senso s and switches, refer to 8. UNIT CONFIGURATION Sensors.

- $\cdot~$ When you check the sensor you cannot touch, manually rotate the gear or cam to switch ON and OFF.
- When you check Right Top Cover Switch (1:1) and Left op Cover Switch (1:2), switch both of them ON and OFF at the same tim
- Check LOWER RIGHT SPOOL SET SENSOR (1:D) with spool lock cover closed.

<OPT SENS CHECK>

- Select [SERVICE MODE > DIAGNOSIS > OPT SENS CHECK] from the operation panel, and check the tatus of multi senso.
- 2. A er the functional diagnosis is ompleted, the diagnosis result (OK or NG) is displayed on the operation panel.
 - · DENSITY SENSOR: The functi nal diagnosis result of density sensor is displayed.
 - EDGE SENSOR: The functi nal diagnosis result of edge sensor is displayed.
 - GAP SENSOR: The functional diagnosis result of GAP sensor is displayed.

	OPT	SENS	CHECK	
DENSITY	SEN	SOR		
				OK
EDGE SE	NSOR			
				0K
GAP SEN	SOR			
				0K

- Main factors of the NG items:
 - The inadequacy of multi sensor op al axis adjustment (SERVICE MODE > ADJUSTMENT > OPTICAL AXIS)
 - The inadequacy of multi sensor GAP alibration (SE VICE MODE > ADJUSTMENT > GAP CALIB)
 - · The failure of multi senso

- For the details of handling, refer to 5-3. Detail of Hardware Error (E code: EC23).

<NOZZLE CHECK>

- Select [SERVICE MODE > DIAGNOSIS > NOZZLE CHECK > RUN > YES] from the operation panel. A er selecting [Y S], execute the functional diagnosis of HEAD MANAGEMENT SENSOR.
 - $\cdot \,$ When [YES] is selected: Non-ejection d tection is xecuted.
 - When [NO] is selected: Returns to the RUN/RESULT screen.
- Return to the menu screen, select [SERVICE MODE > DIAGNOSIS > NOZZLE CHECK > RESULT]. A er [RESULT] is selected, the results of non-ejection d tection (OK/NG) a e displayed per chip position (NG Criteria: When NG nozzles are 50 or more per color).

NOZZLE CHECK				
A1	0K	A2	NG	
B1	0K	B2	NG	
C1	0K	C2	NG	
D1	0К	D2	NG	
E1	0K	E2	MG	
		Ok	[

- The correlation b tween chip positions and olors (Share among all the supported models)

Chip positio	Color						
A1	MBK	A2	MBK	B1	BK	B2	BK
C1	MBK2	C2	MBK2	D1	Y	D2	Y
E1	М	E2	М	F1	С	F2	C

- Main factors of the NG items:
 - The inadequacy of HEAD MANAGEMENT SENSOR UNIT adjustment [SERVICE MODE > ADJUSTMENT > NOZZLE CHK POS]
 - · The failure of HEAD MANAGEMENT SENSOR UNIT

- For the details of handling, refer to 5-3. Detail of Hardware Error (E code: EC22).

<HEAD CNT CHECK>

- Select [SERVICE MODE > DIAGNOSIS > HEAD CNT CHECK > YES] from the operation panel. A er selecting [YES], execute the functional diagnosis of head ontact check.
- 2. A er the functional diagnosis is ompleted, the diagnosis result (OK or NG) is displayed on the operation panel.



- Main factors of the NG items:
 - · Insuffici t print head cleaning
 - · The inadequacy of PRINT HEAD installatio
 - · The failure of PRINT HEAD
 - · The failure of CARRIAGE UNIT

- For the details of handling, refer to 5-3. Detail of Hardware Error (E code: EC21).

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<ANALOG ENCODER CHECK>

- Select [SERVICE MODE > DIAGNOSIS > ANALOG ENCODER CHECK] from the operation panel, and xecute the functional diagnosis of APER FEED ENCODER UNIT.
- 2. The diagnosis result (OK or NG) is displayed on the operation panel
 - · LED level: The diagnosis result of LED light volume adjustment
 - · OUTPUT level: Output results

ANALOG ENCODER CHECK	
LED Level	0K
OUTPUT Level	0K

- Main factors of the NG items:
 - · Paper jam inside the printer
 - $\cdot~$ Film, Timing Slit Disk (paper feed part) is not clean or deformed.
 - · The failure of PAPER FEED ENCODER UNIT
 - · The failure of PAPER FEED MOTOR UNIT

- For the details of handling, refer to 5-3. Detail of Hardware Error (E code: EC11/EC12).

Details of FUNCTION

1) Purpose

The servicing functions (select [SE VICE MODE > FUNCTION] from the operation panel) educe the product

downtime y servicing efficiency and minim e the disposal of ink.

FUNCTION menu	Function descri tio	When to use	
CR LOCK	Returning a carriage to	· When carriage failure-related troubleshoo ng nishes.	
	the home positio		
CR UNLOCK	Releasing the lock of	 To move CARRIAGE UNIT for servicing, and etc. 	
	the carriage without	 To make a func onal diagnosis of PURGE UNIT. 	
	removing the outer cover	· To replace PURGE UNIT.	
		· To manually con rm the movement CARRIAGE UNIT.	
		· To check the condi on of CARRIAGE UNIT visually.	
		\cdot To remove the print head when drawing off $$ nk	
HEAD REPLACEMENT	Removing and installing a	· To replace print head	
	print head again without	· To check the condi on of the print head.	
	withdrawing ink inside	· To check the condi on of the contact por on.	
	the print head	• To inspect or replace any of CARRIAGE UNIT (or INK TUBE UNIT)	
		or ink supply-related unit.	
INK SUPPLY VALVE OPEN	Opening and closing ink	 To drain ink before replacing CARRIAGE UNIT 	
	supply valve (choke valve)	 To drain ink before replacing INK TUBE UNIT 	
	without removing the	\cdot To drain ink from the tube before replacing SUB INK TANK UNIT	
	outer cover		
INK FILLING	Ink fillin	· To replace any of CARRIAGE UNIT (or INK TUBE UNIT) or ink	
		supply-related unit.	

2) How to use servicing functions

<CR LOCK>

- 1. Select [SERVICE MODE > FUNCTION > CR LOCK > YES] from the operation panel
- 2. Move the carriage to the home position, and lock the ap and the carriage.

<CR UNLOCK>

P

- 1. Select [SERVICE MODE > FUNCTION > CR UNLOCK > YES] from the operation panel
- 2. Close the ink supply valve, and release the lock of the carriage.
- 3. The carriage can be moved manually.

oint	Do not replace the print head using CR LOCK and CR UNLOCK. (Use HEAD
	REPLACEMENT when replacing the print head.)

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<HEAD REPLACEMENT>

The print head can be removed and installed without draining the ink from the print head when replacing the print head or checking its condition. hen the printer is launched in the user mode a er this function is used, print head ink filling tarts as per specifi ations

- 1. Select [SERVICE MODE > FUNCTION > HEAD REPLACEMENT > YES] from the operation panel
- 2. The carriage moves to the head replacement position without d aining the ink from the print head, and the print head can be removed and installed.

A er the print head is removed and reinstalled, or replaced, perform printing confirm tion. If equired, perform print head alignment. (It is because slight misalignment of print head installing position m y a ect printing.

<INK SUPPLY VALVE OPEN>

Open supply valves (choke valves) of SUB INK TANK UNITs using this function when d aining the ink from the tube into SUB INK TANK UNIT.

Case (1): When replacing CARRIAGE UNIT or INK TUBE UNIT

- Unlock the carriage from [SERVICE MODE > FUNCTION > CR UNLOCK] in the operation panel, manually
 move the carriage unit to the position whe e the print head can be replaced, then remove the print head.
- Select [SERVICE MODE > FUNCTION > INK SUPPLY VALVE OPEN > OPEN] from the operation panel, and open the supply valves (choke valves) of the right and left SUB INK ANK UNITs.
- 3. Drain the ink from the tube to SUB INK TANK UNIT.
- 4. A er the ink has drained, the CARRIAGE UNIT (or INK TUBE UNIT) can be removed. For how to remove the CARRIAGE UNIT (or INK TUBE UNIT), see <u>6-2. Disassembly Procedures</u>.

Case (2): When replacing SUB INK TANK UNIT

- Unlock the carriage from [SERVICE MODE > FUNCTION > CR UNLOCK] in the operation panel, manually
 move the carriage unit to the position whe e the print head can be replaced, then remove the print head.
- Select [SERVICE MODE > FUNCTION > INK SUPPLY VALVE OPEN > OPEN] from the operation panel, and open the supply valves (choke valves) of the right and left SUB INK ANK UNITs.
- 3. Drain the ink from the tube to SUB INK TANK UNIT.
- 4. A er the ink is drained, SUB INK TANK UNIT can be removed. A er the ink has drained, the SUB INK TANK UNIT can be removed. For how to remove the SUB INK TANK UNIT, see <u>6-2</u>. Disassembly Procedures.

<INK FILLING>

This function is used when filling ink in the pri er a er replacing ink supply-related unit (CARRIAGE UNIT or INK TUBE UNIT).

If this function is xecuted without draining the ink from the tube into SUB INK TANK UNIT, note that the ink in the tube is drained into the maintenance cartridge.

<How to start the service mode a er installing the print head (Recommended procedure 1)>

- 1. Install the print head.
- 2. Launch the printer in the service mode.
- 3. Select [SERVICE MODE > FUNCTION > INK FILLING > YES] from the operation panel
- 4. Ink filling tarts.

<How to start the service mode without installing the print head (Recommended procedure 2)>

- 1. Launch the printer in the service mode.
- 2. Select [SERVICE MODE > FUNCTION > HEAD REPLACEMENT > YES] from the operation panel
- 3. The carriage moves to the print head replacement position. In tall the print head.
- 4. Select [SERVICE MODE > FUNCTION > INK FILLING > YES] from the operation panel
- 5. Ink filling tarts.

<<Precautions>

Do not install the print head using CR UNLOCK and CR LOCK.

	Depending on consumed ink amount of maintenance cartridge, a maintenance
Point	cartridge full error may occur while INK FILLING is executed, therefore, prepare a
	new maintenance cartridge.

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Details of ADJUSTMENT

1) Purpose

Servicing adjustment (select [SERVICE MODE > ADJUSTMENT] from the operation p nel) is required in order to meet the printer functions er parts replacement by printer maintenance or repair service, or a er the parts requiring servicing adjustment. A er the parts listed in 3) The list of the parts requiring servicing adjustment are replaced or the printer is disassembled and assembled, be sure to perform the following adjustments:

2) Details on each adjustment

ADJUSTMENT menu	Adjustment name	Details	
OPTICAL AXIS	Multi sensor o ti al axis adjustment	Multi sensor in talled in the carriage unit varies among printers due to installation p ecision. This adjustment corrects the variatio among printers. Use Canon Glossy Photo Paper HG 170 that the size is A4 or larger in width. (*1)	
GAP CALIB	GAP calibratio	The multi sensor in talled in the carriage unit detects the head- to-paper distance, and adjusts the carriage position depending on that distance. Use Canon Glossy Photo Paper HG 170 that the size is A4 or larger in width. (*1)	
LF TUNING	LF correction (Au omatic	Corrects the horizontal line feed amount to reduce band uneven printing. Use the g eatest width of Canon Glossy Photo Paper HG 170 that can be used for printing f om the printer. Accordingly, the correction an be e ecti e to other kinds of paper. (*1/*2)	
NOZZLE CHK POS	Adjustment of the opti al axis in the head management sensor	Determines the optimal position of the head man ement sensor in order to execute non-ejection d tection or all the nozzles.	
CR REG	Dynamic head alignment	Corrects the ink dot misplacement due to the carriage position (scanning direction). Use the g eatest width of Canon Glossy Photo Paper HG 170 that can be used for printing f om the printer. (*1/*2)	
CR MOTOR COG	Cogging torque control	Controls carriage vibration due o motor cogging torque.	
TOUCH PANEL CALIBRATION	LCD calibratio	Calibrates so that the touch panel function of the ope ation panel can be used properly.	
MANUAL HEAD ADJ	Manual head alignment	When the print result is not improved even by performing the automatic head adju tment, the print head is aligned manually.	
MARGIN ADJ	Margin adjustment	When margins shift during paper eeding, the margin can be manually adjusted.	
LF_ENC_ADJ	LF encoder adjustment	Calculates the paper feeding position/paper eeding speed of the paper feed roller, and the adjustment is performed for moving the paper feed roller properly.	
UPPER_ARB_ CALIB	Upper ARB paper feed unit calibratio	There are load changes by motor individual variation and y gear driving in ARB paper feed unit. These variable factors occur due to the individual variation in ARB paper eed unit, therefore, calibration is xecuted for each unit.	
LOWER_ARB_ CALIB	Lower ARB paper feed unit calibratio	Same as above.	

*1: When Canon Glossy Photo Paper HG 170 is not available, use Canon Premium Glossy Paper 2 280 or Canon Premium Semi-Glossy Paper 2 280.

*2: In each of 24" model, 36" model, and 44" model, use the paper whose maximum size can be used with the printer. If not, the message "Please set the specified si e of paper." is displayed and the subsequent adjustment is not performed. Note that the paper whose width is 42 inch can be used only for 44" model as an exception

3) The list of the parts requiring servicing adjustment

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Service part name	Necessary service adjustment
HEAD MANAGEMENT SENSOR UNIT	· NOZZLE CHK POS
MULTI SENSOR UNIT	· GAP CALIB
	· OPTICAL AXIS
CARRIAGE UNIT	· GAP CALIB
	· OPTICAL AXIS
	· CR MOTOR COG
BELT, CARRIAGE	· CR MOTOR COG
MOTOR, DC, 47.8W	· CR MOTOR COG
CARRIAGE ENCODER UNIT	· CR MOTOR COG
- (*3)	· LF TUNING
PLATEN UNIT, TOP A TO F	· CR REG
PLATEN UNIT, TOP AWAY	
PAPER FEED ENCODER UNIT	· LF_ENC_ADJ
ACTIVE ROLL BRAKE UNIT	· UPPER_ARB_CALIB
	· LOWER_ARB_CALIB
OPERATION PANEL UNIT	TOUCH PANEL CALIBRATION
MAIN PCB UNIT	· LF_ENC_ADJ
	· UPPER_ARB_CALIB
	· LOWER_ARB_CALIB
	TOUCH PANEL CALIBRATION

*3: Perform service adjustment when horizontal band uneven printing occu s.

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4) Servicing adjustment menu level

The following table indicates servicing adjustment menu level. Execute each servicing adjustment command

a er selecting [Y S].

Menu level: Select [SERVICE MODE > ADJUSTMENT] in the operation panel

First h level	Second level	Third level	Fourth level
ADJUSTMENT	OPTICAL AXIS	YES	
		NO	
	GAP CALIB	YES	
		NO	
	LF TUNING	YES	
		NO	
	NOZZLE CHK POS	YES	
		NO	
	CR REG	RUN	YES
			NO
		RESET (*1)	VES
			NO
		VES	
		NO	
		VES	
		1ES	
			VEC
	MANUAL HEAD ADJ		YES
			NU
		PRINT BASIC ADJ	YES
		(*3)	NO
		INPUT ADJ	INPUT ADJ
		(*4)	A01-A36
			B01-B36
		RESET SETTING	YES
		(*5)	NO
	MARGIN ADJ	INPUT TOP MARGIN	-5.0 through 0.0 to 5.0
		(*6)	(mm)
		INPUT BOTTOM MARGIN(*7)	-5.0 through 0.0 to 5.0
			(mm)
		PRINT PATTERN (*8)	YES
			NO
	LF_ENC_ADJ	YES	
		NO	
	UPPER ARB CALIB	YES	
	(*9)	NO	
	LOWER ARB CALIB	YES	
	(*9)	NO	

*1: Reset all the dynamic head alignment values to zero.

*2: Print all the print head alignment pa erns. (Note that the print head alignment pa ern di ers between user mode and service mode).

*3: Print two-way print head alignment pa ern only.

*4: Input the print head alignment value.

Check print head alignment pa ern visually, and select the best print quality pa ern in the following each group:



- A01-A36: Even-odd print head alignment value (printing d rection: rom HOME side to away side, select setting alue from 0 to 20).
- B01-B36: Even-odd print head alignment value (printin direction From away side to HOME side, select setting alue from 0 to 20).
- · C01-C36: Color separation pri t head alignment value (select setting alue from 0 to 20).
- · D01-D38: Two-way print head alignment value (select setting alue from 0 to 20).
- E01-E12: Verti al print head alignment value (select setting alue from 0 to 4).
- F01: Slanted print head alignment value (select setting alue from 0 to 12).
- · Register the alignment value by pressing [REGISTER].
- *5: Reset print head alignment value.
- *6: Input top margin alignment value. (If the adjustment is needed a er visually checking the pa ern for checking margins).
- *7: Input bo om margin alignment value. (If the adjustment is needed a er visually checking the pa ern for checking margins).
- *8: Print the pa ern for checking margins.
 - · Horizontal line width: 1 dot, verti al line width: 32 dots
 - · Top/bo om/left and rig t: 5 mm
 - $\cdot~$ Line for checking top/bo ~ om margins: 8 mm from the end
 - $\cdot~$ Printing len th: 100 mm
 - · Ink color: BK
- *9: Execute without the roll paper and spool installed. (If executed with the roll paper and spool installed, an error occurs.)

Chapter 1

Chapter 6

Details of TEST PRINT (1)

1) Purpose

Print the service nozzle check pa ern to check if ink is properly ejected from the print head nozzles. Note that the specifi ations of the n zzle check pa ern varies between user mode and service mode. This information is required for the analysis of printer troubles escalated to Canon Inc.

- User mode: Non-ejection of ink is i terpolated when the nozzle check pa ern is printed.
- · Service mode: Non-ejection of ink is not i terpolated when the nozzle check pa ern is printed.

2) How to print the service nozzle check pattern

- 1. Select [SERVICE MODE > TEST PRINT > SERVICE NOZZLE CHECK > YES] in the operation panel
 - When [YES] is selected: The service nozzle check pa ern is printed.
 - When [NO] is selected: Returns to the TEST PRINT screen.
- 2. The following information should be pri ted in service nozzle check pa ern (see the print sample):
 - · Printer name
 - · Print date
 - · Printer serial number
 - · Print head LOT number
 - · Date of print head installation
 - · Refill ink ank usage log (NINK)
 - · Service nozzle check pa ern
 - · Last implementation d te of cleaning
 - Cleaning: A-12 (CAP-A and CAP-B), A-1 (CAP-A), A-2 (CAP-B)
 - Deep cleaning: R-12 (CAP-A and CAP-B), R-1 (CAP-A), R-2 (CAP-B)
 - System cleaning: S-12 (CAP-A and CAP-B), S-1 (CAP-A), S-2 (CAP-B)

3) Service nozzle check pattern print (sample)



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Chapter 7

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Chapter 5

4) How to read nozzle check pattern & troubleshooting

How to read nozzle check pa ern



All color complete non-ejection of in



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Chapter 5

One-color or multi- olor complete non-ejection of in



Chapter 7

Chapter 1

Chapter 2

Chapter 3

Chapter 4

Chapter 5

All non-ejection of ink of Line A or Line



756 | **7-2. Service Mode** SM-17001E-00


Per 2 nozzles

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Dot mis-alignment



Dot mis-alignment

Double vertical line





Chapter 1

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Chapter 1

Chapter 2

760 **7-2. Service Mode** SM-17001E-00

Non-ejection of ink without egularity of line



Chapter 3

Chapter 1

1) Purpose

The detailed information on pri ter usage and the previous service records, etc. can be obtained as service log (PRINT INF). This information is equired for the analysis of printer troubles.

2) How to obtain service log (PRINT INF)

The service log can be obtained by using service mode or iPF PRO Service Tool. This section xplains the method using service mode. For how to obtain the service log using iPF PRO Service Tool, see <u>7-4. iPF PRO</u> <u>Service Tool</u>.

- 1. Select [SERVICE MODE > TEST PRINT > PRINT INF > YES] in the operation panel
- 2. The service log is printed.

3) The contents recorded in service log (PRINT INF)

The contents recorded in service log are almost the same as the ones displayed in each menu of [SERVICE MODE > PRINTER STATUS]. Therefore, see <u>Details of PRINTER STATUS</u>. for details of each item of service log. For the items recorded in the service log only, see service log print sample from the page onwards.

Chapter 4

4) Service log (PRINT INF) print sample

See <u>Details of PRINTER STATUS</u> regarding SYSTEM INFO, ERROR LOG, PARTS COUNTER, CLEANING LOG, SERVICE LOG, HEAD USAGE LOG, INK USAGE LOG, OTHER CONSUMABLES USAGE LOG, and USER COMMAND LOG indicated by red square in the following print sample



CLEANING LOG A-AB 4(2) 2017/04/24, 2017/04/03, 2017/04/03 EX 5 2017/04/13 H 0 *****/**/** A-A 0(0) *****/**, ****/**, ****/**, ****/** T1 0 *****/** T2 0 *****/**/** A-B 5(0) 2017/04/03, 2017/03/30, 2017/03/27 C 2 2017/04/13 FI-AB 0	ER."
****/**/** A-A 0(0) *****/**, ****/**, ****/**, ****/** T1 0 ****/**/** T2 0 ****/**/** A-B 5(0) 2017/04/03, 2017/03/30, 2017/03/27 C 2 2017/04/13 FI-AB 0	
*****/*** A-B 5(0) 2017/04/03, 2017/03/30, 2017/03/27 C 2 2017/04/13 FI-AB 0	
A-B 5(0) 2017/04/03, 2017/03/30, 2017/03/27 C 2 2017/04/13 F1-AB 0	
****/**	
S-AB 11(9) 2017/04/18, 2017/04/04, 2017/04/04 FI-A 0 ****/** FI-B See	CLEANING
S-A 0(0) ****/**, ****/**, ****/**, ****/**/** IR-AB 1 2017/04/13 IR-A	LOG."
****/**/ S-B 0(0) ****/**/**, ****/**, ****/**/** IR-B 0 ****/**/** R-AB 3(3) 2017/04/03, 2017/03/30, 2017/02/22 R-A 0(0) ****/**/**, ****/**/**, ****//**/** R-B 2(2) 2017/04/25, 2017/04/25, ****/**/**	
SERVICE ADJUSTMENT LOG GAP_CALIB 2016/07/26 OPTICAL_AXIS ****/** CR_MOTOR_COG 2017/04/25 CGC_REG	
****/**/** LF_TUNING 2017/04/13 CR_REG TOUCH PANEL CALIBRATION ****/**/** UPPER_ARB_CALIB ****/**/** LOWER_ARB_CALIB 2017/04/13 LF_ENC_ADJ 2017/04/12 L	"SERVICE _OG."
PCB REPLACEMENT LOG 01: 2017/02/22 2 02: ****/**/** 0 03: ****/**/** 0 04: ****/**/** 0 05: ****/**/** 0 06: ****/**/** 0 07: ****/**/** 0 08: ****/**/** 0 09: ****/**/** 0 10: ****//**/** 0 PV AUTO JUDGE : ON(NORMAL) , 0	0
PV AUTO JUDGE (ON/OFF): Ink reduction mode setting information	
ON: Normal mode (cleaning is executed at the specified timing regard	less of PVA
OEE: AUTO mode (the number of cleaning is reduced depending on P	
OFF. AGTO mode (the number of cleaning is reduced depending on P	



DIAGNOSIS I CR SYSTEM PURGE CHE NOZZLE CH HEAD CNT OPT SENS ANALOG EN	NFO CHECK ****/** ACC.SENSOR ** FFC ** CR Vib. ** CK ****/** ** ECK ****/** ** CHECK ****/** ** CHECK 2017/04/26 DENSITY OK EDGE OK GAP OK CODER CHECK 2017/04/12 LED LEVEL OK OUTPUT LEVEL OK
USER COMMAN	D L 0G Indicates carriage height. (Unit: 1/100 mm)
ADJUSTMEN No: ADJ.T 1:auto(2: 3: 4: 5:	T T
D:auto(d) A(2,3) 27Č 81F 34% Coated Paper 2017/04/13 09:02 140, 160 🦊
JOB LOG N:M HEAD 1:C3 A(2) ********	TEMP&HUM MEDIA TYPE DATE TIME GAP JOB NAME 27C 81F 35% Plain Paper 2017/04/25 18:36 140 ***************
******	***************************************
****** 2:C3 A(2) ******	27C 81F 35% Plain Paper 2017/04/25 17:43 140
*****	***************************************
****** 3:C3 A(2) *******	27C 81F 35% Plain Paper 2017/04/25 17:00 140
*****	***************************************
****** 4:A4 A(4) ********	27C 81F 35% Plain Paper 2017/04/25 16:51 180
*****	*****
****** 5:C2 A(2) *******	27C 81F 35% Plain Paper 2017/04/25 16:04 140
********** *****	********
	JOB LOG: The latest five print job logs are displayed.
	- N: The smaller figure shows the newer log (1 to 5)
	- M: Print mode
	- HEAD: Head height (Automatic or fixed, height)
	- TEMP&HUM: Temperature and humidity
	- MEDIA TYPE: Type of media
	- DATE: Date of printing
	- TIME: Time of printing
	- GAP: Carriage height (Unit: 1/100 mm)
	- JOB NAME: Not displayed for personal information (Indicated by 128 asterisks)



NOTE: The above logs are reference information equired for the analysis of the escalated printer troubles.



NOTE: The above logs are reference information equired for the analysis of the escalated printer troubles.

Chapter 6

anon TX-3000 PV INFO DET	PRINT INF S/N AILS	:********* Fin	m:00.	**RC1 Boot:0	0.** Date:20	17/04/26			Chapt
MEDIA 1 NAME TTL ROLL1 ROLL2	: Plain Paper : 305.6 m2 : 235.8 m2 : 66.8 m2	3289.5 sq.f 2539.0 sq.f 719.6 sq.f		MEDIA 2 NAME : TTL : ROLL1 : ROLL2 :	Coated Paper 11.6 m2 3.3 m2 8.1 m2	125.5 sq.f 35.5 sq.f 87.2 sq.f)		er 1
CUISHEET MEDIA 3 NAME TTL ROLL1 ROLL2 CUTSHEET MEDIA 5	: 2.8 m2 : GlossyPhotoHG : 0.3 m2 : 0.0 m2 : 0.0 m2	30.8 sq.f 170 3.3 sq.f 3.3 sq.f 0.0 sq.f 0.0 sq.f		CUISHEET : MEDIA 4 NAME : TTL : ROLL1 : ROLL2 : CUTSHEET : MEDIA 6	0.2 m2 0.0 m2 0.0 m2 0.0 m2 0.0 m2	2.6 sq.f 0.0 sq.f 0.0 sq.f 0.0 sq.f 0.0 sq.f			Chapter 2
NAME TTL ROLL1 ROLL2 CUTSHEET MEDIA 7 NAME	: 0.0 m2 : 0.0 m2 : 0.0 m2 : 0.0 m2 : 0.0 m2	0.0 sq.f 0.0 sq.f 0.0 sq.f 0.0 sq.f		NAME : TTL : ROLL1 : ROLL2 : CUTSHEET : MEDIA OTHER NAME :	0.0 m2 0.0 m2 0.0 m2 0.0 m2 0.0 m2 0.0 m2	0.0 sq.f 0.0 sq.f 0.0 sq.f 0.0 sq.f		See Appendix 4.	Cha
TTL ROLL1 ROLL2 CUTSHEET	: 0.0 m2 : 0.0 m2 : 0.0 m2 : 0.0 m2	0.0 sq.f 0.0 sq.f 0.0 sq.f 0.0 sq.f		TTL : ROLL1 : ROLL2 : CUTSHEET :	0.0 m2 0.0 m2 0.0 m2 0.0 m2	0.0 sq.f 0.0 sq.f 0.0 sq.f 0.0 sq.f			pter 3
MEDIA SIZE1 0-17: 24-36: 44-50: 60- MEDIA SIZE1	ROLL P-SQ/P-CN 10.2 m2 20.5 m2 0.3 m2 0.0 m2 CUT P-SO/P-CNT	T 110.1 sq.f 220.8 sq.f 3.3 sq.f 0.0 sq.f	164 329 5 0	17-24: 36-44: 50-60:	16.6 m2 266.6 m2 0.0 m2	179.2 sq.f 2870.0 sq.f 0.0 sq.f	267 4275 0		Ch
0-17: 24-36: 44-50: 60- :	3.1 m2 0.0 m2 0.0 m2 0.0 m2 0.0 m2	33.5 sq.f 0.0 sq.f 0.0 sq.f 0.0 sq.f 0.0 sq.f	50 0 0	17-24: 36-44: 50-60:	0.0 m2 0.0 m2 0.0 m2	0.0 sq.f 0.0 sq.f 0.0 sq.f			apter 4

NOTE: The above logs are reference information equired for the analysis of the escalated printer troubles.

Appendix 1: Detailed information of H AD and INK (reference information

Items		Print number or	Print contents
HEAD	HEAD INF.1	1	Print head installation d te and time (La t three cases)
	LOT:*****	2	Print head removal date and time La t three cases)
	Currently-installed print head	3	Serial number of the printer with the applicable print he
		5	(Last three cases)
		Δ	Number of cleaning A-I (AB can)
	HEAD INF.2	5	Number of cleaning A-II (A can)
	LOT:***** **	6	Number of cleaning A-III (B can)
	Previously-installed print head	7	
		, o	Number of cleaning P L (AP can)
		0	Number of cleaning R-II (A cap)
		10	Number of cleaning R-II (A cap)
		10	
		11	
		12	Number of cleaning S-I (AB cap)
		13	Number of cleaning S-II (A cap)
		14	Number of cleaning S-III (B cap)
		15	-
		16	Number of cleaning EX-I (Ink removal at the head
			replacement)
		17	Number of cleaning H-I (Ink filling t the head
			replacement)
		18	Number of cleaning T1-I (Transport outdoors)
		19	Number of cleaning T2-I (Move indoors to a di erent flo
			Move indoors on the same floor
		20	-
		21	Number of cleaning C-I (on arrival)
		22	Number of cleaning FI-I(ink filling t the installation e
			printer transportation
		23	Internal information (Not used in se vicing)
		24	Internal information (Not used in se vicing)
		25	Internal information (Not used in se vicing)
		26	Internal information (Not used in se vicing)
		27	Internal information (Not used in se vicing)
		28	Internal information (Not used in se vicing)
		29	Number of sheets printed (in A4 equivalent)
		31	Error log
			NOTE: Error log recorded in head EEPROM (Last six case
		33	History of fir ware version and updated date (last three
			cases)
		34	Head highest temperature (per chip A: *** B: ***)
		35	-
INK	THE NUMBER OF	INK-TTL	Accumulated number of genuine ink tank replacement
	REPLACEMENT		total)
			NOTE: Also counted up when the same ink tank is
			reinstalled.
		NINK-TTL	Accumulated number of refill ink ank replacement (in
			total)
			NOTE: Also counted up when the same ink tank is
			reinstalled.
		INK	Accumulated number of genuine ink tank replacement (
			color)
		NINK	Accumulated number of refill ink ank replacement (per
			color)
	DAYS AFTER INK CARTRIDGE	CURRENT	Days a er the installation of the cur ently-installed ink
	INSTALLATION		tank (per color)

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Appendix 2:	Detailed	information	of PRINTER	OG	(reference	information
rependin 2.	Dettanea	mormation	OTTINI	00	liciciciicc	mormation

Items		Print number or	Print contents
		print name	
PRINTER LOG	POWER	POWER-ON	Cumulati e power-on tim
	SLEEP	SLEEP-ON	Cumulati e sleep-on tim
	CARRIAGE	PRINT	Cumulati e printing ti
		DRIVE	Cumulati e carriage moving tim
		CR-COUNT	Cumulati e carriage scan count (count as 1 by moving back
			and forth)
		CR-DIST.	Accumulated carriage scan length
		CAPPING-	Accumulated number of capping
		COUNT	
		WIPE	Number of wiping
		HEAD POS	Head Position shift set value
		OFFSET	NOTE: Number of criterial-height o set pulse
		CGC-FLG	Setting NOTE: To check whether adjustment is executed or not.
		CR_LIFT	Number of CR li
	lif	1	[[Initial ink filling log
			Number of recovery purging
		2	Initial ink filling flag formatio
		3	The time u til the d tection of emaining amount of the initial -filled ink is O
		4	Number of filling the tube with in
		5	Initial ink filling
		6	Temperature and humidity at initial s tting t power-on)
		7	Flag split and display at initial ink filli
	MV_LV1	1	[[Transportation log m ving indoors (carrying)]]
			Number of recovery purging
		2	Initial ink filling flag formatio
		3	The time u til the d tection of emaining amount of the
			initiall -filled ink is O
		4	Number of filling the tube with in
		5	Initial ink filling
		6	Temperature and humidity at initial stting t power-on)
		7	Flag split and display at initial ink filli
	MV_LV2	1	[[Transportation log m ving indoors (steps/elevator)]]
			Number of recovery purging
		2	Initial ink filling flag formatio
		3	The time u til the d tection of emaining amount of the
			initial -filled ink is O
		4	Number of filling the tube with in
		5	Initial ink filling
		6	Temperature and humidity at initial s tting t power-on)
		7	Flag split and display at initial ink filli
	MV_LV3	1	[[Transportation log ransporting ou doors]]
		-	Number of recovery purging
		2	Initial ink filling flag formatio
		3	The time u til the d tection of emaining amount of the
		4	Number of filling the tube with in
		5	Initial ink filling
		6	Temperature and humidity at initial s tting t power-on)
		7	Flag split and display at initial ink filli

Items		Print number or print name	Print contents
	A_ENC	1	LF analog encoder central voltage (ADJUST_OFSET_A)
		2	LF analog encoder central voltage (ADJUST_OFSET_B)
		3	LF analog encoder amplitude magnifi ation (A JUST_
			ODDS_A)
		4	LF analog encoder amplitude magnifi ation (A JUST_
			ODDS_B)
		5	LF analog encoder current value (CURRENT)
	HDD_SMART	ID	ID
		Current	Current value
		Worst	Worst value
		Threshold	Threshold
		Data	Data
	MULTI SENSOR		Address dump value and PT_SENS_CHECK detailed
			information of multi sensor EE OM is displayed.
			<pre><opt_sens_check detailed="" information<="" pre=""></opt_sens_check></pre>
			(1) Selected media (SELECTED MEDIA)
			(2) LED output value per color (Red, green, and blue)
			at media edge
			(4) Output value in GAP detectio
			The output value indicates the following information
			(results of the last light quantity adju tment):
			- Media output (MEADIA)
			- Outside light output (LEDOFF)
			- Platen output (PLATEN)
			- Gain (GAIN)
			I- CURRENT)

Appendix 3: Information of HDD_SMA T (reference information

HDD_SMART is SMART information of eneral hard disk drive. Only the items helping your troubleshooting are included in the table below.

<Estim ted causes when the value of any one of the following IDs is larger than a threshold value or zero>

1) ID: 01, 05, C3, C4, C5, or C6

It is highly possible that only hard disk drive is defectie. If the value of any one of the above IDs is zero, it is highly likely that not hard disk drive cable or main board is defectie.

2) ID: D2, D3, D4, DC, DD, or E4

Check the printer installation e vironment as the printer may be vibrated or shocked, or instantaneous power failure may occur.

ID	Item name	Details
01	Raw Read Error Rate	Indicates the rate of errors occurring when reading the raw data from hard disk. If the value is below a threshold value, a magnetic disk or magn tic head in the hard disk are abnormal.
05	Reallocated Sectors Count	Number of defecties esectors that the alternaties action (the destails reallocated to the backup area) is taken.
C3	Hardware ECC recovered	Number of errors detected by ECC (Error Correction Co d)
C4	Reallocation vent Count	Number of alternati e action or sectors
C5	Current Pending Sector Count	Number of sectors that is currently abnormal and waits for alternatie a action
C6	O -Line Scan Uncorrectable Sector	Total number of uncorrectable sectors discovered in o -line scan. If this
	Count	value increases, there is a clear problem with a magnetic disk sur ace.
D2	Vibration During rite	Indicates large vibration during writing the ta.
D3	Vibration During ead	Indicates large vibration during eading the data.
D4	Shock During Write	Indicates large shocks during writing the d ta.
DC	Disk Shi	Disk (pla er) shift di tances shi ed from the original fi ed position due o shocks
DD	G-Sense Error Rate	The rate of errors occurring due to shocks on hard disk. The shocks are detected by the sensor in the hard disk.
E4	Power-Off etract Count	Number of urgent magnetic head etraction y hard disk compulsory stoppage due to power-o

Appendix 4: Detailed information of VINFO DETAILS (reference information

apte	Items		Print number or	Print contents
r r				Name of source types of modia with large symulatics print
4		MEDIA I (07	INAIVIE	area
			тті	Total print area of seven types of media with large
				cumulati e print area
			ROLL	Roll paper print area of seven types of media with large
C .				cumulati e print area
lap			ROLL2	Roll paper print area of seven types of media with large
ite				cumulati e print area
r 2				NOTE: For the printer supporting op and bo om paper
				rolls only.
			CUTSHEET	Cut sheet print area of seven types of media with large
				cumulati e print area
0		MEDIA OTHER	NAME	OTHER
ha			TTL	Total print area of media other than seven types of media
ipt				with large cumulatine print area
er			ROLL	local roll paper print area of seven types of media with
ω				Poll paper print area of seven types of modia with large
			ROLLZ	cumulati, e print area
				NOTE: For the printer supporting op and bo om paper
				rolls only.
9			CUTSHEET	Total cut sheet print area of seven types of media with
lap				large cumulati e print area
ite		MEDIA SIZE1 ROLL	60-	Print area of roll paper equal to or larger than 60 inches
r 4		P-SQ/P-CNT		(by physical size)
			50-60	Print area of roll paper
				(50 or larger inches, less than 60 inches) (by physical size)
			44-50	Print area of roll paper
0			26.44	(44 or larger inches, less than 50 inches) (by physical size)
ha			36-44	Print area of roll paper
pt			24.20	(36 or larger inches, less than 44 inches) (by physical size)
er			24-30	(24 or larger inches less than 26 inches) (by physical size)
G			17-24	Print area of roll paper
			1/-24	(17 or larger inches less than 24 inches) (by physical size)
			0-17	Print area of roll media less than 17 inches
				(by physical size)
Ch		MEDIA SIZE1 CUT	60-	Print area of cut sheet equal to or larger than 60 inches
lap		P-SQ/P-CNT		(physical size)
ite			50-60	Print area of cut sheet
6				(50 or larger inches, less than 60 inches) (by physical size)
			44-50	Print area of cut sheet
				(44 or larger inches, less than 50 inches) (by physical size)
			36-44	Print area of cut sheet
				(36 or larger inches, less than 44 inches) (by physical size)

24-36

17-24

0-17

Print area of cut sheet

Print area of cut sheet

(24 or larger inches, less than 36 inches) (by physical size)

(17 or larger inches, less than 24 inches) (by physical size)

Print area of cut sheet less than 17 inches (by physical size)

*Unit: m² and sq.f are used.

Details of E-RDS

1) Purpose

E-RDS of service mode menu enables the E-RDS setting or communicating with U W. If the remote service is provided using UGW, it is necessary to enable the E-RDS setting and pe orm the connection s ttings or remote service. (For details on the settings, se <u>3-2. Connection s ttings or remote service</u>.)

E-RDS menu	Items to be set	Setting tails/Items to be displayed
CA-CERTIFICATE	E-maintenance certi ate	Display of CA-certi ate information or E-RDS
		• When the cer cate is valid: The validated date is displayed.
		• When the cer cate is deleted: NOT INSTALLED is displayed.
E-RDS SETUP	E-RDS setup	· E-RDS ON/OFF se ng
		· URL of UGW is displayed.
		· UGW port number display
		· E-RDS communica on test
		· Communica on log display (30 cases)
		· DISPLAY se ng
E-RDS OTHERS	Other settin	· Dele on of CA-cer cate informa on for E-RDS
		· E-RDS data ini aliza on

2) Setting procedures

For the setting ocedures and communication check, see 2) S ttings ocedures in <u>3-2 Connection s ttings or remote service</u>.



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3) E-RDS menu level

The following table indicates [E-RDS] menu level. Execute [E-RDS] command a er selecting [Y S].

Menu level: Select [SERVICE MODE > E-RDS] in the operation panel

Second level	Third level	Fourth level	Fifth I vel	Sixth level	Details
CA-CERTIFICATE	VALIDITY yyyy/mm/dd				CA-certi ate is valid.
					(The validated date is
					displayed).
	NOT INSTALLED				CA-certi ate is deleted.
E-RDS SETUP	E-RDS SWITCH	ON			Whether E-RDS is used or no
					is set.
		OFF (default)			ON: E-RDS is used.
					OFF: E-RDS is not used.
	UGW ADDRESS	http://********			UGW address is displayed.
		****			The number of the part
					communicating with LIG is
					displayed.
	COM-TEST	VFS			The communication est with
	(*1)				UGW is executed.
	. ,				YES: COM-TEST is executed.
		NO			NO: Returns to the previous
					screen.
	COM-LOG	No.01 *******	****		The information on the
	(*2)	yyyy/mm/dd hh:mm	*****		communication er or with
		N0.02 *******	***********		UGW is displayed.
	DISPLAY SETTING	TTL PRINT AREA	ON (default)		Display setti
					display of total print area)
			OFF		
		INK CONSUMED	ON (default)		Display setti
					(The setting of disp y/
			OFF		consumed ink)
		DUTY CNT	ON (default)		Display setting (The tting o
					display/non-display of DUTY
			OFF		counter)
		DISPLAY DECIMAL	TTL PRINT AREA	ON (default)	Setting of decimal po t
				OFF	display
					(total print area)
					display
				OFF	(amount of consumed ink)
			DUTY CNT	ON (default)	Setting of decimal po t
				OFF	display (DUTY counter)
		UNIT	TTL PRINT AREA	LENGTH UNIT	Unit setti
				(default)	(total print area)
				A4	
				LETTER	
			DUTY CNT	LENGTH UNIT	Unit settin
				A4 (default)	(DUTY counter)
				LETTER	
L			1	1	1

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E-RDS OTHERS	DELATE CA-KEYS	YES		YES: CA-certi	ate is deleted.
		NO		NO: Returns to	o the previous
				screen.	
	NORESET E-RDS DAT	YES		YES: E-RDS init	ti lizatio
				NO: Returns to	o the previous
		NO		screen.	·

*1: COM-TEST behavior

- While COM-TEST is executed, "CHECK NOW..." is displayed.
- · COM-TEST cannot be cancelled halfway (no operations a e accepted until the est results are obtained).
- A er COM-TEST finishes, the ollowing message is displayed:
 - If the communication est succeeds: CHECK RESULT: OK
 - If the communication est fails: CHECK RESULT: NG
- · If no test results are obtained even though 60 seconds have passed a er COM-TEST started, the communication est is views as a failure, and the message to that e ect is displayed.

*2: COM-LOG communication speci ation

- 30 cases of the communication logs a e displayed. (The log number "1" is the latest one).
- $\cdot\,$ COM-LOG communication er or information is displyed up to 128 characters per case.
- When there is no detailed COM-LOG information, "NO ER OR DETAILS" is displayed.



7-2. Service Mode | 777 SM-17001E-00

Details of OTHERS

1) Purpose

In [OTHERS] of [SERVICE MODE] menu, perform the service menus in the following table if needed:

OTHERS menu	Items	Setting tails
RTC SETTING	RTC time and d te	The time and d te a er replacing I/F PCB UNIT or bu on ba ery
		are set.
		NOTE:
		Be sure to set the RTC time and d te as the time tamp of each log
		information ecorded in Print INF is incorrect if the time and d te
		are not set.
PV AUTO JUDGE	Waste ink reduction mode	The waste ink reduction mode s tting is witched between ON and
		OFF.
PRINT HEAD INFO	Print head warranty	Set the display/non-display of "print head information" in the
SETTING	information displ y setti	operation panel
HDD BOX PW INIT	Passwords for the BOX in HDD	The passwords for the BOX in HDD are returned to the factory
		settin
		NOTE:
		Use this menu if the user forgets the password by himself/herself.
FIRMWARE	Firmware update	The fir ware is updated by installing USB flash dri e in the printer.
UPDATE(USB)		
GET PRINT INF (USB)	Acquisition of PRINT INF	The PRINT INF information is tored in the USB flash dri e. (To be
	informatio	stored in text format).
GET ENCRYPTING	Acquisition of serial log	The serial log information is tored in the USB flash drie. (As the
LOG(USB)	informatio	file is enc ypted, it cannot be confirmed t the sales companies'
		side. A ach the serial log information file when e alating the
		problem to CINC.
DELETE	Deletion of serial log	Only the serial log information tored in HDD is deleted.
ENCRYPTING LOG	informatio	

2) OTHERS menu level

The following table indicates [OTHERS] menu level. Select [YES] to execute the following menu:

HDD BOX PW INIT, FIRMWARE UPDATE(USB), GET PRINT INF (USB), GET ENCRYPTING LOG(USB), DELETE

ENCRYPTING LOG

Menu level: Select [SERVICE MODE > OTHERS] in the operation panel

Second level	Third level	Fourth level	Details
RTC SETTING	DATE SETTING	yyyy/mm/dd	A er replacing the applicable parts (I/ F PCB UNIT or bu on ba ery), enter
	TIME SETTING	hh:mm	Greenwich Mean Time (GMT). A er DATE and TIME is set, restart the printer.
PV AUTO JUDGE (*1)	ON		ON: Standard mode (Cleaning is performed at the predetermined timing regardless of print volume)
	OFF (default)		OFF: AUTO mode (The frequency of cleaning is reduced depending on the print volume)
PRINT HEAD INFO SETTING	ON (default)		ON: Displays print head warranty information on the ope ation panel
	OFF		OFF: Print head warranty information is not displayed on the operation panel

HDD BOX PW INIT	ALL BOX	YES	YES: Returns the password for all the BOXs to the factory settin
		NO	NO: Returns to the screen for selecting BOX.
	BOX 1 to BOX 29 (*2)	YES	YES: Returns the password for the specified B X to the factory settin
		NO	NO: Returns to the screen for selecting BOX.
FIRMWARE UPDATE	The screen for	YES	YES: Update the fir ware.
(USB) (*3)	selecting fi ware	NO	NO: Returns to the screen for selecting fir ware.
	No USB flash dri e. Please set.	When a USB flash dri e is installed, the screen transits to the screen for selecting fi ware	When USB flash dri e is not installed
GET PRINT INF (USB)	YES		YES: The PRINT INF information is
	NO		stored in the USB flash dri e. NO: Returns to the OTHERS menu.
GET ENCRYPTING LOG(USB)	YES		YES: The serial log information is tored
	NO		in the USB flash dri e. NO: Returns to the OTHERS menu.
DELETE ENCRYPTING LOG	YES		YES: Only the serial log information
	NO		stored in HDD is deleted. NO: Returns to the OTHERS menu.

*1: Low print volume users select [**PV AUTO JUDGE**] to resolve printing ailure due to air bubbles created by ink left in the tubes

- *2: Scroll the screen to select the BOX whose password is to be reset.
- *3: How to use FIRMWARE UPDATE(USB)
 - 1) Save the fir ware to be updated to the USB thumb drive. (Advance preparation
 - 2) Install the USB thumb drive in the printer.
 - 3) Select [SERVICE MODE > OTHERS > FIRMWARE UPDATE(USB)] in the operation panel. If a USB flas drive is not installed, the message "No USB flash dri e. Please set." is displayed. Then when the USB flash dri e is installed in the printer, the message "A USB flash dri e is connected." is displayed, and the screen transits to the screen for selecting fi ware.
 - 4) The screen transits to the screen for selecting fi ware.
 - 5) Select the fir ware to be updated. (File format: *******.fdl)
 - 6) Select [YES]. If the file ormat of the file ou select is not "********.fdl," or if the fir ware of the product di erent from the one you want to update is selected, "File format is invalid." is displayed, and the screen transits to the OTHERS screen.
 - 7) The message "Executing..." appeas, and the fir ware update is executed. If an error occurs during updatin, the message "Firmware update error." is displayed and the screen transits to the [OTHERS] menu window.
 - 8) When the fir ware update is completed, the printer restarts automati ally.

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	Notes in firmware update
	It takes approx. 20 minutes to update the fir ware. If the printer is turned off during upd ting
	the rmware, the main board is damaged. Do not turn the printer o during fir ware updati g.
Point	When a warning message such as "The maintenance cartridge is full. Replace the maintenance
	cartridge." is displayed on the operation panel, elease the warning fi st, then perform the
	fir ware update.
	Notes in using USB thumb drive
	Note that NTFS-format USB flash dri e is not supported. If a NTFS-format USB flash dri e is
Point	connected to the printer, there is no response from the operation panel, and the sc een does
	not transit to the next one.
	Notes in storing serial logs
	If USB memory capacity is insuffici t, or if the serial log data cannot be wri en for some
	reason in spite of suffici t USB memory capacity, an access error is displayed a er Execute is
Point	executed.
	As the le size of serial logs is nearly up to 3GB, it is recommended to use a USB ash drive with
	the capacity of 3GB or larger.

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7-3. PCB Replacement Mode

1) Purpose

The PCB replacement mode is to be used in order to take over the printer-specific d ta (adjustment value, settings, tc.) to the new PCB when MAIN PCB UNIT or BACKUP PCB UNIT is replaced.

2) Procedures for taking over the data

When the service mode is launched a er MAIN PCB UNIT or BACKUP PCB UNIT is replaced, the printer automati ally transits to the PCB replacement mode. See the following the procedures for taking over the data.

<When MAIN PCB UNIT is replaced>

- 1. A er replacing the MAIN PCB UNIT, start the printer in the service mode. (Do not start the printer with the network cable connected).
- 2. A er the message "RESTORE PRINTER DATA FROM BACKUP PCB?" is displayed on the operation panel, select "YES."
- 3. A er the data is taken over, the message "COMPLETED. PLEASE TURN OFF THE PRINTER." is displayed. Press the Power bu on to turn off the pri ter. (Do not plug off the p wer cord to turn off the pri ter.) If "NO" is selected in the step 2, the message "PLEASE TURN OFF THE PRINTER." is displayed.

<When BACKUP PCB UNIT is replaced>

- 1. A er replacing BACKUP PCB UNIT, start the printer in the service mode. (Do not start the printer with the network cable connected).
- 2. A er the message "SAVE PRINTER DATA TO BACKUP PCB?" is displayed on the operation pane , select "YES."
- A er the data is taken over, the message "COMPLETED. PLEASE TURN OFF THE PRINTER." is displayed.
 Press the Power bu on to turn off the pri ter. (Do not plug off the p wer cord to turn off the pri ter.)
 If "NO" is selected in the step 2, the message "PLEASE TURN OFF THE PRINTER." is displayed.

NOTE:

When the date of the PCB replacement mode is taken over a er the MAIN PCB UNIT and BACKUP PCB UNIT are replaced at the same time, the adju tment value and settings t the factory is lost. In case of replacing both MAIN PCB UNIT and BACKUP PCB UNIT, replace one PCB and take over its data, then replace the other one and take over its data.

3) Items required by readjustment

A er MAIN PCB UNIT is replaced, some adjustments require resetting as those adj tments include the driver IC characteristic of the MAIN PCB UNI. The following items require readjustment:

· LF encoder adjustment

[Operation panel > SE VICE MODE > ADJUSTMENT > LF_ENC_ADJ]

· Upper ARB paper feed unit calibratio

[Operation panel > SE VICE MODE > ADJUSTMENT > UPPER_ARB_CALIB]

Lower ARB paper feed unit calibratio

[Operation panel > SE VICE MODE > ADJUSTMENT > LOWER_ARB_CALIB]

4) Notes on executing PCB replacement mode

Note that the following information is not estored even the PCB replacement mode is executed a er the main PCB is replaced:

- Printer media information (paper s ttings and c tom media information, head ap, vacuum strength)
 It is required to advise the customer to reset media information and o reset custom media information using MCT.
- · Color calibration alue

If the customer use color calibration, it is equired to advise the customer to perform color calibration er repairing.

· Remote service transmission schedule informatio

Based on the agreement on remote service (NETEYE/e-Maintenance/imageWARE Remote), if the E-RDS function is enabled, it is necessa y to execute a communication est a er replacing MAIN PCB UNIT. If not executed, the subsequent transmission schedule information will not be acqui ed again, and will not be transmi ed to UGW. Therefore, this will a ect the provision of remote service to customers. NOTE: Refer to 3-2. Connection s ttings or remote service.

7-4. iPF PRO Service Tool

1) Purpose

iPF PRO Service Tool is the soft are for servicing aims at realizing the following functions

Function	Details
Updating the ersion of printer fir ware	Updates the fir ware by sending the fir ware data file o the printer you ask for.
Status printing and Pri t Inf collectin	Obtains the printer information (tatus print and PRINT INF) from the printer you ask for.

2) How to launch

Double-click "setup.exe" in the folder to launch the soft are.

3) How to use

See the document a ached to the soft are.

4) Precaution

- · When the Service Mode is launched, the version of printer fir ware cannot be updated.
- Use ASCII to input characters in [User Information] in the "Input User I formation" dialog
 If language-specific cha acters are input, garbled characters may be generated in the texts of the obtained
 printer information

7-5. Recovery Mode

1) Purpose

If the printer is disconnected from the power source during updating the fi ware, the fir ware wri en in main board may be corrupted. The recovery means in this case was replacement of main board. Here, the printer will newly have recovery mode as a recovery means without replacing main board.

2) The items necessary for recovery

- Computer where the printer driver has been installed
- Printer Update Utility (S ve to the computer.)
- USB cable

<Printer Update Utility>

Printer Update Utility is the so are to rewrite the fir ware of the printer launching in the recovery mode. The version of the fir ware to be rewri en at this time is the ersion at initial shipping f om a factory. A er the fir ware is rewri en, update to the latest version of the fir ware if necessary.

Printer Update Utility is di erent by model. To di erenti te from one another, check the file name or the part indicating the p oduct name at the top of the window of the tool as shown below.

· Check the file name: "Pri ter Update*****Vxxxx.exe." (for Windows OS)

mfuu-mac-****-2_4_7+xxxx-ea7.dmg (for Mac)

(***** shows a product name. xxxx indicates version information.

Check the product name in the red circle at the top of the window of the tool below (e.g.: For Windows OS, For PRO-4000 series)



<Printer Update Utility operation environment>

Supported OS:

- · Windows 10 (32bit, 64bit), Windows 8.1 (32bit, 64bit), Windows 7 (32bit, 64bit)
- *The environment where the latest service pack is applied
- · Mac OS X v10.12, v10.11, v10.10.5 or later

3) Starting a recovery mode

If the printer is disconnected from the power source due to some reason, the recovery mode automati ally starts by turning on the printer again.



<Special notes>

 As this machine has a recovery mode, the recovery mode launches even if the printer is disconnected from the power source during updating the fi ware by any of Firm update tool, iPF PRO Service Tool, or FIRMWARE UPDATE(USB) in the service mode.

<Firmware version supporting the ecovery mode>

Product names	Supported versions
TX series	From the initial ersion

In the processing of fir ware update, the data is received first, then rewriting d ta starts a er receiving the data is completed. The recovery mode is launched only when the power is disconnected during rewriting the data. If the printer is disconnected from the power source during receiving the data, the printer can be launched properly without entering a recovery mode.

4) Procedures for recovery

- 1. Connect the printer with the printer with a USB cable, and start the printer in the recovery mode.
- Double-click Printer Update****Vxxxx.exe. Confirm the messa es in [Step 1] displayed on the Printer Update Utilit , then click [Next].



Point

Printer Update Utility is di erent by model. Use Printer Update Utility or the product with the recovery mode installed.

	In order to communicate between the printer and Printer Update Utilit, the printer
	driver is required to be installed in the computer you want to use. And confirm th $$ t
	[Enable bi-directional suppot] is selected in the [Port] tab of the Propertiss window
	of the printer driver.
	If the communication is unsucces ful, click [Next], and the dialog "The printer could
Point	not be detected." will be displayed. Confirm the ollowing:
	 The printer must be connected with the computer with a USB cable.
	 The printer must be launched in the recovery mode.
	• The printer driver for the product with the recovery mode installed must be
	installed in the computer you want to use.

3. Click [Start] on Printer Update Utilit, and data transfer processing will be started.

Printer Update Utility - PRO-4000			
Step 1 Preparing for updating the printer functions	Printer name: Current software version: Update software version:		PRO-4000 01.16
Step 2 Updating the printer functions	Data transfer process: Data overwrite process: Click the [Start] to update the	0 printer functions.	100(%)
Step 3 Completing the update process			
Cancel	Copyright CANO	N INC. 2003-2016.	Back Start

 [Printer name]:
 The name of the printer connected to the computer

 [Current soft are version]:
 The fir ware version of the printer connected to the computer

 (This function is un vailable. "-" is displayed on the window.)

[Update soft are version]: The version of the fir ware to be overwri en this tim

 Do not turn off the priter or disconnect the USB cable until the five ware rewrite process is finished

4. When the data transfer process is finished, the d ta rewriting p ocess is started.

rinter Update Utility - PRO-4000		
Step 1 Preparing for updating the printer functions	Printer name: Current software version: Update software version:	PRO-4000 01.16
Step 2 Updating the printer functions	Data transfer process: Data overwrite process: Updating printer functions The error lamp of the printer flashes orange	100(%) while updating.
Step 3 Completing the update process		
Cancel	Copyright CANON INC. 2003-2	2016. Back Start

5. When the data rewriting p ocess is finished, the pri ter is automati ally disconnected from the power source. When the messages for [Step 3] is displayed on Printer Update Utilit, confirm those messa es and click [Quit].

Step 1	
Preparing for updating the printer functions	The update is complete. Click [Quit] to exit this utility. To use the printer, unplug the power cord of the printer from the power supply. Then, turn the printer back on after plugging the power cord into the power supply.
Step 2	
Updating the printer functions	
Step 3	
Completing the update process	

- 6. Before using the printer, disconnect the plug of the printer from an outlet. Then, plug the printer into the outlet to turn on the printer.
- 7. If the fir ware is rewri en using Printer Update Utilit, recovery process is performed using the fir ware of the version at initial shipping f om a factory. Confirm the ersion of the latest fir ware, and perform the fir ware update usually (using such as Firm update tool, iPF PRO Service Tool, or Firmware Update (USB) in the service mode, etc.) if necessary.

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UNIT CONFIGURATION

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Chapter 1

Chapter 8

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2 WIRELESS LAN PCB(*1) Included in WIRELESS LAN PCB UNIT 3 TANK LED PCB UNIT TANK LED PCB UNIT 4 RIGHT TANK BOARD(*1) Included in SUB INK TANK UNIT R	
3 TANK LED PCB UNIT TANK LED PCB UNIT 4 RIGHT TANK BOARD(*1) Included in SUB INK TANK UNIT R	
4 RIGHT TANK BOARD(*1) Included in SUB INK TANK UNIT R	
5 PANEL BOARD / POWER SWITCH BOARD(*1) Included in OPERATION PANEL UNIT	
6 ROM BOARD(*1) Included in ROM BOARD UNIT	
7 HEAD MANAGEMENT SENSOR BOARD(*1) Included in HEAD MANAGEMENT SENSOR UNIT	
8 USB HOST PCB(*1) Included in USB HOST PCB ASS'Y	
9 CARRIAGE BOARD(*1) Included in CARRIAGE UNIT	
10 MULTI SENSOR BOARD(*1) Included in MULTI SENSOR UNIT	

*1: It should be replaced by the unit mentioned in the emarks, because it is unable to replace with the single parts.

36" model, 44" model



No.	Name	Remarks
11	RELAY BORAD, RU(*1)	Included in RELAY PCB UNIT, RU
12	POWER SUPPLY UNIT	Included in POWER SUPPLY UNIT
13	MAIN BOARD(*1)	Included in MAIN PCB UNIT
14	I/F BOARD(*1)	Included in I/F PCB UNIT
15	HDD	HDD, MQ01ABU050W
16	BACKUP ROM BORAD(*1)	Included in BACKUP PCB UNIT
17	UR PANEL BOARD(*1)	Included in OPERATION PANEL UNIT, RU
18	CONTROL BOARD, UR(*1)	Included in I/F PCB UNIT, RU

*1: It should be replaced by the unit mentioned in the emarks, because it is unable to replace with the single parts.

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No.	Name	Remarks
11	RELAY BORAD, RU(*1)	Included in RELAY PCB UNIT, RU
12	POWER SUPPLY UNIT	Included in POWER SUPPLY UNIT
13	MAIN BOARD(*1)	Included in MAIN PCB UNIT
14	I/F BOARD(*1)	Included in I/F PCB UNIT
15	HDD	HDD, MQ01ABU050W
16	BACKUP ROM BORAD(*1)	Included in BACKUP PCB UNIT
17	UR PANEL BOARD(*1)	Included in OPERATION PANEL UNIT, RU
18	CONTROL BOARD, UR(*1)	Included in I/F PCB UNIT, RU

*1: It should be replaced by the unit mentioned in the emarks, because it is unable to replace with the single parts.

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Operation pane		Name	Remarks
Display			
	0	PURGE MAIN CAM SENSOR(*1)	
	1	PAPER ENTRY SENSOR	PHOTO INTERRUPTER
	2	PAPER FEED HOME POSITION SENSOR(*1)	Included in PAPER FEED ENCODER UNIT
	3	PUMP ROLLER SENSOR(*1)	Included in PURGE UNIT
	4	CARRIAGE LIFT SENSOR	IC, PHOTO INTERRUPTER
	5	WIPER POSITION SENSOR(*1)	Included in PURGE UNIT
	6	CUTTER HOME POSITION SENSOR(*1)	IC, PHOTO INTERRUPTER
0	7	RIGHT CHOKE VALVE POSITION SENSOR(*1)	Included in SUB INK TANK UNIT R
0	8	-	-
	9	RIGHT AGITATION VALVE POSITION SENSOR (*1)	Included in SUB INK TANK UNIT R
	A	-	-
	В	RIGHT TANK COVER SWITCH	DETECT MICRO SWITCH
	C	-	-
	D	PAPER WIND DIRECTION SENSOR(*1)	Included in OPERATION PANEL UNIT, RU
	E	PAPER WIND SWITCH(*1)	Included in OPERATION PANEL UNIT, RU
	F	PAPER UNWIND SWITCH(*1)	Included in OPERATION PANEL UNIT, RU
	0	RELEASE LEVER SWITCH	DETECT MICRO SWITCH
	1	RIGHT TOP COVER SWITCH	MICROSWITCH
	2	LEFT TOP COVER SWITCH	MICROSWITCH
	3	LOWER PAPER ENTRY SENSOR(*1)	Included in ROLL PAPER FEED SENSOR UNIT
	4	UPPER PAPER ENTRY SENSOR(*1)	Included in ROLL PAPER FEED SENSOR UNIT
	5	UPPER ROLL NIP SENSOR	IC, PHOTO INTERRUPTER
	6	LOWER ROLL NIP SENSOR	IC, PHOTO INTERRUPTER
4	7	FLAPPER POSITION SENSOR	IC, PHOTO INTERRUPTER
L	8	HEAD COVER SENSOR	IC, PHOTO INTERRUPTER
	9	PAPER WIND ON/OFF SWITCH(*1)	Included in OPERATION PANEL UNIT, RU
	Α	UPPER LEFT SPOOL SET SENSOR	IC, PHOTO INTERRUPTER
	В	UPPER RIGHT SPOOL SET SENSOR(*1)	Included in SPOOL SENSOR UNIT
	C	LOWER LEFT SPOOL SET SENSOR	IC, PHOTO INTERRUPTER
	D	LOWER RIGHT SPOOL SET SENSOR	IC, PHOTO INTERRUPTER
	E	UPPER ROLL COVER SENSOR(*1)	Included in SPOOL SENSOR UNIT
	F	-	-

NO	Name	Remarks
X1	CARRIAGE ENCODER SENSOR(*1)	Included in CARRIAGE ENCODER UNIT
X2	PAPER FEED ENCODER SENSOR(*1)	Included in PAPER FEED ENCODER UNIT
X3	TEMPERATURE HUMIDITY SENSOR(*1)	Included in SENSOR, HUMIDITY
X4	MULTI SENSOR(*1)	Included in MULTI SENSOR UNIT
X5	UPPER PAPER SET SENSOR(*1)	Included in NIP ARM SENSOR UNIT
X6	LOWER PAPER SET SENSOR(*1)	Included in NIP ARM SENSOR UNIT

*1: It should be replaced by the unit mentioned in the emarks, because it is unable to replace with the

single parts.

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8-3. Motors and Solenoids



No.	Name	Remarks
1	UPPER ROLL NIP MOTOR(*1)	Included in DRIVE NIP ARM UNIT
2	WIPER BLADE MOTOR(*1)	Included in PURGE UNIT
3	RIGHT INK VALVE MOTOR(*1)	Included in SUB INK TANK UNIT R
4	PURGE MOTOR(*1)	Included in PURGE UNIT
5	LIFT MOTOR(*1)	Included in LIFT UNIT
6	RIGHT TOP COVER LOCK SOLENOID(*1)	Included in ACCESS COVER LOCK UNIT R
7	LOWER ROLL NIP MOTOR(*1)	Included in DRIVE NIP ARM UNIT
8	LOWER SPOOL LOCK SOLENOID (*1)	Included in SPOOL LOCK UNIT
9	LOWER ACTIVE ROLL BREAK MOTOR (OPTION) (*1)	Included in ACTIVE ROLL BREAK UNIT
10	UPPER ACTIVE ROLL BREAK MOTOR(*1)	Included in ACTIVE ROLL BREAK UNIT
11	UPPER SPOOL LOCK SOLENOID(*1)	Included in SPOOL LOCK UNIT
12	CUTTER MOTOR(*1)	Included in CUTTER MOTOR UNIT, W/ENCODER
13	LEFT TOP COVER LOCK SOLENOID	SOLENOID
14	PAPER FEED MOTOR(*1)	Included in PAPER FEED MOTOR UNIT
15	CARRIAGE MOTOR	MOTOR, DC, 47.8 W

*1: It should be replaced by the unit mentioned in the emarks, because it is unable to replace with the

single parts.

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No.	Name	Remarks
1		(36″ model) Included in MIST FAN DUCT UNIT 3
		(44″ model) Included in MIST FAN DUCT UNIT 2
2	RIGHT MIST FAN(*1)	Included in MIST FAN DUCT UNIT 1
3	SUCTION FAN(*1)	Included in SUCTION FAN UNIT

*1: It should be replaced by the unit mentioned in the emarks, because it is unable to replace with the

single parts.

24" model





No.	Name	Remarks
1	LEFT MIST FAN(*1)	Included in MIST FAN DUCT UNIT 2
3	SUCTION FAN(*1)	Included in SUCTION FAN UNIT

*1: It should be replaced by the unit mentioned in the emarks, because it is unable to replace with the

single parts.

8-5. Block Diagram

24" model

General Block Diagram (1/9)



Chapter 1

	+3.3V_LAN	+3.3V_LAN	+3.3V_LAN	GNDA	GNDA	LAN-LED2	LAN-LED1	LAN-LEDO	GNDA	GNDA	GNDA	/RTC-INT	GNDA	2C-2-RTC-SDA	2C-2-RTC-SCL	GNDA	GNDA	+3.3V	+3.3V	+3.3V	
	21	22	23	24	25 5	26 6	27	28 8	29 9	30 10	31	32 12	33 13	34	35	36 16	37	38	39 19	40	2
))	GNDA	GNDA	MDIP3	MDIN3	GNDA	MDIP2	MDIN2	GNDA	MDIP1	MDINI	GNDA	MDIPO	NIDN	GNDA	GNDA	S-USB2	GNDA	-121DP	-121DM	GNDA	
-																SNS		USB-PC	USB-PC-		

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General Block Diagram (2/9)





General Block Diagram (3/9)



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General Block Diagram (5/9)

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Chapter 4



Chapter 2



General Block Diagram (7/9)

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Chapter 4

Chapter 3

Chapter 2





S neter 8

J3503 J201 8 FFC-SLANT-DET1 8 MLT-SNS-REF FFC-SLANT-DET1 50 49 SNS-REF 40 GNDA COLOR-AD EDGE-AD GNDA COLOR-AD 40 EDGE-AD EDGE-AD H3V-MONI DSOUT2 CR-ENCA H1-B-DATA-3-EV GAP-FAR-AD H1-B-HE-3 +5.0V_SNS H3V-MONI-AD DSOUT2 45 44 DS0012 CR-ENCA H1-B-DATA-3-EV GAP-FAR-AD H1-B-HE-3 +5.0V_SNS H1-C-DATA-4-EV +5.0V_SNS H1-C-DATA-5-EV GNDA H1-C-DATA-4-EV +5.0V_SNS H1-C-DATA-5-EV GNDA GNDA GNDA H1-C-HE-5 GNDA H1-C-DATA-5-OD H1-C-HE-5 GNDA H1-C-DATA-5-OD H1-C-DATA-5-OD GNDA H1-D-DATA-7-OD GNDA H1-D-DATA-6-OD GNDA H1-D-HE-6 GNDA H1-D-DATA-6-EV GNDA H1-D-DATA-7-OD GNDA H1-D-DATA-6-OD GNDA H1-D-HE-6 GNDA H1-D-DATA-6-EV H1-D-DATA-6-EV GNDA H1-D-DATA-7-EV GNDA GNDA H1-D-DATA-7-EV GNDA H1-D-HE-7 GNDA H1-E-DATA-8-EV H1-D-HE-7 GNDA H1-E-DATA-8-EV GNDA H1-E-DATA-9-EV GNDA H1-E-HE-9 GNDA H1-E-DATA-9-EV GNDA H1-E-HE-9 H1-E-HE-9 GNDA H1-F-DATA-10-EV GNDA H1-F-DATA-11-EV GNDA CARRIAGE ENCODER UNIT GNDA GNDA H1-F-DATA-10-EV GNDA H1-F-DATA-11-EV GNDA H1-F-HE-11 GNDA H1-F-DATA-11-OD CARRIAGE ENCODER SENSOR GND VOUTB +3.3V_CR 1 2 3 4 H1-F-HE-11 GNDA 00 VOUTA H1-F-DATA-11-OD GNDA GNDA H1-F-DATA-11-OD GNDA I2C-CR-SDA I2C-CR-SDA I2C-1-CR-SDA CR-LIFT N -CR-LIFT-SNS 2 1 - FFC-SLANT-DET0 FFC-SLANT-DET0 J3504 J202 6 FFC-SLANT-DET2 g FFC-SLANT-DET3 CARRIAGE RELAY PCB UNIT (2/2) H1-ADT-LICC2 H1-DATA-LICC2 H1-LT-LICC2 LICC2-ADT LICC2-DT LICC2-LT MAIN PCB UNIT (7/7) H1-CLK-LICC2 LICC2-CLK CR-COVER DSOUT1 CR-ENCB CR-COVER-SNS DSOUT1 CR-ENCB CR-ENCB H1-C-DATA-4-OD GAP-NEAR-AD H1 C HE 1 +5.0V_SNS H1-B-DATA-3-OD +5.0V_SNS H1-B-DATA-2-OD GNIDA H1-C-DATA-4-OD GAP-NEAR-AD H1 C HE 4 +5.0V_SNS H1-B-DATA-3-OD +5.0V_SNS H1-B-DATA-2-OD GNDA H1-B-HE-2 GNDA H1-A-DATA-1-OD GNDA H1-B-HE-2 GNDA H1-A-DATA-1-OD GNDA H1-A-DATA-0-OD GNDA GNDA H1-A-DATA-0-OD GNDA GNDA H1-A-HE-0 GNDA H1-A-DATA-0-EV GNDA H1-A-HE-0 GNDA H1-A-DATA-0-EV GNDA H1-A-DATA-1-EV GNDA H1-A-HE-1 H1-A-DATA-1-EV GNDA H1-A-HE-1 H1-A-HE-1 GNDA H1-B-DATA-2-EV GNDA H1-LT GNDA H1-CLK GNDA H1-E-HE-8 GNDA GNDA H1-B-DATA-2-EV GNDA H1-LT GNDA H1-CLK GNDA H1-E-HE-8 GNDA GNDA H1-F-DATA-10-OD GNDA H1-F-HE-10 H1-F-DATA-10-OD GNDA H1-F-HE-10 GNDA GNDA H1-E-DATA-9-OD H1-E-DATA-9-OD 0 GNDA H1-E-DATA-8-OD GNDA H1-E-DATA-8-OD GNDA ACCE-CLK ACCE-CS ACCE-INT GNDA ACCE-CLK ACCE-CS ACCE-INT ω N N FFC-SLANT-DET2 FFC-SLANT-DET-SNS -J3201

Chapter 1

General Block Diagram (8/9)

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GNDA	NB	N	N	N	GNDA
GNDA	N	9	N	N	GNDA
GNDA	N	8	12	N	GNDA
GNDA	22	R	18	12	GNDA
+24.0V VH1 SW FB	N	N	N	N	+24V H1 VH SW1
+32.0V VM	2	8	18	8	+32V VH
+32.0V VM	1		-	1	+32V_VH
+32.0V VM	1	-		1	+32V VH
+32.0V VM	-	-		-	+32V VH
+32.0V VM	7 1		1	7 1	+32V VH
+32.0V VM				-+	+32V VH
+32.0V_VM	-	-		-	+32V VH
+32.0V VM	4	4	4	4	+32V VH
+32.0V VM	4	<u>a</u>	-	4	+32V VH
+24 0V VH0 SW EB	-	-	-	10	+24V H1 VH SW0
+21 0V VHT	-	1	-	-	+21V H1 VST
VH-ENB	0	0	0	0	VH-ENB
GNDA	-		-		GNDA
GNDA			-		GNDA
GNDA	-	-	-	-	GNDA
ACC-DI				0	ACC-DI
ACC-DO	5		0	0	ACC-DO
GNDA	-		-	#	GND A
GNDA	w			w	GNDA
GNDA	N	N	10	10	GNDA
GNDA	-		1	-	GNDA

J301



General Block Diagram (9/9)

8-5. Block Diagram | 807 SM-17001E-00

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	4	4	~	1	
GNDA	Na	8	12	N	GNDA
H1-A-HE-1	N	N	12	Ng	H1-A-HE-1
GNDA	N	N	S	w	GNDA
H1-B-DATA-2-EV	8	8	4	4	H1-B-DATA-2-EV
GNDA	10	10	3	ŵ	GNDA
H-LT	10	1	8	8	H-LT
GNDA	17	177	8	2	GNDA
H-CLK	10	10	ŵ	ŵ	H-CLK
GNDA		1	3	ŵ	GNDA
H1-E-HE-8	1		3	ŵ	H1-E-HE-8
GNDA	1	4	3	ŵ	GNDA
H1-F-DATA-10-OD	-		3	ŵ	H1-F-DATA-10-OD
GNDA			4	4	GNDA
H1-F-HE-10	1	1	4	4	H1-F-HE-10
GNDA	0	0	4	4	GNDA
H1-E-DATA-9-OD	0	0	4	4	H1-E-DATA-9-OD
GNDA	V	7	4	4	GNDA
H1-E-DATA-8-OD	0	0	4	4	H1-E-DATA-8-OD
GNDA	on	0	4	4	GNDA
ACCE-CLK	4	4	4	4	ACCE-CLK
ACCE-CS	w	w	4	4	ACCE-CS
ACCE-INT	10	10	4	4	ACCE-INT
FEC-SLANT-DET-SNS(GND)	-		0 5	0	FEC-SLANT-DET-SNS
			0	0	

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General Block Diagram (1/9)

Chapter 2

GNDA	-	ы	+3.3V_LAN
GNDA	N	ß	+3.3V_LAN
MDIP3	ω	Na	+3.3V_LAN
MDIN3	4	12	GNDA
GNDA	ON	N	GNDA
MDIP2	0	NB	LAN-LED2
MDIN2	4	27	LAN-LED1
GNDA	00	12	LAN-LED0
MDIP1	6	8	GNDA
MDIN1	10	8	GNDA
GNDA	=	3	GNDA
MDIP0	N	8	/RTC-INT
MDINO	3	8	GNDA
GNDA	14	ω 4	I2C-2-RTC-SDA
GNDA	-	8	I2C-2-RTC-SCL
SNS-USB2	10	8	GNDA
GNDA	17	37	GNDA
USB-PC-121DP	18	8	+3.3V
USB-PC-121DM	19	8	+3.3V
GNDA	20	40	+3.3V





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General

Block Diagram (3/9)





General Block Diagram (4/9)

8-5. Block Diagram 811 SM-17001E-00

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General Block Diagram (5/9)







8-5. Block Diagram 813 SM-17001E-00

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General Block Diagram (8/9)

8-5. Block Diagram 815 SM-17001E-00

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GNDA	NG	N .	N	No	GNDA
GNDA	N	N	N	N	GNDA
GNDA	18	18	18	18	GNDA
GNDA	12	8	8	12	GNDA
+24.0V_VH1_SW_FB	N	N	19	N	+24V_H1_VH_SW1
+32.0V_VM	8	8	8	8	+32V_VH
+32.0V_VM	10				+32V_VH
+32.0V_VM	1		1	10	+32V_VH
+32.0V_VM	1	3	17	-	+32V_VH
+32.0V_VM	10		10	1	+32V_VH
+32.0V_VM			4	=	+32V_VH
+32.0V VM	1	1	1	1	+32V_VH
+32.0V VM	#		4	#	+32V VH
+32.0V VM	1		1	4	+32V VH
+24.0V VH0 SW FB	-				+24V H1 VH SW0
+21.0V VHT	-			-	+21V H1 VST
VH-ENB	9	0		10	VH-ENB
GNDA				0	GNDA
GNDA	-	4		-	GNDA
GNDA	0				GNDA
ACC-DI	-			-	ACC-DI
ACC-DO	10	10	5	1	ACC-DO
GNDA	-		-	-	GNDA
GNDA	w				GNDA
CNDA	N	10	N	10	CNDA
GNDA	-	-	-	-	GNDA
		•			



L + A_GND VH_GND A_GND + 24.0V_VH_FB + 24.0V_VH J301 VH_GND VH_GND VH_GND VH_GND +24.0V_VH +24.0V_V 25 24 1 2 3 4 5 6 7 8 +24.00_VH +24.00_VH +24.00_VH +24.00_VH +24.00_VH +24.00_VH +24.00_VHO_SW_FB +21.00_VHT_SW_FB +21.00_VHT_SW_FB VH_GND VH_GND VH_GND VH_GND VH_GND VH_GND VH_GND 10 11 ACCE-DI ACCE-DO VH_GND VH_GND 22 23 24 25 VH_GND VH_GND VH_GND J201 1601 FFC-SLANT-DET1 FFC-SLANT-DET1(S_GND) SNS-REF S_GND 50 49 SNS-REF S_GND COLOR-AD EDGE-AD +3.3V_HEAD H1-DSOUT2 CR-ENCA COLOR-AD EDGE-AD H3V-MONI-AD H1-DSOUT2 CR-ENCA **J601** H1-B-DATA-3-EV GAP-FAR-AD H1-B-HE-3 H1-B-DATA-3-EV GAP-FAR-AD H1-B-HE-3 - SGND MULTI SENSOR UNIT 12 11 10 9 8 7 6 5 4 3 2 1 N N SNS_REF → +5.0V_SNS → SGND +5.0V_VM_IC H1-C-DATA-4-EV +5.0V_SNS H1-C-DATA-5-EV MULTI SENSOR BOARD +5.0V_VM_IC H1-C-DATA-4-EV +5.0V_SNS H1-C-DATA-5-EV EDGE-SNS COLOR-SNS GAP-NEAR-SNS GNDA H1-C-HE-5 GNDA H1-C-DATA-5-OD GNDA H1-C-HE-5 GNDA H1-C-DATA-5-OD GAP-FAR-SNS GAP-FAR-SNS SDA SCL SGND 8 9 10 1 GNDA H1-D-DATA-7-OD GNDA GNDA H1-D-DATA-7-OD 12 10 +3.3V_CR GNDA GNDA H1-D-DATA-6-OD GNDA H1-D-HE-6 GNDA H1-D-DATA-6-EV GNDA H1-D-DATA-7-EV GNDA H1-D-DATA-6-OD GNDA H1-D-HE-6 GNDA CARRIAGE RELAY PCB UNIT (2/2) H1-D-DATA-6-EV GNDA H1-D-DATA-7-EV GNDA H1-D-HE-7 GNDA H1-E-DATA-8-EV GNDA H1-D-HE-7 GNDA H1-E-DATA-8-EV CARRIAGE BOARD H1-E-DATA-8-EV GNDA H1-E-DATA-9-EV GNDA H1-E-HE-9 GNDA H1-E-DATA-9-EV GNDA H1-E-HE-9 GNDA H1-F-DATA-10-EV GNDA H1-F-DATA-11-EV GNDA GNDA H1-F-DATA-10-EV GNDA H1-F-DATA-11-EV H1-F-DATA-11-EV GNDA H1-F-HE-11 GNDA H1-F-DATA-11-OD GNDA 12C-SDA-HEAD 12C-SCL-HEAD CD_LET_SNS GNDA H1-F-HE-11 GNDA H1-F-DATA-11-OD GNDA I2C-CR-SDA I2C-CR-SCL 48 49 50 CR-LIFT-SNS CR-LIFT-SNS FFC-SLANT-DET0(S_GND) FFC-SLANT-DET0 8 J202 J602 43.3V_CR GND CR-LIFT-SNS CARRIAGE LIFT SENSOR J135 123 J136 FFC-SLANT-DET2(S_GND) H1-ADT-LICC2 H1-DATA-LICC2 FFC-SLANT-DET2
H1-ADT-LICC2 1 N 50 49 H1-DATA-LICC2 H1-LT-LICC2 H1-LK-LICC2 CR-COVER H1-DSOUT1 CR-ENC8 H1-C-DATA-4-OD GAP-NEAR-AD H1-C-DATA-4-OD H1-C-HE-4 +5.0V_SNS H1-B-DATA-3-OD +5.0V_SNS H1-B-DATA-2-OD GNDA H1-B-HE2-GNDA H1-A-DATA-1-OD H1-DATA-LICC2 3 4 5 6 7 8 H1-DATA-LICC2 H1-LIT-LICC2 H1-CLK-LICC2 CR-COVER H1-DSOUT1 CR-ENCB H1-C-DATA-4-OD GAP-NEAR-AD H1-C-DATA-4-OD ø H1-C-HE-4 +5.0V_SNS H1-B-DATA-3-OD L 400 +3.3V_CR GND CR-COVER-SNS J136 J135 123 HEAD COVER SENSOR +5.0V_SNS H1-B-DATA-2-OD GNDA H1-B-HE-2 7 3 -2 -1 -GNDA H1-A-DATA-1-OD GNDA H1-A-DATA-0-OD GNDA H1-A-DATA-1-OD GNDA H1-A-DATA-0-OD GNDA GNDA H1-A-HE-0 GNDA H1-A-DATA-0-EV H1-A-HE-0 GNDA H1-A-DATA-0-EV 24 25 26

General Block Diagram (9/9)

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	6	11 12 1		11.53	HI-A-DATA-I-EV
GNDA	N	N	8	N	GNDA
H1-A-HE-1	N	N	2	N	H1-A-HE-1
GNDA	N	NO .	0 0	8	GNDA
H1-B-DATA-2-EV	N	N	0.000	0	H1-B-DATA-2-EV
GNDA	1	-		w	GNDA
H-LT	1	-		w l	H-LT
GNDA	-00	-	8	ω ω	GNDA
H-CLK	1	7	4 ω	4	H-CLK
GNDA	0	0	0 6	() ()	GNDA
	01	0	8	0	
GNDA	4	4	73	17	GNDA
HIEDATA 10.0D	ω -	3	8	00	HIE DATA 10.00
HI-F-DATA-10-OD	N	N	ő	1 a	CNDA
GNDA	-	=	5	5	GNDA
H1-F-HE-10	ő	ō	1	4	H1-F-HE-10
GNDA	ø	0	10	1N	GNDA
H1-E-DATA-9-OD	00	00	\$	\$	H1-E-DATA-9-OD
GNDA	ч	4	4	4	GNDA
H1-E-DATA-8-OD	Ø	0	6	4	H1-E-DATA-8-OD
GNDA	on	01	6	40	GNDA
ACCE-CLK	4	4	47	47	ACCE-CLK
ACCE-CS	ω	ω	8	\$	ACCE-CS
ACCE-INT	N	N	49	49	ACCE-INT
FEC SLANT DET SNS(CND)	-	-		5	FFC-SLANT-DET-SNS

GNDA

GNDA



General Block Diagram (1/9)

8-5. Block Diagram 817 SM-17001E-00

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Chapter 2

GNDA	-	2	+3.3V_LAN
GNDA	N	ß	+3.3V_LAN
MDIP3	ω	Na	+3.3V_LAN
MDIN3	4	12	GNDA
GNDA	on	125	GNDA
MDIP2	0	12	LAN-LED2
MDIN2	4	27	LAN-LED1
GNDA	00	128	LAN-LEDO
MDIP1	6	8	GNDA
MDIN1	10	8	GNDA
GNDA	=	8	GNDA
MDIP0	12	8	/RTC-INT
MDINO	3	ω	GNDA
GNDA	14	44	I2C-2-RTC-SDA
GNDA	5	35	I2C-2-RTC-SCL
SNS-USB2	10	36	GNDA
GNDA	17	37	GNDA
USB-PC-121DP	18	8	+3.3V
USB-PC-121DM	19	8	+3.3V
GNDA	20	40	+3.3V





Chapter 2

General Block Diagram (2/9)

Chapter 4



General Block Diagram (3/9)



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Chapter 7



Chapter 5

Chapter 4



General Block Diagram (5/9)

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Chapter 1

Chapter 2



General Block Diagram (7/9)

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Chapter 2





S neter 8

J3503 J201 8 FFC-SLANT-DET1 8 MLT-SNS-REF FFC-SLANT-DET1 50 49 SNS-REF 40 GNDA COLOR-AD EDGE-AD GNDA COLOR-AD 40 EDGE-AD EDGE-AD H3V-MONI DSOUT2 CR-ENCA H1-B-DATA-3-EV GAP-FAR-AD H1-B-HE-3 +5.0V_SNS H3V-MONI-AD DSOUT2 45 44 DS0012 CR-ENCA H1-B-DATA-3-EV GAP-FAR-AD H1-B-HE-3 +5.0V_SNS H1-C-DATA-4-EV +5.0V_SNS H1-C-DATA-5-EV GNDA H1-C-DATA-4-EV +5.0V_SNS H1-C-DATA-5-EV GNDA GNDA GNDA H1-C-HE-5 GNDA H1-C-DATA-5-OD H1-C-HE-5 GNDA H1-C-DATA-5-OD H1-C-DATA-5-OD GNDA H1-D-DATA-7-OD GNDA H1-D-DATA-6-OD GNDA H1-D-HE-6 GNDA H1-D-DATA-6-EV GNDA H1-D-DATA-7-OD GNDA H1-D-DATA-6-OD GNDA H1-D-HE-6 GNDA H1-D-DATA-6-EV H1-D-DATA-6-EV GNDA H1-D-DATA-7-EV GNDA GNDA H1-D-DATA-7-EV GNDA H1-D-HE-7 GNDA H1-E-DATA-8-EV H1-D-HE-7 GNDA H1-E-DATA-8-EV GNDA H1-E-DATA-9-EV GNDA H1-E-HE-9 GNDA H1-E-DATA-9-EV GNDA H1-E-HE-9 H1-E-HE-9 GNDA H1-F-DATA-10-EV GNDA H1-F-DATA-11-EV GNDA CARRIAGE ENCODER UNIT GNDA GNDA H1-F-DATA-10-EV GNDA H1-F-DATA-11-EV GNDA H1-F-HE-11 GNDA H1-F-DATA-11-OD CARRIAGE ENCODER SENSOR GND VOUTB +3.3V_CR 1 2 3 4 H1-F-HE-11 GNDA 00 VOUTA H1-F-DATA-11-OD GNDA GNDA H1-F-DATA-11-OD GNDA I2C-CR-SDA I2C-CR-SDA I2C-1-CR-SDA CR-LIFT N -CR-LIFT-SNS 2 1 - FFC-SLANT-DET0 FFC-SLANT-DET0 J3504 J202 6 FFC-SLANT-DET2 g FFC-SLANT-DET3 CARRIAGE RELAY PCB UNIT (2/2) H1-ADT-LICC2 H1-DATA-LICC2 H1-LT-LICC2 LICC2-ADT LICC2-DT LICC2-LT MAIN PCB UNIT (7/7) H1-CLK-LICC2 LICC2-CLK CR-COVER DSOUT1 CR-ENCB CR-COVER-SNS DSOUT1 CR-ENCB CR-ENCB H1-C-DATA-4-OD GAP-NEAR-AD H1 C HE 1 +5.0V_SNS H1-B-DATA-3-OD +5.0V_SNS H1-B-DATA-2-OD GNIDA H1-C-DATA-4-OD GAP-NEAR-AD H1 C HE 4 +5.0V_SNS H1-B-DATA-3-OD +5.0V_SNS H1-B-DATA-2-OD GNDA H1-B-HE-2 GNDA H1-A-DATA-1-OD GNDA H1-B-HE-2 GNDA H1-A-DATA-1-OD GNDA H1-A-DATA-0-OD GNDA GNDA H1-A-DATA-0-OD GNDA GNDA H1-A-HE-0 GNDA H1-A-DATA-0-EV GNDA H1-A-HE-0 GNDA H1-A-DATA-0-EV GNDA H1-A-DATA-1-EV GNDA H1-A-HE-1 H1-A-DATA-1-EV GNDA H1-A-HE-1 H1-A-HE-1 GNDA H1-B-DATA-2-EV GNDA H1-LT GNDA H1-CLK GNDA H1-E-HE-8 GNDA GNDA H1-B-DATA-2-EV GNDA H1-LT GNDA H1-CLK GNDA H1-E-HE-8 GNDA GNDA H1-F-DATA-10-OD GNDA H1-F-HE-10 H1-F-DATA-10-OD GNDA H1-F-HE-10 GNDA GNDA H1-E-DATA-9-OD H1-E-DATA-9-OD 0 GNDA H1-E-DATA-8-OD GNDA H1-E-DATA-8-OD GNDA ACCE-CLK ACCE-CS ACCE-INT GNDA ACCE-CLK ACCE-CS ACCE-INT ω N N FFC-SLANT-DET2 FFC-SLANT-DET-SNS -

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General Block Diagram (8/9)

GNDA	NB	N	N	N	GNDA
GNDA	N	9	N	N	GNDA
GNDA	N	8	12	N	GNDA
GNDA	22	R	18	12	GNDA
+24.0V VH1 SW FB	N	N	N	N	+24V H1 VH SW1
+32.0V VM	2	8	18	8	+32V VH
+32.0V VM	1		-	1	+32V_VH
+32.0V VM	1	-		1	+32V VH
+32.0V VM	-	-		-	+32V VH
+32.0V VM	7 1		1	7 1	+32V VH
+32.0V VM				-+	+32V VH
+32.0V_VM	-	-		-	+32V VH
+32.0V VM	4	4	4	4	+32V VH
+32.0V VM	4	<u>a</u>	-	4	+32V VH
+24 0V VH0 SW EB	-	-	-	10	+24V H1 VH SW0
+21 0V VHT	-	1	-	-	+21V H1 VST
VH-ENB	0	0	0	0	VH-ENB
GNDA	-		-		GNDA
GNDA			-		GNDA
GNDA	-	-	-	-	GNDA
ACC-DI				0	ACC-DI
ACC-DO	5		0	0	ACC-DO
GNDA	-		-	#	GND A
GNDA	w			w	GNDA
GNDA	N	N	10	10	GNDA
GNDA	-		1	-	GNDA

J301

J3201



General Block Diagram (9/9)

8-5. Block Diagram 825 SM-17001E-00

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Chapter 3

Chapter 2

Chapter 1

H1-A-DATA-0-EV GNDA H1-A-DATA-1-EV GNDA H1-A-HE-1 GNDA H1-B-DATA-2-EV GNDA ULT H1-A-HE-1 GNDA H1-B-DATA-2-EV GNDA H-LT H-LT GNDA H-CLK GNDA H-CLK GNDA GNDA H1-E-HE-8 GNDA H1-F-DATA-10-OD H1-E-HE-8 GNDA H1-F-DATA-10-OD GNDA GNDA H1-F-HE-10 GNDA H1-E-DATA-9-OD H1-F-HE-10 GNDA H1-E-DATA-9-OD GNDA H1-E-DATA-8-OD GNDA GNDA H1-E-DATA-8-OD GNDA
 B)
 GNDA

 427
 ACCE-CLK

 42
 ACCE-CS

 42
 ACCE-INT

 50
 FFC-SLANT-DET-SNS
 ACCE-CLK ACCE-CS ACCE-INT FFC-SLANT-DET-SNS(GND) ю

