Service Manual

iPF760/750 series



Application

This manual has been issued by Canon Inc. for qualified persons to learn technical theory, installation, maintenance, and repair of products. This manual covers all localities where the products are sold. For this reason, there may be information in this manual that does not apply to your locality.

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This manual may contain technical inaccuracies or typographical errors due to improvements or changes in products. When changes occur in applicable products or in the contents of this manual, Canon will release technical information as the need arises. In the event of major changes in the contents of this manual over a long or short period, Canon will issue a new edition of this manual.

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Caution

Use of this manual should be strictly supervised to avoid disclosure of confidential information.

Symbols Used

This documentation uses the following symbols to indicate special information:

Symbol

Description



Indicates an item of a non-specific nature, possibly classified as Note, Caution, or Warning.



Indicates an item requiring care to avoid electric shocks.



Indicates an item requiring care to avoid combustion (fire).



Indicates an item prohibiting disassembly to avoid electric shocks or problems.



Indicates an item requiring disconnection of the power plug from the electric outlet.



Indicates an item intended to provide notes assisting the understanding of the topic in question.



Indicates an item of reference assisting the understanding of the topic in question.



Provides a description of a service mode.



Provides a description of the nature of an error indication.

The following rules apply throughout this Service Manual:

- 1. Each chapter contains sections explaining the purpose of specific functions and the relationship between electrical and mechanical systems with reference to the timing of operation.
 - In the diagrams, represents the path of mechanical drive; where a signal name accompanies the symbol, the arrow direction of the electric signal.

 The expression "turn on the power" means flipping on the power switch, closing the front door, and closing the delivery unit door, which results in
 - supplying the machine with power.
- Supplying the inactine with power.

 2. In the digital circuits, 'I'is used to indicate that the voltage level of a given signal is "High", while '0' is used to indicate "Low". (The voltage value, however, differs from circuit to circuit.) In addition, the asterisk (*) as in "DRMD*" indicates that the DRMD signal goes on when '0'.

 In practically all cases, the internal mechanisms of a microprocessor cannot be checked in the field. Therefore, the operations of the microprocessors used in the machines are not discussed: they are explained in terms of from sensors to the input of the DC controller PCB and from the output of the DC controller PCB to the loads.

The descriptions in this Service Manual are subject to change without notice for product improvement or other purposes, and major changes will be communicated in the form of Service Information bulletins.

All service persons are expected to have a good understanding of the contents of this Service Manual and all relevant Service Information bulletins and be able to identify and isolate faults in the machine.'

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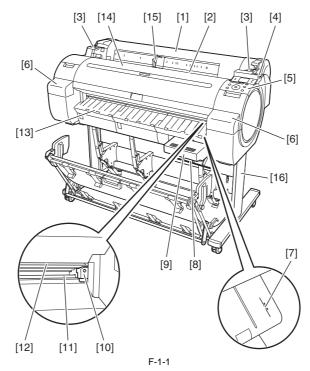
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1.1 Product Overview

1.1.1 Product Overview

iPF765 / iPF760 / iPF750 / iPF755

This printer is capable of printing on A4- to A0-size cut sheets and its maximum print width is 36 inches. This printer is a desktop large-format printer five-colors (dye- and pigment-based colors) printer that can be used to print CAD and office documents as well as handy POP and posters.



- [1] Roll media cover
- [2] Media loading slot
- [3] Roll media temporary table
- [4] Release lever
- [5] Operation panel
- [6] Ink tank cover
- [7] Media alignment line
- [8] Maintenance cartridge cover

- [9] Maintenance cartridge
- [10] Cutter unit
- [11] Cutter rail
- [12] Paper eject slot
- [13] Output guide
- [14] Upper cover
- [15] Width guide
- [16] Stand

1.2 Features

1.2.1 Features

- High resolutions of 2,400 x 1,200 dpi maximum, coupled with the exceptionally light-fast, water-proof and ozone-proof five-color pigment inks of Y, M, C, PBK and MBK, deliver high-quality photographic picture quality.
- Black ink suitable for the selected media type is automatically selected from two types of black ink, "black ink" for vivid and glossy printing and "matte black ink" for matte and high-quality printing. - A 160-by-128-dot-large LCD

- One-inch wide printhead having 2,560 nozzles per color, which are as many as the those of the existing models. High-density printhead technology "FINE" that can satisfy both of beautiful and fast printing requirements of a high order is employed for accurate ejection of ultrasmall 4-pl drops of ink to the target positions. Prints with 2,400 x 1,200 dpi resolution can be made at a high speed.
- Imaging processor "L-COA" incorporated for high-speed image data processing. High-speed processing of 5-color, 12-bit large-size images and printer control for high-accuracy operation of high-density head can be performed with a single chip.

 Standard support for 10Base-TX/100Base-TX/100Base-T and USB 2.0 Hi-Speed.

- Borderless printing on and auto cutting of roll media.

- The hard disk is installed for better print job management.

Functional enhancements new to this model include:

- All operations such as loading the roll media and cassette paper can be carried out at the front (top) of the printer, enhancing operability.
 The printer can be installed with its back in touch with the wall, requiring no installation space at the back of the printer.
 A subtank mounted at the ink port allows you to replace the ink tank during printing.

- The pressure of suction from the borderless printing ink catch groove changes automatically with the media size, preventing shift of media edges and staining of the backside of the media.

- A printhead having nozzles (I-shaped nozzle) with a new shape reduces ink mist, ensuring superfine printing.

- Compatibility with e-maintenance/imageWARE Remote allows centralized management of customers' printer information.
- The newly designed operation panel allows you to operate the printer intuitively.

1.2.2 Features

iPF750

- High resolutions of 2,400 x 1,200 dpi maximum, coupled with the exceptionally light-fast, water-proof and ozone-proof five-color pigment inks of Y, M, C, PBK and MBK, deliver high-quality photographic picture quality.
- Black ink suitable for the selected media type is automatically selected from two types of black ink, "black ink," for vivid and glossy printing and "matte black ink" for matte and high-quality printing.

- A 160-by-128-dot-large LCĎ

- One-inch wide printhead having 2,560 nozzles per color, which are as many as the those of the existing models. High-density printhead technology "FINE" that can satisfy both of beautiful and fast printing requirements of a high order is employed for accurate ejection of ultrasmall 4-pl drops of ink to the target positions. Prints with 2,400 x 1,200 dpi resolution can be made at a high speed.
- Imaging processor "L-COA" incorporated for high-speed image data processing. High-speed processing of 5-color, 12-bit large-size images and printer control for high-accuracy operation of high-density head can be performed with a single chip.

 Standard support for 10Base-TX/100Base-TX/1000Base-T and USB 2.0 Hi-Speed.
- Borderless printing on and auto cutting of roll media.

Functional enhancements new to this model include:

- All operations such as loading the roll media and cassette paper can be carried out at the front (top) of the printer, enhancing operability.
 The printer can be installed with its back in touch with the wall, requiring no installation space at the back of the printer.

- A subtank mounted at the ink port allows you to replace the ink tank during printing

- The pressure of suction from the borderless printing ink catch groove changes automatically with the media size, preventing shift of media edges and staining of the backside of the media.
- A printhead having nozzles (I-shaped nozzle) with a new shape reduces ink mist, ensuring superfine printing.
- Compatibility with e-maintenance/imageWARE Remote allows centralized management of customers' printer information.
- The newly designed operation panel allows you to operate the printer intuitively.

1.2.3 Features

iPF765

- High resolutions of 2,400 x 1,200 dpi maximum, coupled with the exceptionally light-fast, water-proof and ozone-proof five-color pigment inks of Y, M, C, PBK and MBK, deliver high-quality photographic picture quality.
- Black ink suitable for the selected media type is automatically selected from two types of black ink, "black ink," for vivid and glossy printing and "matte black ink" for matte and high-quality printing.

- A 160-by-128-dot-large LCD One-inch wide printhead having 2,560 nozzles per color, which are as many as the those of the existing models. High-density printhead technology "FINE" that one-inch wide printhead having 2,560 nozzles per color, which are as many as the those of the existing models. High-density printhead technology "FINE" that can satisfy both of beautiful and fast printing requirements of a high order is employed for accurate ejection of ultrasmall 4-pl drops of ink to the target positions. Prints with 2,400 x 1,200 dpi resolution can be made at a high speed.
- Imaging processor "L-COA" incorporated for high-speed image data processing. High-speed processing of 5-color, 12-bit large-size images and printer control for high-accuracy operation of high-density head can be performed with a single chip. - Standard support for 10Base-T/100Base-TX/1000Base-T and USB 2.0 Hi-Speed.

- Borderless printing on and auto cutting of roll media.
 The hard disk is installed for better print job management.
- All operations such as loading the roll media and cassette paper can be carried out at the front (top) of the printer.
 The printer can be installed with its back in touch with the wall, requiring no installation space at the back of the printer.

- A subtank mounted at the ink port allows you to replace the ink tank during printing.

- The pressure of suction from the borderless printing ink catch groove changes automatically with the media size, preventing shift of media edges and staining of the backside of the media.

- A printhead having nozzles (I-shaped nozzle) with a new shape reduces ink mist, ensuring superfine printing.
 Compatibility with e-maintenance/imageWARE Remote allows centralized management of customers' printer information.
- The newly designed operation panel allows you to operate the printer intuitively.

Functional enhancements new to this model include:

- The processing ability of the printed data will enhance by increase of hard disk drive and memory capacity and improvement of throughput.

1.2.4 Features

iPF760

- High resolutions of 2,400 x 1,200 dpi maximum, coupled with the exceptionally light-fast, water-proof and ozone-proof five-color pigment inks of Y, M, C, PBK

and MBK, deliver high-quality photographic picture quality.

- Black ink suitable for the selected media type is automatically selected from two types of black ink, "black ink," for vivid and glossy printing and "matte black ink" for matte and high-quality printing.
- A 160-by-128-dot-large LCD
 One-inch wide printhead having 2,560 nozzles per color, which are as many as the those of the existing models. High-density printhead technology "FINE" that can satisfy both of beautiful and fast printing requirements of a high order is employed for accurate ejection of ultrasmall 4-pl drops of ink to the target positions. Prints with 2,400 x 1,200 dpi resolution can be made at a high speed.
 Imaging processor "L-COA" incorporated for high-speed image data processing. High-speed processing of 5-color, 12-bit large-size images and printer control
- for high-accuracy operation of high-density head can be performed with a single chip.

 Standard support for 10Base-T/100Base-TX/1000Base-T and USB 2.0 Hi-Speed.

- Borderless printing on and auto cutting of roll media.
 All operations such as loading the roll media and cassette paper can be carried out at the front (top) of the printer.
 The printer can be installed with its back in touch with the wall, requiring no installation space at the back of the printer.
- A subtank mounted at the ink port allows you to replace the ink tank during printing.
 The pressure of suction from the borderless printing ink catch groove changes automatically with the media size, preventing shift of media edges and staining of the backside of the media.
- A printhead having nozzles (I-shaped nozzle) with a new shape reduces ink mist, ensuring superfine printing.
 Compatibility with e-maintenance/imageWARE Remote allows centralized management of customers' printer information.
 The newly designed operation panel allows you to operate the printer intuitively.

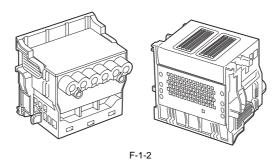
Functional enhancements new to this model include:

- The processing ability of the printed data will enhance by improvement of throughput.

1.2.5 Printhead

iPF765 / iPF760 / iPF750 / iPF755

The printhead that mounts on the carriage is an integrated six-color disposable printhead. It has 5,120 nozzles for MBK and 2,560 nozzles for each additional color arranged in a staggered pattern. If print quality remains unimproved even after a specified cleaning operation, replace the printhead



1.2.6 Ink Tank

iPF765 / iPF760 / iPF750 / iPF755

The ink tank is disposable.

There are four dye-based ink colors (black, cyan, magenta, and yellow) and one pigment-based ink color (matte black). This printer features a mechanism by which only the correct color ink tank will fit in the given slot.

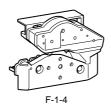
When the message that ink tank is empty is displayed, replace the ink tank with a new one.



1.2.7 Cutter

iPF765 / iPF760 / iPF750 / iPF755

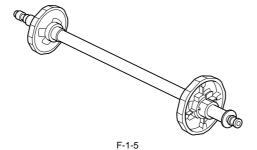
The cutter attached to the cutter unit is a round cutter.



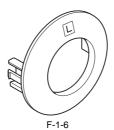
1.2.8 Roll Holder

iPF765 / iPF760 / iPF750 / iPF755

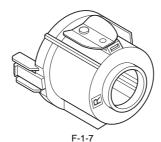
The roller holder accepts paper tubes having inside diameters of both 2 and 3 inches. It is furnished with attachments for 2- and 3-inch diameter paper tubes. The roll holder clamps the paper tube of a roll not exceeding 150 mm in outside diameter from the inside.



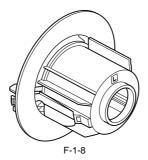
[2-inch paper tube attachment]



[3-inch paper tube attachment R]



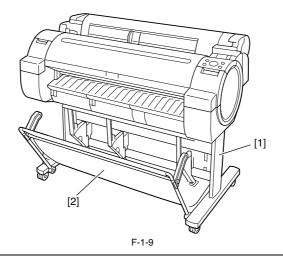
[3-inch paper tube attachment L]



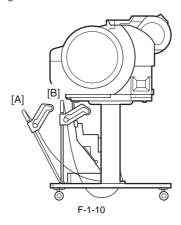
1.2.9 Stand (ST-33)

iPF750 / iPF755

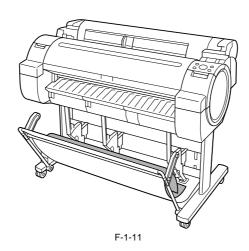
The stand [1] is equipped with casters so that the printer can be easily moved. The output stacker [2] included with stand can use by the two ways of the regular position or extended position.



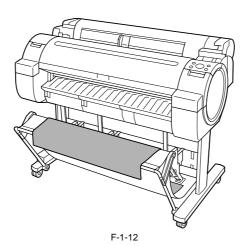
MEMO:
- When delivering the printing to the output stacker: Use the position [A].
- When not using the output stacker or moving the printer: Use the position [B]. When moving the printer, raise the auxiliary rod to the position of extended position. The output stacker may touch the floor and be soiled or damaged.



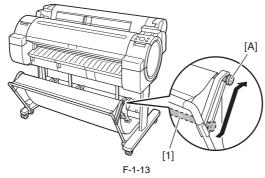
[Regular position]



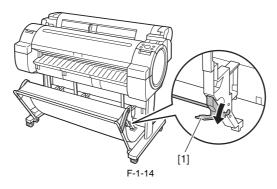
[Extended position]



- Changing from the regular position to extended position.
- $1) \ Raise \ the \ auxiliary \ rod \ [1] \ to \ the \ position \ [A] \ of \ the \ illustration \ to \ change \ to \ the \ extended \ position.$



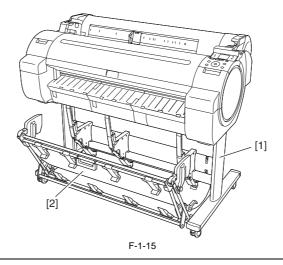
2) Pull out the switching stopper [1] when using roll paper that is A1 size or has a width of 24 inches.



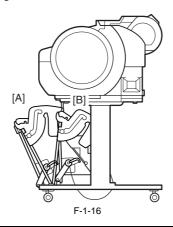
1.2.10 Stand (ST-34)

iPF765 / iPF760 / iPF750 / iPF755

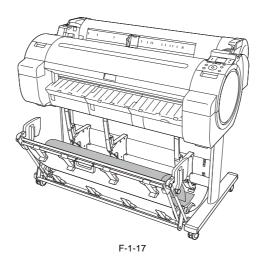
The stand [1] is equipped with casters so that the printer can be easily moved. The output stacker [2] included with stand can use by the three ways of the regular position or two extended positions.



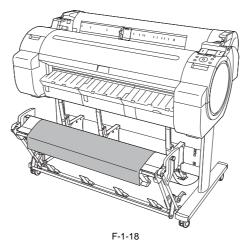
- MEMO:
 When delivering the printing to the output stacker: Use the position [A].
 When not using the output stacker or moving the printer: Use the position [B]. When moving the printer, raise the auxiliary rod to the position of extended position. The output stacker may touch the floor and be soiled or damaged.



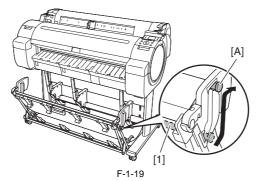
[Regular position]



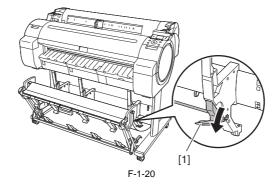
[Extended position A]



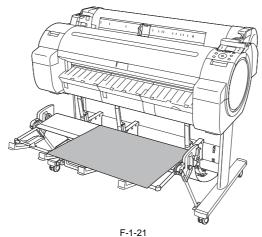
- Changing from the regular position to extended position A.
- 1) Raise the auxiliary rod [1] to the position [A] of the illustration to change to the extended position A.



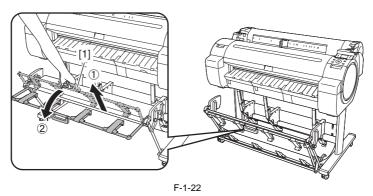
2) Pull out the switching stopper [1] when using roll paper that is A1 size or has a width of 24 inches.



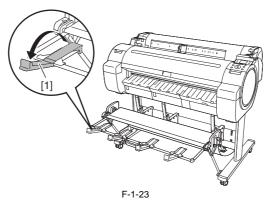
[Extended position B]



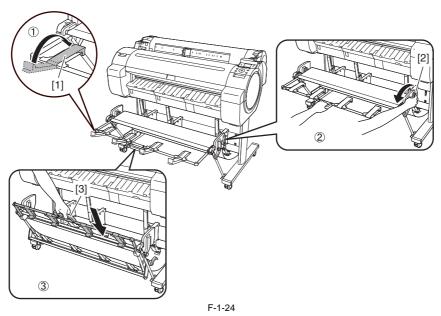
- Changing from the regular position to extended position B.
- 1) Grasp the output stacker handle [1] to set the guide as shown in the following illustration.



2) Open the output stacker ejection guides [1] toward the front.



- Changing from the extended position B to regular position.
- 1) Close the output stacker ejection guides [1] and pull the output stacker release lever [2] forward to release the lock, and then grasp the output stacker handle [3] to return the guide.



1.2.11 Hard Disk Drive

iPF765 / iPF755

Each print job received from the host computer is saved to the hard disk drive(serial ATA connection) attached to the printer, so the printer can print the job repeatedly as needed, without having to wait for its retransmission from the host computer.

Saving print jobs will offer the following benefits:

- Eased computer workload

A print job may be automatically preserved to the hard disk when printing or may be preserved to the hard disk without printing. A print job preserved can be printed in as many copies as needed without having to use the host computer.

- Reprinting after error occurrence

If the printer encounters errors, such as paper out, while printing a print job, it can resume the print operation as soon as the errors are cleared, without needing its retransmission from the host computer.

- Higher print work efficiency

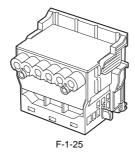
Print jobs can be printed selectively or in a specified number of copies without using a host computer. Multiple print jobs can be printed batched. Unattended print operations in the nighttime are also possible.

1.2.12 Consumables

iPF765 / iPF760 / iPF750 / iPF755

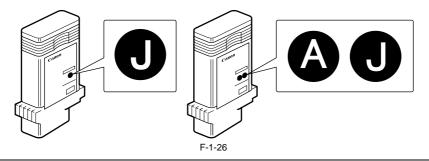
Printhead

The consumable printhead is the same as that supplied with the printer.



Ink Tanks

The consumable ink tanks are available in five colors (matte black, black, cyan, magenta and yellow). They are the same as those supplied with the printer. The ink tank that can be used with this printer is labeled "J".

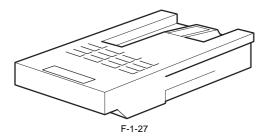


MEMO:

You can also use ink tanks other than magenta ink tank that are simply labeled "A".

Maintenance Cartridge

The consumable maintenance cartridge is the same as that supplied with the printer.



1.3 Product Specifications

1.3.1 Product Specifications

Туре	Bubble jet large-sized paper printer (stand model)
Feeding system	Roll media: manual feed from top
Feeding capacity	Cut sheet: manual feed from top - Roll media: 1 roll madia (Outer diameter of roll: 150 mm or less/Inner diameter of paper tube: 2 or 3 inches) - Cut sheet: 1 sheet
Delivery method	- Cut sneet: I sneet Forward delivery, face up
Sheet delivery capability	Stacking to the output stacker of the stand
	- 1 sheet: when using in the regular position - approximate 20 sheets: when using in the extended position (However, it has the following restrictions.) when using in the extended position/extended position A: paper length A0/36"X48" or A1/24"X36" size plain paper or recycled paper when using in the extended position B: paper length A1/36"X24" or A2/24"X18" size plain paper or recycled paper
Cutter	Automatic cross-cutter (round blade)
Type of media	Roll Media: Plain Paper, Plain Paper (High Quality), Plain Paper (High Grade), Coated Paper, Plain Paper (High Quality), Plain Paper (High Grade), Coated Paper, Heavyweight Coated Paper, Premium Matte Paper, Premium Glossy Paper 200, Premium Semi-Glossy Paper 200, Premium Glossy Paper 280, Premium Semi-Glossy Paper 280, Back Light Film, Economy Bond Paper, Universal Bond Paper, Matte Coated Paper 170gsm, Premium RC Photo Luster, Durable Backlit Film, High Resolution Coated Paper, Matte Coated Paper 90gsm, Glossy Photographic Paper 190gsm, Glossy Photographic Paper 240gsm, Satin Photographic Paper 270gsm, HW Glossy Photographic Paper 270gsm, Satin Photographic Paper 270gsm, HW Glossy Photo Paper, HW Satin Photo Paper, Commercial Proofing Paper, Standard Paper1569B 80g, Standard Paper1570B 90g, Matt Coated Paper 9171, Matt Coated Paper 7215, Matt Coated Paper 140g, Opaque Paper White, Hi Res Graphic Paper, Hi Res Barrier Paper, Photo Realistic Paper 210g, Photo paper Pearl 260g, Glossy Proofing Paper 195g, Semiglossy Proofing Paper 195g, Semiglossy Proofing Paper 255g
	Cut Paper: Plain Paper, Plain Paper (High Quality), Plain Paper (High Grade), Coated Paper, Premium Matte Paper, Premium Glossy Paper 280, Premium Semi-Glossy Paper 280, High Resolution Paper, Matte Photo Paper, Glossy Photo Paper GP-501, Photo Paper Plus Glossy 2, Photo Paper Pro Platium, Photo Paper Plus Semi-Gloss, Universal Bond Paper, Premium RC Photo Luster, High Resolution Coated Paper, Matt Coated Paper 7215, Matt Coated Paper 140g
Supported thickness	0.07mm to 0.8mm
Media size (Roll media)	Width: 254.0mm (10") to 914.4mm (36") Length: 203.2mm (8") to 18m (709") *1 Outer diameter of roll: 150mm or less *1: The maximum amount of length may vary by the using operating system or the applications.
Media size (Cut sheet)	Width: 203.2mm (8") to 917.0mm Length: 279.4mm (11") to 1600mm (63") *1 *1: The maximum amount of length may vary by the using operating system or the applications.
Printable area (Roll media)	Internal area, excluding a 3-mm top, bottom and left and right margins. Borderless printing: 0 mm from the leading edge, trailing edge, and left and right edges. * The printable area may vary with each type of paper media used. Width of media allowing borderless printing: 36"(914.4mm), A0(841.0mm), B1(728.0mm), 24"(609.6mm),
	A1(594.0mm), B2(515.0mm), 17"(431.8mm), A2(420.0mm), 14"(355.6mm), 300mm, A3(297.0mm), B4(257.0mm), 10"(254mm)
Printable area (Cut sheet)	Internal area, excluding a 3-mm top margin, a 23-mm bottom margin and 3-mm left and right margins. * The printable area may vary with each type of paper media used.
Printing recommendation area (Roll media)	Internal area, excluding a 20-mm top margin, a 5-mm bottom margin and 5-mm left and right margins.
Printing recommendation area (Cut sheet)	Internal area, excluding a 20-mm top margin, a 23-mm bottom margin and 5-mm left and right margins.
Memory	256MB Increase of memory: none
Hard disk drive	80GB or 160GB (2.5inch, 5,400rpm)
Firmware	Flash ROM (update from USB or Ethernet) - Printer description language GARO (Graphic Arts language with Raster Operation), HP-GL/2, HP-RTL

Y., 4	TICDA O TI: Carral
Interface	USB2.0 Hi-Speed Network (10Base-T/100Base-TX/1000Base-T)
Operation panel	LCD (160 X 128 dots), 13 keys, 5 LEDs - Panel language English - Message language English, German, French, Italian, Spanish, Chinese, Korean, Russianand and Japanese
Printhead/Ink Tank type	Printhead and separate ink tanks
Printhead Ink tank	PF-04 Structure: Integrated six-color assembly Number of nozzles: 5,120 for MBK, 2,560 for other each color PFI-102 MBK/BK/C/Y
	PFI-104 M Capacity: 130 ml per color (Ink tanks supplied with the printer contain 90 ml pf each color.)
Detection functions (Cover system)	Upper cover open/closed detection: Yes Ink tank cover open/closed detection: Yes
Detection functions (Ink passage system)	Ink tank presence/absence detection: Yes Remaining ink level detection (dot count and electrode): Yes Maintenance cartridge presence/absence detection: Yes Used ink tank full detection: Yes Ink supply Valve open/closed detection: Yes Air passage Valve open/closed detection: Yes
Detection functions (Carriage system)	Printhead presence/absence detection: Yes Carriage position detection: Yes Carriage home position detection: Yes Printhead temperature detection: Yes Printhead height detection: Yes Non-discharging nozzle detection: Yes Non-discharging nozzle backup feature: Yes Ambient temperature/humidity detection: Yes
Detection functions (Paper path system)	Paper presence/absence detection: Yes Paper width detection: Yes Skew detection: Yes Paper leading edge and trailing edge detection: Yes Release lever position detection: Yes Remaining roll media detection: Yes Feed roller rotation detection: Yes Roll holder rotation detection: Yes Cutter positin detection: Yes
Operating noise	Operating: Approx. 50dB (A) or less Standby: Approx. 35dB (A) or less
Operating environment	Temperature: 15 to 30 degrees centigrade Humidity: 10% to 80%RH without dew condensation
Print quality guaranteed environment	Temperature: 15 to 30 degrees centigrade Humidity: 10% to 80%RH
Power supply	100-240 VAC (50/60 Hz)
Power consumption (Maximum)	During printing: Max. 140 W
Power consumption	In power save (sleep) mode: 100-120 VAC: 5W or less 220-240 VAC: 6W or less During standby: 1 W or less
Printer unit dimensions (WxDxH) Weight	1304mm(W) x 870mm(D) x 1062mm(H) (with ST-33 stand and opening the output stacker) 1304mm(W) x 887mm(D) x 1062mm(H) (with ST-34 stand and opening the output stacker) 1304mm(W) x 1100mm(D) x 1062mm(H) (with ST-34 stand and setting to the extended position B) Approx. 63.1 kg (with stand and without printhead and ink tank)
,, eight	ripprox. 65.1 kg (with stand and without printinead and lik talik)

1.3.2 Product Specifications

Туре	Bubble jet large-sized paper printer (stand model)
Feeding system	Roll media: manual feed from top Cut sheet: manual feed from top
Feeding capacity	 Roll media: 1 roll madia (Outer diameter of roll: 150 mm or less/Inner diameter of paper tube: 2 or 3 inches) Cut sheet: 1 sheet
Delivery method	Forward delivery, face up
Sheet delivery capability	Stacking to the output stacker of the stand - 1 sheet: when using in the regular position - approximate 20 sheets: when using in the extended position (However, it has the following restrictions.) when using in the extended position/extended position A: paper length A0/36"X48" or A1/24"X36" size plain paper or recycled paper when using in the extended position B: paper length A1/36"X24" or A2/24"X18" size plain paper or recycled paper
Cutter	Automatic cross-cutter (round blade)

Type of media	Roll Media: Plain Paper, Plain Paper (High Quality), Plain Paper (High Grade), Coated Paper, Plain Paper (High Quality), Plain Paper (High Grade), Coated Paper, Heavyweight Coated Paper, Premium Matte Paper, Premium Glossy Paper 200, Premium Semi-Glossy Paper 280, Premium Glossy Paper 280, Premium Semi-Glossy Paper 280, Back Light Film, Economy Bond Paper, Universal Bond Paper, Matte Coated Paper 170gsm, Premium RC Photo Luster, Durable Backlit Film, High Resolution Coated Paper, Matte Coated Paper 90gsm, Glossy Photographic Paper 190gsm, Glossy Photographic Paper 240gsm, Satin Photographic Paper 240gsm, Glossy Photographic Paper 270gsm, Satin Photographic Paper 270gsm, HW Glossy Photo Paper, HW Satin Photo Paper, Commercial Proofing Paper, Standard Paper1569B 80g, Standard Paper1570B 90g, Matt Coated Paper 9171, Matt Coated Paper 7215, Matt Coated Paper 140g, Opaque Paper White, Hi Res Graphic Paper, Hi Res Barrier Paper, Photo Realistic Paper 210g, Photo paper Pearl 260g, Glossy Proofing Paper 195g, Semiglossy Proofing Paper 195g, Semiglossy Proofing Paper 255g Cut Paper: Plain Paper, Plain Paper (High Quality), Plain Paper (High Grade), Coated Paper, Premium Matte Paper, Premium Glossy Paper 280, Premium Semi-Glossy Paper 280, High Resolution Paper, Matte Photo Paper, Glossy Photo Paper GP-501, Photo Paper Plus Glossy 2, Photo Paper Pro Platium, Photo Paper Plus Semi-Gloss, Universal Bond Paper, Premium RC Photo Luster, High Resolution Coated Paper, Matt Coated Paper 7215, Matt Coated Paper 140g
Supported thickness	0.07mm to 0.8mm
Media size (Roll media)	Width: 254.0mm (10") to 914.4mm (36") Length: 203.2mm (8") to 18m (709") *1 Outer diameter of roll:150mm or less *1: The maximum amount of length may vary by the using operating system or the applications.
Media size (Cut sheet)	Width: 203.2mm (8") to 917.0mm Length: 279.4mm (11") to 1600mm (63") *1 *1: The maximum amount of length may vary by the using operating system or the applications.
Printable area (Roll media)	Internal area, excluding a 3-mm top, bottom and left and right margins. Borderless printing: 0 mm from the leading edge, trailing edge, and left and right edges. * The printable area may vary with each type of paper media used. Width of media allowing borderless printing: 36"(914.4mm), A0(841.0mm), B1(728.0mm), 24"(609.6mm), A1(594.0mm), B2(515.0mm), 17"(431.8mm), A2(420.0mm),
Printable area (Cut sheet)	14"(355.6mm), 300mm, A3(297.0mm), B4(257.0mm), 10"(254mm) Internal area, excluding a 3-mm top margin, a 23-mm bottom margin and 3-mm left and right margins. * The printable area may vary with each type of paper media used.
Printing recommendation area (Roll media)	Internal area, excluding a 20-mm top margin, a 5-mm bottom margin and 5-mm left and right margins.
Printing recommendation area (Cut sheet)	Internal area, excluding a 20-mm top margin, a 23-mm bottom margin and 5-mm left and right margins.
Memory	256MB Increase of memory: none
Firmware	- Printer description language GARO (Graphic Arts language with Raster Operation), HP-GL/2, HP-RTL
Interface	USB2.0 Hi-Speed Network (10Base-T/100Base-TX/1000Base-T)
Operation panel	LCD (160 X 128 dots), 13 keys, 5 LEDs - Panel language English - Message language English, German, French, Italian, Spanish, Chinese, Korean, Russianand and Japanese
Printhead/Ink Tank type	Printhead and separate ink tanks
Printhead	PF-04 Structure: Integrated six-color assembly Number of nozzles: 5,120 for MBK, 2,560 for other each color
Ink tank	PFI-102 MBK/BK/C/Y PFI-104 M Capacity: 130 ml per color (Ink tanks supplied with the printer contain 90 ml pf each color.)
Detection functions (Cover system)	Upper cover open/closed detection: Yes Ink tank cover open/closed detection: Yes
Detection functions (Ink passage system)	Ink tank presence/absence detection: Yes Remaining ink level detection (dot count and electrode): Yes Maintenance cartridge presence/absence detection: Yes Used ink tank full detection: Yes Ink supply Valve open/closed detection: Yes Air passage Valve open/closed detection: Yes

Detection functions (Carriage	Printhead presence/absence detection: Yes
system)	Carriage position detection: Yes
system)	Carriage home position detection: Yes
	Printhead temperature detection: Yes
	Printhead height detection: Yes
	Non-discharging nozzle detection: Yes
	Non-discharging nozzle backup feature: Yes
	Ambient temperature/humidity detection: Yes
Detection functions (Paper path	Paper presence/absence detection: Yes
system)	Paper width detection: Yes
	Skew detection: Yes
	Paper leading edge and trailing edge detection: Yes
	Release lever position detection: Yes
	Remaining roll media detection: Yes
	Feed roller rotation detection: Yes
	Roll holder rotation detection: Yes
	Cutter positin detection: Yes
Operating noise	Operating: Approx. 50dB (A) or less
	Standby: Approx. 35dB (A) or less
Operating environment	Temperature: 15 to 30 degrees centigrade
	Humidity: 10% to 80%RH without dew condensation
Print quality guaranteed	Temperature: 15 to 30 degrees centigrade
environment	Humidity: 10% to 80%RH
Power supply	100-240 VAC (50/60 Hz)
Power consumption (Maximum)	During printing: Max. 140 W
Power consumption	In power save (sleep) mode:
	100-120 VAC : 5W or less
	220-240 VAC : 6W or less
	During standby: 1 W or less
Printer unit dimensions	1304mm(W) x 870mm(D) x 1062mm(H) (with ST-33 stand and opening
(WxDxH)	the output stacker)
	1304mm(W) x 887mm(D) x 1062mm(H) (with ST-34 stand and opening
	the output stacker)
	1304mm(W) x 1100mm(D) x 1062mm(H) (with ST-34 stand and setting
	to the extended position B)
Weight	Approx. 62.9 kg (with stand and without printhead and ink tank)
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1.3.3 Product Specifications

Туре	Bubble jet large-sized paper printer (stand model)
Feeding system	Roll media: manual feed from top Cut sheet: manual feed from top
Feeding capacity	 Roll media: 1 roll madia (Outer diameter of roll: 150 mm or less/Inner diameter of paper tube: 2 or 3 inches) Cut sheet: 1 sheet
Delivery method	Forward delivery, face up
Sheet delivery capability	Stacking to the output stacker of the stand - 1 sheet: when using in the regular position - approximate 20 sheets: when using in the extended position (However, it has the following restrictions.) when using in the extended position/extended position A: paper length A0/36"X48" or A1/24"X36" size plain paper or recycled paper when using in the extended position B: paper length A1/36"X24" or A2/24"X18" size plain paper or recycled paper
Cutter	Automatic cross-cutter (round blade)
Type of media	Roll Media: Plain Paper, Plain Paper (High Quality), Plain Paper (High Grade), Coated Paper, Heavyweight Coated Paper, Premium Matte Paper, Premium Glossy Paper 200, Premium Semi-Glossy Paper 200, Premium Glossy Paper 280, Premium Semi-Glossy Paper 280, Back Light Film, Economy Bond Paper, Universal Bond Paper, Matte Coated Paper 170gsm, Premium RC Photo Luster, Durable Backlit Film, High Resolution Coated Paper, Matte Coated Paper 90gsm, Glossy Photographic Paper 190gsm, Glossy Photographic Paper 240gsm, Satin Photographic Paper 240gsm, Glossy Photographic Paper 270gsm, Satin Photographic Paper 270gsm, HW Glossy Photo Paper, HW Satin Photo Paper, Commercial Proofing Paper, Standard Paper1570B 80g, Standard Paper1570B 90g, Matt Coated Paper 9171, Matt Coated Paper 7215, Matt Coated Paper 140g, Opaque Paper White, Hi Res Graphic Paper, HI Res Barrier Paper, Photo Realistic Paper 210g, Photo paper Pearl 260g, Glossy Proofing Paper 195g, Semiglossy Proofing Paper 195g, Semiglossy Proofing Paper 255g Cut Paper: Plain Paper, Plain Paper (High Quality), Plain Paper (High Grade), Coated Paper, Premium Matte Paper, Premium Glossy Paper 280, Premium Semi-Glossy Paper 280, High Resolution Paper, Matte Photo Paper, Glossy Photo Paper GP-501, Photo Paper Plus Glossy 2, Photo Paper Pro Platium, Photo Paper Plus Semi-Gloss, Universal Bond Paper,

Supported thickness	0.07mm to 0.8mm
Supported thickness Media size (Roll media)	Width: 254.0mm (10") to 914.4mm (36")
vieula size (Koli lileula)	Length: 203.2mm (8") to 18m (709") *1
	Outer diameter of roll :150mm or less
	*1: The maximum amount of length may vary by the using operating system or the applications.
Media size (Cut sheet)	Width: 203.2mm (8") to 917.0mm
, , ,	Length: 279.4mm (11") to 1600mm (63") *1
	*1: The maximum amount of length may vary by the using operating system or the applications.
Printable area (Roll media)	Internal area, excluding a 3-mm top, bottom and left and right margins.
	Borderless printing: 0 mm from the leading edge, trailing edge, and left
	and right edges. * The printable area may vary with each type of paper media used.
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	Width of media allowing borderless printing: 36"(914.4mm), A0(841.0mm), B1(728.0mm), 24"(609.6mm),
	A1(594.0mm), B2(515.0mm), 17"(431.8mm), A2(420.0mm),
	14"(355.6mm), 300mm, A3(297.0mm), B4(257.0mm), 10"(254mm)
Printable area (Cut sheet)	Internal area, excluding a 3-mm top margin, a 23-mm bottom margin and
	3-mm left and right margins. * The printable area may vary with each type of paper media used.
Printing recommendation area	Internal area, excluding a 20-mm top margin, a 5-mm bottom margin and
(Roll media)	5-mm left and right margins.
Printing recommendation area (Cut sheet)	Internal area, excluding a 20-mm top margin, a 23-mm bottom margin and 5-mm left and right margins.
Memory	256MB
	Increase of memory: none
Hard disk drive	250GB (2.5inch, 5,400rpm)
Firmware	Flash ROM (update from USB or Ethernet) - Printer description language
	GARO (Graphic Arts language with Raster Operation), HP-GL/2, HP-
Y4	RTL USD2 O IT Second
Interface	USB2.0 Hi-Speed Network (10Base-T/100Base-TX/1000Base-T)
Operation panel	LCD (160 X 128 dots), 13 keys, 5 LEDs
	- Panel language English
	- Message language
	English, German, French, Italian, Spanish, Chinese, Korean, Russianand and Japanese
	and Japanese
Printhead/Ink Tank type	-
Printhead/Ink Tank type Printhead	Printhead and separate ink tanks PF-04
	Printhead and separate ink tanks PF-04 Structure: Integrated six-color assembly
Printhead	Printhead and separate ink tanks PF-04 Structure: Integrated six-color assembly Number of nozzles: 5,120 for MBK, 2,560 for other each color
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Printhead Ink tank	Printhead and separate ink tanks PF-04 Structure: Integrated six-color assembly Number of nozzles: 5,120 for MBK, 2,560 for other each color PFI-102 MBK/BK/C/Y PFI-104 M Capacity: 130 ml per color (Ink tanks supplied with the printer contain 90 ml pf each color.)
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Printhead Ink tank Detection functions (Cover system) Detection functions (Ink passage	Printhead and separate ink tanks PF-04 Structure: Integrated six-color assembly Number of nozzles: 5,120 for MBK, 2,560 for other each color PFI-102 MBK/BK/C/Y PFI-104 M Capacity: 130 ml per color (Ink tanks supplied with the printer contain 90 ml pf each color.) Upper cover open/closed detection: Yes Ink tank cover open/closed detection: Yes Ink tank presence/absence detection: Yes
Printhead Ink tank Detection functions (Cover system)	Printhead and separate ink tanks PF-04 Structure: Integrated six-color assembly Number of nozzles: 5,120 for MBK, 2,560 for other each color PFI-102 MBK/BK/C/Y PFI-104 M Capacity: 130 ml per color (Ink tanks supplied with the printer contain 90 ml pf each color.) Upper cover open/closed detection: Yes Ink tank cover open/closed detection: Yes Ink tank presence/absence detection: Yes Remaining ink level detection (dot count and electrode): Yes
Printhead Ink tank Detection functions (Cover system) Detection functions (Ink passage	Printhead and separate ink tanks PF-04 Structure: Integrated six-color assembly Number of nozzles: 5,120 for MBK, 2,560 for other each color PFI-102 MBK/BK/C/Y PFI-104 M Capacity: 130 ml per color (Ink tanks supplied with the printer contain 90 ml pf each color.) Upper cover open/closed detection: Yes Ink tank cover open/closed detection: Yes Ink tank presence/absence detection: Yes
Printhead Ink tank Detection functions (Cover system) Detection functions (Ink passage	Printhead and separate ink tanks PF-04 Structure: Integrated six-color assembly Number of nozzles: 5,120 for MBK, 2,560 for other each color PFI-102 MBK/BK/C/Y PFI-104 M Capacity: 130 ml per color (Ink tanks supplied with the printer contain 90 ml pf each color.) Upper cover open/closed detection: Yes Ink tank cover open/closed detection: Yes Ink tank presence/absence detection: Yes Remaining ink level detection (dot count and electrode): Yes Maintenance cartridge presence/absence detection: Yes Used ink tank full detection: Yes Ink supply Valve open/closed detection: Yes
Printhead Ink tank Detection functions (Cover system) Detection functions (Ink passage system)	Printhead and separate ink tanks PF-04 Structure: Integrated six-color assembly Number of nozzles: 5,120 for MBK, 2,560 for other each color PFI-102 MBK/BK/C/Y PFI-104 M Capacity: 130 ml per color (Ink tanks supplied with the printer contain 90 ml pf each color.) Upper cover open/closed detection: Yes Ink tank cover open/closed detection: Yes Ink tank presence/absence detection: Yes Remaining ink level detection (dot count and electrode): Yes Maintenance cartridge presence/absence detection: Yes Used ink tank full detection: Yes Ink supply Valve open/closed detection: Yes Air passage Valve open/closed detection: Yes
Printhead Ink tank Detection functions (Cover system) Detection functions (Ink passage	Printhead and separate ink tanks PF-04 Structure: Integrated six-color assembly Number of nozzles: 5,120 for MBK, 2,560 for other each color PFI-102 MBK/BK/C/Y PFI-104 M Capacity: 130 ml per color (Ink tanks supplied with the printer contain 90 ml pf each color.) Upper cover open/closed detection: Yes Ink tank cover open/closed detection: Yes Ink tank presence/absence detection: Yes Remaining ink level detection (dot count and electrode): Yes Maintenance cartridge presence/absence detection: Yes Used ink tank full detection: Yes Ink supply Valve open/closed detection: Yes Air passage Valve open/closed detection: Yes Printhead presence/absence detection: Yes Carriage position detection: Yes
Printhead Ink tank Detection functions (Cover system) Detection functions (Ink passage system) Detection functions (Carriage	Printhead and separate ink tanks PF-04 Structure: Integrated six-color assembly Number of nozzles: 5,120 for MBK, 2,560 for other each color PFI-102 MBK/BK/C/Y PFI-104 M Capacity: 130 ml per color (Ink tanks supplied with the printer contain 90 ml pf each color.) Upper cover open/closed detection: Yes Ink tank cover open/closed detection: Yes Ink tank presence/absence detection: Yes Remaining ink level detection (dot count and electrode): Yes Maintenance cartridge presence/absence detection: Yes Used ink tank full detection: Yes Ink supply Valve open/closed detection: Yes Air passage Valve open/closed detection: Yes Printhead presence/absence detection: Yes Carriage position detection: Yes Carriage home position detection: Yes
Printhead Ink tank Detection functions (Cover system) Detection functions (Ink passage system) Detection functions (Carriage	Printhead and separate ink tanks PF-04 Structure: Integrated six-color assembly Number of nozzles: 5,120 for MBK, 2,560 for other each color PFI-102 MBK/BK/C/Y PFI-104 M Capacity: 130 ml per color (Ink tanks supplied with the printer contain 90 ml pf each color.) Upper cover open/closed detection: Yes Ink tank cover open/closed detection: Yes Ink tank presence/absence detection: Yes Remaining ink level detection (dot count and electrode): Yes Maintenance cartridge presence/absence detection: Yes Used ink tank full detection: Yes Ink supply Valve open/closed detection: Yes Air passage Valve open/closed detection: Yes Printhead presence/absence detection: Yes Carriage position detection: Yes
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Printhead Ink tank Detection functions (Cover system) Detection functions (Ink passage system) Detection functions (Carriage	Printhead and separate ink tanks PF-04 Structure: Integrated six-color assembly Number of nozzles: 5,120 for MBK, 2,560 for other each color PFI-102 MBK/BK/C/Y PFI-104 M Capacity: 130 ml per color (Ink tanks supplied with the printer contain 90 ml pf each color.) Upper cover open/closed detection: Yes Ink tank cover open/closed detection: Yes Ink tank presence/absence detection: Yes Remaining ink level detection (dot count and electrode): Yes Maintenance cartridge presence/absence detection: Yes Used ink tank full detection: Yes Ink supply Valve open/closed detection: Yes Air passage Valve open/closed detection: Yes Printhead presence/absence detection: Yes Carriage position detection: Yes Carriage home position detection: Yes Printhead temperature detection: Yes Printhead height detection: Yes
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Printhead Ink tank Detection functions (Cover system) Detection functions (Ink passage system) Detection functions (Carriage system)	Printhead and separate ink tanks PF-04 Structure: Integrated six-color assembly Number of nozzles: 5,120 for MBK, 2,560 for other each color PFI-102 MBK/BK/C/Y PFI-104 M Capacity: 130 ml per color (Ink tanks supplied with the printer contain 90 ml pf each color.) Upper cover open/closed detection: Yes Ink tank cover open/closed detection: Yes Ink tank presence/absence detection: Yes Remaining ink level detection (dot count and electrode): Yes Maintenance cartridge presence/absence detection: Yes Used ink tank full detection: Yes Ink supply Valve open/closed detection: Yes Ink supply Valve open/closed detection: Yes Printhead presence/absence detection: Yes Carriage position detection: Yes Carriage home position detection: Yes Printhead temperature detection: Yes Non-discharging nozzle detection: Yes Non-discharging nozzle backup feature: Yes Ambient temperature/humidity detection: Yes Paper presence/absence detection: Yes Paper presence/absence detection: Yes Paper presence/absence detection: Yes
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Printhead Ink tank Detection functions (Cover system) Detection functions (Ink passage system) Detection functions (Carriage system)	Printhead and separate ink tanks PF-04 Structure: Integrated six-color assembly Number of nozzles: 5,120 for MBK, 2,560 for other each color PFI-102 MBK/BK/C/Y PFI-104 M Capacity: 130 ml per color (Ink tanks supplied with the printer contain 90 ml pf each color.) Upper cover open/closed detection: Yes Ink tank cover open/closed detection: Yes Ink tank presence/absence detection: Yes Remaining ink level detection (dot count and electrode): Yes Maintenance cartridge presence/absence detection: Yes Used ink tank full detection: Yes Ink supply Valve open/closed detection: Yes Air passage Valve open/closed detection: Yes Printhead presence/absence detection: Yes Carriage position detection: Yes Carriage home position detection: Yes Printhead temperature detection: Yes Printhead height detection: Yes Non-discharging nozzle detection: Yes Non-discharging nozzle backup feature: Yes Ambient temperature/humidity detection: Yes Paper presence/absence detection: Yes Skew detection: Yes Skew detection: Yes Skew detection: Yes Paper leading edge and trailing edge detection: Yes Release lever position detection: Yes
Printhead Ink tank Detection functions (Cover system) Detection functions (Ink passage system) Detection functions (Carriage system)	Printhead and separate ink tanks PF-04 Structure: Integrated six-color assembly Number of nozzles: 5,120 for MBK, 2,560 for other each color PFI-102 MBK/BK/C/Y PFI-104 M Capacity: 130 ml per color (Ink tanks supplied with the printer contain 90 ml pf each color.) Upper cover open/closed detection: Yes Ink tank cover open/closed detection: Yes Ink tank presence/absence detection: Yes Remaining ink level detection (dot count and electrode): Yes Maintenance cartridge presence/absence detection: Yes Used ink tank full detection: Yes Ink supply Valve open/closed detection: Yes Air passage Valve open/closed detection: Yes Printhead presence/absence detection: Yes Carriage position detection: Yes Carriage home position detection: Yes Printhead temperature detection: Yes Printhead height detection: Yes Non-discharging nozzle detection: Yes Non-discharging nozzle detection: Yes Paper presence/absence detection: Yes Paper width detection: Yes Paper width detection: Yes Skew detection: Yes Paper leading edge and trailing edge detection: Yes
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Printhead Ink tank Detection functions (Cover system) Detection functions (Ink passage system) Detection functions (Carriage system) Detection functions (Paper path system)	Printhead and separate ink tanks PF-04 Structure: Integrated six-color assembly Number of nozzles: 5,120 for MBK, 2,560 for other each color PFI-102 MBK/BK/C/Y PFI-104 M Capacity: 130 ml per color (Ink tanks supplied with the printer contain 90 ml pf each color.) Upper cover open/closed detection: Yes Ink tank cover open/closed detection: Yes Ink tank presence/absence detection: Yes Remaining ink level detection (dot count and electrode): Yes Maintenance cartridge presence/absence detection: Yes Used ink tank full detection: Yes Ink supply Valve open/closed detection: Yes Air passage Valve open/closed detection: Yes Printhead presence/absence detection: Yes Carriage position detection: Yes Carriage home position detection: Yes Printhead temperature detection: Yes Non-discharging nozzle detection: Yes Non-discharging nozzle detection: Yes Non-discharging nozzle backup feature: Yes Ambient temperature/humidity detection: Yes Paper presence/absence detection: Yes Paper width detection: Yes Paper leading edge and trailing edge detection: Yes Release lever position detection: Yes Remaining roll media detection: Yes Remaining roll media detection: Yes Redl holder rotation detection: Yes Roll holder rotation detection: Yes Cutter positin detection: Yes
Printhead Ink tank Detection functions (Cover system) Detection functions (Ink passage system) Detection functions (Carriage system)	Printhead and separate ink tanks PF-04 Structure: Integrated six-color assembly Number of nozzles: 5,120 for MBK, 2,560 for other each color PFI-102 MBK/BK/C/Y PFI-104 M Capacity: 130 ml per color (Ink tanks supplied with the printer contain 90 ml pf each color.) Upper cover open/closed detection: Yes Ink tank cover open/closed detection: Yes Ink tank presence/absence detection: Yes Remaining ink level detection (dot count and electrode): Yes Maintenance cartridge presence/absence detection: Yes Used ink tank full detection: Yes Ink supply Valve open/closed detection: Yes Air passage Valve open/closed detection: Yes Printhead presence/absence detection: Yes Carriage position detection: Yes Carriage home position detection: Yes Printhead temperature detection: Yes Printhead height detection: Yes Non-discharging nozzle backup feature: Yes Ambient temperature/humidity detection: Yes Paper presence/absence detection: Yes Paper width detection: Yes Paper width detection: Yes Skew detection: Yes Paper leading edge and trailing edge detection: Yes Release lever position detection: Yes Remaining roll media detection: Yes Feed roller rotation detection: Yes Roll holder rotation detection: Yes Roll holder rotation detection: Yes
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Printhead Ink tank Detection functions (Cover system) Detection functions (Ink passage system) Detection functions (Carriage system) Detection functions (Paper path system) Operating noise Operating environment	Printhead and separate ink tanks PF-04 Structure: Integrated six-color assembly Number of nozzles: 5,120 for MBK, 2,560 for other each color PFI-102 MBK/BK/C/Y PFI-104 M Capacity: 130 ml per color (Ink tanks supplied with the printer contain 90 ml pf each color.) Upper cover open/closed detection: Yes Ink tank cover open/closed detection: Yes Ink tank presence/absence detection: Yes Remaining ink level detection (dot count and electrode): Yes Maintenance cartridge presence/absence detection: Yes Used ink tank full detection: Yes Ink supply Valve open/closed detection: Yes Air passage Valve open/closed detection: Yes Printhead presence/absence detection: Yes Carriage position detection: Yes Carriage home position detection: Yes Printhead temperature detection: Yes Printhead height detection: Yes Non-discharging nozzle detection: Yes Non-discharging nozzle detection: Yes Non-discharging nozzle backup feature: Yes Ambient temperature/humidity detection: Yes Paper presence/absence detection: Yes Paper leading edge and trailing edge detection: Yes Release lever position detection: Yes Paper leading edge and trailing edge detection: Yes Release lever position detection: Yes Paper leading edge and trailing edge detection: Yes Release lever position detection: Yes Release lever position detection: Yes Roll holder rotation detection: Yes Roll holder
Printhead Ink tank Detection functions (Cover system) Detection functions (Ink passage system) Detection functions (Carriage system) Detection functions (Paper path system)	Printhead and separate ink tanks PF-04 Structure: Integrated six-color assembly Number of nozzles: 5,120 for MBK, 2,560 for other each color PFI-102 MBK/BK/C/Y PFI-104 M Capacity: 130 ml per color (Ink tanks supplied with the printer contain 90 ml pf each color.) Upper cover open/closed detection: Yes Ink tank cover open/closed detection: Yes Ink tank presence/absence detection: Yes Remaining ink level detection (dot count and electrode): Yes Maintenance cartridge presence/absence detection: Yes Used ink tank full detection: Yes Ink supply Valve open/closed detection: Yes Air passage Valve open/closed detection: Yes Printhead presence/absence detection: Yes Carriage position detection: Yes Carriage home position detection: Yes Printhead temperature detection: Yes Printhead height detection: Yes Non-discharging nozzle detection: Yes Non-discharging nozzle detection: Yes Paper presence/absence detection: Yes Paper presence/absence detection: Yes Paper width detection: Yes Paper width detection: Yes Skew detection: Yes Paper leading edge and trailing edge detection: Yes Release lever position detection: Yes Release lever position detection: Yes Remaining roll media detection: Yes Remaining Approx. 50dB (A) or less Temperature: 15 to 30 degrees centigrade
Printhead Ink tank Detection functions (Cover system) Detection functions (Ink passage system) Detection functions (Carriage system) Detection functions (Paper path system) Operating noise Operating environment	Printhead and separate ink tanks PF-04 Structure: Integrated six-color assembly Number of nozzles: 5,120 for MBK, 2,560 for other each color PFI-102 MBK/BK/C/Y PFI-104 M Capacity: 130 ml per color (Ink tanks supplied with the printer contain 90 ml pf each color.) Upper cover open/closed detection: Yes Ink tank cover open/closed detection: Yes Ink tank presence/absence detection: Yes Remaining ink level detection (dot count and electrode): Yes Maintenance cartridge presence/absence detection: Yes Used ink tank full detection: Yes Ink supply Valve open/closed detection: Yes Ink supply Valve open/closed detection: Yes Printhead presence/absence detection: Yes Carriage position detection: Yes Carriage home position detection: Yes Printhead temperature detection: Yes Non-discharging nozzle detection: Yes Non-discharging nozzle backup feature: Yes Ambient temperature/humidity detection: Yes Paper presence/absence detection: Yes Paper width detection: Yes Paper leading edge and trailing edge detection: Yes Release lever position detection: Yes Remaining roll media detection: Yes Roll holder rotation detection: Yes Cutter positin detection: Yes Cutter positin detection: Yes Cutter positin detection: Yes Temperature: 15 to 30 degrees centigrade Humidity: 10% to 80% RH without dew condensation Temperature: 15 to 30 degrees centigrade Humidity: 10% to 80% RH without dew condensation
Printhead Ink tank Detection functions (Cover system) Detection functions (Ink passage system) Detection functions (Carriage system) Detection functions (Paper path system) Operating noise Operating environment Print quality guaranteed environment	Printhead and separate ink tanks PF-04 Structure: Integrated six-color assembly Number of nozzles: 5,120 for MBK, 2,560 for other each color PFI-102 MBK/BK/C/Y PFI-104 M Capacity: 130 ml per color (Ink tanks supplied with the printer contain 90 ml pf each color.) Upper cover open/closed detection: Yes Ink tank cover open/closed detection: Yes Ink tank presence/absence detection: Yes Remaining ink level detection (dot count and electrode): Yes Maintenance cartridge presence/absence detection: Yes Used ink tank full detection: Yes Ink supply Valve open/closed detection: Yes Ink supply Valve open/closed detection: Yes Printhead presence/absence detection: Yes Carriage position detection: Yes Carriage home position detection: Yes Printhead temperature detection: Yes Non-discharging nozzle detection: Yes Non-discharging nozzle backup feature: Yes Ambient temperature/humidity detection: Yes Paper presence/absence detection: Yes Paper width detection: Yes Skew detection: Yes Release lever position detectio

Power consumption	In power save (sleep) mode: 100-120 VAC : 5W or less 220-240 VAC : 6W or less During standby: 0.5W or less
Printer unit dimensions (WxDxH)	$1304mm(W) \times 887mm(D) \times 1062mm(H) \ (with ST-34 \ stand \ and \ opening \ the \ output \ stacker) \\ 1304mm(W) \times 1100mm(D) \times 1062mm(H) \ (with \ ST-34 \ stand \ and \ setting \ to \ the \ extended \ position \ B)$
Weight	Approx. 63.1 kg (with stand and without printhead and ink tank)

1.3.4 Product Specifications

Type	Bubble jet large-sized paper printer (stand model)
Feeding system	Roll media: manual feed from top
	Cut sheet: manual feed from top
Feeding capacity	- Roll media: 1 roll madia (Outer diameter of roll: 150 mm or less/Inner diameter of paper tube: 2 or 3 inches) - Cut sheet: 1 sheet
Delivery method	Forward delivery, face up
Sheet delivery capability	Stacking to the output stacker of the stand - 1 sheet: when using in the regular position - approximate 20 sheets: when using in the extended position (However, it has the following restrictions.) when using in the extended position/extended position A: paper length A0/36"X48" or A1/24"X36" size plain paper or recycled paper when using in the extended position B: paper length A1/36"X24" or A2/24"X18" size plain paper or recycled paper
Cutter	Automatic cross-cutter (round blade)
Type of media	Roll Media: Plain Paper, Plain Paper (High Quality), Plain Paper (High Grade), Coated Paper, Heavyweight Coated Paper, Premium Matte Paper, Premium Glossy Paper 200, Premium Semi-Glossy Paper 200, Premium Glossy Paper 280, Premium Semi-Glossy Paper 280, Back Light Film, Economy Bond Paper, Universal Bond Paper, Matte Coated Paper 170gsm, Premium RC Photo Luster, Durable Backlit Film, High Resolution Coated Paper, Matte Coated Paper 90gsm, Glossy Photographic Paper 190gsm, Glossy Photographic Paper 240gsm, Satin Photographic Paper 240gsm, Glossy Photographic Paper 270gsm, Satin Photographic Paper 270gsm, HW Glossy Photo Paper, HW Satin Photo Paper, Commercial Proofing Paper, Standard Paper1569B 80g, Standard Paper1570B 90g, Matt Coated Paper 9171, Matt Coated Paper 7215, Matt Coated Paper 140g, Opaque Paper White, Hi Res Graphic Paper, Hi Res Barrier Paper, Photo Realistic Paper 210g, Photo paper Pearl 260g, Glossy Proofing Paper 195g, Semiglossy Proofing Paper 195g, Semiglossy Proofing Paper 255g Cut Paper: Plain Paper, Plain Paper (High Quality), Plain Paper (High Grade), Coated Paper, Premium Matte Paper, Premium Glossy Paper 280, Premium Semi-Glossy Paper 280, High Resolution Paper, Matte Photo Paper, Glossy Photo Paper GP-501, Photo Paper Plus Glossy 2, Photo Paper Pro Platium, Photo Paper Plus Semi-Gloss, Universal Bond Paper,
	Premium RC Photo Luster, High Resolution Coated Paper, Matt Coated Paper 7215, Matt Coated Paper 140g
Supported thickness	0.07mm to 0.8mm
Media size (Roll media)	Width: 254.0mm (10") to 914.4mm (36") Length: 203.2mm (8") to 18m (709") *1 Outer diameter of roll: 150mm or less *1: The maximum amount of length may vary by the using operating system or the applications.
Media size (Cut sheet)	Width: 203.2mm (8") to 917.0mm Length: 279.4mm (11") to 1600mm (63") *1 *1: The maximum amount of length may vary by the using operating system or the applications.
Printable area (Roll media)	Internal area, excluding a 3-mm top, bottom and left and right margins. Borderless printing: 0 mm from the leading edge, trailing edge, and left and right edges. * The printable area may vary with each type of paper media used. Width of media allowing borderless printing: 36"(914.4mm), A0(841.0mm), B1(728.0mm), 24"(609.6mm), A1(594.0mm), B2(515.0mm), 17"(431.8mm), A2(420.0mm), 14"(355.6mm), 300mm, A3(297.0mm), B4(257.0mm), 10"(254mm)
Printable area (Cut sheet)	Internal area, excluding a 3-mm top margin, a 23-mm bottom margin and 3-mm left and right margins. * The printable area may vary with each type of paper media used.
Printing recommendation area (Roll media)	Internal area, excluding a 20-mm top margin, a 5-mm bottom margin and 5-mm left and right margins.
Printing recommendation area (Cut sheet)	Internal area, excluding a 20-mm top margin, a 23-mm bottom margin and 5-mm left and right margins.
	•

Memory	256MB
	Increase of memory: none
Firmware	Flash ROM (update from USB or Ethernet)
	- Printer description language GARO (Graphic Arts language with Raster Operation), HP-GL/2, HP-
	RTL
Interface	USB2.0 Hi-Speed
	Network (10Base-T/100Base-TX/1000Base-T)
Operation panel	LCD (160 X 128 dots), 13 keys, 5 LEDs - Panel language
	English
	- Message language
	English, German, French, Italian, Spanish, Chinese, Korean, Russianand and Japanese
Printhead/Ink Tank type	Printhead and separate ink tanks
Printhead	PF-04
	Structure: Integrated six-color assembly
	Number of nozzles: 5,120 for MBK, 2,560 for other each color
Ink tank	PFI-102 MBK/BK/C/Y PFI-104 M
	Capacity: 130 ml per color (Ink tanks supplied with the printer contain
	90 ml pf each color.)
Detection functions (Cover system)	Upper cover open/closed detection: Yes Ink tank cover open/closed detection: Yes
Detection functions (Ink passage	Ink tank presence/absence detection: Yes
system)	Remaining ink level detection (dot count and electrode): Yes
	Maintenance cartridge presence/absence detection: Yes
	Used ink tank full detection: Yes Ink supply Valve open/closed detection: Yes
	Air passage Valve open/closed detection: Yes
Detection functions (Carriage	Printhead presence/absence detection: Yes
system)	Carriage position detection: Yes Carriage home position detection: Yes
	Printhead temperature detection: Yes
	Printhead height detection: Yes
	Non-discharging nozzle detection: Yes Non-discharging nozzle backup feature: Yes
	Ambient temperature/humidity detection: Yes
Detection functions (Paper path	Paper presence/absence detection: Yes
system)	Paper width detection: Yes Skew detection: Yes
	Paper leading edge and trailing edge detection: Yes
	Release lever position detection: Yes
	Remaining roll media detection: Yes Feed roller rotation detection: Yes
	Roll holder rotation detection: Yes
	Cutter positin detection: Yes
Operating noise	Operating: Approx. 50dB (A) or less Standby: Approx. 35dB (A) or less
Operating environment	Temperature: 15 to 30 degrees centigrade
	Humidity: 10% to 80% RH without dew condensation
Print quality guaranteed	Temperature: 15 to 30 degrees centigrade
environment Power supply	Humidity: 10% to 80%RH 100-240 VAC (50/60 Hz)
Power consumption (Maximum)	During printing: Max. 140W
Power consumption	In power save (sleep) mode:
2 o er consumption	100-120 VAC : 5W or less
	220-240 VAC : 6W or less
Duinton muit dim	During standby: 0.5W or less
Printer unit dimensions (WxDxH)	1304mm(W) x 887mm(D) x 1062mm(H) (with ST-34 stand and opening the output stacker)
	1304mm(W) x 1100mm(D) x 1062mm(H) (with ST-34 stand and setting
****	to the extended position B)
Weight	Approx. 62.9 kg (with stand and without printhead and ink tank)

1.4 Detailed Specifications

1.4.1 Interface Specifications

iPF765 / iPF760 / iPF750 / iPF755

a. USB (standard)
(1) Interface type
USB 2.0 Hi-Speed (Full speed (12 Mbits/sec), High speed (480 Mbits/sec))
(2) Data transfer system
Control transfer
Bulk transfer

Bulk transfer
(3) Signal level
Compliant with the USB standard.

(4) Interface cable

Twisted-pair shielded cable, 5.0 m max.
Compliant with the USB standard.
Wire materials: AWG No.28, data wire pair (AWF: American Wire Gauge)
AWG No.20 to No.28, power distribution wire pair

(5) Interface connector Printer side: Series B receptacle compliant with USB standard Cable side: Series B plug compliant with USB standard

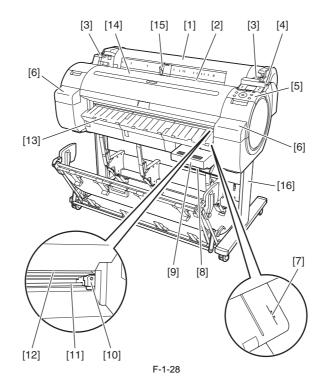
b. Network (standard)
(1) Interface type
Interface compliant with IEEE802.3
(2) Data transfer system
IEEE802.0 10Base-T, IEEE802.3u 100Base-TX/Auto-Negotiation, IEEE802.3ab 1000Base-T/Auto-Negotiation, IEEE802.3x Full Duplex
(3) Interface cable
Category 5 (UTP or FTP) cable, 100 m or shorter
Compliant with ANSI/EIA/TIA-568A or ANSI/EIA/TIA-568B
(4) Interface connector
Printer side: Compliant with IEEE802.3, ANSI X3.263, ISO/IEC60603-7
(5) Protocol

(5) Protocol IPX/SPX (Netware4.2(J), 5.1(J), 6.0(J)), SNMP, TCP/IP, AppleTalk, HTTP

1.5 Names and Functions of Components

1.5.1 Front

iPF765 / iPF760 / iPF750 / iPF755



[1] Roll media cover

Open this cover, and then load roll media.

[2] Media loading slot

Insert media in this slot to load it.

[3] Roll media temporary table
When loading roll media, place the roll holder here and then insert the media in the roll holder slot.
[4] Release lever
When releasing the paper retainer, press this lever backward.

[5] Operation panel
Use this panel to operate the printer or check the printer status.

[6] Ink tank cover

Open this cover to replace the ink tank.
[7] Media alignment line
This orange line is used to align media.
[8] Maintenance cartridge cover

Open this cover to replace the maintenance cartridge.

[9] Maintenance cartridge
This cartridge absorbs the ink used for maintenance. (Replace it when it becomes full of ink.)

[10] Cutter unit

This cutter with a round blade is used to cut roll media automatically. [11] Cutter rail

The cutter unit moves on this rail to cut media.

[12] Paper eject slot

All printouts are ejected from this slot. [13] Output guide

A printout is ejected along this guide.
[14] Upper cover
Open this cover to install the printhead or remove the media jammed inside the printer.

[15] Width guide

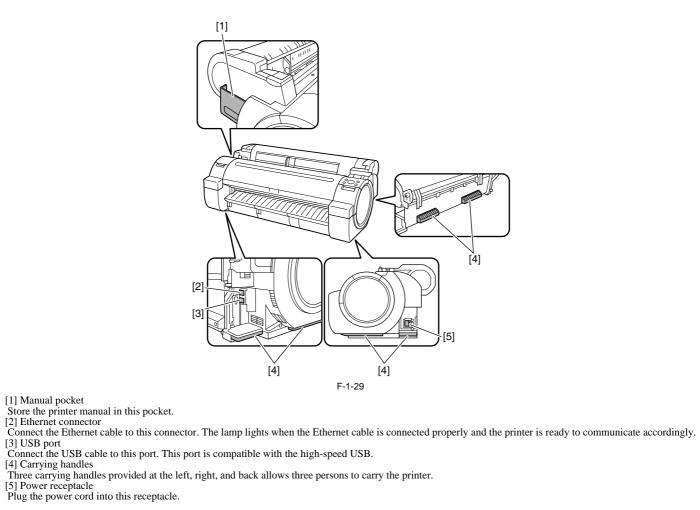
When loading cassette paper, move this guide according to the paper size.

[16] Stand

Install the printer on this stand. This stand has casters for easy relocation.

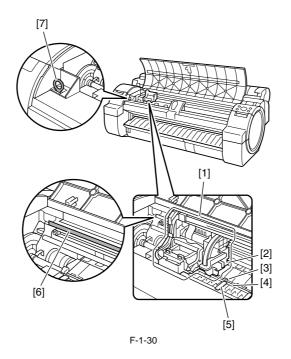
1.5.2 Side

iPF765 / iPF760 / iPF750 / iPF755



1.5.3 Top Cover (Inside)

iPF765 / iPF760 / iPF750 / iPF755



[1] Carriage
The carriage moves the printhead. It is an important component used for printing.
[2] Carriage shaft
The carriage moves on this shaft.
[3] Paper retainer
This is an important component used to feed paper. It retains paper.
[4] Platen
The printhead moves on this component to perform printing. Suction holes are provided on the platen surface to prevent media from floating.
[5] Borderless printing ink catch groove
Ink flowed out of the paper edges enter in this groove during borderless printing.
[6] Linear scale

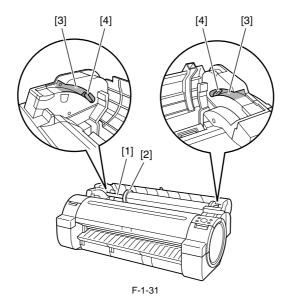
[6] Linear scale

This is an important component used to detect the carriage position. Never touch it when cleaning the parts or removing jammed media inside the upper cover.

[7] Cleaner brush
Use this brush to remove paper dust off the platen when cleaning the parts inside the upper cover.

1.5.4 Roll Unit Cover (Inside)

iPF765 / iPF760 / iPF750 / iPF755

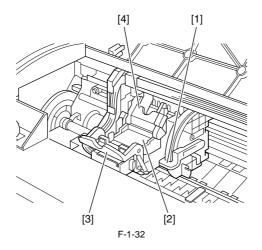


[1] Roll holder Load roll media in this holder.

[2] Holder stopper
Use this part to secure roll media to the roll holder.
[3] Slide guide
Move the roll holder along this guide.
[4] Roll holder slot
Fit the roll holder in this slot.

1.5.5 Carriage

iPF765 / iPF760 / iPF750 / iPF755



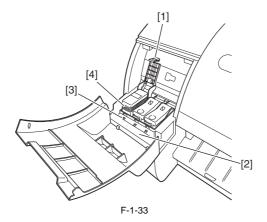
[1] Slant adjusting lever This lever is used to fine adjust slant of rules lines.

This lever is used to fine adjust stant of rules lines.
[2] Printhead
The printhead has nozzles. It is an important component used to perform printing.
[3] Printhead fixer lever
This lever is used to lock the printhead fixer cover.
[4] Printhead fixer cover
This cover is used to secure the printhead.

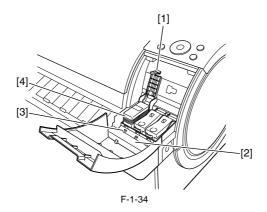
1.5.6 Ink Tank Cover (Inside)

iPF765 / iPF760 / iPF750 / iPF755

[Left Ink Tank Unit]



[Right Ink Tank Unit]



[1] Ink tank lock lever
This lever is used to protect and lock the ink tank. Open/close this lever when replacing the ink tank.

[2] Ink color label
Load each ink tank according to the label color and name.
[3] Ink tank lamp (red)
When the ink tank is opened, the ink tank lamp illuminates as follows:

- Stays lit

The ink tank is loaded properly.

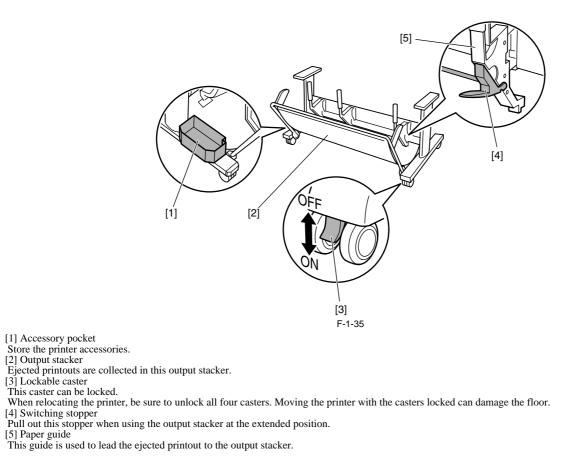
- Not lit
No ink tank is loaded or the remaining ink detection function is disabled.

- Blinking slow

- Blinking slow
Only a small amount of ink remains in the ink tank.
- Blinking fast
No ink remains in the ink tank.
[4] Ink tank
This is a cartridge containing ink of each color.

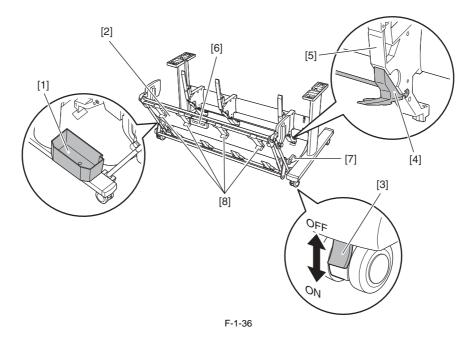
1.5.7 Stand (ST-33)

iPF750 / iPF755



1.5.8 Stand (ST-34)

iPF765 / iPF760 / iPF750 / iPF755



[1] Accessory pocket
Store the printer accessories.
[2] Output stacker
Ejected printouts are collected in this output stacker.
[3] Lockable caster

This caster can be locked.

When relocating the printer, be sure to unlock all four casters. Moving the printer with the casters locked can damage the floor.

[4] Switching stopper
Pull out depending on the paper size when using the output stacker in the extended position A.

[5] Paper guide
This guide is used to lead the ejected printout to the output stacker.

[6] Output stacker handle

This handle is grasped and supports the sliding output stacker when putting the output stacker into extended position B and returning it to the regular position.

[7] Output stacker release lever

Pull this lever towards you to release extended position B.

[8] Output stacker ejection guide

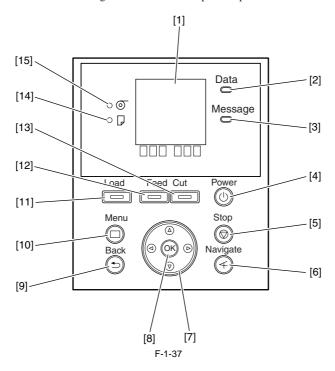
This guide supports the paper that is output when using the output stacker in extended position B.

1.6 Basic Operation

1.6.1 Operation Panel

iPF765 / iPF760 / iPF750 / iPF755

This section explains the functions of the buttons and the meanings of the LEDs on the operation panel.



[1] Display

Printer menus, statuses, and messages are shown on this display.

[2] Data reception lamp (green)

- Blinking: When the printer is making prints, this lamp indicates that a print job is being received or processed. When the printer is not making prints, this lamp indicates that the print job is suspended or the firmware data is being received.

Not lit: This lamp indicates that there is no print job.

[3] Message lamp (orange)

- Stays lit: A warning message is being displayed.
 Blinking: An error message is being displayed.
 Not lit: The printer is normal or not powered.

[4] [Power] button

Use this button to turn on or off the printer.

When the printer is powered or in the sleep mode, the [Power] button lamp stays lit.

[5] [Stop] button
Use this button to stop execution of a job or drying ink.

[6] [Navi] button

Use this key to confirm the procedures for loading/unloading media, replacing an ink tank, and replacing the printhead.

[7] Direction buttons

- ◀ button: Pressing this button on the [tab selection screen] moves the tab. When a menu requiring you to enter a value is selected, pressing this button allows you to move to the left-hand digit.
- ▲ button: Pressing this button in a menu displays the upper item or setting value.
- button: Pressing this button on the [tab selection screen] moves the tab. When a menu requiring you to enter a value is selected, pressing this button allows you to move to the right-hand digit.
- ▼ button: Pressing this button in a menu displays the lower item or setting value.

[8] [OK] button

Pressing this button on the [tab selection screen] displays the menu for the displayed tab.

In the menu for a tab, pressing this button at the item preceded by [+] allows you to move to the bottom layer of menu items, where you can execute a menu item or set values. Also press this button when a message asking you to press the [OK] button is shown on the display.

[9] [Back] button

Pressing this button displays the preceding screen.

[10] [Menu] button

Pressing this button displays the [tab selection screen] screen.

[11] [Media Change] button

Press this button when loading/replacing media.

[12] [Media Feed] button
When roll media is loaded, pressing this button allows you to change the media position. [13] [Media Cut] button
When roll media is loaded, pressing this button cuts the media.

[14] [Cut Sheet] lamp (green)

This lamp stays lit when cut sheet is selected as a media type. [15] [Roll Media] lamp (green)
This lamp stays lit when roll media is selected as a media type.

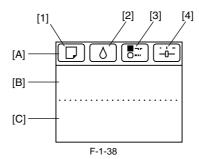
When the printer is in the sleep mode, pressing any button other than the [Power] button wakes up the printer.

1.6.2 Display

iPF765 / iPF760 / iPF750 / iPF755

When the printer starts, the [tab selection screen] appears on the display. There are four types of tabs on which the relevant printer status, menu, and error information are displayed.

The tab appears as the icon to the top field of display. The tab moves by ◀ key or ▶ key.



[1] Media tab
This tab shows the printer status and menu related to media. When this tab is shown in reverse video, pressing the [OK] button displays the [Media] menu.

- -[A] Top field of display: Shows the media icon in reverse video.
- -[B] Middle field of display: Shows the printer status and a menu name.
 -[C] Bottom field of display: Shows the media type in the first row and the media size in the second row.

[2] Ink tab
This tab shows the printer status and menu related to ink. When this tab is shown in reverse video, pressing the [OK] button displays the [Ink] menu.

- -[A] Top field of display: Shows the ink icon in reverse video.
- -[B] Middle field of display: Shows the printer status and a menu name.
- -[C] Bottom field of display: Shows the remaining ink levels of the ink tanks loaded in the printer.

[3] Job tab
This tab shows the printer status and menu related to the print job. When this tab is shown in reverse video, pressing the [OK] button displays the [Job] menu.
-[A] Top field of display: Shows the job icon in reverse video.
-[B] Middle field of display: Shows the printer status and a menu name.

[4] Setup/Adjustment tab

This tab shows the printer status and menu related to setup/adjustment. When this tab is shown in reverse video, pressing the [OK] button displays the [Setup/Adjustment] menu.

- -[A] Top field of display: Shows the setup/adjustment icon in reverse video.
 -[B] Middle field of display: Shows the printer status and a menu name.
 -[C] Bottom field of display: Shows the remaining ink level of the maintenance cartridge.

1.6.3 Menu

iPF765 / iPF760

The printer has a Main menu which includes a menu related to maintenance such as adjustment of ink ejection position of each nozzle and head cleaning, a menu related to printing settings such as auto cutting and ink drying time, and a menu related to parameters such as a message language.

1. Menu Operation

a) Displaying menu on each tab

Press the \blacktriangleleft key or \blacktriangleright key on the [Tab Selection] screen to select a tab, and press the [OK] key. A menu associated with each tab is displayed.

Press the ▲ key or ▼ key to select a menu and press the [OK] key.

The menu is selected and menu items are displayed.

Select a menu with [+] on the left side and press the [OK] key to navigate to lower level menus.

b) Setting menu items

Press the ▲ key or ▼ key to select an item to set and press the [OK] key. The item is checked on the left side check box to confirm that it is set. After 2 seconds, the menu that is one level above is displayed.

c) Setting numeric value for a menu item
Proceed as follows to set a numeric value for an item such as network settings.

- 1. Press the ◀ key or ▶ key to move the underscore to the field you want to enter a numeric value.
- 2. Press the ▲ key or ▼ key to enter a numeric value.
 3. Repeat steps 1 and 2 and press the [OK] key when finished.

2. Main MenuThe structure and settings of the main menu is as follows. The asterisk mark "*" is default setting.

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Load Paper]	[Roll Paper]			
	[Cut Sheet]			
[Eject Paper]				
[Chg. Paper Type]	[Roll Paper]	(The paper type is displayed here.)		
	[Cut Sheet]	(The paper type is displayed here.)		
[Chg. Paper Size]	[Sheet Size]	(The size of paper is displayed here.)		
		[CustomPapeSize]	(Set the length and width)	
	[Roll Length]	(Set the length)		
	[Roll Width]	(Set the width)	-	
[ManageRemainRoll]	[Off]*		-	
	[On]			
[Paper Details]	(The paper type is displayed	[Head Height]	[Automatic]*	
	here.)		[Highest]	
			[High]	
			[Standard]	
			[Low]	
			[Lowest]	
			[Super Low]	
		[Skew Check Lv.]	[High Accuracy]	
			[Standard]*	
			[Loose]	
			[Off]	
		[Cutting Mode]	[Automatic]	
			[Eject]	
			[Manual]	
		[Cut Speed]	[Fast]	
			[Standard]	
			[Slow]	
		[Trim Edge First]	[Automatic]	
			[Off]	
			[On]	
		[CutDustReduct.]	[Off]	
			[On]	
		[VacuumStrngth]	[Automatic]*	
			[Strongest]	
			[Strong]	
			[Standard]	
			[Weak]	
			[Weakest]	

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Paper Details]	(The paper type is displayed	[Scan Wait Time]	[Dry time]	[Off]*
	here.)			[1 sec.]
				[3 sec.]
				[5 sec.]
				[7 sec.]
				[9 sec.]
			[Area]*16	[Entire area]
				[Leading edge]
		[Roll DryingTime]	[Off]	
			[30 sec.]	
			[1 min.]	
			[3 min.]	
			[5 min.]	
			[10 min.]	
			[30 min.]	
			[60 min.]	
		[NearEnd RollMrgn]	[3mm]	
			[20mm]	
		[NearEnd Sht Mrgn]	[3mm]	
			[20mm]	
		[Bordless Margin]	[Automatic]	
			[Fixed]	
		[Width Detection]	[Off]	
			[On]*	
		[Return Defaults]		
[Print Paper Detail]				
[Keep Paper Type]	[Off]			
	[On]			

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Rep. Ink Tank]				
[Head Cleaning A]				

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Print Job]*14	[Job List]	(Select Print Job.)	[Delete]	
			[Preempt Jobs]*3	7
[Stored Job]*14	[Mailbox List]		[Job List]	[Print]
		been set.)		[Delete]
			[Print Job List]	
[Job Log]	(Choose from information	[Document Name]		
	about the latest three print jobs.)	[User Name]		
	J003.)	[Page Count]		
		[Job Status]	[OK]	
		Ī	[CANCELED]	7
		[Print Start Time]	[yyyy/mm/dd hh:mm:ss]	
		[Print End Time]	[yyyy/mm/dd hh:mm:ss]	
		[Print Time]	[xxxsec.]	
		[Print Size]	[xxxxxxxsq.mm]	
		[Media Type]		
			[USB]	
			[Network]	7
			[HDD]*14	1
		[Ink Consumed]	(Indicates the ink color.)	[xxx.xxx ml]
[Print Job Log]				
[Pause Print]	[Off]*			
	[On]			
[HDD Information]*14	[Total capacityBox free space]			

[Set./Adj. Menu]

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Test Print]	[Nozzle Check]			
	[Status Print]			
	[Interface Print]			
	[GL2 Set Print]			
	[Paper Details]			
	[Print Job Log]			
	[Menu Map]			
	[Color Palette]			
[Adjust Printer]	[Head Posi. Adj.]	[Auto(Standard)]		
		[Auto(Advanced)]		
		[Manual]*4		
	[Head Inc. Adj.]			
	[Feed Priority]	[Adj. Priority]	[Automatic]*	
			[Print Quality]	
			[Print Length]	
		[Adj. Quality]*5	[Auto(GenuinePpr)]	
			[Auto(OtherPaper)]	
			[Manual]	
		[Adjust Length]*6	[AdjustmentPrint]	[A:High]
				[B:Standard/Draft]
			[Change Settings]	[A:High]
				[B:Standard/Draft]
[Maintenance]	[Head Cleaning]	[Head Cleaning A]		
		[Head Cleaning B]		
	[Nozzle Check]			
	[Replace P.head]			
	[Repl. maint cart]			
	[Head Info]	[ProductName:]		
		[s/n:]		
		[Days elapsed:]		
		[Count [Mdot]:]		
[GL2 Replot]*15				
[GL2 Buffer Clear]*15				
[GL2 Settings]	[Quality Manager]	[Color Mode]	[Monochrome]	
			[Color (CAD) 1]*	
			[Color (CAD) 2]	
			[Color (CAD) 3]	
			[Color (CAD) 4]	
			[Color (CAD) 5]	
		[Print Quality]	[Fast]	
			[Standard]*	
			[High]	
		[Input Resolution]	[600dpi]*	
			[300dpi]	
		[Print (Economy)]	[Off]*	
			[On]	

First Level	Second Level	Third Level	Fourth Level	Fifth Level	Sixth Level
[GL2 Settings]	[Paper Manager]	[Paper Source]	[Automatic]*		
			[Roll Paper]		
			[Cut Sheet]		
		[Margin]	[3mm(Standard)]*		
			[5mm]		
		[Conserve Paper]	[Off]*		
			[On]		
		[Auto Rotate]	[Off]*		
			[On]		
		[Nesting]*14	[Use Nesting]	[Off]*	
				[On]	
			[Nesting WaitTime]*7	[xx min.]	
			[Cut Lines]*7	[Off]*	
				[On]	
	[Line & Pen Manager]	[Enable merge]	[Off]*		
			[On]		
		[Pen Setup]	[Select Palette]	[Software]*	
				[Palette A]	
				[Palette B]	
				[Factory]	
			[Define Palette]	[Palette A]	[Width]
				(Choose a pen number.)	(Indicates the Width value.)
				number.)	[Color]
					0-255
					[Line Attributes]-[No
					Setting]/[Circle Setting]
				[Palette B]	(Specify the values of
				(Choose a pen number.)	Width, Color, and Line
				(Indicates Width, Color, and Line	Attributes.)
				Attributes.)	
				[Factory]	
				(Choose a pen	
				number.) (Indicates Width,	
				Color, and Line	
				Attributes.)	
			[Reset Palette]	[All Palette]	
				[Palette A]	
				[Palette B]	
		[Smoothing]	[Software]*		
			[Smooth]		
		[ThickenFineLines]	[Off]*		
			[On]		
		[AdjustFaintLines]	[Off]		
			[On]*		
	[ProcessingOption]	[Warning]	[Off]*		
			[On]		
		[On-the-Fly]*14	[Off]*		
			[On]		
		[PageSizeProcess1]	[Off]*		
			[On]		
		[PageSizeProcess2]	[Off]*		
			[On]		
	[GL2 Set Print]				

First Level	Second Level	Third Level	Fourth Level	Fifth Level	Sixth Level	Seventh Level
Interface Setup]	[EOP Timer]*12	[10 sec.]				
		[30 sec.]				
		[1 min.]				
		[2 min.]				
		[5 min.]				
		[10 min.]*				
		[30 min.]				
		[60 min.]				
	[TCP/IP]*12	[IPv4]	[IPv4 Mode]	[Automatic]		
				[Manual]*		
			[Protocol]*8	[DHCP]	[On]	
					[Off]*	
				[BOOTP]	[On]	
					[Off]*	
				[RARP]	[On]	
					[Off]*	
			[IPv4 Settings]*13	[IP Address]	xxx.xxx.xxx	
				[Subnet Mask]	xxx.xxx.xxx	
				[Default G/W]	xxx.xxx.xxx	
			[DNS Setting]*13	[DNS Dync update]	[Off]	
					[On]	
				[Pri. DNS SrvAddr]		
				[Sec. DNS SrvAddr]		
				[DNS Host Name]		
				[DNS Domain Name]		
		[IPv6]	[IPv6 Support]	[On]		
				[Off]*		
			[IPv6	[On]*		
			StlessAddrs]*17	[Off]		
			[DHCPv6]*17	[On]	1	
				[Off]*	-	
			[DNS Setting]*13*17	[DNS Dync update]	[Statefull Addr]	[Off]*
				, , ,	1	[On]
					[Stateless Addr]	[Off]*
						[On]
				[Pri. DNS SrvAddr]		- 1
				[Sec. DNS SrvAddr]	-	
[NetWare]*12				[DNS Host Name]	-	
				[DNS Domain Name]	-	
	[NetWare]*12	[NetWare]	[On]	[-	
	[[[Off]*	-		
	[Frame Type]*9	[Auto Detect]	-			
			[Ethernet 2]	1		
			[Ethernet 802.2]*	1		
			[Ethernet 802.3]	1		
			[Ethernet SNAP]	1		
		[Print Service]*9	[BinderyPServer]	-		
		i init belvicej 9	[RPrinter]	-		
			[NDSPServer]	-		
				-		
		1	[NPrinter]		ĺ	İ

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Interface Setup]	[AppleTalk]*12	[On]		
		[Off]*		
	[Ethernet Driver]*12	[Auto Detect]	[On]*	
			[Off]	
		[Comm.Mode]*10	[Half Duplex]*	
			[Full Duplex]	
		[Ethernet Type]*10	[10Base-T]*	
			[100Base-TX]	
			[1000Base-T]	
		[Spanning Tree]	[Not Use]*	
			[Use]	
		[MAC Address]	xxxxxxxxxx	
	[Interface Print]*12			
FQ	[Return Defaults]*12	15 . 10	_	
[System Setup]	[Sleep Timer]	[5 min.]*	4	
		[10 min.]		
		[15 min.]		
		[20 min.]		
		[30 min.]		
		[40 min.]		
		[50 min.]	4	
		[60 min.]		
	(01 - 12 - m;)	[240 min.]	4	
	[Shut Down Timer]	[Off]		
		[5 min.]		
		[10 min]		
		[30 min]	4	
		[1 hour]	_	
		[4 hours] [8 hours]*	4	
		[12 hours]	_	
	[Buzzer]	[Off]		
	[Buzzer]	[On]*		
	[Contrast Adj.]	-4,-3,-2,-1,0*,+1,+2,+3,+4	+	
	[Date & Time]*12	[Date]	[yyyy/mm/dd]*11	_
	[= 0]	[]	[Time]	[hh:mm]
	[Date Format]	[yyyy/mm/dd]*		
		[dd/mm/yyyy]	7	
		[mm/dd/yyyy]		
	[Language]	[English]	7	
		[Japanese]	7	
		[Français]	7	
		[Italiano]	7	
		[Deutsch]	7	
		[Espanol]	7	
		[Russian]	7	
		[Chinese] (simplified)	7	
		[Korean]	7	

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[System Setup]	[Time Zone]*12	[0:London(GMT)]		
		[+1:Paris,Rome]		
		[+2:Athens,Cairo]		
		[+3:Moscow]		
		[+4:Eerevan,Baku]		
		[+5:Islamabad]		
		[+6:Dacca]		
		[+7:Bangkok]		
		[+8:Hong Kong]		
		[+9:Tokyo,Seoul]		
		[+10:Canberra]		
		[+11NewCaledonia]		
		[+12:Wellington]		
		[-12:Eniwetok]		
		[-11:Midway is.]		
		[-10Hawaii(AHST)]		
		[-9:Alaska(AKST)]		
		[-8:Oregon (PST)]		
		[-7:Arizona(MST)]		
		[-6:Texas(CST)]		
		[-5:NewYork(EST)]		
		[-4:Santiago]		
		[-3:Buenos Aires]		
		[-2:]		
		[-1:Cape Verde]		
	[Length Unit]	[meter]*		
		[feet/inch]		
	[Detect Mismatch]	[Pause]		
		[Warning]		
		[None]*		
		[Hold Job]*14		
	[Paper Size Basis]	[Roll Selection 1]	[ISO A3 (297mm)]*	
			[300mm Roll]	
		[Roll Selection 2]	[10inch (254mm)]*	1
			[JIS B4 (257mm)]	
	[Keep Paper Size]	[Off]*		
		[On]		
	[TrimEdge Reload]	[Automatic]		
		[Off]*		
		[On]		
	[Rep.P.head Print]	[Off]		
		[On]*		

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[System Setup]	[Nozzle Check]	[Frequency]	[Standard]*	
			[1 page]	1
		[Warning]	[Off]*	
			[On]	1
	[Use USB]*12	[On]*		
		[Off]		
	[Use Ethernet]*12	[On]*		
		[Off]		
	[Use RemoteUI]*12	[On]*		
		[Off]		
	[Reset PaprSetngs]*12			
	[Erase HDD Data]*14	[High Speed]*12		
		[Secure High Spd.]*12		
		[Secure]*12		
	[Output Method]*14	[Print]*		
		[Print (Auto Del)]		
		[Save: Box XX]		
	[Print After Recv]*14	[Off]*		
		[On]		
	[Save: Shared Box]*12*14	[Off]		
		[On]*		
	[Show Job Log]*12	[Off]		
		[On]		
[Prep.MovePrinter]				
[Admin. Menu]*12	[Change Password]*13	(The screen for setting the password is displayed)		
	[Init.Admin.Pswd]*13			
[Printer Info]	[Paper Info]			
	[Ink Info]			
	[Head Info]			
	[System Info]			
	[Error Log]			
	[Other Counter]	1		

- *1: Available only if ManageRemainRoll is On.

- *1: Available only if ManageRemainRoll is On.

 *2: Available only if Width Detection is set to Off.

 *3: Print Anyway is displayed when a job being held is selected.

 *4: Available after Auto(Advanced) in Head Posi. Adj. has been used once.

 *5: Available when you have specified Feed Priority > Adj. Priority > Automatic or Print Quality.

 *6: Available when you have specified Feed Priority > Adj. Priority > Automatic or Print Length.

 *7: Available only if Use Nesting is set to On.

 *8: Not shown if you have set IPv4 Mode to Manual.

 *9: Not shown if you have set NetWare to Off.

 *10: Not shown if you have set Auto Detect to On.

 *11: Follows the setting in Date Format.

 *12: Viewing and configuration is possible for administrators, and only viewing for other users.

 *13: Viewing and configuration is possible for administrators only.

 *14: Displayed only on models equipped with HDD.

 *15: Displayed only on models not equipped with HDD.

 *16: Leading edge is not available as a setting option in the Paper Detailed Settings dialog box of the printer driver.

 *17: Not displayed if IPv6 Support is Off.
- *17: Not displayed if IPv6 Support is Off.

3. Main menu during printingThe structure of the main menu during printing is as follows.

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Adj. Fine Feed]				
[Printer Info]	[Paper Info]			
	[Ink Info]			
	[Head Info]			
	[System Info]			
	[Error Log]			
	[Other Counter]			

4. Main Menu SettingsMain menu items are described in the following tables.

Setting Item		Description/Instructions	
[Load Paper]		Select and load either cut sheet or roll media.	
[Eject Paper]		Remove currently loaded paper.	
[Chg. Paper Type]		Change currently set paper type.	
[Chg. Paper Size]		Change currently set paper size.	
[ManageRemainRoll]		Choose On to print a barcode at the end of a roll before you remove it. The printed barcode can be used in managing the amount of roll paper left. ChooseOff if you prefer not to print the barcode.	
[Paper Details]	[Head Height]	Adjust the Printhead height.	
(The paper type is displayed here.)	[Skew Check Lv.]	If you print on the paper that has an irregular width, choose Loose for a higher skew detection threshold, or choose Off to disable skew detection. However, if paper is loaded askew when detection is Off, note that paper jams or Platen soiling may occur.	
	[Cutting Mode]	Select whether to use standard round blade cutter or not. Select [Automatic] to cut paper after printing. Select [Manual] to print a line at the cut position after printing without cutting. Select [Eject] to prevent the printout from dropping until the ink dries after printing.	
	[Cut Speed]	Choose the cutting speed. If you use adhesive paper, choosing Slow helps prevent adhesive from sticking to the cutter and keeps the cutter sharp.	
	[Trim Edge First]	If a roll is loaded, the end of the paper will be cut.	
	[CutDustReduct.]	Choose On to reduce the amount of debris generated when cutting film and similar media by printing a line at the cut position. This option reduces the amount of debris given off after cutting. It also helps prevent adhesive from sticking to the cutter and keeps the cutter sharp if you use adhesive paper.	
	[VacuumStrngth]	Specify the level of suction that holds paper against the Platen.	
	[Scan Wait Time]	Specify the time to wait for the ink to dry between each scan in bidirectional printing, in consideration of how quickly the ink dries. Note that printing will take longer if you specify a wait time.	
	[Roll DryingTime]	Specify the time to wait for the ink to dry for each sheet.	
	[NearEnd RollMrgn]	Specify the minimum margin at the leading edge of roll paper to ensure better printing quality at the leading edge. Note that if you choose 3mm, it may lower the printing quality at the leading edge and affect feeding accuracy. The printed surface may be scratched, and ink may adhere to the leading edge. It may also cause the Platen to become soiled.	
	[NearEnd Sht Mrgn]	Specify a margin at the leading edge of sheets to ensure better printing quality at the leading edge. Note that if you choose 3mm, it may lower the printing quality at the leading edge and affect feeding accuracy. The printed surface may be scratched, and ink may adhere to the leading edge.	
	[Bordless Margin]	Adjust the margin during borderless printing. Choose Automatic to have the printer automatically detect the paper width and configure the margin settings for borderless printing. If margins are mistakenly created when Automatic is selected, choose Fixed. In this case, the paper width is not detected automatically, and the document is printed without borders, using the margin settings required by the printer.	
	[Width Detection]	Set to print from desired position such as when printing inside a frame. Select [Off] to disable paper width and skew detection. If paper is loaded askew, paper may jam or platen soiling may occur.	
	[Return Defaults]	Choose OK to restore Paper Details to the factory default values.	
[Print Paper Detail]		Print the paper settings set with [Paper Details].	
[Keep Paper Type]		Select [On] to continue using the same type of paper.	

Setting Item	Description/Instructions
[Rep. Ink Tank]	When replacing the Ink Tank, choose Yes and follow the instructions on the screen.
£ 3	Specify Printhead cleaning options. Execute Head Cleaning A if printing is faint, oddly colored, or contains foreign substances.

	Settin	g Item		Description/Instructions	
[Print Job]	[Job List]	(Select Print	[Delete]	Delete the current job or queued jobs.	
		Job.)	[Preempt Jobs]	Print the job first after the current print job is finished printing.	
[Stored Job]	[Mailbox List]	(Enter a password if	[Job List]- [Print]	Prints a saved job.	
		one has been set.)	[Job List]- [Delete]	Deletes a saved job.	
			[Print Job List]	Prints a list of saved jobs.	
[Job Log]	(Choose from	[Document Nan	ne]	Displays the name of the document in the most recently printed job.	
	information about the latest	[User Name]		Displays the name of the user who has transmitted the job.	
	three print	[Page Count]		Displays the number of sheets of the job.	
	jobs.)	[Job Status]		Displays the result of processing of the job.	
		[Print Start Tim	e]	Displays the time at which the job started printing.	
		[Print End Time	:]	Displays the time at which the job finished printing.	
		[Print Time]		Displays the time spent printing the job.	
		[Print Size]		Displays the size of the paper used for printing the job.	
		[Media Type]		Displays the type of the paper used for printing the job.	
		[Interface]		Displays the interface of the job.	
		[Ink Consumed		Displays the amount of ink consumed for printing the job.	
[Print Job Log]	[Print Job Log]			Print the print job information such as paper type, size, and ink consumption. Ink consumption is the approximate amount of ink used to print one sheet.	
[Pause Print]				Select [On] to stop printing.	
[HDD Informat	ion]			Displays the total size of the HDD and the remaining box size.	

[Set./Adj. Menu]

Mean Map Print the menu list.	Setting Item			Description/Instructions	
Interface Print Print the interface settings. Print the interface settings. Print the GL2 settings. Print the GL2 settings. Print the GL2 settings. Print the GL2 settings. Print Job Log Print Job Log Print print Job information such as paper type, size, and ink consumption. Ink consumption is the approximate amount of ink used to print one sheet. Print the GL2 coor list. Print and read a test pattern for the automatic adjustment of Printhead alignment relative to the printing direction. Print and read a test pattern for the automatic adjustment of Printhead alignment relative to the printing direction. Print and read a test pattern for the automatic adjustment of Printhead alignment relative to the printing direction. Print and read a test pattern for the automatic adjustment of Printhead alignment relative to the printing direction. Print and read a test pattern for the automatic adjustment of Printhead alignment relative to the printing direction. Print and read a test pattern for adjusting the inclination of the printhead. Print and read a test pattern for adjusting the inclination of the printhead. Print Quality or print and an adjustment pattern for adjusting the inclination of the printhead. Print Quality or print and printing direction. Print Quality or printing the inclination of the printhead. Print Length in printing direction. Print Length in printing and printing and printing and printing and the feed amount is automatically adjusted from the printing direction and recording to the printing and print	[Test Print]	[Nozzle Check]		Print a nozzle check pattern.
GL2 Set Print Print the GL2 settings. Print the GL2 settings. Print the GL2 settings set with [Paper Details] Print the paper settings set with [Paper Details]. Print the GL2 color list.		[Status Print]			Print the printer information.
Print print job information such as paper type, size, and ink consumption. Ink consumption is the approximate amount of ink used to print one sheet. Menu Map		[Interface Print	:]		Print the interface settings.
Print Job Log Print print job information such as paper type, size, and ink consumption. Ink consumption is the approximate amount of ink used to print one sheet. Print the menu list. Print and read a test pattern for the automatic adjustment of Primhead alignment relative to the printing direction. Print and read a test pattern for the automatic adjustment of Primhead alignment relative to the printing direction. Print aread a test pattern for the automatic adjustment of Primhead alignment relative to the printing direction. Print a pattern for adjustment of Primhead alignment relative to the printing direction. Print a separatern for adjustment of Primhead alignment relative to the printing direction. Print a pattern for adjustment of Primhead alignment relative to the printing direction. Print a pattern for adjustment of Primhead alignment relative to the printing direction. Print a pattern for adjustment of Primhead alignment relative to the printing direction. Print a pattern for adjustment of Primhead alignment relative to the printing direction. Print a pattern for adjustment of Primhead alignment relative to the printing direction. Print a pattern for adjusting the inclination of the printing direction. Print a pattern for adjusting the inclination of the printing direction. Print a pattern for adjusting the inclination of the printing direction. Print a pattern for adjustment pattern for adjustment. Print a pattern for adjustment pattern for adjustment pattern for adjustment pattern. Print Length or adjustment pattern for adjustment pattern for adjustment pattern for the paper reference guide. A pattern to adjust the paper feed amount is printed, and the feed amount is automatically adjusted from the printed result. This takes longer that [Print Length] pattern for adjustment pattern. Print a test pattern for adjustment pa		[GL2 Set Print]			Print the GL2 settings.
Meanu Map Print the menu list. Print the GLZ color list. Adjust Printer		[Paper Details]			Prints the paper settings set with [Paper Details].
Color Palette Print the GL2 color list. Print and read a test pattern for the automatic adjustment of Printhead alignment relative to the printing direction. [Auto(Advanced)]		[Print Job Log]			Print print job information such as paper type, size, and ink consumption. Ink consumption is the approximate amount of ink used to print one sheet.
Adjist Printer		[Menu Map]			Print the menu list.
Adj.		[Color Palette]			Print the GL2 color list.
The nozzle and printing direction. Print a test pattern for adjustment of Printhead alignment relative to the printing direction.	[Adjust Printer]		[Auto(Standard	1)]	
Find Feed Priority [Adj. Priority [Adj. Priority Print an adjustment value manually based on the resulting pattern.			[Auto(Advance	ed)]	
Feed Priority [Adj. Priority [Automatic] [Print Quality] [Print Quality] [Print Quality] [Print Length] [Adj. Quality [Print Length] [Adj. Quality [Print Length] [AdioGenuin ePpr)] [Adj. Quality [AutoGenuin ePpr)] [AutoGenuin ePpr)] Apattern to adjust the paper feed amount. However, selecting [Print Length] Apattern to adjust the paper feed amount is printed, and the feed amount is automatically adjusted from the printed result. AutoGenuin ePpr) Apattern to adjust the paper feed amount is printed, and the feed amount is automatically adjusted from the printed result. Altoround Apattern to adjust the paper feed amount is printed, and the feed amount is automatically adjusted from the printed result. This takes longer than [Auto (GenuinePpr)] to print and consumes more ink. Agiust [Adjust method Apattern to adjust the paper feed amount is printed, and the feed amount is automatically adjusted from the printed result. This takes longer than [Auto (GenuinePpr)] to print and consumes more ink. Apattern to adjust the paper feed amount according to the type of paper. Print a pattern to adjust the paper feed amount according to the type of paper. Print a pattern to adjust the paper feed amount according to the type of paper. Print a pattern to adjust the paper feed amount according to the type of paper. Print a test pattern for adjustment relative to paper stretching or shrinkage, after which you are enter the amount of adjustment. Print a test pattern for adjustment relative to paper stretching or shrinkage, after which you are enter the amount of adjustment. Print a test pattern for adjustment relative to paper stretching or shrinkage, after which you are enter the amount of adjustment. Print a test pattern for adjustment relative to paper stretching or shrinkage, after which you are enter the amount of adjustment with adjustment relative to paper stretching or shrinkage, after which you are enter the amount of adjustment for adjustment with adjustm			[Manual]		
Print Quality Print Length Print Lengt		[Head Inc. Adj	.]		Print an adjustment pattern for adjusting the inclination of the printhead.
Pepr A pattern to adjust the paper feed amount is printed, and the feed amount is automatically adjusted from the printed result. [Auto(OtherPa per)] Set when using paper not described in the paper reference guide. A pattern to adjust the paper feed amount is printed, and the feed amount is automatically adjusted from the printed result. This takes longer than [Auto (GenuinePpr)] to print and consumes more ink. [Manual] Select for paper that cannot be adjusted by [Auto(GenuinePpr)] or [Auto(OtherPaper)], such as highly transparent paper. Print a pattern to adjust the paper feed amount according to the type of paper. Print a pattern to adjust the paper feed amount according to the type of paper. Print a pattern to adjust the paper feed amount according to the type of paper. Print a pattern to adjust the paper feed amount according to the type of paper. Print a pattern to adjust the paper feed amount according to the type of paper. Print a pattern to adjust the paper feed amount according to the type of paper. Print a pattern to adjust the paper feed amount according to the type of paper. Print a pattern to adjust the paper feed amount according to the type of paper. Print a pattern to adjust the paper feed amount according to the type of paper. Print a pattern to adjust the paper feed amount according to the type of paper. Print a pattern to adjust the paper feed amount according to the type of paper. Print a pattern to adjust the paper feed amount according to the type of paper. Print a pattern to adjust the paper feed amount according to Friend Printle (Printle (Printle Printle Printle (Printle Printle Pri		[Feed Priority]	[Adj. Priority]	[Print Quality]	accurately control the feed amount. However, selecting [Print Length] may cause colors to
Perical adjusted from the printed result. This takes longer than [Auto (GenuinePpr)] to print and consumes more ink. Manual Select for paper that cannot be adjusted by [Auto(GenuinePpr)] or [Auto(OtherPaper)], such as highly transparent paper. Print a pattern to adjust the paper feed amount according to the type of paper. Adjust			[Adj. Quality]		A pattern to adjust the paper feed amount is printed, and the feed amount is automatically
Specify Printhead cleaning [Nozzle Check] [Roglace P.head] [Ro					A pattern to adjust the paper feed amount is printed, and the feed amount is automatically adjusted from the printed result.
Length				[Manual]	
Settings [A:High B:Standard Draft Enter the result adjusted with [AdjustmentPrint] or the difference with your own measurement in %. Increase the adjustment value to increase the feed amount for paper that tends to expand, and reduce it for paper that tends to shrink. Maintenance [Head Cleaning] Specify Printhead cleaning options. Choose Head Cleaning A if printing is faint, oddly colored, or contains foreign substances. Choose Head Cleaning B if no ink is printed at all, or if printing is not improved by Head Cleaning A. [Nozzle Check Print a nozzle check pattern. [Replace P.head Not displayed during a warning message that the remaining Maintenance Cartridge capacity is low. When exchanging the Printhead, choose Yes and follow the instructions on the screen. [GL2 Replot] Prints again the last data printed on the GL2.				int]-[A:High]/ [B:Standard/	
Choose Head Cleaning A if printing is faint, oddly colored, or contains foreign substances. Choose Head Cleaning B if no ink is printed at all, or if printing is not improved by Head Cleaning A. [Nozzle Check] Print a nozzle check pattern. [Replace P.head] Not displayed during a warning message that the remaining Maintenance Cartridge capacity is low. When replacing the Printhead, choose Yes and follow the instructions on the screen. [Repl. maint cart] When exchanging the maintenance cartridge, choose Yes and follow the instructions on the screen. [GL2 Replot] Prints again the last data printed on the GL2.				Settings]- [A:High]/ [B:Standard/	Adjust the expansion rate of the currently loaded paper. Enter the result adjusted with [AdjustmentPrint] or the difference with your own measurement in %. Increase the adjustment value to increase the feed amount for paper that tends to expand, and
[Replace P.head] Not displayed during a warning message that the remaining Maintenance Cartridge capacity is low. When replacing the Printhead, choose Yes and follow the instructions on the screen. [Repl. maint cart] When exchanging the maintenance cartridge, choose Yes and follow the instructions on the screen. [GL2 Replot] Prints again the last data printed on the GL2.	[Maintenance]	[Head Cleaning	g]		Choose Head Cleaning A if printing is faint, oddly colored, or contains foreign substances. Choose Head Cleaning B if no ink is printed at all, or if printing is not improved by Head
is low. When replacing the Printhead, choose Yes and follow the instructions on the screen. [Repl. maint cart] When exchanging the maintenance cartridge, choose Yes and follow the instructions on the screen. [GL2 Replot] Prints again the last data printed on the GL2.		[Nozzle Check]		Print a nozzle check pattern.
screen. [GL2 Replot] Prints again the last data printed on the GL2.		[Replace P.hea	d]		
		[Repl. maint ca	art]		When exchanging the maintenance cartridge, choose Yes and follow the instructions on the
[GL2 Buffer Clear] Delete the print data of the replot buffer.	[GL2 Replot]				Prints again the last data printed on the GL2.
	[GL2 Buffer Clear	r]			Delete the print data of the replot buffer.

	Sett	ing Item		Description/Instructions	
[GL2 Settings]	[Quality	[Color Mode]	[Monochrome]	Print by the monochrome.	
	Manager]		[Color (CAD) 1]	Print by the standard color.	
			[Color (CAD) 2]	Print by the bright color.	
			[Color (CAD) 3]	Print by the color emulated the Canon iPF500/iPF600/iPF700/iPF510/iPF610/iPF710/iPF605/iPF720/iPF810/iPF820.	
			[Color (CAD) 4]	Print by the color emulated the HP Designjet 500/800.	
			[Color (CAD) 5]	Print by the color emulated the HP Designjet 1000.	
		[Print Quality]	•	Select the print quality.	
		[Input Resolution	on]	Choose the printer input resolution from between [600dpi] and [300dpi].	
		[Print (Econom	y)]	Prints with a lower grade of print than normal, but with less ink consumption. Select [ON] to economize on inks.	
	[Paper	[Paper Source]		Select how to feed paper for printing on the HP-GL/2.	
	Manager]	[Margin]		Set the top/bottom and left/right margins of the paper. For cut-sheet, the trailing edge margin is 23mm. However, if the leading edge margin is set with [Paper Details], that value has priority.	
		[Conserve Pape	er]	Prints by economizing on paper.	
	[Auto I			If a document has its long side shorter than the roll width, the page rotates by 90 degrees automatically to economize on paper. If a document contains horizontally long data such that it has its long side longer than the roll width and its short side shorter than the roll width, the page rotates 90 degrees to print within the boundaries of the paper. HP RTL cannot rotate. In case of HP RTL image, the image may be truncated or a blank paper may be ejected because the image cannot be rotated even if the paper size is rotated by 90 degrees. In that case, set [Auto Rotate] to [Off].	
		[Nesting]	[Use Nesting]	Select [On] to print pages when they are tiled fully to the roll width, instead of printing them one by one.	
			[Nesting WaitTime]	Set the time to elapse before printing.	
			[Cut Lines]	Select [On] to print perforated lines between pages.	
	[Line & Pen Manager]	[Enable merge]		When lines overlap, set whether to merge or overwrite the colors of the overlapping lines. Select [Off] to overwrite with the line printed later. Select [On] to merge all overlapping colors.	
		[Pen Setup]	[Select Palette]	Select the value related to pen from [Software], [Palette A], [Palette B], or [Factory]. Select [Software] to print according to the application side instruction. Select [Palette A] or [Palette B] to print with value set by [Define Palette].	
			[Define Palette]	Set [Width], [Color], and [Line Attributes] for the palette's [Pen Number]. Select [Factory] to check the value when [Factory] is selected for [Select Palette]. For [Line Attributes], select the shape of line end and joint between lines as [No Setting] or [Circle Setting].	
			[Reset Palette]	Return the [Define Palette] settings to factory settings.	
		[Smoothing]		Choose whether to draw an arc with a smooth curve or with a polygon.	
		[ThickenFineL	ines]	Select [On] to print thin lines clearly.	
		[AdjustFaintLin	nes]	If thin lines print in a tint of color varied from other patterns, selecting [Off] may provide the print result as intended, though the thin lines may print, interrupted, depending on the color.	
	[ProcessingOp	[Warning]		Select [On] to display warnings during GL2.	
1	tion]	[On-the-Fly]		In printing data consisting solely of HP RTL, if the data is slow to print, select [On] to expedite the time at which the data starts printing. Verify the print result to make sure that images are not chipped in this case.	
		[PageSizeProce		Normally, an image is printed inside margins necessary for printing, but if the image data itself has margins, the print position will not be offset when this is set [On].	
		[PageSizeProce	ess2]	Select [On] to determine the paper size based on the drawing area.	
	[GL2 Set Print]			Print the GL2 settings.	

		Setting 1	Item		Description/Instructions	
[Interface Setup]	[EOP Timer]				Specify the timeout period before cancellation of print jobs that cannot be received by the printer.	
	[TCP/IP]	[IPv4]	[IPv4 Mode]		Choose whether the printer IP address is configured automatically or a static IP address is entered manually.	
			[Protocol]	[DHCP]/ [BOOTP]/[RARP]	Specify the protocol used to configure the IP address automatically.	
			[IPv4 Settings]	[IP Address]/ [Subnet Mask]/ [Default G/W]	Specify the printer network information when using a static IP address. Enter the IP address assigned to the printer, as well as the network subnet mask and default gateway.	
			[DNS Settings]	[DNS Dync update]	Specify whether DNS server registration is updated automatically.	
				[Pri. DNS SrvAddr]/[Sec. DNS SrvAddr]	Specify the DNS server address.	
				[DNS Host Name]	Specify the DNS host name.	
				[DNS Domain Name]	Specify the DNS domain name.	
		[IPv6]	[IPv6 Support]		Set whether to support IPv6 connection.	
			[IPv6 StlessAddrs]		Set whether to use IPv6 stateless address.	
			[DHCPv6]		Set whether to use DHCPv6 setting.	
			[DNS Settings]	[DNS Dync update]-[Statefull Addr]/[Stateless Addr]	Specify whether DNS server registration is updated automatically.	
				[Pri. DNS SrvAddr]/[Sec. DNS SrvAddr]	Specify the DNS server address.	
				[DNS Host Name]	Specify the DNS host name.	
				[DNS Domain Name]	Specify the DNS domain name.	
	[NetWare]	[NetWare]	<u>.</u>		Specify the NetWare protocol. To apply your changes, choose Register Setting.	
		[Frame Ty	pe]		Specify the frame type to use.	
		[Print Serv	rice]		Choose the print service.	
	[AppleTalk]				Specify whether to use the AppleTalk protocol. To apply your changes, choose Register Setting.	
	[Ethernet Driver]*12	[Auto Dete	[Auto Detect]		Specify the communication method. To apply your changes, choose Register Setting. Choose On for automatic configuration of the LAN communication protocol. Choose Off to use settings values of Comm.Mode and Ethernet Type.	
		[Comm.M	ode]		Choose the LAN communication method.	
		[Ethernet	Гуре]		Choose the LAN transfer rate.	
		[Spanning	Tree]		Choose whether spanning-tree packets are supported over the LAN.	
		[MAC Ad	dress]		Displays the MAC address.	
	[Interface Prin	t]			Print the interface settings.	
	[Return Defau	lts]			Select [OK] to return the [Interface Setup] settings to factory default.	

	Setting Item		Description/Instructions
[System Setup]			Specify the period before the printer enters Sleep mode.
	[Shut Down Timer]		Specify the period the printer shuts down after entering Sleep mode.
	[Buzzer]		Set the buzzer. Choose On for the buzzer to sound once for warnings and three times for errors.
	[Contrast Adj.]		Adjust the Display Screen contrast level.
	[Date & Time]	[Date]	Set the current date.
		[Time]	Set the current time. This can be set only when [Date] is set.
	[Date Format]		Specify the date format.
	[Language]		Specify the language used on the Display Screen.
	[Time Zone]		Specify the time zone. Time zone options indicate a main city in this time zone and the difference from Greenwich Mean Time.
	[Length Unit]		Choose the unit of measurement when roll length is displayed. You can switch the unit displayed for the remaining paper amount.
	[Detect Mismatch]		Set the printing behavior when the paper type and size set with the printer menu does not match the paper type and size set with the printer driver. Select [Pause] to pause printing. Select [Warning] to print a warning and continue printing. Select [None] to continue printing without displaying a warning. Select [Hold Job] to queue the job with different paper type and size in a job queue on the hard disk.
	[Paper Size Basis]	[Roll Selection 1]	When the size of roll paper is detected, select which roll width to use if the roll width is between [ISO A3 (297mm)] and [300mm Roll].
		[Roll Selection 2]	When the size of roll paper is detected, select which roll width to use if the roll width is between [10inch (254mm)] and [JIS B4 (257mm)].
	[Keep Paper Size]		Select [On] to give priority to paper size. If the margin set with the printer driver is less than the margin set with the printer menu, the margin set with the printer menu has priority and text and images extending beyond the margins are truncated. Select [Off] to give priority to margin settings. If the margins set with the printer driver and the margins set with the printer menu are different, the larger settings are used for printing.
	[TrimEdge Reload]		Select whether cut the leading edge of the paper when the paper at the standby position has loaded. Cut it when the roller trace at the standby position attract attention. Choose On to cut it everytime when the paper at the standby position has loaded. Choose Automatic to cut it when the paper at the standby position during two days or more has loaded.
	[Rep.P.head Print]		Select [On] to automatically perform [Adjust Detail] after replacing the Printhead.
	[Nozzle Check]		Set with [Frequency] the timing to check for nozzle clogging after printing. Select [Standard] to adjust the checking timing according to the nozzle usage. Select [1 page] to check after each page. Select [On] for [Warning] to display a warning when the print head nozzle is clogged while printing.
	[Use USB]		Select [Off] to disable the function of the USB connection.
	[Use Ethernet]		Select [Off] to disable the function of the ethernet connection.
	[Use RemoteUI]		Select [Off] to disable access from RemoteUI and enable setting only from the operation panel.
	[Reset PaprSetngs]		Restores settings that you have changed with Media Configuration Tool to the factory default values.

	Setting Item		Description/Instructions	
[System Setup]	[Erase HDD Data]	[High Speed]	Delete the file management information of the saved data in the HDD.	
		[Secure High Spd.]	Overwrite the random data in the whole of the hard disk drive.	
	[Secure]		Overwrite 00 and FF and random data in the whole of the hard disk drive once at a time. Execute the verify check whether the data has written correctly to the hard disk drive.	
	[Output Method]	[Print]	Select the output method of jobs sent from software other than the printer driver. This can be	
		[Print (Auto Del)]	set from the printer if you are using a printer driver. Select [Print] to print normally. Select [Print (AutoDel)] to print and delete the data in hard	
		[Save: Box XX]	disk. Select [Save: Box XX] to save to box without printing.	
	[Print After Recv]	1	Setting of jobs sent from software other than the printer driver. This can be set from the printer if you are using a printer driver. Select [On]to print after saving.	
	[Save: Shared Box]		Select [Off] to print without saving to a common box.	
	[Show Job Log]		Selecting off prevents display of the log in Job Menu > Job Log. Additionally, the log is not printed if you choose Job Menu > Print Job Log. Note that because job logs are not collected, the Status Monitor accounting functions will not work correctly.	
[Prep.MovePrinter]	er]		Select when moving the printer. Follow the instruction on the screen and perform the necessar process. This is not displayed when displaying a warning message about the amount remaining maintenance cartridge.	
[Admin. Menu]	[Change Password]		Set a password to restrict displaying/setting of menus as follows. Allowed value is from 0 to 9999999.	
			- Allow only administrator to display/set	
			[IPv4] [Change Password]	
			[Init.Admin.Pswd]	
			- Allow administrator to display/set and non-administrator to display only [Interface Setup] (exclude [IPv4])	
			[Date & Time]	
			[Date Format]	
			[Time Zone] [Use RemoteUI]	
			[Reset PaprSetngs]	
			[Save: Shared Box]	
	[Init.Admin.Pswd]		Press [OK] to return the [Administrator Menu] password to factory default.	
[Printer Info]	[Paper Info]		Displays the currently set paper type, size and printer settings.	
	[Ink Info]		Displays ink levels and maintenance cartridge capacity.	
	[Head Info]		Displays the Printhead information.	
	[System Info]		Displays the firmware version, serial number, and interface information.	
	[Error Log]		Displays the most recent error messages (up to 5).	
	[Other Counter]		Displays the total area printed.	

1.6.4 Menu

iPF750 / iPF755

The printer has a Main menu which includes a menu related to maintenance such as adjustment of ink ejection position of each nozzle and head cleaning, a menu related to printing settings such as auto cutting and ink drying time, and a menu related to parameters such as a message language.

1. Menu Operation

a) Displaying menu on each tab

Press the \blacktriangleleft key or \blacktriangleright key on the [Tab Selection] screen to select a tab, and press the [OK] key. A menu associated with each tab is displayed.

Press the ▲ key or ▼ key to select a menu and press the [OK] key.

The menu is selected and menu items are displayed.

Select a menu with [+] on the left side and press the [OK] key to navigate to lower level menus.

b) Setting menu items

Press the ▲ key or ▼ key to select an item to set and press the [OK] key. The item is checked on the left side check box to confirm that it is set. After 2 seconds, the menu that is one level above is displayed.

c) Setting numeric value for a menu item
Proceed as follows to set a numeric value for an item such as network settings.

- 1. Press the ◀ key or ▶ key to move the underscore to the field you want to enter a numeric value.
- 2. Press the ▲ key or ▼ key to enter a numeric value.
 3. Repeat steps 1 and 2 and press the [OK] key when finished.

2. Main MenuThe structure and settings of the main menu is as follows. The asterisk mark "*" is default setting.

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Load Paper]	[Roll Paper]	(The paper type is displayed here.)		
	[Cut Sheet]	(The paper type is displayed here.)		
[Eject Paper]				
[Chg. Paper Type]	[Roll Paper]	1		
	[Cut Sheet]			
[Chg. Paper Size]	[Sheet Size]	(The paper type is displayed here.)		
	[Roll Length]			
	[Roll Width]			
[ManageRemainRoll]	[Off]*			
	[On]			
[Paper Details]	(The paper type is displayed	[Head Height]	[Automatic]*	
	here.)		[Highest]]
			[High]]
			[Standard]	
			[Low]]
			[Lowest]]
			[Super Low]]
		[Skew Check Lv.]	[High Accuracy]	
			[Standard]*	
			[Loose]	
			[Off]	
		[Cutting Mode]	[Automatic]	
			[Eject]	
			[Manual]	
		[Cut Speed]	[Fast]	
			[Standard]	
			[Slow]	
		[Trim Edge First]	[Automatic]	
			[Off]	
			[On]	
		[CutDustReduct.]	[Off]	
			[On]	
		[VacuumStrngth]	[Automatic]*	
			[Strongest]	_
			[Strong]	
			[Standard]	<u> </u>
			[Weak]	_
			[Weakest]	

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Paper Details]	(The paper type is displayed	[Scan Wait Time]	[Dry time]	[Off]
	here.)			[1 sec.]
				[3 sec.]
				[5 sec.]
				[7 sec.]
				[9 sec.]
			[Area]*16	[Entire area]
				[Leading edge]
		[Roll DryingTime]	[Off]	
			[30 sec.]	
			[1 min.]	
			[3 min.]	
			[5 min.]	
			[10 min.]	
			[30 min.]	
			[60 min.]	
		[NearEnd RollMrgn]	[3mm]	
			[20mm]	
		[NearEnd Sht Mrgn]	[3mm]	
			[20mm]	
		[Bordless Margin]	[Automatic]	
			[Fixed]	
		[Width Detection]	[Off]	
			[On]	
		[Return Defaults]		
[Print Paper Detail]				
[Keep Paper Type]	[Off]			
Ì	[On]			

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Rep. Ink Tank]				
[Head Cleaning A]				

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Print Job]*14	[Job List]	(Select Print Job.)	[Delete]	
			[Preempt Jobs]*3	7
[Stored Job]*14	[Mailbox List]	(Enter a password if one has	[Job List]	[Print]
		been set.)		[Delete]
			[Print Job List]	
[Job Log]	(Choose from information	[Document Name]		
	about the latest three print jobs.)	[User Name]		
	J003.)	[Page Count]		
		[Job Status]	[OK]	
			[CANCELED]	
		[Print Start Time]	[yyyy/mm/dd hh:mm:ss]	7
		[Print End Time]	[yyyy/mm/dd hh:mm:ss]	
		[Print Time]	[xxxsec.]	
		[Print Size]	[xxxxxxxsq.mm]	
		[Media Type]		
		[Interface]	[USB]	
			[Network]	7
			[HDD]*14	1
		[Ink Consumed]	(Indicates the ink color.)	[xxx.xxx ml]
[Print Job Log]				
[Pause Print]	[Off]*			
	[On]			
[HDD Information]*14	[Total capacityBox free space]			

[Set./Adj. Menu]

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Test Print]	[Nozzle Check]			
	[Status Print]			
	[Interface Print]			
	[GL2 Set Print]			
	[Paper Details]			
	[Print Job Log]			
	[Menu Map]			
	[Color Palette]			
[Adjust Printer]	[Head Posi. Adj.]	[Auto(Standard)]		
		[Auto(Advanced)]		
		[Manual]*4		
	[Head Inc. Adj.]			
	[Feed Priority]	[Adj. Priority]	[Automatic]*	
			[Print Quality]	
			[Print Length]	
		[Adj. Quality]*5	[Auto(GenuinePpr)]	
			[Auto(OtherPaper)]	
			[Manual]	
		[Adjust Length]*6	[AdjustmentPrint]	[A:High]
				[B:Standard/Draft]
			[Change Settings]	[A:High]
				[B:Standard/Draft]
[Maintenance]	[Head Cleaning]	[Head Cleaning A]		
		[Head Cleaning B]		
	[Nozzle Check]			
	[Replace P.head]			
	[Repl. maint cart]			
	[Head Info]	[ProductName:]		
		[s/n:]		
		[Days elapsed:]		
		[Count [Mdot]:]		
[GL2 Replot]*15				
[GL2 Buffer Clear]*15	10 E M 1	(C.1. W. 1.)	0.4 1 3	
[GL2 Settings]	[Quality Manager]	[Color Mode]	[Monochrome]	
			[Color (CAD) 1]*	
			[Color (CAD) 2]	
			[Color (CAD) 3]	
			[Color (CAD) 4]	
		[Deint Occalited]	[Color (CAD) 5]	
		[Print Quality]	[Fast]	
			[Standard]*	
		Harrist Dec. 1 of 12	[High]	
		[Input Resolution]	[600dpi]*	
		IDelina (Francis	[300dpi]	
		[Print (Economy)]	[Off]*	
			[On]	

First Level	Second Level	Third Level	Fourth Level	Fifth Level	Sixth Level
[GL2 Settings]	[Paper Manager]	[Paper Source]	[Automatic]*		
			[Roll Paper]		
			[Cut Sheet]		
		[Margin]	[3mm(Standard)]*		
			[5mm]		
		[Conserve Paper]	[Off]*		
			[On]		
		[Auto Rotate]	[Off]*		
			[On]		
		[Nesting]*14	[Use Nesting]	[Off]*	
				[On]	
			[Nesting WaitTime]*7	[xx min.]	
			[Cut Lines]*7	[Off]*	
				[On]	
	[Line & Pen Manager]	[Enable merge]	[Off]*		
			[On]		
		[Pen Setup]	[Select Palette]	[Software]*	
				[Palette A]	
				[Palette B]	
				[Factory]	
			[Define Palette]	[Palette A] (Choose a pen number.)	[Width] (Indicates the Width value.)
				,	[Color] 0-255
					[Line Attributes]-[No Setting]/[Circle Setting]
				[Palette B] (Choose a pen number.) (Indicates Width, Color, and Line Attributes.)	(Specify the values of Width, Color, and Line Attributes.)
				[Factory] (Choose a pen number.) (Indicates Width, Color, and Line Attributes.)	
			[Reset Palette]	[All Palette]	
				[Palette A]	
				[Palette B]	
		[Smoothing]	[Software]*		
			[Smooth]		
		[ThickenFineLines]	[Off]*		
			[On]		
		[AdjustFaintLines]	[Off]		
			[On]*		
	[ProcessingOption]	[Warning]	[Off]*		
			[On]		
		[On-the-Fly]*14	[Off]*		
			[On]		
		[PageSizeProcess1]	[Off]*		
			[On]		
		[PageSizeProcess2]	[Off]*		
			[On]		
	[GL2 Set Print]				

First Level	Second Level	Third Level	Fourth Level	Fifth Level	Sixth Level	Seventh Level
[Interface Setup]	[EOP Timer]*12	[10 sec.]				
		[30 sec.]				
		[1 min.]				
		[2 min.]				
		[5 min.]				
		[10 min.]*				
		[30 min.]				
		[60 min.]				
	[TCP/IP]*12	[IPv4]	[IPv4 Mode]	[Automatic]		
				[Manual]*		
			[Protocol]*8	[DHCP]	[On]	
					[Off]*	
				[BOOTP]	[On]	
					[Off]*	
				[RARP]	[On]	
					[Off]*	
			[IPv4 Settings]*13	[IP Address]	xxx.xxx.xxx	7
				[Subnet Mask]	xxx.xxx.xxx	7
				[Default G/W]	xxx.xxx.xxx	
			[DNS Setting]*13	[DNS Dync update]	[Off]	
					[On]	-
				[Pri. DNS SrvAddr]		-
				[Sec. DNS SrvAddr]		
				[DNS Host Name]	1	
				[DNS Domain Name]	1	
		[IPv6]	[IPv6 Support]	[On]		
			i a a a a a a a a a a a a a a a a a a a	[Off]*	-	
			[IPv6	[On]*	-	
			StlessAddrs]*17	[Off]	-	
			[DHCPv6]*17	[On]	+	
			[Brief voj 17	[Off]*	+	
			[DNS Setting]*13*17		[Statefull Addr]	[Off]*
			[Bris setting] 13 17	[B1 is Byine apame]	[Stateran Francis	[On]
					[Stateless Addr]	[Off]*
					[Stateless Fider]	[On]
				[Pri. DNS SrvAddr]		[0.1]
				[Sec. DNS SrvAddr]	1	
				[DNS Host Name]	1	
				[DNS Domain Name]	1	
	[NetWare]*12	[NetWare]	[On]	[2113 Domain Haile]	1	
	[1.00.1.00] 12	[110111 alo]	[Off]*	1		
		[Frame Type]*9	[Auto Detect]	-		
		Traine Type] 9	[Ethernet 2]	-		
			[Ethernet 802.2]*	-		
			[Ethernet 802.2]	-		
			[Ethernet 802.3]	4		
		[Print Service]*9		-		
		[Film Service]*9	[BinderyPServer]	4		
			[RPrinter]	4		
			[NDSPServer]	4		
			[NPrinter]		Ì	

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Interface Setup]	[AppleTalk]*12	[On]		
		[Off]*	1	
	[Ethernet Driver]*12	[Auto Detect]	[On]*	
			[Off]	
		[Comm.Mode]*10	[Half Duplex]*	
			[Full Duplex]	
		[Ethernet Type]*10	[10Base-T]*	
			[100Base-TX]	
			[1000Base-T]	
		[Spanning Tree]	[Not Use]*	
			[Use]	
		[MAC Address]	xxxxxxxxxx	
	[Interface Print]*12			
	[Return Defaults]*12			
[System Setup]	[Sleep Timer]	[5 min.]*		
		[10 min.]		
		[15 min.]		
		[20 min.]		
		[30 min.]		
		[40 min.]		
		[50 min.]		
		[60 min.]		
		[240 min.]		
	[Buzzer]	[Off]		
		[On]*		
	[Contrast Adj.]	-4,-3,-2,-1,0*,+1,+2,+3,+4		
	[Date & Time]*12	[Date]	[yyyy/mm/dd]*11	
			[Time]	[hh:mm]
	[Date Format]	[yyyy/mm/dd]*		
		[dd/mm/yyyy]		
		[mm/dd/yyyy]		
	[Language]	[English]		
		[Japanese]		
		[Francais]		
		[Italiano]		
		[Deutsch]		
		[Espanol]		
		[Russian]		
		[Chinese] (simplified)		
		[Korean]		

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[System Setup]	[Time Zone]*12	[0:London(GMT)]		
		[+1:Paris,Rome]		
		[+2:Athens,Cairo]		
		[+3:Moscow]		
		[+4:Eerevan,Baku]		
		[+5:Islamabad]		
		[+6:Dacca]		
		[+7:Bangkok]		
		[+8:Hong Kong]		
		[+9:Tokyo,Seoul]		
		[+10:Canberra]		
		[+11NewCaledonia]		
		[+12:Wellington]		
		[-12:Eniwetok]		
		[-11:Midway is.]		
		[-10Hawaii(AHST)]		
		[-9:Alaska(AKST)]		
		[-8:Oregon (PST)]		
		[-7:Arizona(MST)]		
		[-6:Texas(CST)]		
		[-5:NewYork(EST)]		
		[-4:Santiago]		
		[-3:Buenos Aires]		
		[-2:]		
		[-1:Cape Verde]		
	[Length Unit]	[meter]*		
		[feet/inch]		
	[Detect Mismatch]	[Pause]		
		[Warning]		
		[None]*		
		[Hold Job]*14		
	[Paper Size Basis]	[Roll Selection 1]	[ISO A3 (297mm)]*	
			[300mm Roll]	
		[Roll Selection 2]	[10inch (254mm)]*	
			[JIS B4 (257mm)]	
	[Keep Paper Size]	[Off]*		
		[On]		
	[TrimEdge Reload]	[Automatic]		
		[Off]*		
		[On]		
	[Rep.P.head Print]	[Off]		
		[On]*		

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[System Setup]	[Nozzle Check]	[Frequency]	[Standard]*	
			[1 page]	
		[Warning]	[Off]*	
			[On]	
	[Use RemoteUI]*12	[On]*		
		[Off]		
	[Reset PaprSetngs]*12			
	[Erase HDD Data]*14	[High Speed]*12		
		[Secure High Spd.]*12		
		[Secure]*12		
	[Output Method]*14	[Print]*		
		[Print (Auto Del)]		
		[Save: Box XX]		
	[Print After Recv]*14	[Off]*		
		[On]		
	[Save: Shared Box]*12*14	[Off]		
		[On]*		
	[Show Job Log]*12	[Off]		
		[On]		
[Prep.MovePrinter]				
[Admin. Menu]*12	[Change Password]*13			
	[Init.Admin.Pswd]*13			
[Printer Info]	[Paper Info]			
	[Ink Info]			
	[Head Info]			
	[System Info]			
	[Error Log]			
	[Other Counter]			

- *1: Available only if ManageRemainRoll is On.

 *2: Available only if Width Detection is set to Off.

 *3: Print Anyway is displayed when a job being held is selected.

 *4: Available after Auto(Advanced) in Head Posi. Adj. has been used once.

 *5: Available when you have specified Feed Priority > Adj. Priority > Automatic or Print Quality.

 *6: Available when you have specified Feed Priority > Adj. Priority > Automatic or Print Length.

 *7: Available only if Use Nesting is set to On.

 *8: Not shown if you have set IPv4 Mode to Manual.

 *9: Not shown if you have set NetWare to Off.

 *10: Not shown if you have set Auto Detect to On.

 *11: Follows the setting in Date Format.

 *12: Viewing and configuration is possible for administrators, and only viewing for other users.

 *13: Viewing and configuration is possible for administrators only.

- *13: Viewing and configuration is possible for administrators only.

- *14: Displayed only on models equipped with HDD.
 *15: Displayed only on models not equipped with HDD.
 *16: Leading edge is not available as a setting option in the Paper Detailed Settings dialog box of the printer driver.
 *17: Not displayed if IPv6 Support is Off.

3. Main menu during printingThe structure of the main menu during printing is as follows.

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Adj. Fine Feed]				
[Printer Info]	[Paper Info]			
	[Ink Info]			
	[Head Info]			
	[System Info]			
	[Error Log]			
	[Other Counter]			

4. Main Menu SettingsMain menu items are described in the following tables.

Setting Item		Description/Instructions		
[Load Paper]		Select and load either cut sheet or roll media.		
[Eject Paper]		Remove currently loaded paper.		
[Chg. Paper Type]		Change currently set paper type.		
[Chg. Paper Size]		Change currently set paper size.		
[ManageRemainRoll]		Choose On to print a barcode at the end of a roll before you remove it. The printed barcode can be used in managing the amount of roll paper left. ChooseOff if you prefer not to print the barcode.		
[Paper Details]	[Head Height]	Adjust the Printhead height.		
(The paper type is displayed here.)	[Skew Check Lv.]	If you print on the paper that has an irregular width, choose Loose for a higher skew detection threshold, or choose Off to disable skew detection. However, if paper is loaded askew when detection is Off, note that paper jams or Platen soiling may occur.		
	[Cutting Mode]	Select whether to use standard round blade cutter or not. Select [Automatic] to cut paper after printing. Select [Manual] to print a line at the cut position after printing without cutting. Select [Eject] to prevent the printout from dropping until the ink dries after printing.		
	[Cut Speed]	Choose the cutting speed. If you use adhesive paper, choosing Slow helps prevent adhesive from sticking to the cutter and keeps the cutter sharp.		
	[Trim Edge First]	If a roll is loaded, the end of the paper will be cut.		
	[CutDustReduct.]	Choose On to reduce the amount of debris generated when cutting film and similar media by printing a line at the cut position. This option reduces the amount of debris given off after cutting. It also helps prevent adhesive from sticking to the cutter and keeps the cutter sharp if you use adhesive paper.		
	[VacuumStrngth]	Specify the level of suction that holds paper against the Platen.		
	[Scan Wait Time]	Specify the time to wait for the ink to dry between each scan in bidirectional printing, in consideration of how quickly the ink dries. Note that printing will take longer if you specify a wait time.		
	[Roll DryingTime]	Specify the time to wait for the ink to dry for each sheet.		
	[NearEnd RollMrgn]	Specify the minimum margin at the leading edge of roll paper to ensure better printing quality at the leading edge. Note that if you choose 3mm, it may lower the printing quality at the leading edge and affect feeding accuracy. The printed surface may be scratched, and ink may adhere to the leading edge. It may also cause the Platen to become soiled.		
	[NearEnd Sht Mrgn]	Specify a margin at the leading edge of sheets to ensure better printing quality at the leading edge. Note that if you choose 3mm, it may lower the printing quality at the leading edge and affect feeding accuracy. The printed surface may be scratched, and ink may adhere to the leading edge.		
	[Bordless Margin]	Adjust the margin during borderless printing. Choose Automatic to have the printer automatically detect the paper width and configure the margin settings for borderless printing. If margins are mistakenly created when Automatic is selected, choose Fixed. In this case, the paper width is not detected automatically, and the document is printed without borders, using the margin settings required by the printer.		
	[Width Detection]	Set to print from desired position such as when printing inside a frame. Select [Off] to disable paper width and skew detection. If paper is loaded askew, paper may jam or platen soiling may occur.		
	[Return Defaults]	Choose OK to restore Paper Details to the factory default values.		
[Print Paper Detail]		Print the paper settings set with [Paper Details].		
[Keep Paper Type]		Select [On] to continue using the same type of paper.		

Setting Item	Description/Instructions	
[Rep. Ink Tank]	When replacing the Ink Tank, choose Yes and follow the instructions on the screen.	
	Specify Printhead cleaning options. Execute Head Cleaning A if printing is faint, oddly colored, or contains foreign substances.	

Setting Item				Description/Instructions
[Print Job]	[Job List]	(Select Print	[Delete]	Delete the current job or queued jobs.
	Job.)	Job.)	[Preempt Jobs]	Print the job first after the current print job is finished printing.
[Stored Job]	ored Job] [Mailbox List]	(Enter a password if	[Job List]- [Print]	Prints a saved job.
		one has been set.)	[Job List]- [Delete]	Deletes a saved job.
			[Print Job List]	Prints a list of saved jobs.
[Job Log]	(Choose from	[Document Nan	ne]	Displays the name of the document in the most recently printed job.
	information about the latest	[User Name]		Displays the name of the user who has transmitted the job.
	three print	[Page Count]		Displays the number of sheets of the job.
	jobs.)	[Job Status]		Displays the result of processing of the job.
		[Print Start Time]		Displays the time at which the job started printing.
		[Print End Time]		Displays the time at which the job finished printing.
		[Print Time]		Displays the time spent printing the job.
		[Print Size]		Displays the size of the paper used for printing the job.
		[Interface]		Displays the type of the paper used for printing the job.
				Displays the interface of the job.
				Displays the amount of ink consumed for printing the job.
[Print Job Log]			Print the print job information such as paper type, size, and ink consumption. Ink consumption is the approximate amount of ink used to print one sheet.	
[Pause Print]	[Pause Print]			Select [On] to stop printing.
[HDD Information]			Displays the total size of the HDD and the remaining box size.	

[Set./Adj. Menu]

the approximate amount of ink used to print one sheet. Menu Map Print the menu list.		Setting	Item		Description/Instructions		
Interface Print Print the interface settings. Print the interface settings. Print the GL2 settings. Print the GL2 settings. Print the GL2 settings. Print the GL2 settings. Print Job Log Print Job Log Print print Job information such as paper type, size, and ink consumption. Ink consumption is the approximate amount of ink used to print one sheet. Print the GL2 coor list. Print and read a test pattern for the automatic adjustment of Printhead alignment relative to the printing direction. Print and read a test pattern for the automatic adjustment of Printhead alignment relative to the printing direction. Print and read a test pattern for the automatic adjustment of Printhead alignment relative to the printing direction. Print and read a test pattern for the automatic adjustment of Printhead alignment relative to the printing direction. Print and read a test pattern for the automatic adjustment of Printhead alignment relative to the printing direction. Print and read a test pattern for adjusting the inclination of the printhead. Print and read a test pattern for adjusting the inclination of the printhead. Print Quality or print and an adjustment pattern for adjusting the inclination of the printhead. Print Quality or print and printing direction. Print Quality or printing the inclination of the printhead. Print Length in printing direction. Print Length in printing and printing and printing and printing and the feed amount is automatically adjusted from the printing direction and recording to the printing and print	[Test Print]	[Nozzle Check]		Print a nozzle check pattern.		
GL2 Set Print Print the GL2 settings. Print the GL2 settings. Print the GL2 settings set with [Paper Details] Print the paper settings set with [Paper Details]. Print the GL2 color list.		[Status Print]			Print the printer information.		
Print print job information such as paper type, size, and ink consumption. Ink consumption is the approximate amount of ink used to print one sheet. Menu Map		[Interface Print	:]		Print the interface settings.		
Print Job Log Print print job information such as paper type, size, and ink consumption. Ink consumption is the approximate amount of ink used to print one sheet. Print the menu list. Print and read a test pattern for the automatic adjustment of Primhead alignment relative to the printing direction. Print and read a test pattern for the automatic adjustment of Primhead alignment relative to the printing direction. Print aread a test pattern for the automatic adjustment of Primhead alignment relative to the printing direction. Print a pattern for adjustment of Primhead alignment relative to the printing direction. Print a separatern for adjustment of Primhead alignment relative to the printing direction. Print a pattern for adjustment of Primhead alignment relative to the printing direction. Print a pattern for adjustment of Primhead alignment relative to the printing direction. Print a pattern for adjustment of Primhead alignment relative to the printing direction. Print a pattern for adjustment of Primhead alignment relative to the printing direction. Print a pattern for adjustment of Primhead alignment relative to the printing direction. Print a pattern for adjusting the inclination of the printing direction. Print a pattern for adjusting the inclination of the printing direction. Print a pattern for adjusting the inclination of the printing direction. Print a pattern for adjustment pattern for adjustment. Print a pattern for adjustment pattern for adjustment pattern for adjustment pattern. Print Length or adjustment pattern for adjustment pattern for adjustment pattern for the paper reference guide. A pattern to adjust the paper feed amount is printed, and the feed amount is automatically adjusted from the printed result. This takes longer that [Print Length] pattern for adjustment pattern. Print a test pattern for adjustment pa		[GL2 Set Print]		Print the GL2 settings.		
Meanu Map Print the menu list. Print the GLZ color list. Adjust Printer		[Paper Details]			Prints the paper settings set with [Paper Details].		
Color Palette Print the GL2 color list. Print and read a test pattern for the automatic adjustment of Printhead alignment relative to the printing direction. [Auto(Advanced)]		[Print Job Log]			Print print job information such as paper type, size, and ink consumption. Ink consumption is the approximate amount of ink used to print one sheet.		
Adjist Printer		[Menu Map]			Print the menu list.		
Adj.		[Color Palette]			Print the GL2 color list.		
The nozzle and printing direction. Print a test pattern for adjustment of Printhead alignment relative to the printing direction.	[Adjust Printer]		[Auto(Standard	1)]			
Find Feed Priority [Adj. Priority [Adj. Priority Print an adjustment value manually based on the resulting pattern.	[Adjust Printer]		[Auto(Advance	ed)]			
Feed Priority [Adj. Priority [Automatic] [Print Quality] [Print Quality] [Print Quality] [Print Length] [Adj. Quality [Print Length] [Adj. Quality [Print Length] [AdioGenuin ePpr)] [Adj. Quality [AutoGenuin ePpr)] [AutoGenuin ePpr)] Apattern to adjust the paper feed amount. However, selecting [Print Length] Apattern to adjust the paper feed amount is printed, and the feed amount is automatically adjusted from the printed result. AutoGenuin ePpr) Apattern to adjust the paper feed amount is printed, and the feed amount is automatically adjusted from the printed result. Altoround Apattern to adjust the paper feed amount is printed, and the feed amount is automatically adjusted from the printed result. This takes longer than [Auto (GenuinePpr)] to print and consumes more ink. Agiust [Adjust method Apattern to adjust the paper feed amount is printed, and the feed amount is automatically adjusted from the printed result. This takes longer than [Auto (GenuinePpr)] to print and consumes more ink. Apattern to adjust the paper feed amount according to the type of paper. Print a pattern to adjust the paper feed amount according to the type of paper. Print a pattern to adjust the paper feed amount according to the type of paper. Print a pattern to adjust the paper feed amount according to the type of paper. Print a test pattern for adjustment relative to paper stretching or shrinkage, after which you are enter the amount of adjustment. Print a test pattern for adjustment relative to paper stretching or shrinkage, after which you are enter the amount of adjustment. Print a test pattern for adjustment relative to paper stretching or shrinkage, after which you are enter the amount of adjustment. Print a test pattern for adjustment relative to paper stretching or shrinkage, after which you are enter the amount of adjustment with adjustment relative to paper stretching or shrinkage, after which you are enter the amount of adjustment for adjustment with adjustm			[Manual]				
Print Quality Print Length Print Lengt		[Head Inc. Adj	[Head Inc. Adj.]		Print an adjustment pattern for adjusting the inclination of the printhead.		
Pepr A pattern to adjust the paper feed amount is printed, and the feed amount is automatically adjusted from the printed result. [Auto(OtherPa per)]		[Feed Priority]	[Adj. Priority]	[Print Quality]	accurately control the feed amount. However, selecting [Print Length] may cause colors to		
Perical adjusted from the printed result. This takes longer than [Auto (GenuinePpr)] to print and consumes more ink. Manual Select for paper that cannot be adjusted by [Auto(GenuinePpr)] or [Auto(OtherPaper)], such as highly transparent paper. Print a pattern to adjust the paper feed amount according to the type of paper. Adjust			[Adj. Quality]		A pattern to adjust the paper feed amount is printed, and the feed amount is automatically		
Specify Printhead cleaning [Nozzle Check] [Roglace P.head] [Ro					A pattern to adjust the paper feed amount is printed, and the feed amount is automatically adjusted from the printed result.		
Length				[Manual]			
Settings [A:High B:Standard Draft Enter the result adjusted with [AdjustmentPrint] or the difference with your own measurement in %. Increase the adjustment value to increase the feed amount for paper that tends to expand, and reduce it for paper that tends to shrink. Maintenance [Head Cleaning] Specify Printhead cleaning options. Choose Head Cleaning A if printing is faint, oddly colored, or contains foreign substances. Choose Head Cleaning B if no ink is printed at all, or if printing is not improved by Head Cleaning A. [Nozzle Check Print a nozzle check pattern. [Replace P.head Not displayed during a warning message that the remaining Maintenance Cartridge capacity is low. When exchanging the Printhead, choose Yes and follow the instructions on the screen. [GL2 Replot] Prints again the last data printed on the GL2.				int]-[A:High]/ [B:Standard/			
Choose Head Cleaning A if printing is faint, oddly colored, or contains foreign substances. Choose Head Cleaning B if no ink is printed at all, or if printing is not improved by Head Cleaning A. [Nozzle Check] Print a nozzle check pattern. [Replace P.head] Not displayed during a warning message that the remaining Maintenance Cartridge capacity is low. When replacing the Printhead, choose Yes and follow the instructions on the screen. [Repl. maint cart] When exchanging the maintenance cartridge, choose Yes and follow the instructions on the screen. [GL2 Replot] Prints again the last data printed on the GL2.			Settings]- [A:High]/ [B:Standard/		Adjust the expansion rate of the currently loaded paper. Enter the result adjusted with [AdjustmentPrint] or the difference with your own measurement in %. Increase the adjustment value to increase the feed amount for paper that tends to expand, and		
[Replace P.head] Not displayed during a warning message that the remaining Maintenance Cartridge capacity is low. When replacing the Printhead, choose Yes and follow the instructions on the screen. [Repl. maint cart] When exchanging the maintenance cartridge, choose Yes and follow the instructions on the screen. [GL2 Replot] Prints again the last data printed on the GL2.	[Maintenance]	[Head Cleaning]			Choose Head Cleaning A if printing is faint, oddly colored, or contains foreign substances. Choose Head Cleaning B if no ink is printed at all, or if printing is not improved by Head		
is low. When replacing the Printhead, choose Yes and follow the instructions on the screen. [Repl. maint cart] When exchanging the maintenance cartridge, choose Yes and follow the instructions on the screen. [GL2 Replot] Prints again the last data printed on the GL2.		[Nozzle Check]		Print a nozzle check pattern.		
screen. [GL2 Replot] Prints again the last data printed on the GL2.		[Replace P.hea	d]		is low.		
		[Repl. maint cart]			When exchanging the maintenance cartridge, choose Yes and follow the instructions on the		
[GL2 Buffer Clear] Delete the print data of the replot buffer.	[GL2 Replot]				Prints again the last data printed on the GL2.		
	[GL2 Buffer Clear	r]			Delete the print data of the replot buffer.		

	Sett	ing Item		Description/Instructions			
[GL2 Settings]		[Color Mode]	[Monochrome]	Print by the monochrome.			
	Manager]		[Color (CAD) 1]	Print by the standard color.			
			[Color (CAD) 2]	Print by the bright color.			
			[Color (CAD) 3]	Print by the color emulated the Canon iPF500/iPF600/iPF700/iPF510/iPF610/iPF710/iPF605/iPF720/iPF810/iPF820.			
			[Color (CAD) 4]	Print by the color emulated the HP Designjet 500/800.			
			[Color (CAD) 5]	Print by the color emulated the HP Designjet 1000.			
		[Print Quality]	•	Select the print quality.			
		[Input Resoluti	on]	Choose the printer input resolution from between [600dpi] and [300dpi].			
		[Print (Econom	ny)]	Prints with a lower grade of print than normal, but with less ink consumption. Select [ON] to economize on inks.			
	[Paper	[Paper Source]		Select how to feed paper for printing on the HP-GL/2.			
	Manager]	[Margin]		Set the top/bottom and left/right margins of the paper. For cut-sheet, the trailing edge margin is 23mm. However, if the leading edge margin is set with [Paper Details], that value has priority.			
		[Conserve Paper	er]	Prints by economizing on paper.			
		[Auto Rotate]		If a document has its long side shorter than the roll width, the page rotates by 90 degrees automatically to economize on paper. If a document contains horizontally long data such that it has its long side longer than the roll width and its short side shorter than the roll width, the page rotates 90 degrees to print within the boundaries of the paper. HP RTL cannot rotate. In case of HP RTL image, the image may be truncated or a blank paper may be ejected because the image cannot be rotated even if the paper size is rotated by 90 degrees. In that case, set [Auto Rotate] to [Off].			
		[Nesting]	[Use Nesting]	Select [On] to print pages when they are tiled fully to the roll width, instead of printing them one by one.			
			[Nesting WaitTime]	Set the time to elapse before printing.			
			[Cut Lines]	Select [On] to print perforated lines between pages.			
	[Line & Pen Manager]	[Enable merge]	İ	When lines overlap, set whether to merge or overwrite the colors of the overlapping lines. Select [Off] to overwrite with the line printed later. Select [On] to merge all overlapping colors.			
		[Pen Setup]	[Select Palette]	Select the value related to pen from [Software], [Palette A], [Palette B], or [Factory]. Select [Software] to print according to the application side instruction. Select [Palette A] or [Palette B] to print with value set by [Define Palette].			
			[Define Palette]	Set [Width], [Color], and [Line Attributes] for the palette's [Pen Number]. Select [Factory] to check the value when [Factory] is selected for [Select Palette]. For [Line Attributes], select the shape of line end and joint between lines as [No Setting] or [Circle Setting].			
			[Reset Palette]	Return the [Define Palette] settings to factory settings.			
		[Smoothing]		Choose whether to draw an arc with a smooth curve or with a polygon.			
		[ThickenFineL	ines]	Select [On] to print thin lines clearly.			
		[AdjustFaintLi	nes]	If thin lines print in a tint of color varied from other patterns, selecting [Off] may provide the print result as intended, though the thin lines may print, interrupted, depending on the color.			
	[ProcessingOp	[Warning]		Select [On] to display warnings during GL2.			
	tion]	[On-the-Fly]		In printing data consisting solely of HP RTL, if the data is slow to print, select [On] to expedite the time at which the data starts printing. Verify the print result to make sure that images are not chipped in this case.			
		[PageSizeProce		Normally, an image is printed inside margins necessary for printing, but if the image data itself has margins, the print position will not be offset when this is set [On].			
		[PageSizeProce	ess2]	Select [On] to determine the paper size based on the drawing area.			
	[GL2 Set Print]			Print the GL2 settings.			

		Setting 1	Item		Description/Instructions		
[Interface Setup]	[EOP Timer]				Specify the timeout period before cancellation of print jobs that cannot be received by the printer.		
	[TCP/IP]	[IPv4]	[IPv4 Mode]		Choose whether the printer IP address is configured automatically or a static IP address is entered manually.		
			[Protocol]	[DHCP]/ [BOOTP]/[RARP]	Specify the protocol used to configure the IP address automatically.		
			[IPv4 Settings]	[IP Address]/ [Subnet Mask]/ [Default G/W]	Specify the printer network information when using a static IP address. Enter the IP address assigned to the printer, as well as the network subnet mask and default gateway.		
			[DNS Settings]	[DNS Dync update]	Specify whether DNS server registration is updated automatically.		
				[Pri. DNS SrvAddr]/[Sec. DNS SrvAddr]	Specify the DNS server address.		
				[DNS Host Name]	Specify the DNS host name.		
				[DNS Domain Name]	Specify the DNS domain name.		
		[IPv6]	[IPv6 Support]		Set whether to support IPv6 connection.		
			[IPv6 StlessAddr	s]	Set whether to use IPv6 stateless address.		
			[DHCPv6]		Set whether to use DHCPv6 setting.		
			[DNS Settings]	[DNS Dync update]-[Statefull Addr]/[Stateless Addr]	Specify whether DNS server registration is updated automatically.		
				[Pri. DNS SrvAddr]/[Sec. DNS SrvAddr]	Specify the DNS server address.		
				[DNS Host Name]	Specify the DNS host name.		
				[DNS Domain Name]	Specify the DNS domain name.		
	[NetWare]	[NetWare]	<u>.</u>		Specify the NetWare protocol. To apply your changes, choose Register Setting.		
		[Frame Ty	pe]		Specify the frame type to use.		
		[Print Serv	rice]		Choose the print service.		
	[AppleTalk]				Specify whether to use the AppleTalk protocol. To apply your changes, choose Register Setting.		
	[Ethernet Driver]*12	[Auto Dete	ect]		Specify the communication method. To apply your changes, choose Register Setting. Choose On for automatic configuration of the LAN communication protocol. Choose Off to use settings values of Comm.Mode and Ethernet Type.		
		[Comm.M	ode]		Choose the LAN communication method.		
		[Ethernet	Гуре]		Choose the LAN transfer rate.		
		[Spanning	Tree]		Choose whether spanning-tree packets are supported over the LAN.		
		[MAC Ad	dress]		Displays the MAC address.		
	[Interface Prin	t]			Print the interface settings.		
	[Return Defau	lts]			Select [OK] to return the [Interface Setup] settings to factory default.		

	Setting Item		Description/Instructions				
[System Setup]	[Sleep Timer]		Specify the period before the printer enters Sleep mode.				
	[Buzzer]		Set the buzzer. Choose On for the buzzer to sound once for warnings and three times for errors.				
	[Contrast Adj.]		Adjust the Display Screen contrast level.				
	[Date & Time]	[Date]	Set the current date.				
		[Time]	Set the current time. This can be set only when [Date] is set.				
	[Date Format]		Specify the date format.				
	[Language]		Specify the language used on the Display Screen.				
	[Time Zone]		Specify the time zone. Time zone options indicate a main city in this time zone and the difference from Greenwich Mean Time.				
	[Length Unit]		Choose the unit of measurement when roll length is displayed. You can switch the unit displayed for the remaining paper amount.				
	[Detect Mismatch]		Set the printing behavior when the paper type and size set with the printer menu does not mate the paper type and size set with the printer driver. Select [Pause] to pause printing. Select [Warning] to print a warning and continue printing. Select [None] to continue printing without displaying a warning. Select [Hold Job] to queue the job with different paper type and size in a job queue on the hard disk.				
	[Paper Size Basis]	[Roll Selection 1]	When the size of roll paper is detected, select which roll width to use if the roll width is between [ISO A3 (297mm)] and [300mm Roll].				
		[Roll Selection 2]	When the size of roll paper is detected, select which roll width to use if the roll width is between [10inch (254mm)] and [JIS B4 (257mm)].				
	[Keep Paper Size]		Select [On] to give priority to paper size. If the margin set with the printer driver is less than the margin set with the printer menu, the margin set with the printer menu has priority and text and images extending beyond the margins are truncated. Select [Off] to give priority to margin settings. If the margins set with the printer driver and the margins set with the printer menu are different, the larger settings are used for printing.				
	[TrimEdge Reload]		Select whether cut the leading edge of the paper when the paper at the standby position has loaded. Cut it when the roller trace at the standby position attract attention. Choose On to cut it everytime when the paper at the standby position has loaded. Choose Automatic to cut it when the paper at the standby position during two days or more has loaded.				
	[Rep.P.head Print]		Select [On] to automatically perform [Adjust Detail] after replacing the Printhead.				
	[Nozzle Check]		Set with [Frequency] the timing to check for nozzle clogging after printing. Select [Standard] to adjust the checking timing according to the nozzle usage. Select [1 page] to check after each page. Select [On] for [Warning] to display a warning when the print head nozzle is clogged while printing.				
	[Use RemoteUI]		Select [Off] to disable access from RemoteUI and enable setting only from the operation panel.				
	[Reset PaprSetngs]		Restores settings that you have changed with Media Configuration Tool to the factory default values.				

	Setting Item		Description/Instructions		
[System Setup]	[Erase HDD Data]	[High Speed]	Delete the file management information of the saved data in the HDD.		
		[Secure High Spd.]	Overwrite the random data in the whole of the hard disk drive.		
		[Secure]	Overwrite 00 and FF and random data in the whole of the hard disk drive once at a time. Execute the verify check whether the data has written correctly to the hard disk drive.		
	[Output Method]	[Print]	Select the output method of jobs sent from software other than the printer driver. This can be		
		[Print (Auto Del)]	set from the printer if you are using a printer driver. Select [Print] to print normally. Select [Print (AutoDel)] to print and delete the data in hard		
	[Save: Box XX] disk. Select [Save: Box XX] to save to box without printing.				
	[Print After Recv]	1	Setting of jobs sent from software other than the printer driver. This can be set from the printer if you are using a printer driver. Select [On]to print after saving.		
	[Save: Shared Box]		Select [Off] to print without saving to a common box.		
	[Show Job Log]		Selecting off prevents display of the log in Job Menu > Job Log. Additionally, the log is not printed if you choose Job Menu > Print Job Log. Note that because job logs are not collected, the Status Monitor accounting functions will not work correctly.		
[Prep.MovePrinter]			Select when moving the printer. Follow the instruction on the screen and perform the necessary process. This is not displayed when displaying a warning message about the amount remaining maintenance cartridge.		
[Admin. Menu]	[Change Password]		Set a password to restrict displaying/setting of menus as follows. Allowed value is from 0 to 9999999.		
			- Allow only administrator to display/set		
			[IPv4] [Change Password]		
			[Init.Admin.Pswd]		
			- Allow administrator to display/set and non-administrator to display only [Interface Setup] (exclude [IPv4])		
			[Date & Time]		
			[Date Format]		
			[Time Zone] [Use RemoteUI]		
			[Reset PaprSetngs]		
			[Save: Shared Box]		
	[Init.Admin.Pswd]		Press [OK] to return the [Administrator Menu] password to factory default.		
[Printer Info]	[Paper Info]		Displays the currently set paper type, size and printer settings.		
	[Ink Info]		Displays ink levels and maintenance cartridge capacity.		
	[Head Info]		Displays the Printhead information.		
	[System Info]		Displays the firmware version, serial number, and interface information.		
	[Error Log]		Displays the most recent error messages (up to 5).		
	[Other Counter]		Displays the total area printed.		

1.7 Safety and Precautions

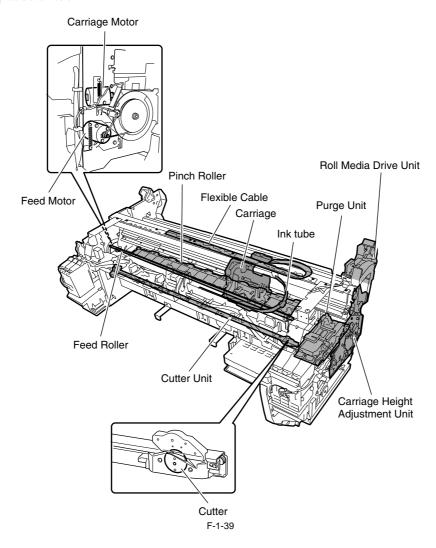
1.7.1 Safety Precautions

1.7.1.1 Moving Parts

iPF765 / iPF760 / iPF750 / iPF755

Moving parts of the printer include the carriage unit driven by the carriage motor, the carriage belt, the ink tube, the flexible cable, the feed roller driven by the feed motor, the pinch roller, and the purge unit driven by the purge motor.

To prevent accidents, the upper cover of the printer is locked during printing. If the top cover is opened in the online/offline mode, the carriage motor, feed motor, and other driving power supplies are turned off.

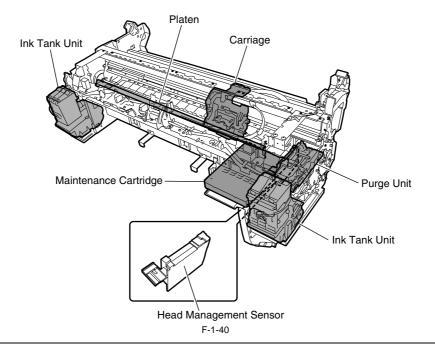


1.7.1.2 Adhesion of Ink

iPF765 / iPF760 / iPF750 / iPF755

(1) Ink passages

Be careful not to touch the ink passages of the printer to prevent the printer, workbench, ands, and clothes from being stained with ink. The ink flows through the ink tank unit, carriage unit, purge unit, maintenance cartridge, and the ink tubes that relay ink to individual units.





- Although the ink is not harmful to the human body, it contains organic solvents.

Ink may contaminate the surrounding parts. Carry out the work with due caution. If your hands are stained with ink, wash them with a plenty of water. Be careful not to allow the ink to get into your mouth or eyes.

If the ink gets into your eyes, flush them with water well and see a doctor.

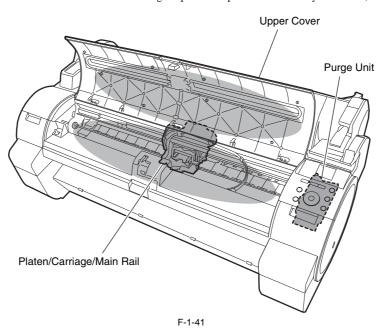
In case of accidental ingestion of a large quantity of ink, see a doctor immediately.

- It is also effective to use gloves to prevent ink from adhering when working.
- Since this ink contains pigment, stains will not come out of clothing.

(2) Ink Mist

Since the printhead prints by squirting ink onto the media, a minute amount of ink mist is generated in the printing unit during printing. The generated ink mist is collected in the printer by the airflow. However, uncollected ink mist may stain the platen, carriage unit, exterior, and purge unit.

These stains may soil the print media or hands and clothes when servicing the printer. Wipe them off carefully with a soft, well-wrung cloth.



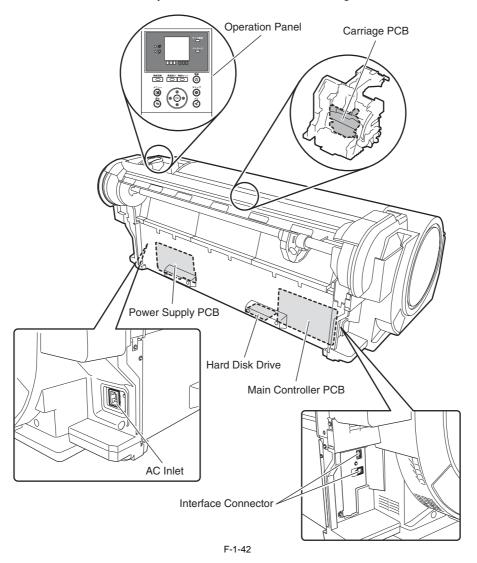
1.7.1.3 Electric Parts

iPF765 / iPF755

The electric parts of the printer are activated when the printer is connected to the AC power supply.

At the rear and left/right side of the printer are the main controller, power supply, HDD, and interface connector. The carriage PCB is incorporated in the carriage unit, and the operation panel is on the upper right top cover.

When serving the printer with the cover removed, be extremely careful to avoid electric shock and shorting electrical devices.



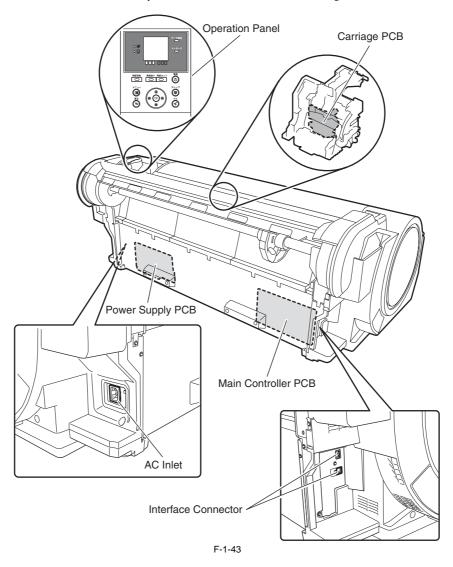
1.7.1.4 Electric Parts

iPF760 / iPF750

The electric parts of the printer are activated when the printer is connected to the AC power supply.

At the rear and left/right side of the printer are the main controller, power supply and interface connector. The carriage PCB is incorporated in the carriage unit, and the operation panel is on the upper right top cover.

When serving the printer with the cover removed, be extremely careful to avoid electric shock and shorting electrical devices.



1.7.2 Other Precautions

1.7.2.1 Printhead

iPF765 / iPF760 / iPF750 / iPF755

1. How to Handle the Printhead

Do not open the printhead package until you are ready to install the head.

When installing the printhead in the printer, hold the knob and then remove the protective cap 1 and protective cap 2 in that order.

Do not reattach the protective cap to the printhead because the cap may damage the nozzles.

To prevent the nozzles from getting clogged with foreign matter or dried ink, install the printhead immediately after you remove the protective caps.

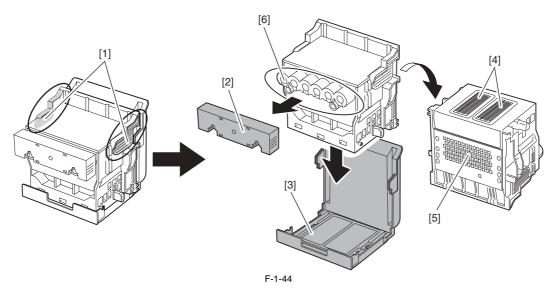
Also make sure to press down the locking lever of the printhead until you feel a click.

In addition, to prevent clogging of the nozzles with foreign matter and improper supply of ink, never touch the nozzles or ink port, or wipe it with tissue paper or anything else.

Do not touch Electriacl contact.

Also, never attempt to disassemble/reassemble the printhead or wash it with water.

If the nozzles are clogged or an ink suction problem occurs, white lines can appear on the printout a constant frequency or color dulling can occur. If this problem is not resolved by cleaning operations, replace the printhead with a new one.



- [1] Knob
- [4] Nozzles
- [2] Protective cap 1
- [5] Electrical contact
- [3] Protective cap 2
- [6] Ink port

2. Capping

The printer will perform the capping operation when printing has ended or during standby due to an error, in order to protect the printhead and avoid ink leakage. If the power cord is accidentally unplugged, turn off the Power button, reconnect the power cord, and then turn on the Power button. Confirm that the printer starts up properly and enters to the "Online" or "Offline" status, and then power off the printer using the Power button.



Improper "capping operation" may cause clogged nozzles due to dried ink or ink leakage from the printhead.

3. When the printer is not used for a long time

Keep the printhead installed in the printer even when it is not used for an extended period of time.



If the printhead is left uninstalled, a printing failure may arise from closed nozzles due to depositing of foreign matter or dried ink when it is reinstalled. Even if the head remains installed, the nozzle may dry out and cause a printing failure if the ink is drained for transport.

4. Conductivity of Ink

The ink used in this printer is electrically conductive. If ink leaks to into the mechanical unit, wipe clean with a soft, well-wrung damp cloth. If ink leaks onto electrical units, wipe them completely using tissue paper. If you cannot remove ink completely, replace the electrical units with new ones.



If electrical units are powered with ink leaked onto them, the units may damage. Never connect the power cord when ink has leaded onto the electrical units.

1.7.2.2 Ink Tank

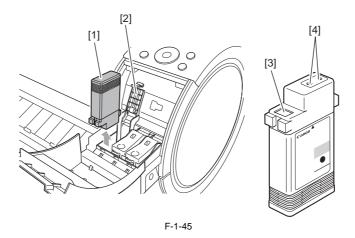
iPF765 / iPF760 / iPF750 / iPF755

1. Unpacking the Ink Tank

Do not unpack the ink tank until you are ready to install it.

When installing the ink tank, be sure to shake it slowly 1 to 2 times before unpacking it. Otherwise, the ink ingredients may precipitate and degrade the print quality. To prevent foreign matter from entering the ink port, install the unpacked ink tank in the printer immediately.

To prevent foreign matter from entering the ink flow path and causing ink suction and printing problems, never touch the ink port and contacts of the ink tank. When you press down the ink tank cover, the needle enters the ink port, allowing ink to flow between the printer and ink tank. Do not raise or lower the ink tank cover except when replacing the ink tank.



- [1] Ink tank
- [2] Ink tank lock lever
- [3] Contacts
- [4] Ink port

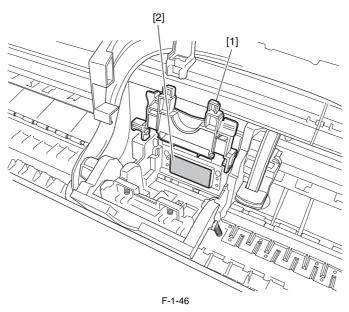
1.7.2.3 Handling the Printer

iPF765 / iPF760 / iPF750 / iPF755

1. Precautions against Static Electricity

Certain clothing may generate static electricity, causing an electrical charge to build up on your body. Such a charge can damage electrical devices or change their electrical characteristics.

In particular, never touch the printhead contacts.



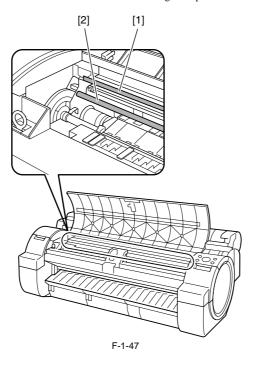
- [1] Carriage unit
- [2] Printhead contacts

2. Fixing the Carriage

After completion of printing, the carriage is mechanically locked by the lock pin in the purge unit at the same moment the printhead is capped.

3. Contact of Linear Scale/Carriage Shaft

Do not touch the linear scale and carriage shaft when the upper cover is opened, for maintenance. Touching the linear scale and carriage shaft might cause abnormal movement of the carriage and produce defective prints.



- [1] Linear Scale
- [2] Carriage Shaft



Don't apply the grease to the linear scale and carriage shaft. It may cause abnormal operations and defective prints.

4. Replacing the maintenance cartridge

When the maintenance cartridge detects that the tank is full, the "Repl. Maint. C" error appears. In this case the maintenance cartridge must be replaced. The printer will not operate until the error is cancelled.

Be careful that the waste ink does not splash when you remove the used maintenance cartridge from the printer.

This printer has an EEPROM in the maintenance cartridge and the maintenance cartridge status is controlled by the main controller PCB which reads and writes the contents of that EEPROM. Therefore, initializing the counter information will not be needed when the maintenance cartridge is replaced.

5. Refilling the inkAfter draining the ink from the printer according to the automatic or manual ink draining procedure for disassemble, reassemble, or transport/ship the printer, refill the ink as soon as possible upon completion of those tasks.

Dried remaining ink on the surface of some components, may cause damage or abnormal operations.

1.7.3 Precautions When Servicing Printer

1.7.3.1 Notes on the Data Stored in the Printer

iPF765 / iPF760 / iPF750 / iPF755

This printer counts the print length, number of ink tank replacements, carriage driving time, number of cleaning operations, number of cutter operations, and so on and stores them in the main controller's EEPROM as a COUNTER in Service mode.

COUNTER provides important information about the printer usage status.

You can check this information by printing it in the service mode or displaying it on the display.

Follow the precautions below when servicing the printer.

(1) Repairing/replacing the PCB

When replacing the main controller, follow the specified replacement procedure

For the main controller replacement procedure, see "DISASSEMBLY'/REASSEMBLY" > "Points to Note on Disassembly and Reassembly" > "PCBs".

(2) After replacing the carriage unit

The information about the carriage driving time resides in the carriage unit. After replacing the carriage unit, select [INITIALIZE] > [CARRIAGE] in the service mode to initialize the information about the carriage driving time.

(3) After replacing the purge unit

The information about the number of cleanings resides in the purge unit. After replacing the purge unit, select [INITIALIZE] > [PURGE] in the service mode to initialize (clear) the information about the number of cleanings.

(4) On replacement of supplies

After supplies have been replaced, execute [INITIALIZE] > [PARTS COUNTER] > [PARTS xx] in service mode to initialize (clear) the parts counter information. For the consumable parts, see "MAINTENANCE" > "Periodic Replacement Parts".



You cannot check the counter information once it is initialized (cleared). Be careful not to initialize the counter information before checking it. You cannot modify the counter information from the operation panel.

1.7.3.2 Confirming the Firmware Version

iPF765 / iPF760 / iPF750 / iPF755

Firmware has been downloaded to the main controller.

When you have replaced the main controller, check that the firmware is the latest version. If not, update it to the latest version.

Reference:

For instruction on how to update the main controller, refer to "TROUBLESHOOTING" > "Version Up".

1.7.3.3 Precautions against Static Electricity

iPF765 / iPF760 / iPF750 / iPF755

Certain clothing may generate static electricity, causing an electrical charge to build up on your body. Such a charge can damage electrical devices. To prevent this, discharge any static buildup by touching a grounded metal fitting before you start disassembling the printer.

1.7.3.4 Precautions for Disassembly/Reassembly

iPF765 / iPF760 / iPF750 / iPF755

 $The \ precautions \ for \ disassembly/reassembly \ are \ described \ in \ "DISASSEMBLY/REASSEMBLY".$

1.7.3.5 Self-diagnostic Feature

iPF765 / iPF760 / iPF750 / iPF755

The printer has a self-diagnostic feature to analyze hardware problems.

The self-diagnosis result is shown on the display and indicated by lamps.

For detailed information, see "ERROR CODE"

1.7.3.6 Disposing of the Lithium Battery

iPF765 / iPF760 / iPF750 / iPF755

The main controller PCB of this printer is equipped with a lithium battery to back up various data.



Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

"For CA, USA Only Included battery contains Perchlorate Material-special handling may apply. See http://www.dtsc.ca.gov/hazardouswaste/perchlorate/ for detail."

Achtung:
Die Lithiumbatterie darf nur durch das Originalersatzteil (Parts Katalog) ersetzt werden; ansonsten besteht Brand-/Explosionsgefahr. Lithiumbatterien niemals aufladen, demontieren oder durch Verbrennen entsorgen; bei der Entsorgung die örtlichen Entsorgungsvorschriften beachten (Schadstoffe; Sondermüll).



如果更換不正確之電池型式會有爆炸的風險 請依製造商説明書處理用過之電池

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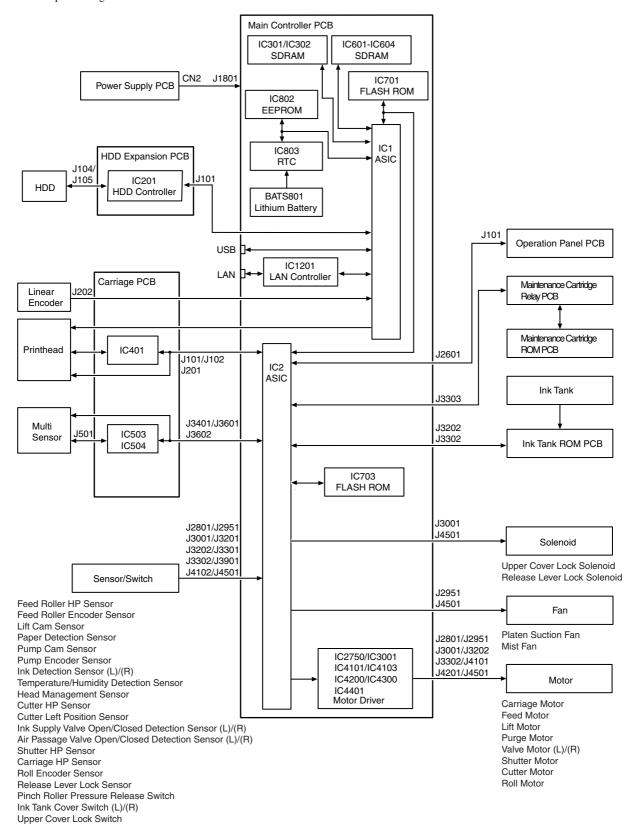
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2.1 Basic Operation Outline

2.1.1 Printer Diagram

iPF765 / iPF755

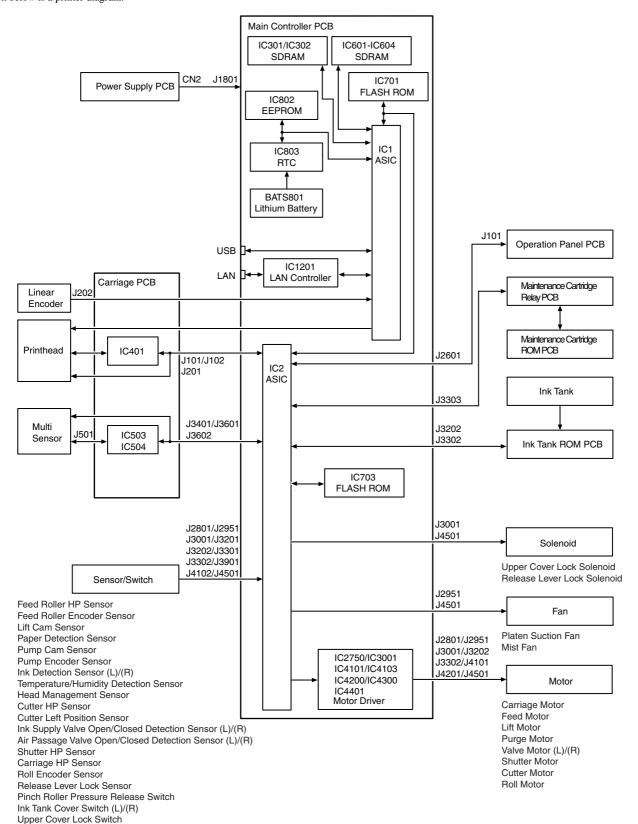
Shown below is a printer diagram.



2.1.2 Printer Diagram

iPF760 / iPF750

Shown below is a printer diagram.

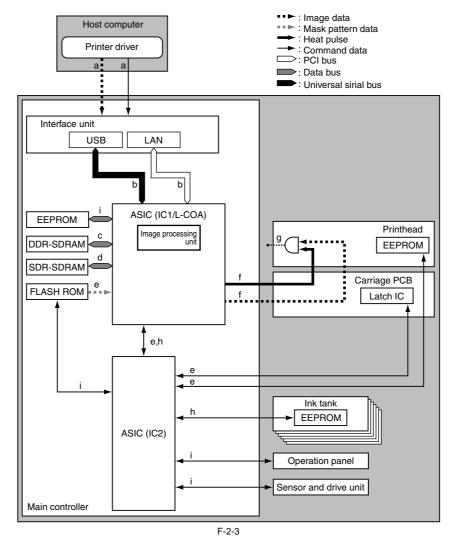


F-2-2

2.1.3 Print Signal Sequence

iPF765 / iPF760 / iPF750 / iPF755

The signal sequence from when the printer receives the print signals until printing starts is shown in the following figure.



a) The printer driver on the host computer transmits print data, including command data, to the printer after compressing the image data, without resolution, color and 12-color binarization conversion.

To achieve high-quality image output, the image processing table data used for image data color conversion and binarization conversion are generated as command data to meet the Media Type and other specifications of the printer driver.

- b) This printer receives print data from the individual interfaces on the main controller, transmitting the received print data to ASIC (IC1).
 c) The main controller decompresses the print data transmitted to the ASIC and gets it through resolution, color and 5-color binarization conversion while loading the data into DDR-SDRAM from time to time.

It also converts the print data to 5-color binary equivalents of image and command data.

- d) The ASIC (IC1) generates image data synthesized with mask data within the ASIC in sync with the discharge time while loading the data into DDR-SDRAM from time to time
- e) The ASIC (IC2) collects printhead information from EEPROM mounted on the printheads and the printer temperature from the latch IC on the carriage board and transmit them to the ASIC (IC1).

 The ASIC (IC1) also receives mask pattern data from the firmware installed in flash ROM.

- f) The ASIC (IC1) converts the image data synthesized with the mask pattern to data associated with the printhead information and the printer temperature, transmitting the data to the printheads as a print signal. It transmits heat pulses to the printheads at the same time to optimize head driving.
- g) The printheads convert the received print signal from a serial signal to a parallel signal for each row of nozzles and then the signal is composed with the heat pulses to perform the printing.
- h) The ASIC (IC1) controls the general aspects of image processing and print drive control by detecting the status of the individual printer components with reference to the adjustment values stored in EEPROM. SDR-SDRAM is used as work memory.

 i) The ASIC (IC2) controls the general aspects of drive control by controlling button actuations and message displays on the basis of the firmware installed in flash

2.1.4 Print Driving

iPF765 / iPF760 / iPF750 / iPF755

Print and control signals are transferred via the carriage PCB to the printheads to discharge inks from the nozzle assembly at printing. Each printhead has 12 trains of nozzles arranged in a zigzag pattern.

This printer uses one printhead.

(In installed state, from left to right, C, M, Y, MBK, MBK, BK)

Print signals directed at each nozzle train are even-numbered nozzle data (Hx-x-DATA-x-EV) and odd-numbered nozzle data (Hx-x-DATA-x-OD). These are transferred in timing with a data transfer clock (Hx-CLK) and data latch pulses (Hx-LT).

The Heat Enable (Hx-x-HE-x) drive control signal enables inks to be discharged from the nozzles.

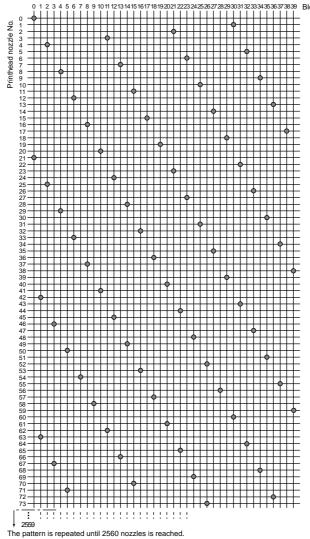
1. Pint drive control

Each train of nozzles in a printhead has 2,560 nozzles.

Ink discharge nozzles are selected split in 40-, 20- or 10-nozzle blocks according to the Block Enable information in the even-numbered nozzle data and odd-numbered nozzle data.

Each selected block of nozzles is impressed with a Heat Enable signal generated with variable pulse widths according to the head rank, head temperature and printer temperature for optimized ink discharges. The nozzles are driven by heater boards in the nozzles to discharge inks. Optimal nozzle blocks are selected according to the print path.

The diagram below illustrates the relationship between a 40-block nozzle and nozzles driven.



ttern is repeated until 2560 nozzles is reached

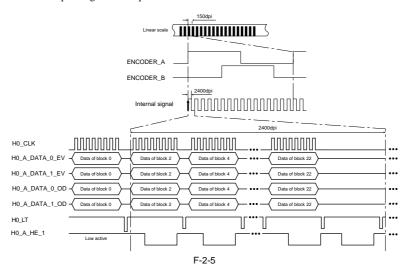
2. Print drive timing

Each printhead houses 12 trains of nozzles, which share the same data transfer clock (Hx-CLK) and data latch pulses (Hx-LT). Even-numbered nozzle data (Hx-x-DATA-x-EV), odd-numbered nozzle data (Hx-x-DATA-x-OD) and the Heat Enable (Hx-x-HE-x) signal are generated for each nozzle train and controlled individually. Printing is carried out in two ways through reciprocating motion of the carriage.

An encoder sensor mounted on the carriage generates a 150-dpi-pitched linear scale detection signal (ENCODER_A) and a signal (ENCODER_B) shifted 120 degrees in phase. The direction of carriage motion is detected from the status of the ENCODER_B signal relative to the leading edge of the ENCODER_A signal. The printhead is driven using a 2400-dpi timing signal (internal signal), which is generated by dividing the ENCODER_A signal detected at the 150 dpi timing into

Printing in the forward direction is triggered at the leading edge of the detection signal (ENCODER_A).

Printing in the backward direction is carried out the same way as printing in the forward direction but at the trailing edge of the detection signal (ENCODER_A), when the order of heated nozzles is reversed depending on the sequence of transfer of even-numbered nozzle data and odd-numbered nozzle data.

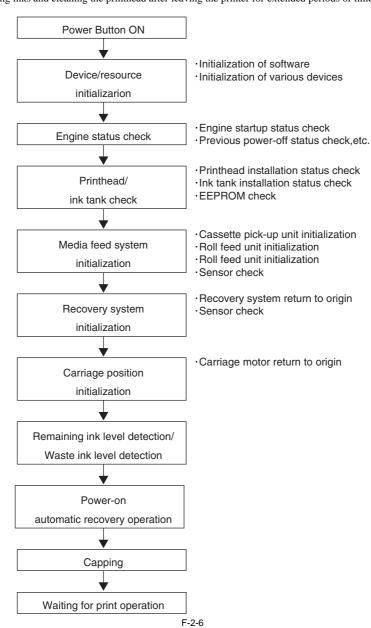


2.2 Firmware

2.2.1 Operation Sequence at Power-on

iPF765 / iPF760 / iPF750 / iPF755

The sequence of printer operations, from power-on to transition to online mode, is flowcharted below. The printer takes less than 1 minute to initialize itself(*). * Excluding the times spent supplying inks and cleaning the printhead after leaving the printer for extended periods of time.



2.2.2 Operation Sequence at Power-off

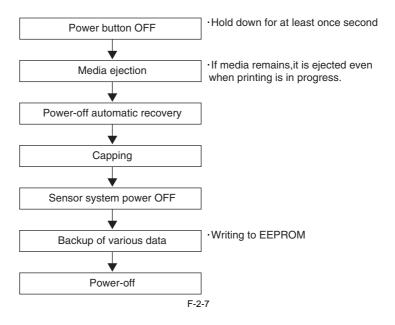
iPF765 / iPF760 / iPF750 / iPF755

Turning off the power switch cuts off the drive voltage supply, launching a firmware power-off sequence as shown below.



If the power cord is disconnected from the wall outlet or the upper cover or any other cover is opend, the printer cancels the ongoing operation and shuts down immediately. Since printhead capping may or may not have been carried out properly, reconnect the power cord to the wall out and turn on the power switch. Making sure that the printer has entered online mode, turn off the power switch.

1. Power-off sequence



2.2.3 Print Control

iPF765 / iPF760 / iPF750 / iPF755

1. Print mode

This printer is capable of fast, high-quality printing without blur and non-uniform density by changing the carriage operation, media feeding, other printing methods according to the selected media type, print quality, print data and so on.

Printing is performed for each color using a maximum of 16 paths in each print mode according to the selected print quality.

This reduces density irregularities caused by the variation in the amounts of ink discharged from individual nozzles. In addition, it shifts the printing timing so that the printing is peakly fixed before the part ink layer is applied, thus minimizing bleading.

the current ink layer is nearly fixed before the next ink layer is applied, thus minimizing bleeding.

Even in the same mode, the printer operates in a different way depending on the media setting made using the printer driver.

a) Date indeed in the draft mode, image data is thinned out and a single band (equivalent to the width of a nozzle array) is printed using two paths. To use this mode, select "Draft" under "Print Quality" in the printer driver.

In the standard mode, a single band (equivalent to the width of a nozzle array) is printed using 4-8 (4, 6, or 8) paths. To use this mode, select "Standard" under "Print Quality" in the printer driver.

c) High quality mode

In the high quality mode, a single band is printed using 8 or 12 paths.

To use this mode, select "High" under "Print Quality" in the printer driver.

d) Highest quality mode

In the high quality mode, a single band is printed using 12 or 16 paths.

To use this mode, select "Highest" under "Print Quality" in the printer driver.

Printing Modes are shown in the table below.

	Media Type	Print Priority	Print Quality	Print-Pass	Printing Direction	Print Resolution (dpi)	Used BK ink
Paper/ led	Plain Paper	Office Document	Standard	1/2	Bi-directional	1200x1200	MBK
ieu		Line Document/Text	Draft	1	Bi-directional	1200x1200	MBK
			g. 1 1	1	Bi-directional	1200x1200	MBK
			Standard	1	Bi-directional	1200x1200	MBK
			High	2	Bi-directional	1200x1200	MBK
		T	D 6	2	Bi-directional	1200x1200	MBK
		Image	Draft Standard	1	Bi-directional	1200x1200 1200x1200	MBK
			High	2	Bi-directional Bi-directional	1200x1200 1200x1200	MBK MBK
	Plain Paper (High Quality)	Office Document	Standard	1/2	Bi-directional	1200x1200	MBK
	Fiam Faper (Figir Quanty)	Line Document/Text	Draft	1/2	Bi-directional	1200x1200	MBK
		Ellic Document/ Text	Diait	1	Bi-directional	1200x1200	MBK
			Standard	1	Bi-directional	1200x1200	MBK
			High	2	Bi-directional	1200x1200	MBK
			Ingii	2	Bi-directional	1200x1200	MBK
		Image	Draft	1	Bi-directional	1200x1200	MBK
		image	Standard	2	Bi-directional	1200x1200	MBK
			High	4	Bi-directional	1200x1200	MBK
	Plain Paper (High Grade)	Office Document	Standard	1/2	Bi-directional	1200x1200	MBK
	Fiam Faper (Fign Grade)	Line Document/Text	Draft	1/2	Bi-directional	1200x1200	MBK
		Line Document/Text	Diait		Bi-directional	1200x1200 1200x1200	MBK
			C+11	1			
			Standard	1	Bi-directional	1200x1200 1200x1200	MBK MBK
			High	2	Bi-directional		
		*		2	Bi-directional	1200x1200	MBK
		Image	Draft	1	Bi-directional	1200x1200	MBK
			Standard	2	Bi-directional	1200x1200	MBK
			High	4	Bi-directional	1200x1200	MBK
	All Plain Paper_Conserve MBK	Office Document	Standard	1/2	Bi-directional	1200x1200	MBK
	WIDK	Line Document/Text	Draft	1	Bi-directional	1200x1200	MBK
				1	Bi-directional	1200x1200	MBK
			Standard	1	Bi-directional	1200x1200	MBK
			High	2	Bi-directional	1200x1200	MBK
				2	Bi-directional	1200x1200	MBK
		Image	Draft	1	Bi-directional	1200x1200	MBK
			Standard	2	Bi-directional	1200x1200	MBK
			High	4	Bi-directional	1200x1200	MBK
	Economy Bond Paper	Office Document	Standard	1/2	Bi-directional	1200x1200	MBK
		Line Document/Text	Draft	1	Bi-directional	1200x1200	MBK
				1	Bi-directional	1200x1200	MBK
			Standard	1	Bi-directional	1200x1200	MBK
			High	2	Bi-directional	1200x1200	MBK
				2	Bi-directional	1200x1200	MBK
		Image	Draft	1	Bi-directional	1200x1200	MBK
			Standard	2	Bi-directional	1200x1200	MBK
			High	4	Bi-directional	1200x1200	MBK
ļ	Universal Bond Paper	Office Document	Standard	1/2	Bi-directional	1200x1200	MBK
	-	Line Document/Text	Draft	1	Bi-directional	1200x1200	MBK
				1	Bi-directional	1200x1200	MBK
			Standard	1	Bi-directional	1200x1200	MBK
			High	2	Bi-directional	1200x1200	MBK
				2	Bi-directional	1200x1200	MBK
		Image	Draft	1	Bi-directional	1200x1200	MBK
		_	Standard	2	Bi-directional	1200x1200	MBK
			High	4	Bi-directional	1200x1200	MBK
ŀ	Standard Paper 1569B 80g	Office Document	Standard	1/2	Bi-directional	1200x1200	MBK
		Line Document/Text	Draft	1	Bi-directional	1200x1200	MBK
				1	Bi-directional	1200x1200	MBK
			Standard	1	Bi-directional	1200x1200	MBK
			High	2	Bi-directional	1200x1200	MBK
			1	2	Bi-directional	1200x1200	MBK
		Image	Draft	1	Bi-directional	1200x1200	MBK
ı		image		2		1200x1200 1200x1200	MBK
			Standard	[²	Bi-directional		
			High	4	Ri-directional	1200v1200	IMRK
	Standard Paper 1570D 000	Office Document	High Standard	4	Bi-directional	1200x1200	MBK MRK
	Standard Paper 1570B 90g	Office Document	Standard	1/2	Bi-directional	1200x1200	MBK
	Standard Paper 1570B 90g	Office Document Line Document/Text					

Media Type	Print Priority	Print Quality	Print-Pass	Printing Direction	Print Resolution (dpi)	Used BK
Coated Paper	Line Document/Text	Draft	1	Bi-directional	1200x1200	BK
			1	Bi-directional	1200x1200	BK
		Standard	2	Bi-directional	1200x1200	BK
		High	4	Bi-directional	1200x1200	BK
			4	Bi-directional	1200x1200	BK
	Image	Standard	4	Bi-directional	1200x1200	BK
		High	8	Bi-directional	2400x1200	BK
		Highest	12	Bi-directional	2400x1200	BK
Heavyweight Coated Paper	Line Document/Text	Draft	1	Bi-directional	1200x1200	BK
			1	Bi-directional	1200x1200	BK
		Standard	2	Bi-directional	1200x1200	BK
		High	4	Bi-directional	1200x1200	BK
			4	Bi-directional	1200x1200	BK
	Image	Standard	4	Bi-directional	1200x1200	BK
	image	High	8	Bi-directional	2400x1200	BK
			12	Bi-directional	2400x1200	BK
W. I. D. I. C. D.	I . D ./T .	Highest				
High Resolution Paper	Line Document/Text	Draft	1	Bi-directional	1200x1200	BK
			1	Bi-directional	1200x1200	BK
		Standard	2	Bi-directional	1200x1200	BK
		High	4	Bi-directional	1200x1200	BK
			4	Bi-directional	1200x1200	BK
	Image	Standard	4	Bi-directional	1200x1200	BK
		High	8	Bi-directional	2400x1200	BK
		Highest	12	Bi-directional	2400x1200	BK
Premium Coated Paper	Line Document/Text	Draft	1	Bi-directional	1200x1200	BK
Tremum coated raper	Eme Bocument Text	Dian	1	Bi-directional	1200x1200	BK
		C+11				
		Standard	2	Bi-directional	1200x1200	BK
		High	4	Bi-directional	1200x1200	BK
			4	Bi-directional	1200x1200	BK
	Image	Standard	4	Bi-directional	1200x1200	BK
		High	8	Bi-directional	2400x1200	BK
		Highest	12	Bi-directional	2400x1200	BK
LightWeight Coated paper	Line Document/Text	Draft	1	Bi-directional	1200x1200	BK
J80270 90g			1	Bi-directional	1200x1200	BK
		Standard	2	Bi-directional	1200x1200	BK
		High	4	Bi-directional	1200x1200	BK
		Tilgii	4	Bi-directional	1200x1200	BK
	Tuna aa	Standard	4			BK
	Image			Bi-directional	1200x1200	
		High	8	Bi-directional	2400x1200	BK
		Highest	12	Bi-directional	2400x1200	BK
Matte Coated Paper 170gsm	Line Document/Text	Draft	1	Bi-directional	1200x1200	BK
			1	Bi-directional	1200x1200	BK
		Standard	2	Bi-directional	1200x1200	BK
		High	4	Bi-directional	1200x1200	BK
			4	Bi-directional	1200x1200	BK
	Image	Standard	4	Bi-directional	1200x1200	BK
		High	8	Bi-directional	2400x1200	BK
		Highest	12	Bi-directional	2400x1200	BK
Recycled Coated Paper	Line Document/Text	Draft	12	Bi-directional	1200x1200	BK
Recycled Coaled Paper	Line Document/Text	Diait		Bi-directional Bi-directional		
		g, t	1		1200x1200	BK
		Standard	2	Bi-directional	1200x1200	BK
		High	4	Bi-directional	1200x1200	BK
			4	Bi-directional	1200x1200	BK
	Image	Standard	4	Bi-directional	1200x1200	BK
		High	8	Bi-directional	2400x1200	BK
		Highest	12	Bi-directional	2400x1200	BK
Colored Coated Paper	Image	Standard	4	Bi-directional	1200x1200	MBK
		High	8	Bi-directional	1200x1200	MBK
High Resolution Barrier	Line Document/Text	Draft	1	Bi-directional	1200x1200	BK
Paper 180g		2	1	Bi-directional	1200x1200	BK
		Ston dand				
		Standard	2	Bi-directional	1200x1200	BK
		High	4	Bi-directional	1200x1200	BK
			4	Bi-directional	1200x1200	BK
	Image	Standard	4	Bi-directional	1200x1200	BK
1		High	8	Bi-directional	2400x1200	BK

	Media Type	Print Priority	Print Quality	Print-Pass	Printing Direction	Print Resolution (dpi)	Used BK ink
Photo Paper	Glossy Photo Paper	Image	Standard	6	Bi-directional	1200x1200	BK
			High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
	Semi-Glossy Photo Paper	Image	Standard	6	Bi-directional	1200x1200	BK
			High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
	Photo Paper Plus Semi-Gloss	Image	Standard	6	Bi-directional	1200x1200	BK
			High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
	Photo Paper	Image	Standard	6	Bi-directional	1200x1200	BK
			High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
	Poster Semi-Glossy Photo	Image	Standard	6	Bi-directional	1200x1200	BK
	Paper		High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
	H64160 190 g/m² glossy	Image	Standard	6	Bi-directional	1200x1200	BK
			High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
	H62190 240 g/m² glossy	Image	Standard	6	Bi-directional	1200x1200	BK
	1102170 240 g/III- glossy	image		8	Bi-directional	2400x1200	BK
			High				
	T150000 0 40	, , , , , , , , , , , , , , , , , , ,	Highest	16	Bi-directional	2400x1200	BK
	H62290 240 g/m² satin	Image	Standard	6	Bi-directional	1200x1200	BK
			High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
	H72190 300 g/m² glossy	Image	Standard	6	Bi-directional	1200x1200	BK
			High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
	H72790 300 g/m² glacier	Image	Standard	6	Bi-directional	1200x1200	BK
			High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
	H71190 270 g/m² glossy	Image	Standard	6	Bi-directional	1200x1200	BK
			High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
	H71290 270 g/m² satin	Image	Standard	6	Bi-directional	1200x1200	BK
	11/12/02/0g/m saum	ge	High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
	Premium RC Photo Luster,	Image	Standard	6	Bi-directional	1200x1200	BK
	10 mil	image	High	8	Bi-directional	2400x1200	BK
			_				
	DI . D. 1260	·	Highest	16	Bi-directional	2400x1200	BK
	Photo paper Pearl 260g	Image	Standard	6	Bi-directional	1200x1200	BK
			High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
	H64160 190 g/m² glossy	Image	Standard	6	Bi-directional	1200x1200	BK
			High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
	H62190 240 g/m² glossy	Image	Standard	6	Bi-directional	1200x1200	BK
			High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
	H62290 240 g/m² satin	Image	Standard	6	Bi-directional	1200x1200	BK
			High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
	H72190 300 g/m² glossy	Image	Standard	6	Bi-directional	1200x1200	BK
	, , , , ,		High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
	H72790 300 g/m² glacier	Image	Standard	6	Bi-directional	1200x1200	BK
	11,27,0 500 g/m gracier	image		8	Bi-directional	2400x1200	BK
			High				
	W71100 270 / 2 1	,	Highest	16	Bi-directional	2400x1200	BK
	H71190 270 g/m² glossy	Image	Standard	6	Bi-directional	1200x1200	BK
			High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
	H71290 270 g/m² satin	Image	Standard	6	Bi-directional	1200x1200	BK
	Î	1	High	8	Bi-directional	2400x1200	BK
			riigii	O	Brancetional	2100/1200	

	Media Type	Print Priority	Print Quality	Print-Pass	Printing Direction	Print Resolution (dpi)	Used BK ink
Synthetic	Synthetic Paper	Image	Standard	6	Bi-directional	1200x1200	BK
Paper			High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
	Adhesive Synthetic Paper	Image	Standard	6	Bi-directional	1200x1200	BK
			High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
Proofing	Proofing Paper	Image	Standard	6	Bi-directional	1200x1200	BK
Paper			High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
	J37261 200 g/square meter	Image	Standard	6	Bi-directional	1200x1200	BK
	(non RC paper based)		High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
	J37261 200 g/square meter	Image	Standard	6	Bi-directional	1200x1200	BK
	(non RC paper based)		High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
	Professional Proof and Photo	Image	Standard	6	Bi-directional	1200x1200	BK
	Glossy 195g		High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
	Professional Proof and Photo	Image	Standard	6	Bi-directional	1200x1200	BK
	Semiglossy 195g	mage	High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
	Duofassianal Duo of and Dhata	Image	Standard	6	Bi-directional	1200x1200	BK
	Professional Proof and Photo Semigloss 255g	image					
			High	8	Bi-directional	2400x1200	BK
	****		Highest	16	Bi-directional	2400x1200	BK
Adhesive Matt Paper	High Resolution Graphic paper Self ADH	Image	Standard	6	Bi-directional	1200x1200	BK
iviatt i apci	paper sen ADII		High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
Film Paper	Backlit Film	Image	Standard	6	Bi-directional	1200x1200	BK
			High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
	Outdoor Backlit (Durable	Image	Standard	6	Bi-directional	1200x1200	BK
	Backlit Film/9578)		High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
CAD	CAD Tracing Paper	Line Document/Text	Draft	1	Bi-directional	1200x1200	MBK
				1	Bi-directional	1200x1200	MBK
			Standard	2	Bi-directional	1200x1200	MBK
			High	4	Bi-directional	1200x1200	MBK
				4	Bi-directional	1200x1200	MBK
	CAD Translucent Matte Film	Line Document/Text	Draft	1	Bi-directional	1200x1200	MBK
				1	Bi-directional	1200x1200	MBK
			Standard	2	Bi-directional	1200x1200	MBK
			High	4	Bi-directional	1200x1200	MBK
				4	Bi-directional	1200x1200	MBK
Special	SPECIAL 1	Image	Standard	6	Bi-directional	1200x1200	BK
- F		···o-	High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
	SPECIAL 2	Image	Standard	6	Bi-directional	1200x1200	BK
	SI ECHNE Z	image	High	8	Bi-directional	2400x1200	BK
					Bi-directional		BK
	SDECIAL 2	Imaga	Highest	16		2400x1200	
	SPECIAL 3	Image	Standard	6	Bi-directional	1200x1200	BK
			High	8	Bi-directional	2400x1200	BK
	ODECLAL A	*	Highest	16	Bi-directional	2400x1200	BK
	SPECIAL 4	Image	Standard	6	Bi-directional	1200x1200	BK
			High	8	Bi-directional	2400x1200	BK
			Highest	16	Bi-directional	2400x1200	BK
	SPECIAL 5	Image	Standard	6	Bi-directional	1200x1200	BK
			High	8	Bi-directional	2400x1200	BK
l	Ī		Highest	16	Bi-directional	2400x1200	BK

2.2.4 Print Position Adjustment Function

iPF765 / iPF760 / iPF750 / iPF755

This printer supports a print position adjustment for the vertical and horizontal print positions, the bidirectional print position of the printhead mounted on the carriage, and the feedrate.

riage, and the feedrate.

There are two adjustment modes for the print: automatic adjustment, in which print position adjustment patterns printed are detected by the multi sensor attached to the lower left part of the carriage, and manual adjustment, in which print position adjustment patterns that are slightly modified from one another are printed, so that visually verified adjustment values can be set from the operation panel.

To make print position adjustments, A3-or-larger-sized roll media or cut media are needed.

2.2.5 Head Management

iPF765 / iPF760 / iPF750 / iPF755

This printer supports a nozzle check function to spot non-discharging nozzles in the printhead.

When the printer detects a non-discharging nozzle, it starts cleaning the printhead automatically to correct its discharge failure. If cleaning does not work, the printer backs up the non-discharging nozzle with an alternative nozzle automatically to ensure unfailing print performance.

Detection timings (automatic):

Power-on, carriage cover open detection, print start (check timing variable by selecting Nozzle Check from the system menu).

2.2.6 Printhead Overheating Protection Control

iPF765 / iPF760 / iPF750 / iPF755

When an abnormal temperature rise in the printhead is detected, overheating protection control launches.

Overheating could occur in the printhead after a period of print operations without the nozzles being filled with inks.

Overheating protection control is implemented on the basis of the temperature detected by the head temperature sensor for each nozzle. When an abnormal temperature is detected in any nozzle train, overheating protection control is exerted at one of two levels according to that temperature.

Protection level 1:

If the head temperature sensor (DI sensor) detects a temperature higher than the protection temperature, it halts the carriage temporarily at the scan end position in the direction of travel according to the carriage scan status.

Printing resumes when the printhead radiates naturally to cool down below a predetermined temperature or when 30 seconds or longer have elapsed since the detection of the higher temperature.

Protection level 2:

If the head temperature sensor (DI sensor) detects a temperature higher than the abnormal temperature, the printer shuts down the print operation immediately, moving the carriage to the home position for capping, with an error indication on the display.

2.2.7 Pause between Pages

iPF765 / iPF760 / iPF750 / iPF755

An inter-page function is available to prevent ink rubbing, which keeps paper just printed hanging above the platen and waiting for a predetermined period of time before delivery.

The wait time is user-programmable from the print driver. This feature is particularly useful on paper that takes time to dry after printing, such as film.

2.2.8 White Raster Skip

iPF765 / iPF760 / iPF750 / iPF755

This printer supports a white raster skip function to bypass carriage scanning in a consecutive sequence of voids in print data, for added throughput.

2.2.9 Sleep Mode

iPF765 / iPF760 / iPF750 / iPF755

The printer has sleep mode to reduce its standby power requirement.

The printer transitions to sleep mode automatically when it has been left idle or no print data has been received for a predetermined period of time while the printer is online or offline.

The printer exits sleep mode when any operation panel key is activated or print data is received from the host computer.

The time to transition to sleep mode is variable from the operation panel (Default: 5minutes).

2.2.10 Hard Disk Drive

iPF765 / iPF755

This printer features a hard disk drive, which provides the following functions.
- Early release of the host computer
- Error recovery

- Job preservation
- Preserved job print
- Job queue handling

1) Early release of the host computer
Each print job received from the host computer is preserved to the hard disk drive attached to the printer, so the printer can proceed with independent printing, releasing the host computer before the print job completes.

If a print job aborts as a result of any print problem, such as a paper jam or insufficient paper, the printer reloads the print job stored on the hard disk so it can resume the print job without having to retransmit the job from the host computer to it.

3) Job preservation

Print jobs are in the common box, a place of temporary data storage, and in the personal box, a place of permanent data storage.

Normal print jobs are stored in the common box as they are received. Due to the limited hard disk space available, jobs stored in the common box are deleted from

Print jobs can be simply stored in the personal box without printing. Print jobs stored in the common box can be moved to the personal box.

4) Preserved job handlingPrint jobs stored in the personal box or common box can be printed from the operation panel.

5) Job queue handling

Multiple jobs queued for print can be handled. including the raising priority order of selected jobs in the queue or canceling selected print jobs.

2.3 Printer Mechanical System

2.3.1 Outline

2.3.1.1 Outline

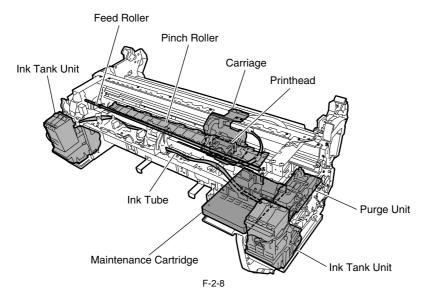
iPF765 / iPF760 / iPF750 / iPF755

The printer mechanism can be broadly divided into two major components: the ink passage and paper path.

The ink passage consists of the ink tank unit, the carriage unit having the printhead, the purge unit, the maintenance cartridge, and the tube unit which are used to supply, circulate, and suck ink.

The paper path consists of the feed roller unit to support one type of media feeding, transport, and ejection.

This section provides an overview of these mechanical components.



2.3.2 Ink Passage

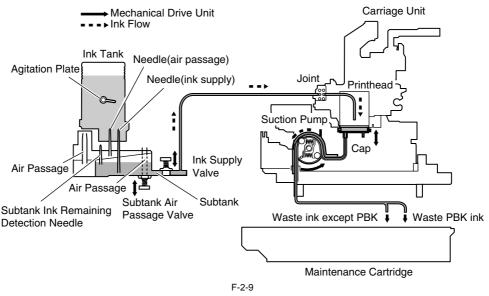
2.3.2.1 Ink Passage

2.3.2.1.1 Overview of Ink Passage

iPF765 / iPF760 / iPF750 / iPF755

The ink passage houses the ink tank, printhead, caps, maintenance jet tray, maintenance cartridge, waste ink collector, ink tubes interconnecting the mechanical units, suction pump driven mainly for sucking inks and so on. Its functions include supplying, circulating and sucking inks.

The ink passage (per color) is schematically shown below, along with the ink flow.



a) Supplying inks from the ink tanks to the ink supply valve assembly

The ink tanks each contain ink to feed the printhead.

The ink is supplied from the ink tanks to the subtanks first, then to the ink supply valves.

Air is discharged through the air passage to keep the internal pressure of the ink tanks and subtanks constant.

b) Supplying inks from the ink supply valves to the printhead

The ink stored in an ink tank flows to the printhead when the suction pump is driven with the ink supply valve opened and the head capped.

The ink sucked from the caps flows to the maintenance cartridge.

c) Supplying inks while printing

The ink supply valves and subtank air passage valves are kept open while printing, so that inks is constantly flowing to the printhead under the negative pressure of the nozzle assembly which is caused by the discharging inks.

Furthermore, waste inks sucked in the cleaning operation and inks from the maintenance jet tray flow into the maintenance cartridge.



If all of ink passages are opened (no ink tank is installed, the ink supply valve is opened, the subtank air passage valve is opened, and the printhead fixer lever is opened) when the ink tube is being filled with ink, the ink in the ink tube may reverse-flow due to the fluid level difference and ink may leak from the hollow needle of the ink tank

Do not open all of the ink passages at the same time when the ink tube is being filled with ink.

d) Agitation of ink in the ink tank

Ink in the ink tank and the subtank are agitated to prevent precipitation of pigment-based ink in the ink tank and subtank

This function is implemented by reverse-flowing ink to the ink tank and subtank by opening and closing the ink supply valve and subtank air passage valve in succession. Inside the ink tank is provided with an agitation plate to assist agitation of ink. (The agitation plate is also provided in the dye ink tank.

- Operation timing: When a new ink tank is installed or when 168 hours have lapsed since the previous agitation (the agitation is performed irrespective of the whether the printer is printing or cleaning its head)
- Ink supply valve opening/closing count: 30 times (every 30 seconds)

If 336 or more hours have lapsed, the ink valve opening/closing count and the time until the next agitation are changed according to the length of the tame lapsed.

2.3.2.2 Ink Tank Unit

2.3.2.2.1 Structure of Ink Tank Unit

iPF765 / iPF760 / iPF750 / iPF755

a) Ink tank

Each ink tank contains 130 ml of ink (the starter ink tank supplied with the printer contains 90 ml of ink) for each color. The amount of ink is memorized in the EEPROM mounted to the ink tank.

The amount of the ink remaining in the ink tank is detected as a dot count according to the data memorized in the EEPROM.

When the electrodes mounted to the hollow needle detect a con-conductive state, a message appears on the display to indicate that the ink is nearly empty. If the dot count reaches the prescribed value, the ink tank is considered to be empty.

When the ink tank lock lever is pressed down, the hollow needle enters the ink port (covered with a rubber plug), establishing an ink passage between the printer and ink tank.

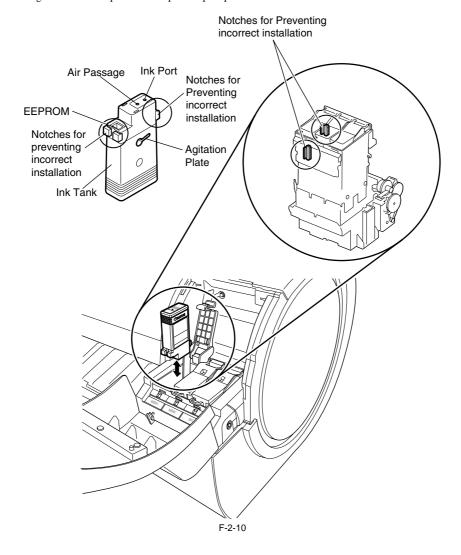
c) Air passage

When the ink tank lever of the printer is pressed down, the hollow needle enters the air passage (covered with a rubber plug) and thus the internal pressure of the ink tank is released, maintaining the internal pressure constant.

d) Notches for preventing incorrect insertion

The ink tanks have notches for preventing incorrect location. Wrong ink tanks cannot be installed in place due to these notches. The ink tank lock lever can lowered to start ink supply only when the ink tank has been installed in place.

e) Agitation plate
The agitation plate assists the ink agitation which is performed to prevent precipitation of ink.



The subtank installed under each ink tank complements the work of the ink tank, agitating the ink in the tank.

If the ink tank runs out of the ink while printing, the ink stored in the subtank is available, allowing the ink tank to be replaced without having to stop printing.

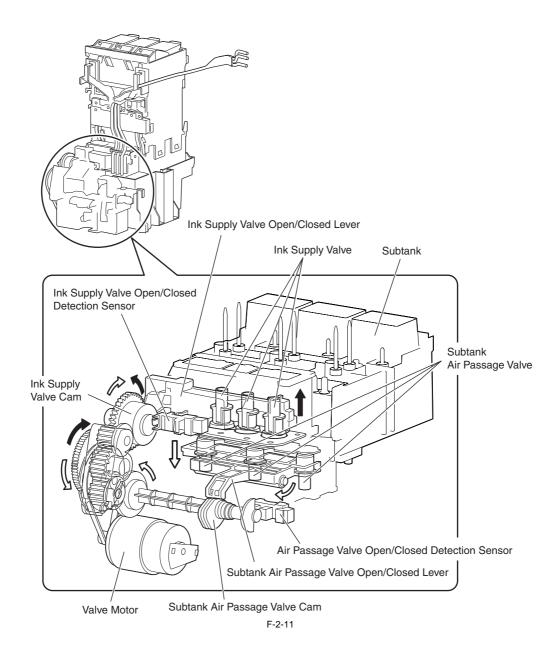
g) Ink supply valve
The ink supply valve is located between the ink tank and ink tube to prevent ink leakage from occurring when the ink tube on the ink tank side is opened during replacement of the ink tank.

The ink supply valve is opened and closed by the valve open/close mechanism which is driven by the valve motor.

The ink tank unit (Left/Right) consist of tank bases each of which contains ink tanks for three colors and the ink tubes for three colors.

Ink supply valves for all colors are opened and closed at the same time.

h) Subtank air passage valve
The subtank air passage valves keep the internal pressure of the subtank adequatly.
The subtank air passage valve is opened and closed by the valve open/close mechanism which is driven by the valve motor.



2.3.2.3 Carriage Unit

2.3.2.3.1 Functions of Carriage Unit

iPF765 / iPF760 / iPF750 / iPF755

a) Printhead mounting function

The carriage mechanically locks the printhead and transmits the print signals to the printhead via the carriage PCB.

The carriage incorporates a carriage PCB that relays the signal from the main controller, a linear encoder that generates a print timing signal based on the detected carriage position, and a multi sensor that detects the media width and skewing to adjust the registration and height. The carriage PCB and main controller PCB are connected with a flexible cable.

c) Carriage drive function

The carriage motor moves the carriage back and forth on the platen via the carriage belt.

d) Printhead maintenance function

The printer performs the printhead cleaning operation such as printhead wiping and suction at the home position of the carriage.

The printer detects a non-discharging nozzle using the head management sensor attached to the maintenance jet tray by discharging ink with the carriage stopped at the maintenance jet tray.

f) Media thickness adjustment function

If the gap between the printhead face and the media increases due to the difference in media thickness, cockling, curling, and so on, more ink mist is generated. In reverse, if the gap decreases, the head can touch the media surface more frequently.

To maintain the proper gap, the remote lifter is driven to adjust the head height automatically according to the selected media type, media supply method, printing conditions (borderless/priority print type), environmental conditions (temperature/humidity), and the result of measurement by the multi sensor

The relationship between media types and head heights (from the platen) is summarized in the table below. Note that the head height is adjusted with priority given to the media gap measured by the multi sensor.

Head height (mm)	Media type (Value in parentheses:mm)*1	
1.0	(select by the user when using the plain paper)	
1.3	Photo paper, Synthetic paper, Backlit film	
1.8	Plain paper, Coated paper	
2	Heavyweight coated paper	
2.2	Premiun matte paper, Special	
2.6	Special (at the low humidity or high humidity)	

^{*1:} Roll media, borderless printing, standard mode excert for line document

g) Paper leading edge detection function/paper width detection function/skewing detection function

The leading edge, width, and skewing of the paper fed to the platen is detected by the multi sensor mounted at the lower left of the carriage.

h) Auto printing position adjustment function

The adjustment pattern printed on paper is read by the multi sensor mounted at the lower left of the carriage, thus adjusting the printing timings of each printhead

i) Remaining roll media detection function

The amount of the remaining roll paper can be detected using the multi sensor mounted at the lower left of the carriage by printing a barcode at delivery of the roll

j) Internal temperature detection function
The internal temperature around the printhead is detected using the thermistor mounted on the carriage PCB.

2.3.2.3.2 Structure of Carriage Unit

iPF765 / iPF760 / iPF750 / iPF755

a) Printhead mounting unit

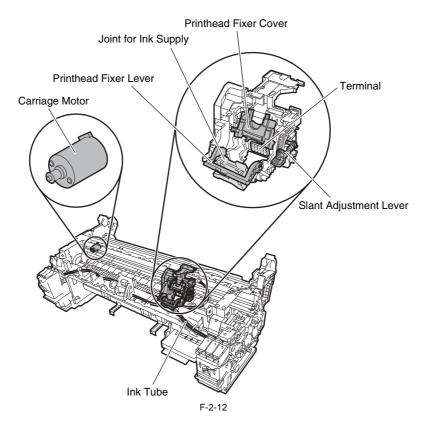
The printhead is secured to the carriage by the printhead fixer lever.

When the printhead is secured to the carriage, the signal contact of the carriage PCB touches the signal contact point of the printhead, allowing print signals to be transmitted.

The ink passage from the ink tank is connected to the printhead through the ink tube and joint.

b) Ink port

Ink is supplied to the printhead via an ink tube, which is connected to ink joints, and runs between the tube guides to reach the carriage and follow its movement.



c) Control unit

The carriage PCB is connected to the main controller PCB with a flexible cable. The flexible cable moves in conjunction with the carriage. A photo-coupler-type encoder is mounted at the top of the rear of the carriage to detect the slit on the linear scale during carriage movement, thus controlling the print timing.

d) Carriage drive

Mechanical misregistrations in the vertical/horizontal and bidirectional print positions of the printhead mounted can be corrected by selecting Adjust Printer from

the main menu to shift the print timing.

A DC-operated carriage motor drives the carriage reciprocally on the platen by way of the carriage belt.

The carriage home position, or the capping position, is detected by the sensor flag on the right side of the carriage and the photointerrupter-based carriage HP sensor on the right side of the printer. When the linear scale position is seen a reference home position for use in subsequent position control operations, the carriage motor is driven by a control signal generated from the main controller PCB.

e) Printhead maintenance unit

This printer cleans the printhead with the carriage halted at its home position.

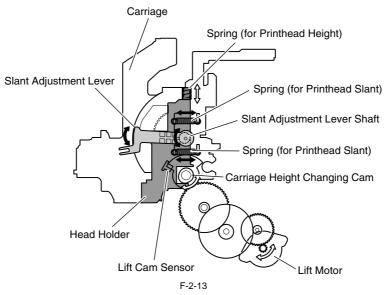
Wiping takes place through the rotation of the motor.

Wiper blades mounted on the carriage wipe the printhead while the carriage is halted at its home position.

Wet wiping is carried out for added wiping removal performance, whereby the wiper blades are moistened with glycerin as they are pressed against an absorber impregnated with glycerin.

Maintenance jet ejection is carried out on the cap, at the maintenance jet tray.

A suction operation is carried out by a suction cap in the purge unit.



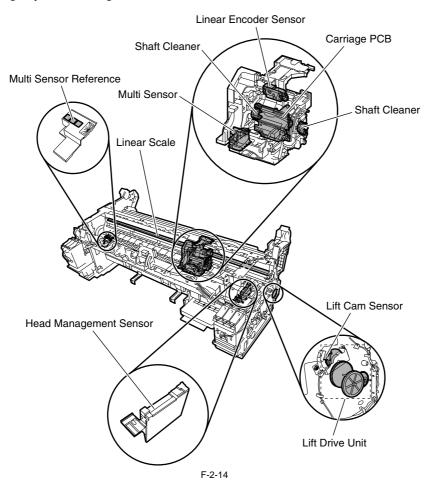
f) Carriage height adjustment unit

The head height is adjusted with the carriage halted at its home position.

The lift motor is driven to rotate the carriage height changing cam within the carriage, in sync with which the lift cams on both sides of the carriage move the head holder up and down, thereby varying the separation between the face of the printhead and the paper. The printhead height is detected from the lift cam sensor within the carriage and the distance of rotation of the lift motor.

g) Slant adjustment unit
The tilting of the head is adjusted with the slant adjustment lever.

The point where the slant adjustment lever axis touches the head holder is offset from the fulcrum of the lever axis. Therefore, the printhead is tilted by moving the slant adjustment lever and moving the position on the right side of the head holder back or forward.



h) Multi Sensor

A photo reflective type multi sensor consists of three red LEDs, one red/blue/green LED array, and three light receiving sensors and is used for media end, skew, and width adjustment, registration adjustment, head height adjustment, and print position adjustment.

The multi sensor reference has three white plates attached to it, so that a reference value can be calculated during carriage height measurement by measuring the intensity of light reflected upon the white plates.
(Service mode: SERVICE MODE>ADJUST>GAP CALIB.)

i) Shaft cleaner units

The shaft cleaners mounted at the left and right of the carriage are used to clean the carriage and apply oil to the shaft.

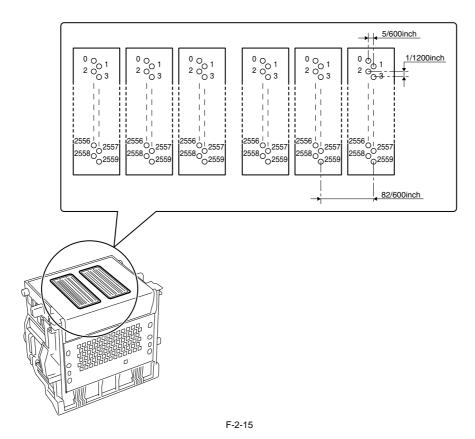
2.3.2.4 Printhead

2.3.2.4.1 Structure of Printhead

iPF765 / iPF760 / iPF750 / iPF755

A printhead incorporates six nozzle arrays. Each nozzle can be controlled individually so that a six-color discharge action can be performed by a single printhead.

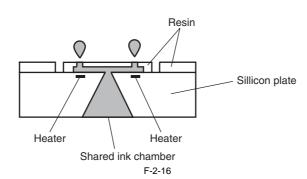
a) Nozzle arrays
A total of 2560 nozzles are arranged in a two-column staggered pattern.
In each column, 1280 nozzles are arranged in a staggered pattern at intervals of 600 dpi, forming a 2560-nozzle arranged at intervals of 1200 dpi.



b) Nozzle structure

Ink supplied from the ink tank is filtered by a mesh ink filter, and the supplied to the nozzles.

Ink supplied from the shared ink chamber to the nozzles. When the head driving current is applied to the nozzle heater, ink boils and form bubbles so that ink droplets are discharged from the nozzles.

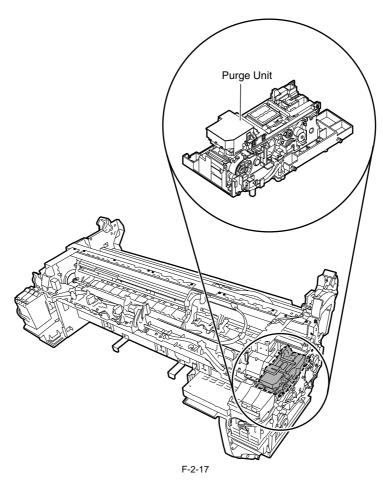


2.3.2.5 Purge Unit

2.3.2.5.1 Functions of Purge Unit

iPF765 / iPF760 / iPF750 / iPF755

To maintain high print quality, the purge unit performs maintenance of the nozzles of the printhead. The purge unit supports a capping function, cleaning function, and ink supply function.



a) Capping function

The capping function presses the cap of the purge unit against the face plate on the nozzle section of the printhead to prevent nozzle drying and dust adhesion. Capping is performed when printing is complete, at the start of the suction operation, and when switching to the standby state due to an error. The capping function also establishes the ink passage between the printhead and purge unit.

b) Cleaning function

The cleaning function restores the printhead to the state where ink can be easily discharged from nozzles. This function includes the following three types of oper-

- Wiping operation
This operation is performed to remove paper fibers and dried ink from the face plate.

This operation is performed to remove ink from the nozzles and fill the nozzles with fresh ink.

Maintenance jet operation

This operation is performed to spray ink from the nozzles to the cap, the maintenance jet ink groove of the platen to remove bubbles in the nozzles and dust and other foreign particles.

c) Ink supply function

The suction pump of the purge unit operates together with the ink supply valve to supply ink to the printhead during the initial filling and ink level adjustment. Details of the cleaning function are shown in the table below.

Cleaning mode	Name of Service mode or PRINT INF (Name of Main Menu)	Operation	Description of cleaning
Cleaning 1	CLN-A-1/CLN-M-1 (Head Cleaning A)	Normal cleaning	Removes dried ink from nozzles, thick ink accumulated on the face, and paper particles.
Cleaning 2	CLN-A-2	Ink level adjustment and cleaning	Adjust the ink level in the head by suction, and then performs normal cleaning.
Cleaning 3	CLN-A-3	Initial filling ink	Fills the empty tube (during initial installation) with ink, and then performs normal cleaning.

Cleaning mode	Name of Service mode or PRINT INF (Name of Main Menu)	Operation	Description of cleaning
Cleaning 4	CLN-M-4 (Replace P.head)	Ink drainage for head replacement	Drains ink to replace the head (drains only the ink in the head).
Cleaning 5	CLN-M-5 (Move Printer)	Ink drainage for secondary transport	Drains ink from the head and tube for secondary transport.
Cleaning 6	CLN-A-6/CLN-M-6 (Head Cleaning B)	Normal (strong) cleaning	Performs suction stronger than when adjusting the ink filling amount in the head or normal cleaning to unclog nozzles.
Cleaning 7	CLN-A-7	Aging	Performs idle ejection after replacement of the head.
Cleaning 10	CLN-A-10 (Move Printer)	Ink filling after secondary transport	Fills the empty tube (during installation after secondary transport) with ink, and performs normal cleaning.
Cleaning 11	CLN-A-11	Ink filling after head replacement	Performs normal cleaning after head replacement and ink filling.
Cleaning 15	CLN-A-15	Dot count suction	Performs suction to remove ink adhered to dried nozzles and thick ink accumulated on the face when the dot count reaches the prescribed value.
Cleaning 16	CLN-A-16	Precipitated ink agitation	Performs the agitation (ink supply valve open/close) operation to prevent the ink ingredient from precipitating.
Cleaning 17	CLN-A-17	Cleaning (weak)	Performs cleaning weaker than normal cleaning to unclog nozzles.

Cleaning operation timings are as follows.

	Printer status				Ink consumption (typ.)*1
Standby	168 hours elapsed capped			Cleaning 1 (Normal Cleaning)	1g
	At least 720 to 960 hours elapsed since the last session of Cleaning 2, 3, 6 or 10 (480 hours after initial installation)			Cleaning 6 (Normal (strong) Cleaning)	5g
At initial installation and 96 hours elapsed since the			on of Cleaning 16	Cleaning 16 (Precipitated ink agitation)	-
	1 hour elapsed capped wi wiping	th a specified number of dots discha	Wiping + Idle ejection	0.013g	
Power-on	At initial installation		Cleaning 3 (initial filling ink)	40g	
	Both heads and inks available	The print operation has completed.	168 to 720 hours elapsed capped	Cleaning 1 (Normal Cleaning)	1g
N			At least 720 to 960 hours elapsed since the last session of Cleaning 2, 3, 6 or 10 (360 to 480 hours after initial installation)	Cleaning 6 (Normal (strong) Cleaning)	5g
			At least 960 to 2160 hours elapsed since the last session of Cleaning 2, 3, 6 or 10 (480 hours after initial installation)	Cleaning 2 (Ink level adjustment and cleaning)	10g
			At least 96 hours elapsed since the last session of Cleaning 16	Cleaning 16 (Precipitated ink agitation)	-
			At least 1 hour elapsed capped with a specified number of dots discharged per chip completed after last wiping	Wiping + Idle ejection	0.013g
		Print operation aborted (uncapped) and CR error occurring	Up to 72 hours elapsed after an abort	Cleaning 1 (Normal Cleaning)	1g
			Over 72 hours elapsed after an abort	Cleaning 6 (Normal (strong) Cleaning)	5g
	Print operation aborted (uncapped) and no CR error occurring			Cleaning 11 (ink filling after head replacement)	10g
	No heads are available		Cleaning 10 (ink filling on secondary transport)	40g	
Power off	Specified number of dots	discharged per chip completed sinc	Wiping + Idle ejection	0.013g	
Before the	Less than 168 hours elaps	sed capped	Idle ejection	0.013g	
start of printing	At least 168 hours elapsed	d capped	Cleaning 1 (Normal Cleaning)	1g	
	Before printing in the wal	ke of an error occurrence	Cleaning 1 (Normal Cleaning)	1g	
Printing	Before scanning while printing			Idle ejection (+Wiping)	- (0.013g)
After the end of printing	A specified number of dots (color) discharged per chip since the last session of Cleaning 2, 3, 6 or 1			Cleaning 6 (Normal (strong) Cleaning)	5g
	A specified number of dots discharged per chip after the last session of wiping			Wiping + Idle ejection	0.013g
	3 minutes elapsed since the	11 0	Wiping + Idle ejection	0.013g	
	Total 2 hours elapsed unc	capped since the last session of Clea	Cleaning 1 (Normal Cleaning)	1g	
When the Head	Manual Cleaning (Head Cleaning A)			Cleaning 1 (Normal Cleaning)	1g
Cleaning menu choice is executed	Manual cleaning (Head cleaning B)			Cleaning 6 (Normal (strong) Cleaning)	5g
When the Replace Printhead menu choice is executed	After head replacement			Cleaning 2 (ink level adjustment and cleaning) + Cleaning 4 (ink drainage for head replacement)	10g
When the Move Printer	After the Move Printer menu choice is executed			Cleaning 5 (ink drainage for secondary transport)	10g
menu choice is executed	After power-on at secondary installation			After power-on at secondary installation	15g

^{*1:} Quantities of ink consumption by nozzle train

2.3.2.5.2 Structure of Purge Unit

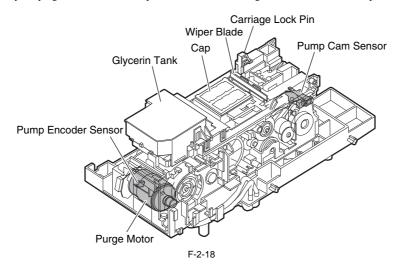
iPF765 / iPF760 / iPF750 / iPF755

a) Cap unit

The cap unit is used to cap the printhead nozzles during capping and cleaning. The portion that touches the face plate is made from rubber. Two caps are arranged for the printhead (six arrays of nozzles) installed in the carriage.

During cleaning, the caps used for both suction and capping are used to suck ink from the printhead using the suction pump.

During capping, the caps are raised by the purge motor to cover the printhead when the carriage has moved to the home position, thus protecting the nozzles.



b) Wiper unit

The wiper unit operated by the purge motor wipes the printhead face.

The printer is provided with a pair of wiper blades for better wiping performance.

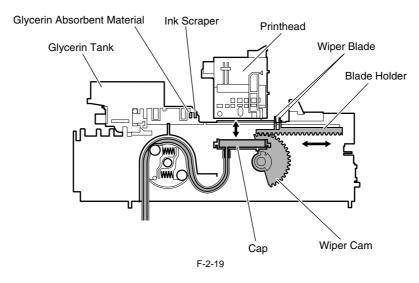
The wiping operation is performed by a "slide wipe" method by which the purge motor rotates (in the normal direction) to slide the wiper blade via the wiper cam. It is performed by a constant-speed movement toward the front of the printer as viewed from the printer front.

The wiper blade, which is positioned at right angles to the printhead, wipes the entire printhead face, and then the narrow blade is used to wipe the nozzle arrays. After wiping, the wipe blades are cleaned before they are set at the wiping position so that the maximum wiping performance is obtained.

During the wiper blade cleaning, the ink removed form the head is rubbed off by the in scraper.

Absorbent material soaked with glycerin is pressed against the wiper blades to enhance the wiping performance. The amount of glycerin used (tank capacity: 50 ml) is managed by counting the number of times the wiper blade is pressed against the absorbent material. When the count reaches the following value, an advance notice of replacement (printing can be continued) or a request for replacement (service call error) is displayed.

Advance notice of replacement	47,500times
Service call	50,000times

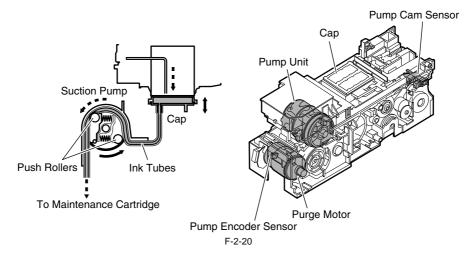


c) Pump unit

This printer uses tube pumps (suction pumps) that press on the ink tubes using rollers to produce negative pressure, thus sucking ink.

Two rollers are used to press on a single tube one after another to control the amount of ink sucked.

The roller rotation timing is detected by the pump cam sensor, and the amount of rotation is controlled by the driving of the purge motor.



2.3.2.6 Maintenance Cartridge

2.3.2.6.1 Maintenance Cartridge

iPF765 / iPF760 / iPF750 / iPF755

a) Maintenance cartridge
The maintenance cartridge holds as much about 893 ml (part of MBK (pigment) ink: 210 ml/part of dye ink: 683 ml) of used inks.

b) Used maintenance cartridge ink detection

Used maintenance cartridge ink detection is monitored with regard to a dot count.

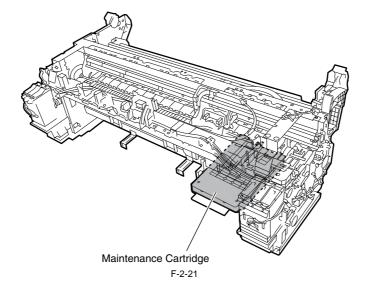
When the quantity of the used ink reaches about 800 ml (80% of the cartridge capacity), the warning message "Check maint cartridge capacity" is displayed to tell that the maintenance cartridge is nearly full.

When the quantity of the used ink reaches about 893 ml (100% of the cartridge capacity), a replacement prompt error message is displayed, telling that the maintenance cartridge is full.

When the printer determines that the maintenance cartridge is full, it shuts down even while it is printing. The printer will remain inoperable until the maintenance cartridge is replaced.

MEMO:
The maintenance cartridge houses EEPROM, so that main controller PCB can control the status of the maintenance cartridge by writing to and reading from the EEPROM content.

There is no need to initialize the counter information, therefore, when the maintenance cartridge is replaced.



2.3.2.7 Air Flow

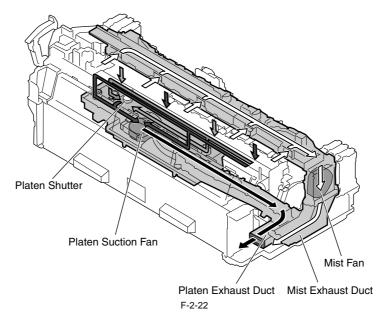
2.3.2.7.1 Air Flow

iPF765 / iPF760 / iPF750 / iPF755

This printer is equipped with a mist fan to collect the ink mist and a suction fan to suck the media to the platen.

The ink floating in air or spattered from the media during printing passes through the suction port because of the air flow inside the printer and is collected inside the mist fan and mist exhaust duct.

There is a duct below the platen and the ink mist in the duct is collected in the platen suction duct by the platen suction fan.

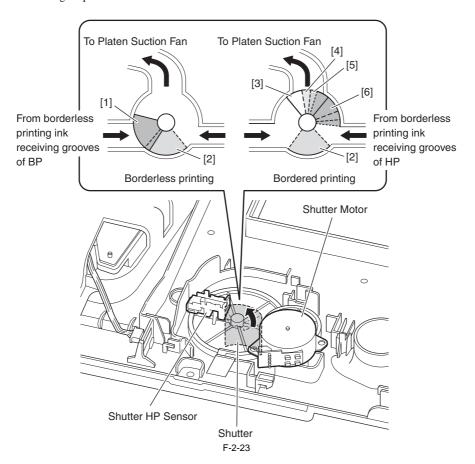


There are two ducts below the platen and each is connected to the platen suction fan. One comes from the borderless printing ink receiving grooves and the other comes from the suction port.

The duct from the borderless printing ink receiving grooves has a shutter unit in front of the platen suction fan. This controls the suction pressure from the borderless printing ink receiving grooves according to the paper size and number of print passes with the shutter opening amount of the shutter unit in order to prevent ink flowing and smearing at the edge of paper during borderless printing.

The shutter position (opening) is detected by the shutter HP sensor and the rotation of the shutter motor.

The shutter is controlled at the following six positions.



Shutter position	Shutter opening	During borderless printing	During bordered printing
[1]	Only HP side open	Yes (17 inch or shorter media)	
[2]	Fully open	Yes (B2 or larger media)	Yes
[3]	Fully close		Yes
[4]	1/4 open		Yes
[5]	1/2 open		Yes
[6]	3/4 open		Yes

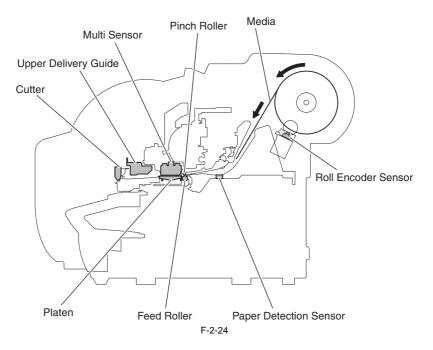
2.3.3 Paper Path

2.3.3.1 Outline

2.3.3.1.1 Overview of Paper Path

iPF765 / iPF760 / iPF750 / iPF755

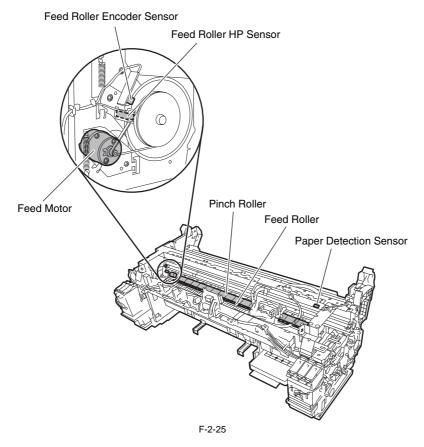
The paper pass comprises an roll unit, a feed roller, a pinch roller pressure drive unit that pressurizes and depressurizes the pinch roller, a roll holder drive unit that drives the roll holder and sensors that detect the transport status of paper to feed paper in one way, and transport and eject the paper.



2.3.3.2 Paper Path

2.3.3.2.1 Structure of Feed Roller Unit

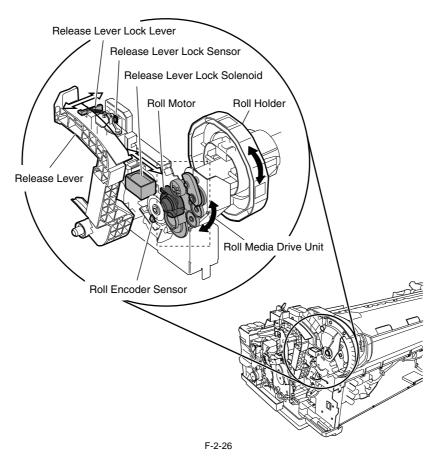
iPF765 / iPF760 / iPF750 / iPF755



a) Feed roller Unit
The feed roller unit consists of media feeding mechanisms such as feed rollers driven by the feed motor and the pinch roller unit operating in conjunction with the

While being held flat on the platen, media is fed horizontally under the printhead.

b) Detection Unit
The feed roller unit has a sensor that detects the media feed status and a sensor that detects the status of the mechanisms that constitute the paper path.



c) Roll media drive unit
The paper feed unit has a roll media drive unit to prevent sagging and skewing of media when feeding a roll media. The roll media drive unit feeds/rewinds the roll media by rotating the roll holder with the forward/reverse rotation of the roll motor.

The roll encoder sensor of the roll media drive unit detects the rotation of the roll holder during roll media feed, and assumes the end of roll media is reached when the roll holder stops rotating.

d) Release lever unit

The release lever is used to release the pinch roller pressure when setting the media or fixing jam.

The release lever lock solenoid turns ON and locks the release lever with the release lever lock lever so that the pinch roller pressure cannot be released while

printing.
The release lever lock status is detected with the release lever lock sensor.

2.3.3.3 Cutter Unit

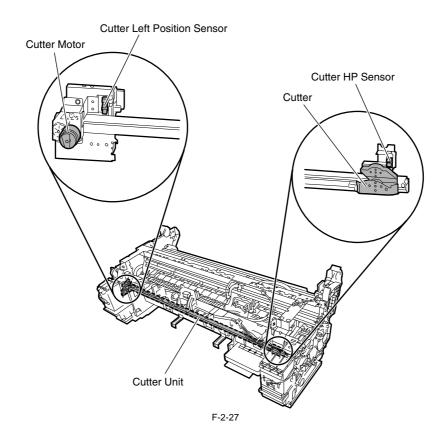
2.3.3.3.1 Structure of Cutter Unit

iPF765 / iPF760 / iPF750 / iPF755

When a roll media is used, the cutter unit cuts the leading end of the roll on loading and also cuts the roller on paper ejection. Whether cutting takes place or not depends on the relevant printer driver setting in the main menu.

The cutter in the cutter unit stands by at the cutter home position, except when a roll media is cut. Power imparted from the cutter motor to the cutter via a circular

belt drives it to travel from right to left for cutting.



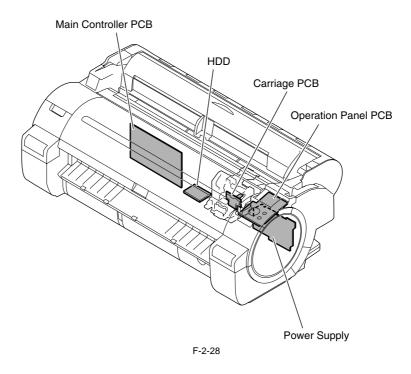
2.4 Printer Electrical System

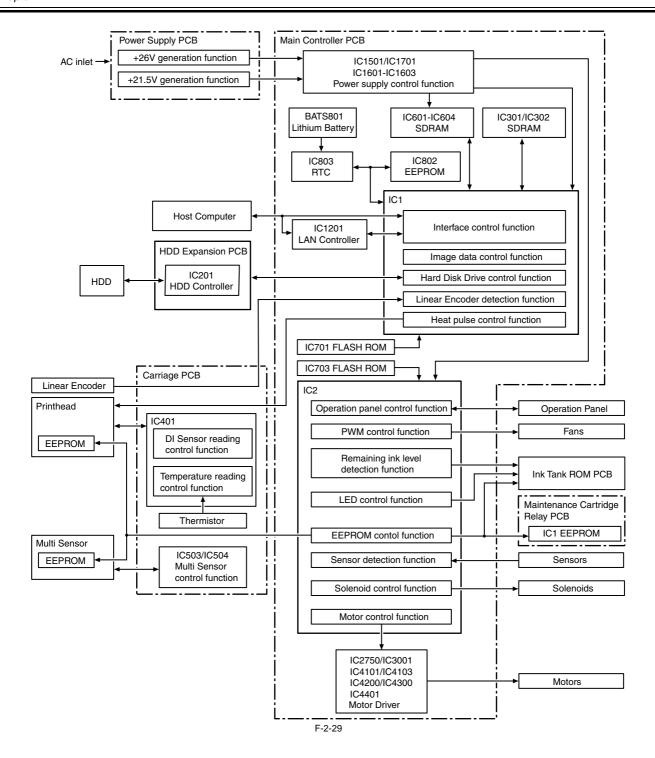
2.4.1 Outline

2.4.1.1 Overview

iPF765 / iPF755

The printer electrical system consists of the main controller PCB and power supply PCB and HDD which are mounted on the rear side of the printer, the carriage PCB and printhead which are mounted in the carriage, and other electrical components such as the operation panel, sensors, and motors. The main controller PCB manages the image data processing and the entire electrical system, and controls relay PCBs and driver functions.

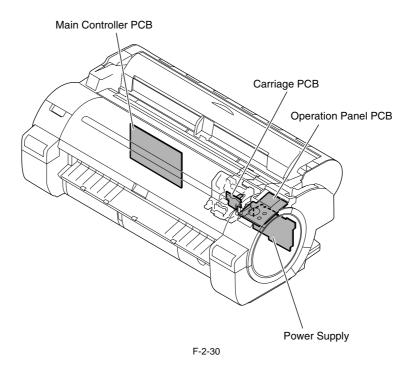


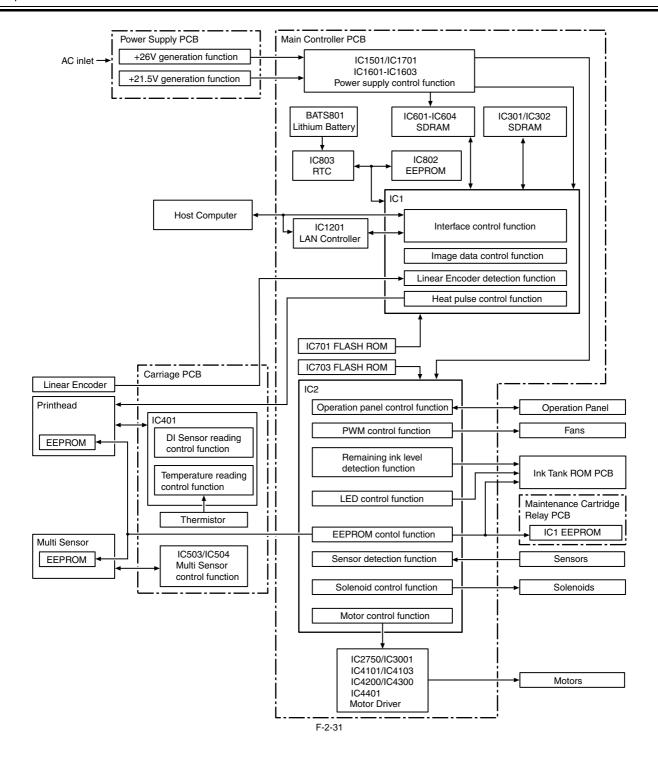


2.4.1.2 Overview

iPF760 / iPF750

The printer electrical system consists of the main controller PCB and power supply PCB which are mounted on the rear side of the printer, the carriage PCB and printhead which are mounted in the carriage, and other electrical components such as the operation panel, sensors, and motors. The main controller PCB manages the image data processing and the entire electrical system, and controls relay PCBs and driver functions.

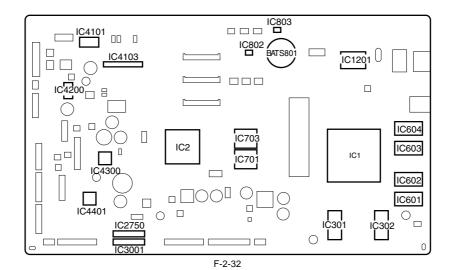




2.4.2 Main Controller

2.4.2.1 Main controller PCB components

iPF765 / iPF755



a) ASIC (IC1/IC2)

The ASIC (IC1/IC2) with a 32/16-bit internal bus is driven in sync with the 165/66 MHz external clock. It supports the following functions:

Image processing unit

This unit converts the RGB multi-value image data or CMYK multi-value data received from the host computer through the interface connector to the binary image data for the ink colors used.

DMA controller

This controller control DMA transfer of the data transferred through the input interfaces as well as DMA transfer of the data stored in the DIMM.

Image data generation/output function

This function generates image data for color printing from the received image data and the mask pattern (corresponding to print mode) stored in the FLASH ROM, and stored the generated image data in DIMM. It also outputs the generated image data to the carriage PCB.

Interrupt controller

This controller receives and processes internal interrupts and external interrupts from the USB, image processing unit, and expansion card slot.

Timer function

Even when the printer is turned off, the timer function is held on using the RTC(IC803) and lithium battery(BATS801) to assist the cleaning function. When the power cord is plugged to the outlet, power is supplied to the RTC and therefore the lithium battery power is not consumed.

Heat Enable signal control function

This function uses the pulse width to perform variable control of the time of application of the Heat Enable signal to the nozzle heater board for each printhead nozzle array.

Linear scale count function

This function reads the linear scale when the carriage moves, thus generating the ink discharge timing. It also counts the linear scale timing cycle using the reference clock to measure the carriage moving speed.

Dot count function

This function controls the discharge dots used as the information for Heat Enable signal control, maintenance jet control, cleaning control, and remaining ink level for each nozzle array.

Operation panel control function

This function controls serial communication with the operation panel.

PWM control function

This function controls driving of the suction fan and mist fan as well as the temperature of the printhead.

Remaining ink level detection function

This function detects the remaining level of each color of ink based on the signal received from the hollow needle mounted in the ink tank unit.

LED control function

This function controls the LEDs on the ink tank unit.

I/O port function

This function controls input signals from sensors.

Power ON/OFF control function

This function controls turning on/off of the drive power (26 V and 21.5 V) supplied from the power supply PCB.

Head DI sensor read control function

This function controls read operation by the head DI sensor.

Multi sensor control function

This function controls the LED, adjusts the gain, and controls obtainment of the reading for the multi sensor.

EEPROM control function

This function controls the EEPROMs of individual ink tanks, the maintenance cartridge EEPROM, the EEPROM on the maintenance cartridge relay PCB, and the head EEPROM in addition to the on-board EEPROM.

This function controls the carriage motor, feed motor, valve motor (L)/(R), shutter motor, purge motor, lift motor, roll motor and cutter motor based on the input signals from sensors.

HDD control function

This function controls the hard disk drive.

b) Driver IC (IC4101/4103)

This IC generates a carriage motor control signal based on the control signal from the ASIC.

c) Driver IC (IC4200)

This IC generates a feed motor control signal based on the control signal from the ASIC.

This IC generates purge motor and cutter motor control signals based on the control signal from the ASIC.

e) Driver IC (IC4401) This IC generates roll motor and valve motor (L)/(R) control signals based on the control signal from the ASIC.

This IC generates a shutter motor control signal based on the control signal from the ASIC.

g) Driver IC (IC3001)
This IC generates a lift motor control signal based on the control signal from the ASIC.

h) DIMMs (IC301, IC302, IC601, IC602, IC603, IC604)

The DIMM comprising a 512-MB DDR-SDRAM (IC301/IC302) and 256-MB SDR-SDRAM (IC601/IC602/IC603/IC604) is connected to the 32-bit data bus to

During print data reception, it is also used as an image buffer.

It cannot be expanded.

i) FLASH ROM (IC701/IC703)

Á 128-MB/64-MB flash ROM (IC701/IC703) is connected to the 8-bit data bus to store the printer control program.

j) EEPROM (IC802)

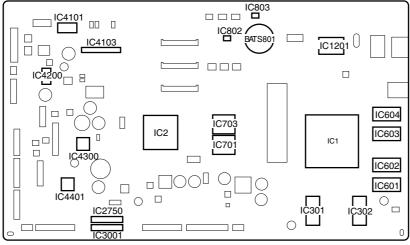
The 256-KB EEPROM stores various setting values, adjustment values, log data, counter values related to the user/servicing.

MEMO:

After replacement of the main controller PCB, the printer must be started up in the service mode to copy over the setting and adjustment values to the new PCB properly (the service mode will be switched to the PCB replacement mode automatically).

2.4.2.2 Main controller PCB components

iPF760 / iPF750



F-2-33

a) ASIC (IC1/IC2)

The ASIC (IC1/IC2) with a 32/16-bit internal bus is driven in sync with the 165/66 MHz external clock. It supports the following functions:

Image processing unit

This unit converts the RGB multi-value image data or CMYK multi-value data received from the host computer through the interface connector to the binary image data for the ink colors used

DMA controller

This controller control DMA transfer of the data transferred through the input interfaces as well as DMA transfer of the data stored in the DIMM.

Image data generation/output function

This function generates image data for color printing from the received image data and the mask pattern (corresponding to print mode) stored in the FLASH ROM, and stored the generated image data in DIMM. It also outputs the generated image data to the carriage PCB.

This controller receives and processes internal interrupts and external interrupts from the USB, image processing unit, and expansion card slot.

Timer function

Even when the printer is turned off, the timer function is held on using the RTC(IC803) and lithium battery(BATS801) to assist the cleaning function. When the power cord is plugged to the outlet, power is supplied to the RTC and therefore the lithium battery power is not consumed.

Heat Enable signal control function

This function uses the pulse width to perform variable control of the time of application of the Heat Enable signal to the nozzle heater board for each printhead nozzle array.

Linear scale count function

This function reads the linear scale when the carriage moves, thus generating the ink discharge timing. It also counts the linear scale timing cycle using the reference clock to measure the carriage moving speed.

Dot count function

This function controls the discharge dots used as the information for Heat Enable signal control, maintenance jet control, cleaning control, and remaining ink level for each nozzle array.

Operation panel control function

This function controls serial communication with the operation panel.

PWM control function

This function controls driving of the suction fan and mist fan as well as the temperature of the printhead.

Remaining ink level detection function

This function detects the remaining level of each color of ink based on the signal received from the hollow needle mounted in the ink tank unit.

LED control function

This function controls the LEDs on the ink tank unit.

I/O port function

This function controls input signals from sensors.

Power ON/OFF control function

This function controls turning on/off of the drive power (26 V and 21.5 V) supplied from the power supply PCB.

Head DI sensor read control function

This function controls read operation by the head DI sensor.

Multi sensor control function

This function controls the LED, adjusts the gain, and controls obtainment of the reading for the multi sensor.

EEPROM control function

This function controls the EEPROMs of individual ink tanks, the maintenance cartridge EEPROM, the EEPROM on the maintenance cartridge relay PCB, and the head EEPROM in addition to the on-board EEPROM.

Motor control function

This function controls the carriage motor, feed motor, valve motor (L)/(R), shutter motor, purge motor, lift motor, roll motor and cutter motor based on the input signals from sensors.

b) Driver IC (IC4101/4103)

This IC generates a carriage motor control signal based on the control signal from the ASIC.

c) Driver IC (IC4200)

This IC generates a feed motor control signal based on the control signal from the ASIC.

d) Driver IC (IC4300)

This IC generates purge motor and cutter motor control signals based on the control signal from the ASIC.

e) Driver IC (IC4401)

This IC generates roll motor and valve motor (L)/(R) control signals based on the control signal from the ASIC.

f) Driver IC (IC2750)

This IC generates a shutter motor control signal based on the control signal from the ASIC.

g) Driver IC (IC3001)

This IC generates a lift motor control signal based on the control signal from the ASIC.

h) DIMMs (IC301, IC302, IC601, IC602, IC603, IC604)

The DIMM comprising a 512-MB DDR-SDRAM (IC301/IC302) and 256-MB SDR-SDRAM (IC601/IC602/IC603/IC604) is connected to the 32-bit data bus to be used as a work area.

During print data reception, it is also used as an image buffer.

It cannot be expanded.

i) FLASH ROM (IC701/IC703)

A 128-MB/64-MB flash ROM (IC701/IC703) is connected to the 8-bit data bus to store the printer control program.

j) EEPROM (IC802)

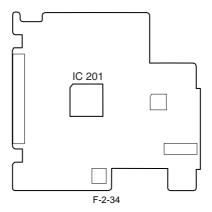
The 256-KB EEPROM stores various setting values, adjustment values, log data, counter values related to the user/servicing.

мемо:

After replacement of the main controller PCB, the printer must be started up in the service mode to copy over the setting and adjustment values to the new PCB properly (the service mode will be switched to the PCB replacement mode automatically).

2.4.2.3 HDD expansion PCB components

iPF765 / iPF755

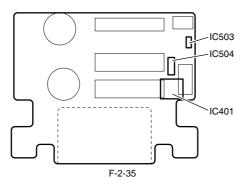


a) HDD controller IC (IC201) This controller control the hard disk drive.

2.4.3 Carriage Relay PCB

2.4.3.1 Carriage PCB components

iPF765 / iPF760 / iPF750 / iPF755



a) Latch ICs (IC401)

DI sensor reading control function

This function obtains the DI sensor value in the printhead and head rank for each color and sends it to the main controller PCB based on the control signals from the main controller.

Environmental temperature reading control

This function sends the environmental temperature detected by the thermistor on the board based t the main controller PCB based on the control signals from the main controller PCB.

Image data relay function

This function relays the image data from the main controller PCB to the printhead.

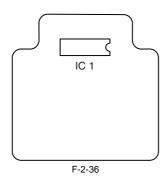
The function for processing image data is not supported.

b) Multi sensor control ICs (IC503 and IC504)
These ICs are used to generate the multi sensor LED control signal and adjust the gain.

2.4.4 Maintenance Cartridge Relay PCB

2.4.4.1 Maintenance cartridge relay PCB components

iPF765 / iPF760 / iPF750 / iPF755



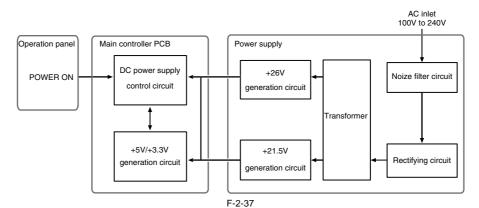
a) EEPROM (IC1)

The 256-KB EEPROM stores all information written to the EEPROM on the main controller PCB.

2.4.5 Power Supply

2.4.5.1 Power supply block diagram

iPF765 / iPF760 / iPF750 / iPF755



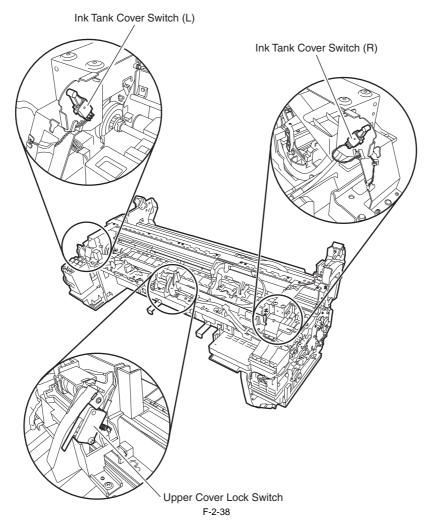
The power supply converts AC voltages ranging from 100 V to 240 V from the AC inlet to DC voltages for driving the ICs, motor, and others. The voltage generator circuits include the +26 V generation circuit for driving motors, fans, and sensors and a +21.5 V generator circuit for driving sensors, heads, logic circuits, and others.

When the power is turned off, +26 V and +21.5 V are reduced to about 12 V and 9 V respectively (power save mode). Power ON/OFF operation is controlled by the main controller PCB.

2.5 Detection Functions with Sensors

2.5.1 Covers

iPF765 / iPF760 / iPF750 / iPF755



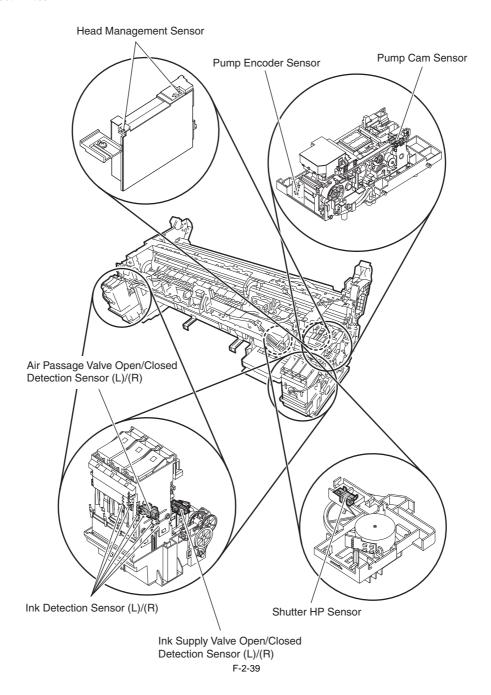
Upper cover lock switchThe microswitch-based upper cover lock switch detects the open/closed states of the upper cover.
When the upper cover close, the switch is pressed to detect the closed state of the upper cover.

Ink tank cover switch (L)/(R)

The microswitch-based ink tank cover switches detect the open/closed states of left and right ink tank cover. When an ink tank cover closes, the switch is pressed to detect the closed state of the ink tank cover.

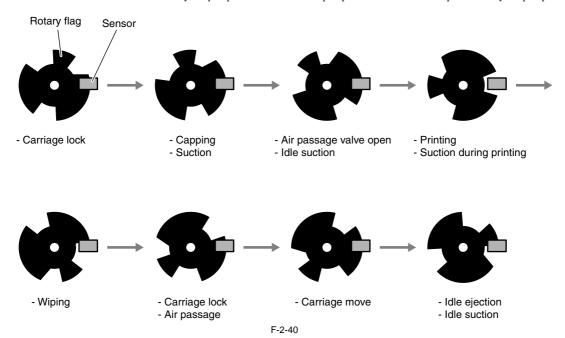
2.5.2 Ink passage system

iPF765 / iPF760 / iPF750 / iPF755



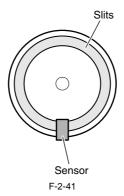
Pump cam sensor

The photo-interrupter-type pump cam sensor detects that the sensor light is shielded or unshielded by the rotary cam. The sensor detects the purge unit capping and wiping states with the combination of the state detected by the pump cam and the state of pump motor rotation control performed by the pump encoder.



Pump encoder sensor

The pump encoder is a photo-interruptive type sensor. It reads the slits on the pump motor's encoder film to control the amount of pump motor rotation.



Ink supply valve open/closed detection sensor (L)/(R)

The photo-interrupter-type ink supply valve open/closed detection sensor detect the valve cam state.

When the link that operates in conjunction with the ink supply valve cam shields light, this sensor detects that the ink supply valve has been opened.

Air passage valve open/closed detection sensor (L)/(R)

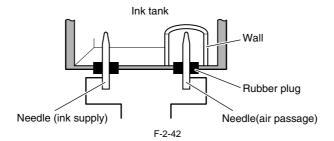
The photo-interrupter-type air passage valve open/closed detection sensor detect the valve cam state.

When the link that operates in conjunction with the subtank air passage valve cam shields light, this sensor detects that the subtank air passage valve has been opened.

Ink detection sensor (L)/(R)

Presence of absence of ink in the ink tank is detected according to whether the two hollow needles are electrically connected.

When the ink level in the ink tank lowers below the wall around the hollow needle at the air passage, this hollow needle is electrically disconnected form the hollow needle located on the ink supply side, thus detecting that the printer has run out of ink.



Shutter HP sensor

The photointerrupter-type sensor detects the presence of the cshutter at the home position.

Head management sensor

The photo-transmission-type sensor detects that the printhead is discharging ink.

The carriage moves to and stops at the detection positions for individual nozzle arrays. When the carriage is at a stop, nozzles discharge ink on after another. The sensor detects each nozzle due to the voltage change caused when ink discharged from the nozzle blocks the sensor light.

Non-discharging nozzle detection is carried out at the following timings:

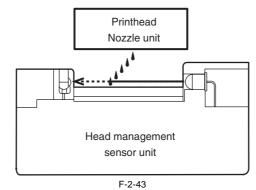
- After the execution of Cleaning 1, Cleaning 2, Cleaning 3, Cleaning 6 or Cleaning 10
- After the number of copies that has been set by the user menu choice Nozzle Check Frequency have been printed

If more than a specified number of non-discharging nozzles have been located in one session of non-discharging nozzle detection, the normal cleaning sequence is launched before a second session of non-discharging nozzle detection is conducted. If more than a specified number of non-discharging nozzles are located in the second session of non-discharging nozzle detection, the normal (High) cleaning session is launched before a third session of non-discharging nozzle detection is conducted

If there are at least 320 non-discharging nozzles out of 2560 nozzles as the result of non-discharging nozzle detection, printing is canceled after displaying a message to replace the head.

However, if service mode: [SERVICE MODE] > [SETTING] > [HEAD DOT INF] is [ON], the following message appears.

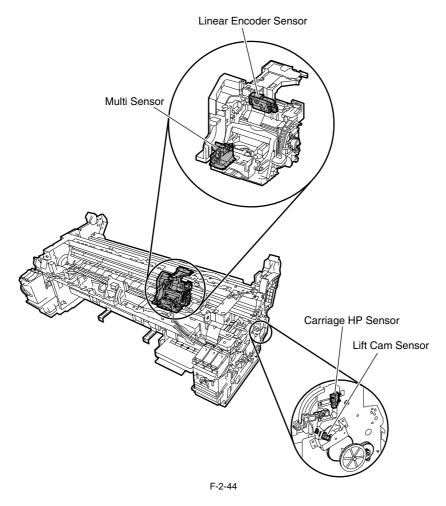
If there are at least 30 nozzles unable to correct the non-discharging state and the number of non-discharging nozzles is less than 100 out of 2,560 nozzles as the result of non-discharging nozzle detection, printing can continue after displaying a message to check the printing. Also, if the number of non-discharging nozzles is at least 100 but less than 320 nozzles, printing can continue after displaying a message to check the head. And if there are at least 320 non-discharging nozzles, printing is canceled after displaying a message to replace the head.



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2.5.3 Carriage system

iPF765 / iPF760 / iPF750 / iPF755



Carriage HP sensor

The photointerrupter-based carriage HP sensor detects the home position of the carriage.

Installed on the right side plate of the printer, the sensor detects an edge of the carriage home position on the carriage unit under carriage movement control. The printer establishes the carriage home position from the position at which its edge is detected as a reference position.

Linear encoder sensor

Mounted on the back of the carriage, the linear encoder detects the position of the carriage from a slit in the linear scale during its movement.

A photointerrupter-based sensor. After the sensor light is shielded by the flag, the lift motor is driven by a predetermined number of pulses to regulate the separation between the printheads and platen automatically.

Ambient temperature sensor

The thermostat-based ambient temperature sensor mounted on the carriage PCB detects the ambient temperature to which the carriage is exposed. The resistance of the thermistor that varies as a function of temperature changes in the printer is transmitted to the main controller via the carriage PCB. The ambient temperature is used to help calibrate the head temperature sensor and detect abnormal ambient temperatures.

Head temperature sensor

The head temperature sensor detects the temperature of the printhead.

The printhead temperature is transmitted to the main controller via the carriage PCB.

The printhead temperature is used to help control the head drive and detect abnormal printhead temperatures.

Printhead contact detection

The printhead contact detects the status of printhead installation by electrical means.

The contact detects the status of contact from voltage changes in the flexible cables on the carriage side that come into contact with two terminals of the printhead with remote contact surfaces, the power terminals and GND terminal.

Multi sensor

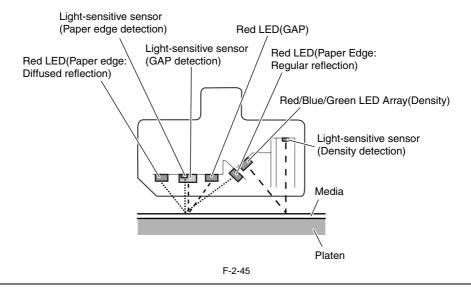
A photo reflective type multi sensor consists of three red LEDs, one red/blue/green LED array, and three light receiving sensors and is used for media end, skew, and width adjustment, registration adjustment, head height adjustment, and print position adjustment.

Media leading edge detection, head height (GAP) detection, and print density detection are performed by independent LED and sensor.

A clear film media detection (regular reflection) LED and a non-clear film media detection (diffused reflection) LED are used for end of media detection.

The head height is detected by receiving the reflection of red LED from the media with two sensors in a light receiving sensor and calculating the difference in measurements.

The print density is detected by receiving the reflection of red/blue/green LED array from the media and determining the density of the printed surface.

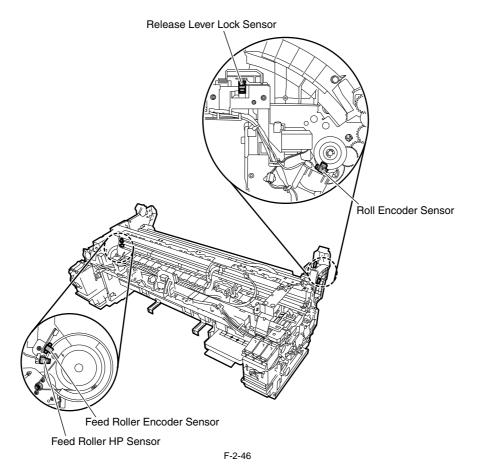




Service mode: After SERVICE MODE > ADJUST > GAP CALIB. has been carried out, pass paper to make sure that it is detected properly.

2.5.4 Paper path system

iPF765 / iPF760 / iPF750 / iPF755



Feed roller HP sensor

The feed roller HP sensor detects a reference white (transmitted) to black (shielded) transition from the encoder at power on and sets a home position for correcting the eccentricity of the feed roller.

Feed roller encoder sensor

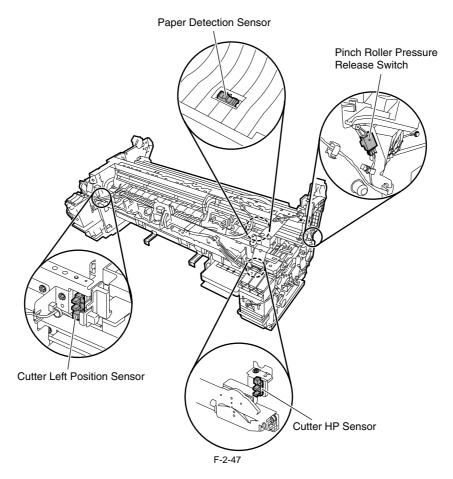
The feed roller encoder sensor detects the rate of paper transport per revolution of the feed roller from slits in the encoder during driving.

Release lever lock sensor

A photointerrupter type sensor. This sensor detects the release lever lock status when the release lever solenoid turns ON and the sensor flag shields the sensor light.

Roll encoder sensor

A photointerrupter type sensor. This sensor detects the rotation of the roll holder by reading the encoder film at the roll media drive unit.



Paper detection sensor

A photoreflective type sensor. When a media is fed from the manual feed unit and roll feed unit, this sensor detects the presence of media by receiving the light reflected from the media.

Cutter HP sensor

The photointerrupter-type sensor detects the presence of the cutter at the home (rightmost) position.

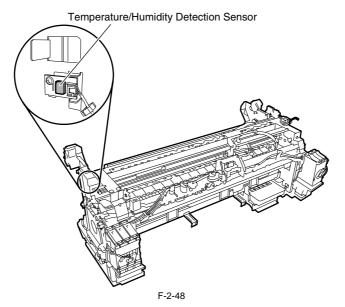
Cutter left position sensorThe photointerrupter-type sensor detects the presence of the cutter at the leftmost position.

Pinch roller pressure release switch

A micro switch type pinch roller pressure release switch detects the application/release of pinch roller pressure. The pinch roller pressure release switch is depressed when the media release lever is set and detects the pressure of the pinch roller.

2.5.5 Others

iPF765 / iPF760 / iPF750 / iPF755



Temperature/humidity detection sensor
The temperature/humidity detection sensor detects the temperature and relative humidity around the printer to implement head height adjustment, maintenance jet control, waste ink evaporation calculation and suction fan control on the basis of the temperature and relative humidity thus measured.

Chapter 3 INSTALLATION

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3.1 Transporting the Printer

3.1.1 Transporting the Printer

3.1.1.1 Transporting the Printer

iPF765 / iPF760 / iPF750 / iPF755

Do not remove the printhead once they are installed, as this may cause the nozzles to dry out or accumulate foreign matter. Also the head must be capped and stay in the carriage while transporting the printer. In spite of this precaution, shocks incurred during transportation can still damage the printhead. Print the "Nozzle Check" before moving the printer, print the "Nozzle Check" after installing in a new location, and compare the two printouts. If any deterioration is evident in the output quality, replace the printhead with new ones.

This subsection describes how to transport the printer.

When moving the printer to another place on the same floor of the building, move it slowly so that it does not receive any shocks. Follow the steps shown in "1. Moving the printer on the same floor

When moving it elsewhere, follow the steps shown in "2. How to transport the printer to a different floor".



Always hold the carrying handles at the bottom of the printer when lifting and moving the printer. Holding the printer by its cover can deform the cover. Moving or transport operations where the printer needs to be temporarily tilted or stood upright must be performed by service personnel.

1. Moving the printer on the same floor

- 1) Turn off the [Power] button, and check that the heads are capped and carriage is locked.
- 2) Remove the roll holder from the roll unit.
- 3) Remove the interface cable and power cord from the printer.
- 4) Unlock the casters on the stand.
- 5) Hold the printer carrying handle at the bottom, and then slowly move the printer.



- If the printer is subjected to strong vibrations when it is moved, it can cause ink leakage or damage to the printhead. Be sure to move the printer slowly and carefully
- Do not incline the printer during transportation. The internal ink may leak and the surrounding area may be stained.

2. How to transport the printer to a different floor

Follow the steps shown in a) When the printer is operating properly. When the printer is not operating properly due to breakdown or a power-supply problem, follow the steps shown in b) When the printer is not operating properly

a) When the printer is operating properly



To prevent the waste ink from leaking, drain the ink, and then remove the maintenance cartridge. Package the removed maintenance cartridge so that the waste ink does not leak from it.

- 1) Turn on the [Power] button on the printer.
- 2) Remove the roll holder from the roll unit.
- 3) Enter the Main menu, and then select "Set./Adj. Menu" > "Prep.MovePrinter". Follow the instructions in the messages, and remove all of the ink tanks. Put the removed ink tanks in the plastic bag with the ink supply part upward and close the opening.



- "Prep.MovePrinter" cannot be selected when "MTCart Full Soon" is displayed. In this case, replace the maintenance cartridge first.
- If the consumable parts counter is checked and a message to replace consumable parts appear, check the consumable parts counter from service mode and replace
- n the consumable parts counter is checked and a message to replace consumable parts appear, check the consumable parts counter from service mode and replace the necessary consumable parts. After replacing the consumable parts and resetting the counter of service mode, perform the steps again. Refer to "SERVICE MODE" > "Details of Servide Mode" > "PARTS CNT." and "MAINTENANCE" > "Consumable Parts" > "Consumable Parts".

 Never disconnect the power cord, or open the covers while the "Prep.MovePrinter" operation is in progress since this can cancel the operation. If the "Prep.MovePrinter" operation is canceled while in progress, the printer will remain in offline mode, and it will not switch to online mode. "Ink Filling" is performed when the power is turned back on after canceling so repeat "Prep.MovePrinter" from the beginning.

 The "Prep. MovePrinter" operation will drain about 38 of finit pare calca from the printer operation.
- The "Prep.MovePrinter" operation will drain about 38 g of ink per color from the printer to the maintenance cartridge.
- 4) Once the "Prep.MovePrinter" operation is completed, turn off the [Power] button.
- 5) Open the upper cover, check that the heads are capped and carriage is locked.
- 6) Close the upper cover.
- 7) Disconnect the interface cable and power cord from the printer.
- 8) Wait 15 minutes after "Prep Move Printer" and then remove the maintenance cartridge and package them so that used ink does not leak from them.



Check that used ink is no longer leaking after removing the maintenance cartridge. If it is leaking, install the maintenance cartridge and wait until leaking stops.

- 9) Attach the cushioning materials and tape.
- 10) If the printer is mounted on a stand, remove the printer from the stand.

11) Pack the printer into the packing box, and then put the roll media, ink tank and stand in another packing box for moving. Use the original packing material for the printer and stand. If it is not available, pack them with a sufficient amount of cushioning materials.

b) When the printer is not operating properly

- 1) Make sure that the printer is turned off.
- 2) Disconnect the interface cable and power cord from the printer.
 3) Remove the roll holder from the roll unit.

- 4) While referring to "DISASSEMBLY/REASSEMBLY" > "Draining the Ink" > "Manual Ink Drainage", drain the ink from the printer.
 5) While referring to "INSTALLATION" > "Transporting the Printer" > "Transporting the Printer" > "Manual Capping", perform the capping and lock of the car-
- 6) Remove the maintenance cartridge, and then package it so that the waste ink does not leak from it.

- 7) Attach all of the external covers.

- 8) Attach the cushioning materials and tape.
 9) If the printer is mounted on a stand, remove the printer from the stand.
 10) Pack the printer into the packing box, and then put the roll media, ink tank and stand in another packing box for moving.
 Use the original packing material for the printer and stand. If it is not available, pack them with a sufficient amount of cushioning materials.

When transporting the printer, cap the Printhead to protect the nozzles from drying out and to keep them clean. Follow the procedures described below:

- 1) While referring to "DISASSEMBLY/REASSEMBLY" > "Points to Note on Disassembly and Reassembly" > "Opening the Cap/Releasing the Carriage Lock Pin/Moving the Wiper Unit manually", open all of the caps.
 2) Move the carriage to the home position.
 3) While referring to "DISASSEMBLY/REASSEMBLY" > "Points to Note on Disassembly and Reassembly" > "Opening the Cap/Releasing the Carriage Lock Pin/Moving the Wiper Unit manually", perform the capping.



Manual capping is an emergency measure when the printer does not operate. Manual capping can damage the printhead.

3.1.2 Reinstalling the Printer

3.1.2.1 Reinstalling the Printer

iPF765 / iPF760 / iPF750 / iPF755

1. Installing the printer on the same floor
If ink has not been drained from the printer when moving it to another place on the same floor, then an operation check (Test Print) needs to be performed after the printer is moved to a new location.

2. Installing the printer on a different floor
If ink has been drained when transporting the printer to a different floor, follow the installation procedure below. It is nearly identical to the procedure when installing for the first time.

- Unpack the printer.
 Remove the cushioning materials and tape.

- Reattach the maintenance cartridge.
 Connect the power cord and interface cable.
 Turn on the power and following the instruction in the message to install the ink tank. The ink is filled.
 After the ink has been filled, load the media, and perform the operation check.

Chapter 4 DISASSEMBLY/REASSEMBLY

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4.1 Service Parts

4.1.1 Service Parts

iPF765 / iPF760 / iPF750 / iPF755

The service parts indicated below require careful handling.

1. Keep all packages with the warning not to turn over.
Pay careful attention to all individually packaged service part (carriage unit, purge unit, ink tank unit, and other parts) boxes marked "This side up" and handle appropriately.





F-4-1

2. Feed roller
The feed roller is a functionally important part. Therefore, be careful that the roller is not scratched or marked during storage or transport of the service parts, when removing them from the individual boxes, when assembling, or performing any other

4.2 Disassembly/Reassembly

4.2.1 Disassembly/Reassembly

iPF765 / iPF760 / iPF750 / iPF755

For the procedure for disassembly/reassembly of the components excluding the major components, refer to the parts catalog. Illustrations in the parts catalog are assigned illustration numbers according to the order in which parts are disassembled.

4.3 Points to Note on Disassembly and Reassembly

4.3.1 Note: Items that should never be disassembled

iPF765 / iPF760 / iPF750 / iPF755



Assemblies that should never be removed after initial factory adjustments, are indicated by the presence of red screws.

Under no circumstance should these red screws be loosened or removed. Removing these screws will render the printer out of alignment forever.





F-4-2

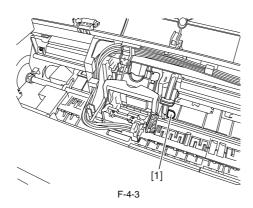
4.3.2 Moving the carriage manually

iPF765 / iPF760 / iPF750 / iPF755

Hold the handle [1] when moving the carriage.



Move the carriage as required during assembly and disassembly to prevent the carriage from contacting the parts to be removed. You cannot move the carriage when capping has been performed. Refer to DISASSEMBLY/REASSEMBLY > Points to Notes on Disassembly and Reassembly > Opening the caps and moving the wiper unit to remove the caps, and then move the carriage.



4.3.3 Units requiring draining of ink

iPF765 / iPF760 / iPF750 / iPF755

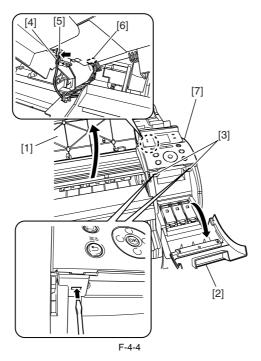
When disassembling the following units, drain the ink completely, to prevent ink leakage. For ink drain instructions, refer to **DISASSEMBLY/REASSEMBLY > Points to Notes on Disassembly and Reassembly > Draining the ink.**

[1] Carriage unit
Refer to DISASSEMBLY/REASSEMBLY > Points to Notes on Disassembly and Reassembly > Carriage unit.
[2] Ink tube unit
Refer to DISASSEMBLY/REASSEMBLY > Points to Notes on Disassembly and Reassembly > Ink tube unit.
[3] Ink tank unit
Refer to DISASSEMBLY/REASSEMBLY > Points to Notes on Disassembly and Reassembly > Ink tank unit.

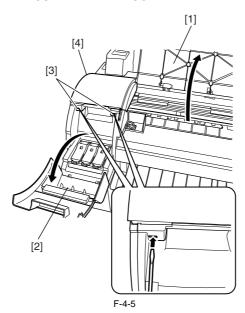
4.3.4 External Covers

iPF765 / iPF760 / iPF750 / iPF755

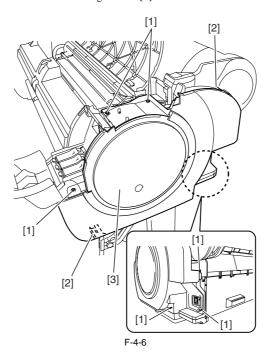
- a) Operation Panel
 Removing the Operation Panel
 1) To remove the operation panel, open the upper cover [1] and right tank cover [2], and then release two hooks [3] using a flat head screwdriver.
 2) Remove the cable from the cable guide, and then remove the ground wire [5] by pushing the hook [4] from the backside of the operation unit and disconnect the connector [6], and then remove the operation panel [7].



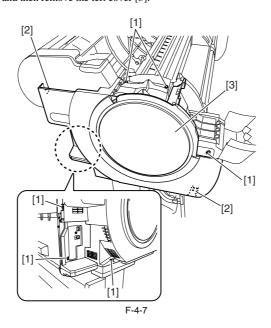
b) Upper Left Cover
Removing the Upper Left Cover
1) To remove the upper left cover [4], open the upper cover [1] and left tank cover [2], and then release two hooks [3] using a flat head screwdriver.



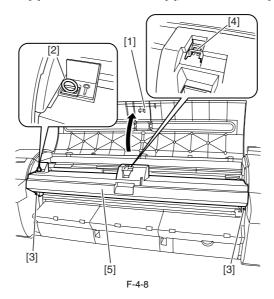
c) Right Cover
Removing the Right Cover
1) To remove the right cover, remove the operation panel.
2) Remove six screws [1], release two hooks [2], and then remove the right cover [3].



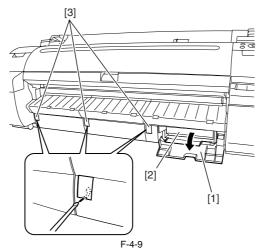
d) Left Cover
Removing the Left Cover
1) To remove the left, remove the upper left cover.
2) Remove six screws [1], release two hooks [2], and then remove the left cover [3].



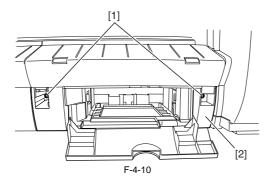
e) Front Cover
Removing the Front Cover
1) To remove the front cover [5], open the upper cover [1] to remove the cleaner brush [2], remove two screws [3], and then release one hook [4].



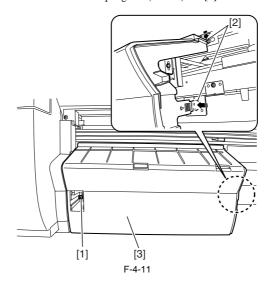
f) Output Guide
Removing the Output Guide
1) To remove the output guide, open the maintenance cartridge cover [1] to remove the maintenance cartridge [2], and then remove the blanking cover [3] by inserting a flat blade screwdriver in the slit.



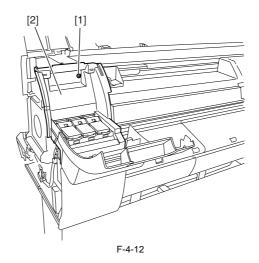
2) Remove two screws [1], and then the output guide (right) [2].



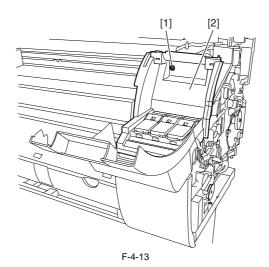
3) Remove one screw [1], release two hooks [2], and then remove the output guide (middle)/left [3].



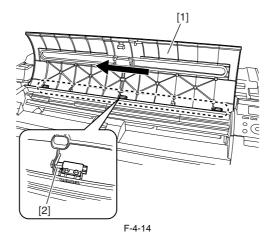
g) Left/Right Ink Tank Cover
Removing the Left/Right Ink Tank Cover
1) To remove the left/right ink tank cover [2], remove the left/right cover, and then one screw [1].
<Left Ink Tank Cover>



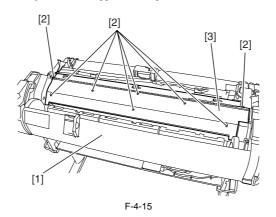
<Right Ink Tank Cover>



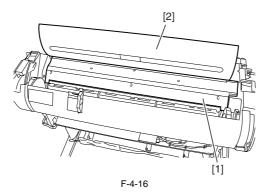
h) Upper Cover
Removing the Upper Cover
1) To remove the upper cover [1], remove the upper left cover, and then slide the upper cover [1] to the left to remove it from the hinge [2].



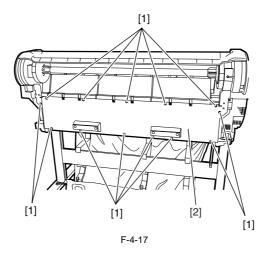
i) Rear Upper Cover
Removing the Rear Upper Cover
1) To remove the rear upper cover [3], remove the left/right cover and upper cover, open the roll cover [1], and then remove eight screws [2].



MEMO:
The rear upper cover [1] and upper cover [2] can be removed together.



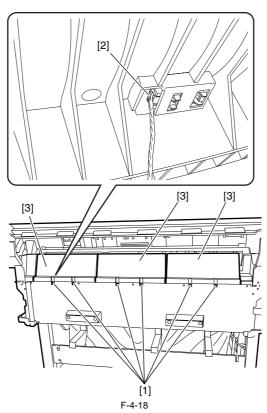
j) Rear Cover Removing the Rear Cover 1) To remove the rear cover [2], remove 13 screws [1].



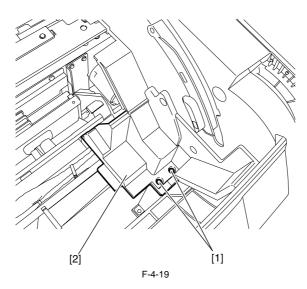
k) Roll Feed Unit Removing the Roll Feed Unit

MEMO: Open/close the roll cover as needed.

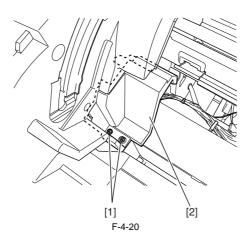
1) To remove the roll feed unit, remove the roll holder, and then remove the rear upper cover. 2) Remove six screws [1] and one connector [2], and then the feed guide [3].



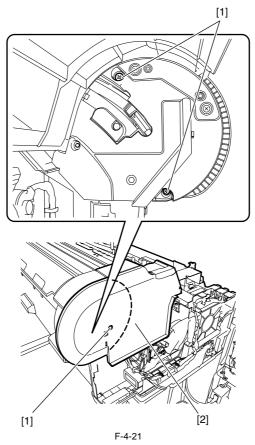
3) Remove four screws [1], and then the left and right roll lower inner covers [2]. <Left roll lower inner cover >



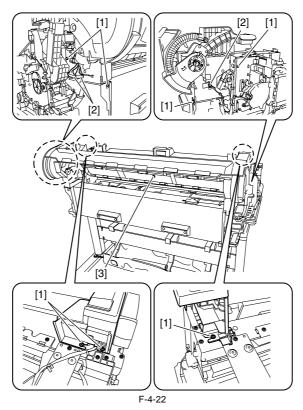
<Right roll lower inner cover>



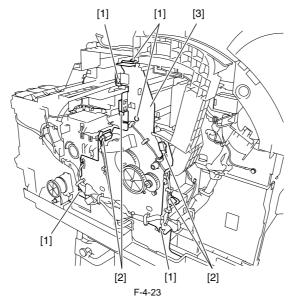
4) Remove three screws [1], and then remove the left roll cover [2].



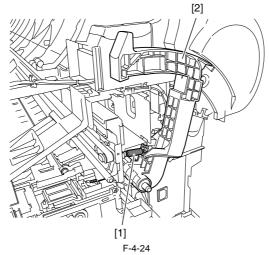
5) Remove seven screws [1] and three connectors [2], and then remove the cable from the cable guide to remove the roll feed unit [3].



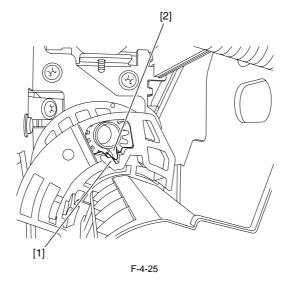
l) Release Lever
Removing the Release Lever
1) To remove the release lever, remove five screws [1] and four connectors [2], and then remove the cable from the cable guide to remove the right side plate unit [3].



2) Remove one spring [1], and then the release lever [2]. Keep the pinch roller pressurized to enable phase adjustment at the time of release lever reinstallation.



Precautions about Reinstallation of Release Lever When reinstalling the release lever, align the notch [1] on the gear portion of the release lever with the protrusion [2] on the gear portion of the pinch roller.



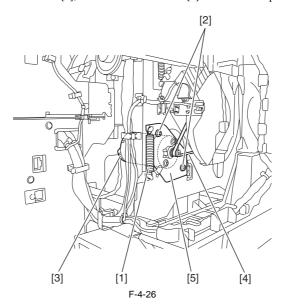
4.3.5 Drive Unit

iPF765 / iPF760 / iPF750 / iPF755

a) Feed Motor

Removing the Feed Motor 1) Remove the left cover.

- 2) Remove one spring [1], two screws [2], and one connector [3], and then remove the belt [4] from the motor pulley to remove the feed motor [5].



Precautions about Reinstallation of Feed Motor

Put the timing belt [4] on the pulley in the feed motor drive unit, tighten the screw [2] temporarily, install the spring [1], and then tighten the screw [2] to secure the feed motor [5].

b) Action to take after replacing the feed roller encoder and feed roller

This printer as shipped has the feed roller eccentricity (that is, variations in the rate of paper feed from rotation to rotation) corrected for enhanced media feed accuracy. When the feed roller HP sensor or feed roller encoder and feed roller pertaining to the correction of eccentricity variations has been replaced, therefore, they should require adjustment.

Execute service mode under the following conditions to launch automatic adjustment: Service mode: SERVICE MODE > ADJUST > PRINT PATTERN > LF TUNING

Media type: Glossy photo paper

If adjustment cannot be done properly by selecting "SERVICE MODE > ADJUST > PRINT PATTERN > LF TUNING" (auto adjustment), carry out manual ad-

Service mode: SERVICE MODE > ADJUST > PRINT PATTERN > LF TUNING2

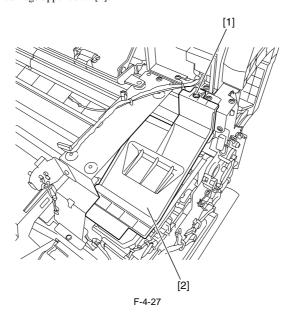
Media type: Gloss photo paper

Check the printed pattern and enter values for adjustment.

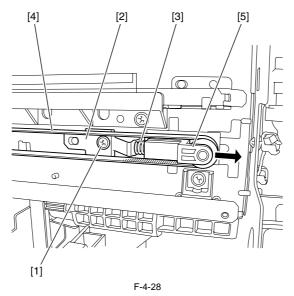
c) Carriage Motor

- Removing the Carriage Motor

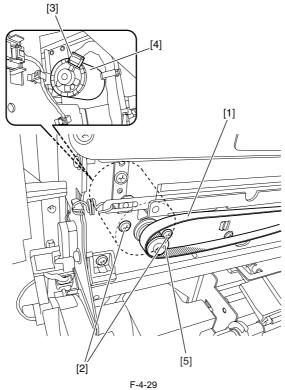
 1) Move the carriage onto the platen. Refer to "Disassembly/Reassembly > Points to Note on Disassembly and Reassembly > Opening the Cap/Moving the Wiper Unit".
- 2) Remove the left/right cover.
- 3) Remove one screw [1], and then remove the carriage upper cover [2].



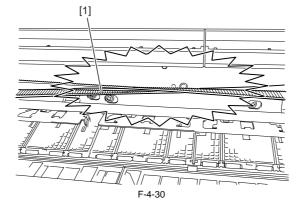
4) Remove one screw [1], pulley retainer [2] and spring [3] to loosen the carriage belt [4]. Remove the belt from the pulley unit [5], and then the pulley unit [5].



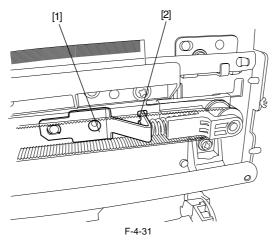
5) Remove the belt [1] from the pulley [5], and then remove two screws [2] and disconnect one connector [3] to remove the carriage motor [4].



Precautions about Reinstallation of Carriage Motor
- Reinstall the carriage belt [1] carefully so that it is not twisted. After reinstalling it, check whether the carriage moves on the platen smoothly.



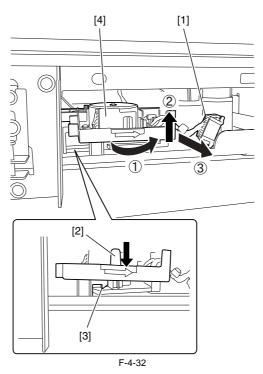
- Reinstall the pulley retainer [1] in such a manner that it fits in the notch [2] on the side plate.



d) Action to take after removing or replacing the carriage motor

After the carriage and carriage motor and carriage belt and linear encoder sensor has been removed or replaced, execute the following service mode. Service mode: SERVICE MODE > ADJUST > CR MOTOR COG

e) Shutter Motor
Removing the Shutter Motor
1) Remove the output guide (right).
2) Disconnect one connector [1]. While releasing the hook [3] by pressing the protrusion [2], turn the shutter motor unit [4] slightly in the clockwise direction. Remove the shutter motor unit [4] with it lifted.

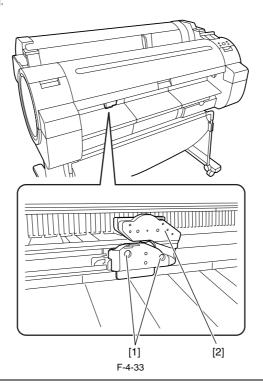


4.3.6 Cutter

iPF765 / iPF760 / iPF750 / iPF755

a) Cutter

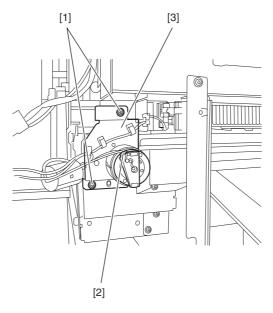
- Removing the Cutter
 1) Perform service mode: [SERVICE MODE] > [REPLACE] > [CUTTER] and then choose [YES] to move the cutter to the replacement place.
- 2) Remove two screws [1] to remove the cutter [2].



MEMO:

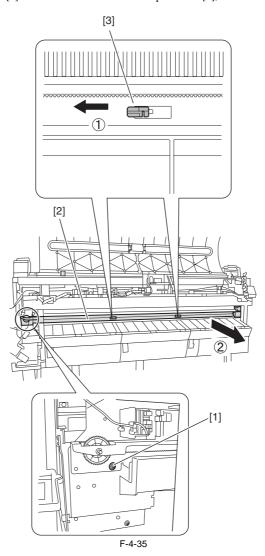
After replacing the cutter, choose [CLR COUNTER CT-1] > [YES] that displayed on the LCD to initialize the parts counter information. Then, the cutter moves to home position automatically.

- Removing the Cutter Rail Unit
 1) Drain ink. Refer to "Draining Ink" in "Precautions about Disassembly/Reassembly" in "Disassembly/Reassembly".
 2) To remove the cutter rail unit, remove the left ink tank cover, mist fan, and left ink tank unit.
 3) Remove two screws [1] and disconnect one connector [2], and then remove the cutter unit [3].



F-4-34

4) Remove one screw [1], move the cutter rail unit [2] to the left to release it from the protrusion [3], and then remove it rightward.



4.3.7 Carriage Unit

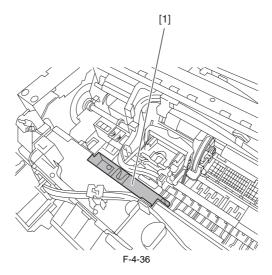
iPF765 / iPF760 / iPF750 / iPF755

a) Carriage Unit

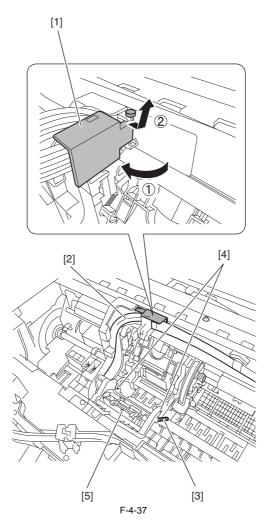
- Removing the Carriage Unit

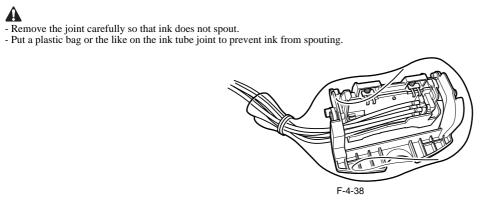
 1) Drain ink. Refer to "Draining Ink" in "Precautions about Disassembly/Reassembly" in "Disassembly/Reassembly".
- 2) Remove the rear upper cover, front cover, and rear cover.

 3) Turn off the power, and then move the carriage to the position where there is a notch [1] at the front of the platen as shown in the figure. Refer to "Disassembly > Points to Note on Disassembly and Reassembly > Opening the Cap/Moving the Wiper Unit".

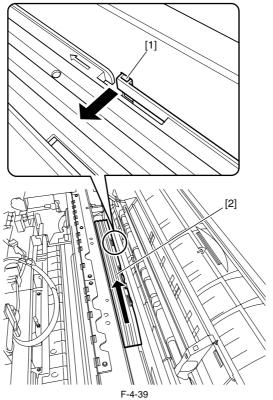


4) Remove the printhead.
5) Open the tube guide [1] an angle of 90 degrees frontward, and then remove the tube guide [1] together with the ink tube from the carriage.
Remove the ink tube [2] from the carriage guide, and then remove one spring [3] and two hooks [4] to remove the joint base [5] together with the printhead fixer lever.

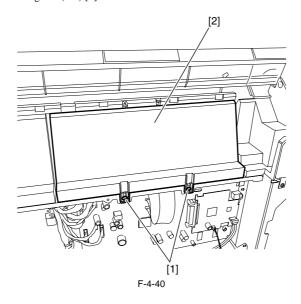




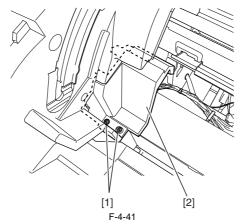
- 6) Move the carriage to the HP side on the platen.
 7) Release the hook [1], and then remove the flexible cable guide [2] by sliding it to the left.



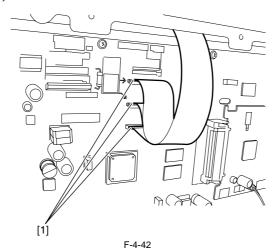
8) Remove two screws [1], and then remove the feed guide (left) [2].



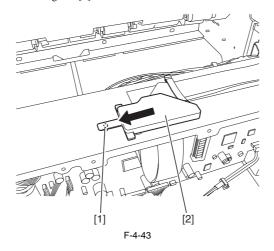
9) Remove two screws [1], and then remove the left roll lower inner cover [2].



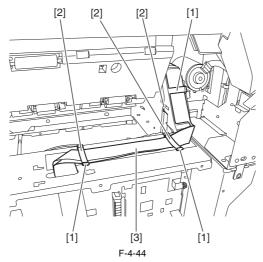
10) Disconnect three flexible cable connectors [1] from the main controller PCB.



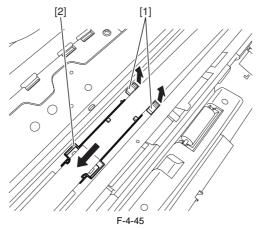
11) Release the hook [1], and then remove the flexible cable guide [2].



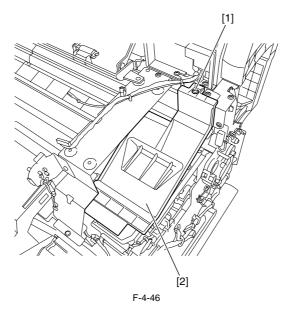
12) Release three hooks [1], and then remove the flexible cable [3] from the flexible cable retainer [2].



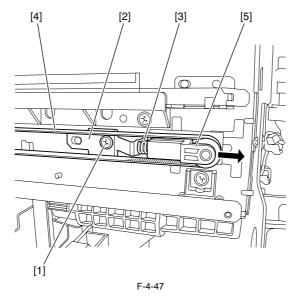
13) While releasing the hook with the guide [1] lifted, slide the flexible cable retainer [2] to remove it.



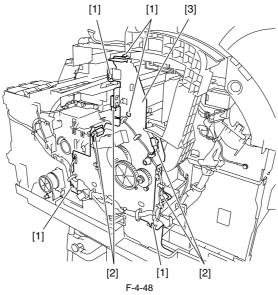
14) Remove one screw [1], and then remove the carriage upper cover [2].



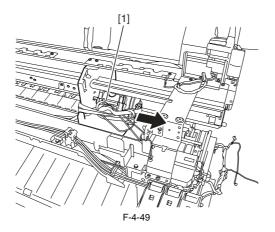
15) Remove one screw [1], the pulley retainer [2], and spring [3] to loosen the carriage belt [4]. Remove the belt [4] from the pulley unit [5], and then remove the pulley unit [5].



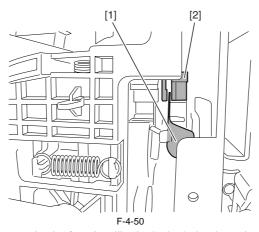
16) Remove the carriage belt from the carriage motor pulley.
17) Remove five screws [1] and disconnect four connectors [2], and then remove the cable from the cable guide to remove the right side plate unit [3].



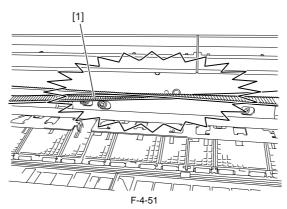
18) Remove the carriage unit [1] from the right side of the printer.



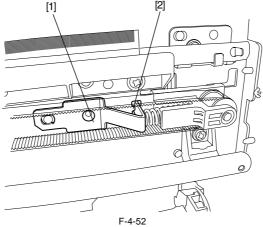
Precautions about Reinstallation of Carriage Unit
- Make sure that the linear scale [1] is in the detection zone of the linear encoder sensor [2].



- Reinstall the carriage belt [1] carefully so that it is not twisted. After reinstalling it, check whether the carriage moves on the platen smoothly.

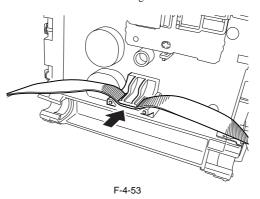


- Reinstall the pulley retainer [1] in such a manner that it fits in the notch [2] on the side plate.



- The phase of the carriage height adjuster is automatically adjusted as the motor turns, requiring no on-site adjustment.

Precautions about Reinstallation of Carriage Belt
- When reinstalling the carriage belt, push it deeply into the belt holder of the carriage.



b) Action following the replacement of the carriage unit/multi sensor

Because the distance between the multi sensor (in the carriage unit) and the nozzles (in the printhead) is varied from one unit to another, the printer as shipped has its optical axis corrected to adjust the image write position. When the carriage unit or multisensor has been replaced or disassembled and reassembled, they require adjustment.

Execute service mode under the following conditions:

- * The multi sensor reference plate(QL2-3160: MOUNT, MULTI SENSOR REFERENCE) must be replaced at the same time whenever the carriage or the multi sensor is being replaced.
- Service mode : SERVICE MODE > ADJUST > GAP CALIB.
- Service mode : SERVICE MODE > ADJUST > PRINT PATTERN > OPTICAL AXIS Media type : Photo glossy paper Media size : Media having a width equal toor larger then that of A2-size paper

- After the carriage unit or carriage motor or carriage belt or linear encoder sensor have been removed or replaced, execute the following service mode. Service mode: SERVICE MODE > ADJUST > CR MOTOR COG

c) Precautions against handling the carriage shaft



The carriage shaft is functionally important part. Therefore, be sure to note the following points.

- Do not touch the shaft.

- Do not allow the shaft to get scratched or marked.

- Do not apply the grease to the shaft.

4.3.8 Purge Unit

iPF765 / iPF760

a) Purge Unit

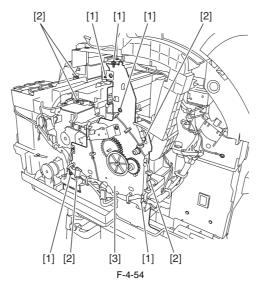
- a) Purge Unit

 Removing the Purge Unit

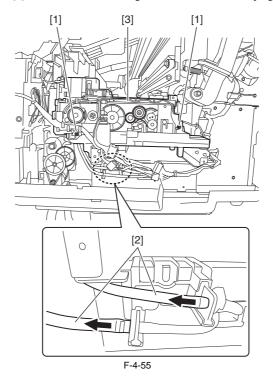
 1) Turn off the power, and then move the carriage onto the platen. Refer to "Disassembly/Reassembly > Points to Note on Disassembly and Reassembly > Opening the Cap/Moving the Wiper Unit".

 2) Remove the right cover.

 3) Remove five screws [1] and disconnect five connectors [2], and then remove the cable from the cable guide to remove the right side plate unit [3].



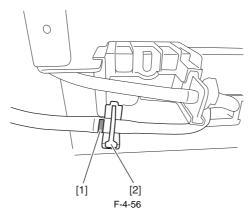
4) Remove two screws [1] and two waste ink tubes [2], the cable from the cable guide, and then remove the purge unit [3].



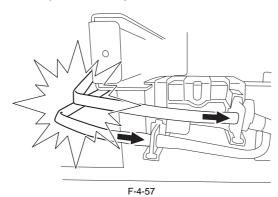


Remove the waste ink tubes carefully so that ink does not spout.

Precautions about Reinstallation of Purge Unit - When installing the waste ink tubes, attach the tube that painted the white mark to the near edge (i.e.; the length of the tube is the shorter) to the left joint.



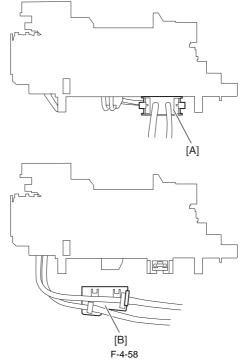
- When installing the waste ink tubes, attach the tubes surely until end of the joint. And check that the tubes are not buckled.



4.3.9 Purge Unit

iPF750 / iPF755

a) Purge Unit According to the shape of the joint that shown in the following figure, refer to each procedure.

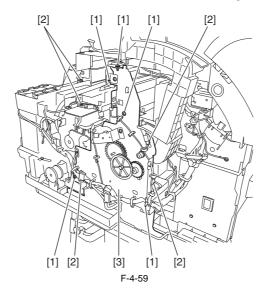


Removing the Purge Unit (when the joint [A] has been attached.)

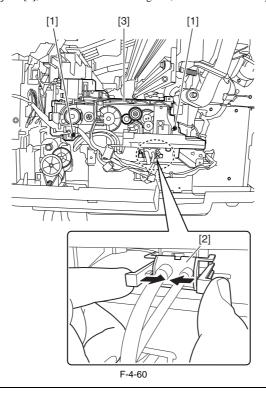
1) Turn off the power, and then move the carriage onto the platen. Refer to "Disassembly/Reassembly > Points to Note on Disassembly and Reassembly > Opening the Cap/Moving the Wiper Unit".

2) Remove the right cover.

3) Remove five screws [1] and disconnect five connectors [2], and then remove the cable from the cable guide to remove the right side plate unit [3].



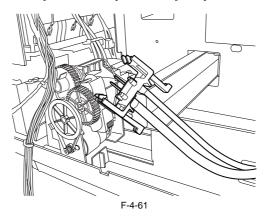
4) Remove two screws [1] and the waste ink tube joint [2], the cable from the cable guide, and then remove the purge unit [3].





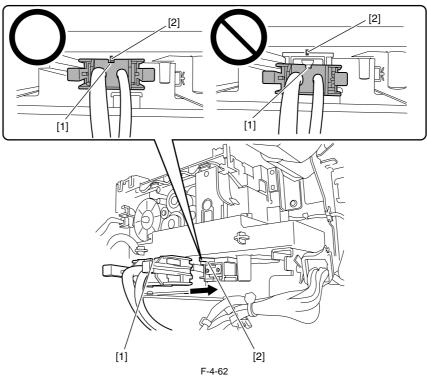
- Remove the waste ink tube joint carefully so that ink does not spout.

 To prevent ink from dripping off, hang the waste ink tube joint on the side plate with the joint up. Take extra care not to damage the ink tube.

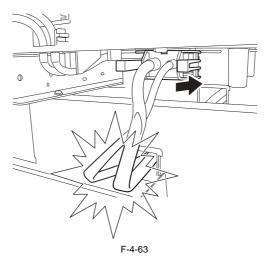


Precautions about Reinstallation of Purge Unit (when the joint [A] has been attached.)

- When installing the waste ink tube joint, match the notch [1] with rib [2]. After installing the waste ink tube joint, check that the rubber at the joint is hidden and the notch and rib are correctly positioned.



- Check that the joint is not disconnected and the tube is not buckled.

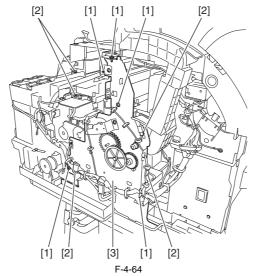


- Removing the Purge Unit (when the joint [B] has been attached.)

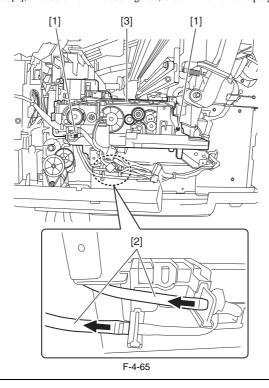
 1) Turn off the power, and then move the carriage onto the platen. Refer to "Disassembly/Reassembly > Points to Note on Disassembly and Reassembly > Opening the Cap/Moving the Wiper Unit".

 2) Remove the right cover.

 3) Remove five screws [1] and disconnect five connectors [2], and then remove the cable from the cable guide to remove the right side plate unit [3].



4) Remove two screws [1] and two waste ink tubes [2], the cable from the cable guide, and then remove the purge unit [3].

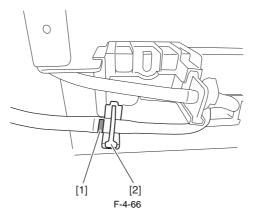




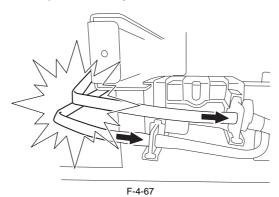
Remove the waste ink tubes carefully so that ink does not spout.

Precautions about Reinstallation of Purge Unit (when the joint [B] has been attached.)

- When installing the waste ink tubes, attach the tube that painted the white mark to the near edge (i.e.; the length of the tube is the shorter) to the left joint.



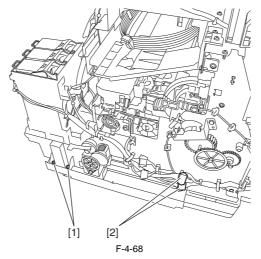
- When installing the waste ink tubes, attach the tubes surely until end of the joint. And check that the tubes are not buckled.

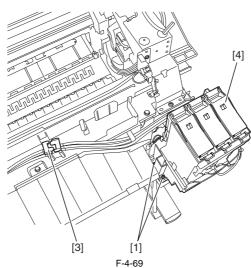


4.3.10 Ink Tank Unit

iPF765 / iPF760 / iPF750 / iPF755

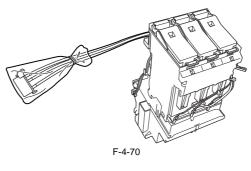
- a) Ink Tank Unit
 Removing the Right Ink Tank Unit
 1) Perform ink drainage. Refer to "Disassembly/Reassembly > Points to Note on Disassembly and Reassembly > Draining the ink".
 2) Remove the right cover, right ink tank cover, and front cover.
 3) Remove four screws [1] and disconnect two connectors [2], and then remove the cable guide.
 4) Remove the joint [3] between the ink tube unit and ink tank unit carefully, the ink tube from the guide, and then remove the right ink tank unit [4].

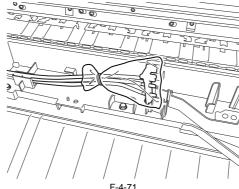






- Remove the joint carefully so that ink does not spout.
 Put a plastic bag or the like on the ink tube joint to prevent ink from spouting.





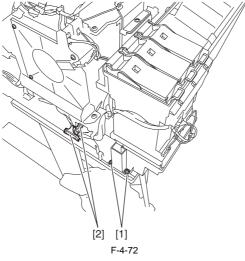
- Removing the Left Ink Tank Unit

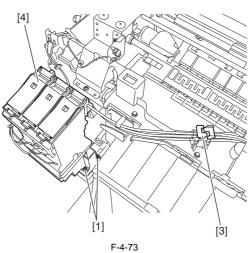
 1) Perform ink drainage. Refer to "Disassembly/Reassembly > Points to Note on Disassembly and Reassembly > Draining the ink".

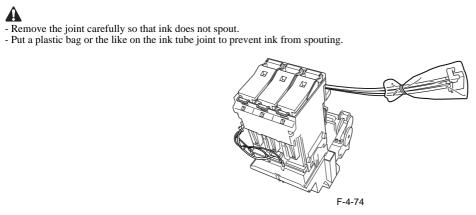
 2) Remove the left cover, left ink tank cover, and front cover.

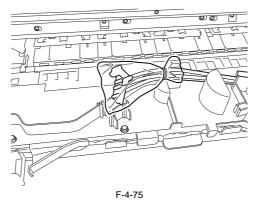
 3) Remove four screws [1] and disconnect two connectors [2], and then remove the cable from the cable guide.

 4) Remove the joint [3] between the ink tube unit and ink tank unit carefully, the ink tube from the guide, and then remove the left ink tank unit [4].

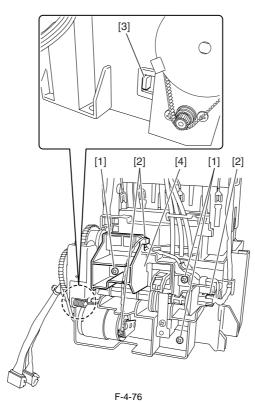








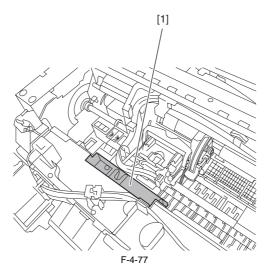
- b) Valve Motor Unit
 Removing the Valve Motor Unit
 1) Remove the ink tank unit.
 2) Remove three screws [1] and disconnect three connectors [2], and then remove the cable from the cable guide to remove the valve unit [4] while pressing down the protrusion [3].



4.3.11 Ink Tube Unit

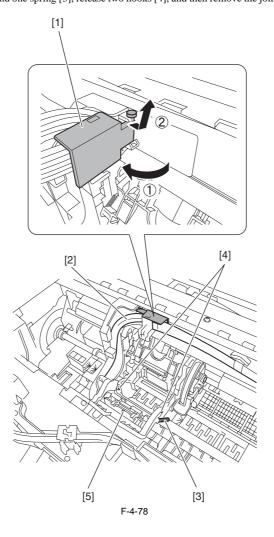
iPF765 / iPF760 / iPF750 / iPF755

a) Ink Tube Unit
Removing the Ink Tube Unit
1) Perform ink drainage. Refer to "Disassembly/Reassembly > Points to Note on Disassembly and Reassembly > Draining the ink".
2) Turn off the power, and then move the carriage to the position where there is a notch [1] at the front of the platen as shown below. Refer to "Disassembly/Reassembly > Points to Note on Disassembly and Reassembly > Opening the Cap/Moving the Wiper Unit".



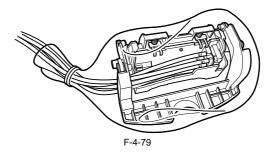
3) Remove the printhead.
4) Open the tube guide [1] an angle of 90 degrees frontward, and then remove the tube guide [1] together with the ink tube.

Remove the ink tube [2] from the carriage guide and one spring [3], release two hooks [4], and then remove the joint base [5] together with the printhead fixer lever.

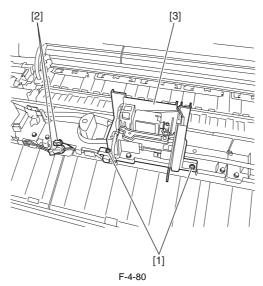




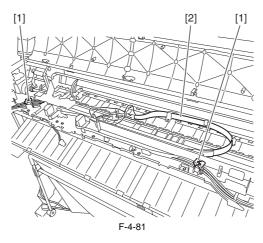
Put a plastic bag or the like on the ink tube joint to prevent ink from spouting.



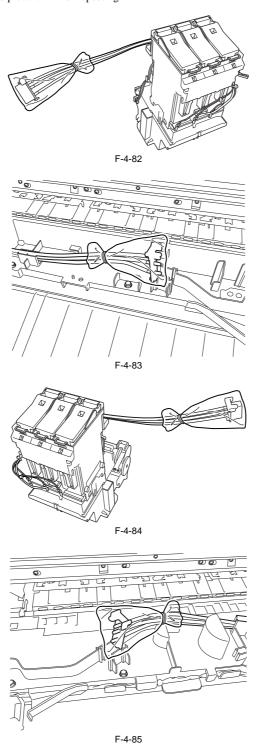
5) Remove two screws [1] and disconnect two connectors [2], and then remove the solenoid base [3].



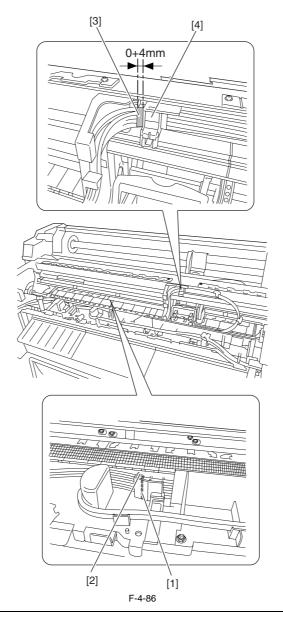
6) Remove the joint [1] between the ink tube unit [2] and ink tank unit carefully, and then remove the ink tube unit [2] from the guide.



- Remove the joint carefully so that ink does not spout.
 Put a plastic bag or the like on the ink tube joint to prevent ink from spouting.



- Precautions about Reinstallation of Ink Tube Unit
 Insert the ink tube and joint deeply into the guide.
 When installing the ink tube unit, align marking [1] on the ink tube unit to the right end of guide [2] and the left end of tape [3] to within 4mm from the left end of tube guide [4].





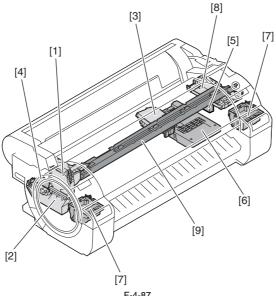
After detaching the joint of the ink tube unit, the joint might become easy to come off by the ink that has adhered to it. In that case, please wash the joint by alcohol and remove the adhering ink.

4.3.12 Waste Ink Collection Unit

iPF765 / iPF760 / iPF750 / iPF755

When disassembling the waste ink collection unit, pay attention to the ink leaking from the disassembled parts. Put the parts of the disassembled waste ink collection unit in a plastic bag or the like with care given to the ink leaking from the portion [A] enclosed in a circle.

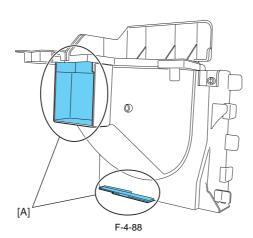
The service parts packing box may include a plastic bag for packing replacement parts. Use it for putting consumable parts of the waste ink collection unit.



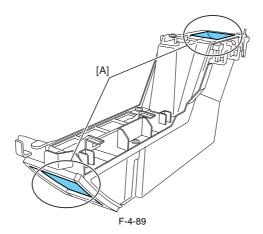
F-4-87

No	Name	Q'ty	Part number	Consumables	Service Mode (PARTS xx)
[1]	Mist Fan	1	QM3-5854	Yes	Mi-1
[2]	Mist Exhaust Duct	1	QM3-5853	Yes	Mi-1
[3]	Platen Suction Fan	1	QM3-5905		
[4]	Platen Exhaust Duct	1	QM3-5805	Yes	WF-2
[5]	Head Management Sensor	1	QM3-5956	Yes	HMa-1
[6]	Maintenance Cartridge	1	-		
[7]	Ink Tank Unit Waste Ink Tray	1	-		
[8]	Purge Unit Waste Ink Tray	1	-		
[9]	Front Duct	1	-		

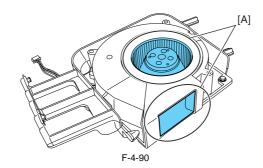
[1] Mist Fan



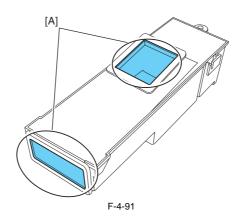
[2] Mist Exhaust Duct



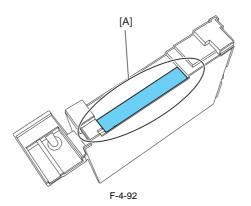
[3] Platen Suction Fan



[4] Platen Exhaust Duct



[5] Head Management Sensor

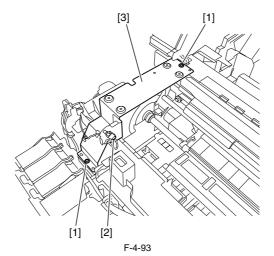


a) Mist Fan

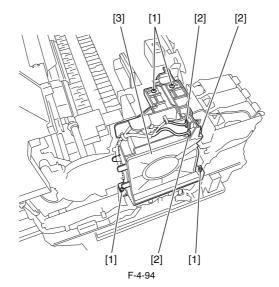
- Removing the Mist Fan

 1) Remove the rear upper cover and front cover.

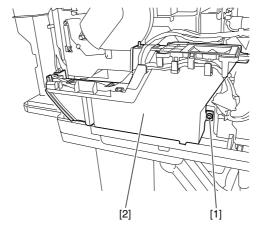
 2) Remove two screws [1] and disconnect two connectors [2], and then remove the cable from the cable guide to remove the support plate [3].



3) Remove four screws [1] and disconnect three connectors [2], and then remove the cable from the cable guide to remove the mist fan [3].

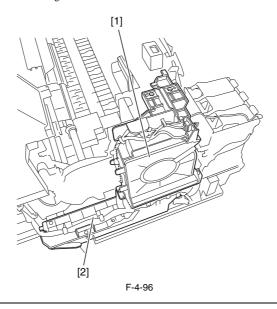


- b) Mist Exhaust Duct
 Removing the Mist Exhaust Duct
 1) Remove the mist fan.
 2) Remove one screw [1], and then remove the cable from the cable guide to remove the mist exhaust duct [2].

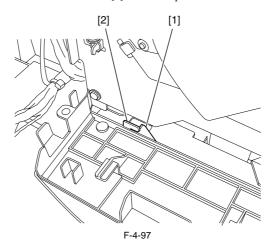


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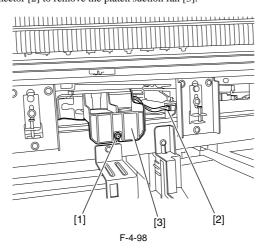
MEMO:
The mist fan [1] and mist exhaust duct [2] can be removed together.



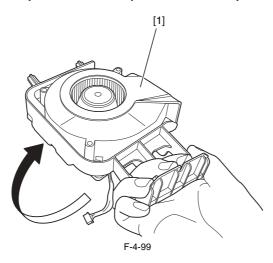
Precautions about Reinstallation of Mist Exhaust Duct Make sure that the protrusion [1] on the mist exhaust duct fits in the notch [2] on the side plate.



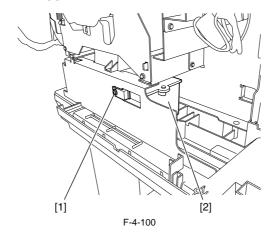
- c) Platen Suction Fan
 Removing the Platen Suction Fan
 1) Remove the output guide (right)/(middle).
 2) Remove one screw [1] and disconnect one connector [2] to remove the platen suction fan [3].



3) After drawing out the platen suction fan [1], turn it up side down immediately so that ink does not drip off.



- d) Platen Exhaust Duct
 Removing the Platen Exhaust Duct
 1) Remove the mist exhaust duct and left ink tank unit.
 2) Remove one screw [1], and then the platen exhaust duct [2].

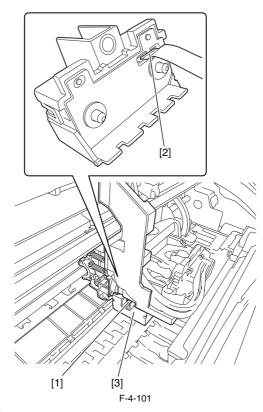


4.3.13 Multi Sensor

iPF765 / iPF760 / iPF750 / iPF755

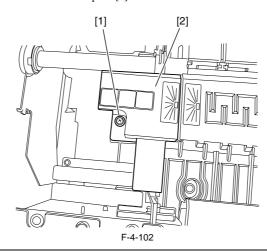
a) Removing the Multi Sensor

- 1) Turn off the power, and then move the carriage onto the platen. Refer to "Disassembly/Reassembly > Points to Note on Disassembly and Reassembly > Opening the Cap/Moving the Wiper Unit".
- 2) Remove the printhead to protect it.
 3) Remove one screw [1] and disconnect one connector [2], and then the multi sensor [3].



b) Removing the Multi Sensor Reference Plate

1) Remove one screw [1], and then remove the multi sensor reference plate [2].





Do not touch the white sheets of the multi sensor reference plate.

c) Action following the replacement of the carriage unit/multi sensor
Because the distance between the multi sensor (in the carriage unit) and the nozzles (in the printhead) is varied from one unit to another, the printer as shipped has its optical axis corrected to adjust the image write position. When the carriage unit or multisensor has been replaced or disassembled and reassembled, they require

Execute service mode under the following conditions:

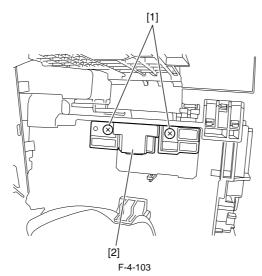
- * The multi sensor reference plate(QL2-3160: MOUNT, MULTI SENSOR REFERENCE) must be replaced at the same time whenever the carriage or the multi sensor is being replaced.
- Service mode : SERVICE MODE > ADJUST > GAP CALIB.
- Service mode : SERVICE MODE > ADJUST > PRINT PATTERN > OPTICAL AXIS Media type : Photo glossy paper

Media size: Media having a width equal toor larger then that of A2-size paper

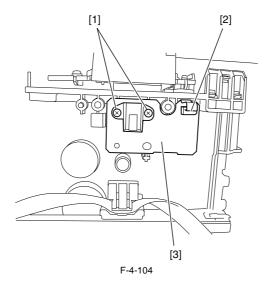
4.3.14 Linear Encoder

iPF765 / iPF760 / iPF750 / iPF755

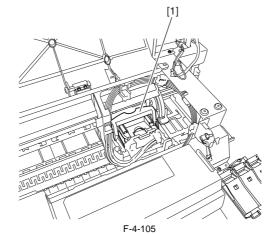
- a) Linear Encoder
 Removing the Linear Encoder Sensor
 1) Remove the carriage unit.
 2) Remove two screws [1], and then remove the linear encoder sensor cover [2].



3) Remove two screws [1] and disconnect one connector [2], and then remove the linear encoder sensor [3].

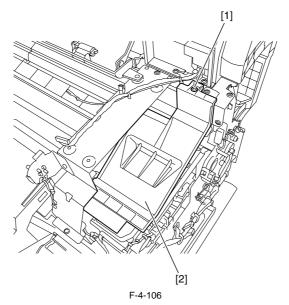


Removing the Linear Scale
1) Turn off the power, and then move the carriage [1] to HP side on the platen. Refer to "Disassembly/Reassembly > Points to Note on Disassembly and Reassembly > Opening the Cap/Moving the Wiper Unit".

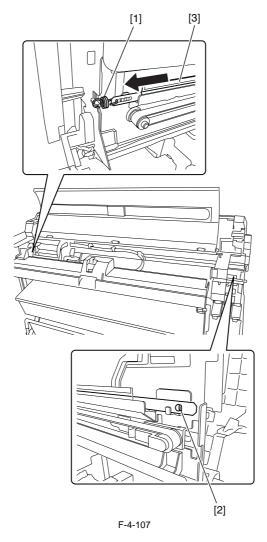


MEMO:
When removing or installing the linear scale, move the carriage unit to the HP side on top of the platen to prevent the linear scale from touching the linear encoder sensor.

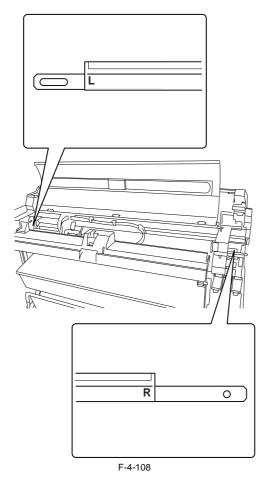
- 2) Remove the left/right cover and left/right ink tank cover.
 3) Remove one screw [1], and then remove the carriage upper cover [2].



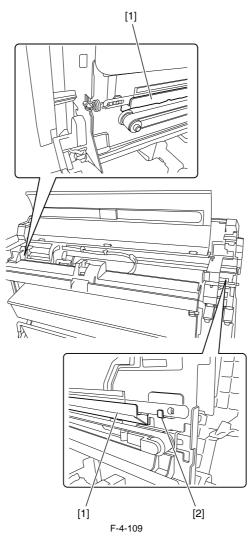
4) Remove the spring [1], release the notch from the protrusion [2] on the side plate, and then remove the linear scale [3] from the left side.



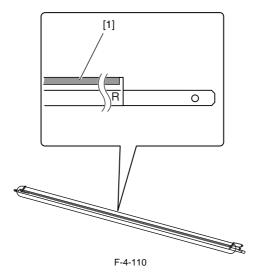
- Precaution about Reinstallation of Linear Encoder Sensor/Linear Scale
 When removing or installing the linear scale, move the carriage unit to the HP side on top of the platen to prevent the linear scale from touching the linear encoder
- Reinstall the linear scale in such a manner that the "R" mark on the linear scale is on the right side of the printer and the "L" mark is on the left side of the printer when viewed from the front of the printer.



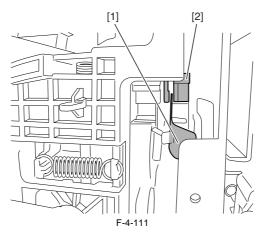
- Reinstall the linear scale in such a manner that it passes through the notch in the guide [1] and the notch [2] on the side plate.



- Never touch the detection part [1] of the linear scale.



- Make sure that the linear scale [1] is in the detection zone of the linear encoder sensor [2].

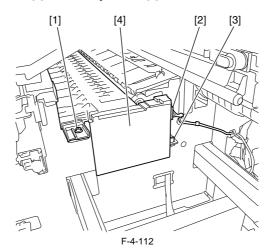


b) Action to take after removing or replacing the linear encoder sensor
After the carriage and carriage motor and carriage belt and linear encoder sensor has been removed or replaced, execute the following service mode.
Service mode: SERVICE MODE > ADJUST > CR MOTOR COG

4.3.15 Head Management Sensor

iPF765 / iPF760 / iPF750 / iPF755

a) Head Management Sensor
Removing the Head Management Sensor
1) Remove the purge unit.
2) Remove one screw [1] and one disconnect connector [2], release one protrusion [3], and then remove the head management sensor [4].



b) Procedure after replacing the head management sensor $% \left(\mathbf{b}\right) =\mathbf{b}^{\prime }$

Since the distance between the head management sensor and the carriage unit varies among printers, the optical axis is factory-adjusted to adjust the non-discharging detection position. When you have replaced the head management sensor or performed assembly/reassembly of surrounding parts that can change the distance between the head management sensor and the carriage unit, reasjustment is required.

Peform the readjustment in the service mode.

 $Service\ mode: SERVICE\ MODE > ADJUST > NOZZLE\ CHK\ POS.$

4.3.16 PCBs

iPF765 / iPF760 / iPF750 / iPF755

Do not replace the main controller PCB and the maintenance cartridge relay PCB (ROM board) at the same time. Both PCBs hold vital information, such as settings and a carriage drive time. Before either PCB is replaced, such information is temporarily saved through internal communication with the other PCB and is automatically written to the new PCB when it is installed. For this reason, the two PCBs cannot be replaced at the same

time. To replace both PCBs, work in order of (a) > (b).

When the main controller PCB and maintenance cartridge relay PCB have been replaced with service parts, check that the latest version of firmware is installed in

If not, upgrade the firmware to the latest version.

For instruction on how to update the main controller, refer to "TROUBLESHOOTING" > "Version Up".

a) Replacing the maintenance cartridge relay PCB (ROM board) 1) Turn off the power and disconnect the power plug. 2) Replace the maintenance cartridge relay PCB.

- 2) Replace the maintenance cathoge relay TCB.

 3) Reconnect the power plug and turn on the power while pressing the [Load] and [Navigate] keys. (Start the printer in PCB replacement mode.)

 4) Release the key, but not before making sure that "Initializing" appears on the display. (The message lamp lights when printer enters PCB replacement mode.)

 5) Wait until "REPLACE MODE" appears on the display.

 6) Select MC BOARD and press the [OK] key.

- 7) Turn off the power, but not before making sure that "Power off" appears on the display.
- 8) Turn on the power.
- 9) Check the firmware version. If the firmware is not the latest version, upgrade the firmware to the latest version.

- b) Replacing the main controller PCB1) Turn off the power and disconnect the power plug.2) Replace the main controller PCB.

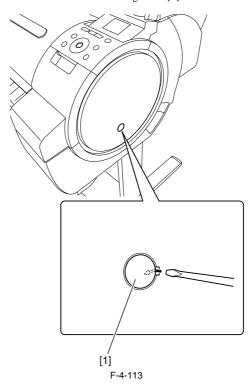
- 2) Replace the power plug and turn on the power while pressing the [Load] and [Navigate] keys. (Start the printer in PCB replacement mode.)
 4) Release the key, but not before making sure that "Initializing" appears on the display. (The message lamp lights when printer enters PCB replacement mode.)
 5) Wait until "REPLACE MODE" appears on the display.
- 6) Select CPU BOARD and press the [OK] key.
- 7) Turn off the power, but not before making sure that "Power off" appears on the display.
- 8) Turn on the power.
 9) Check the firmware version. If the firmware is not the latest version, upgrade the firmware to the latest version.

4.3.17 Opening the Cap/Moving the Wiper Unit

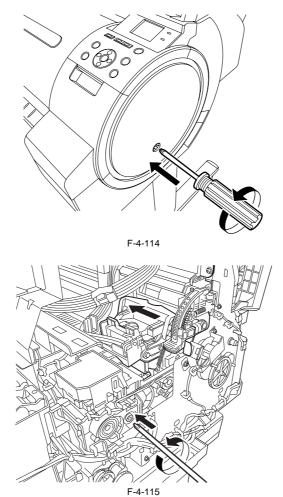
iPF765 / iPF760 / iPF750 / iPF755

a) Opening the Cap/Releasing the Carriage Lock Pin by service mode After entering the service mode, execute the following mode. Service mode: SERVICE MODE > FUNCTION > CR UNLOCK

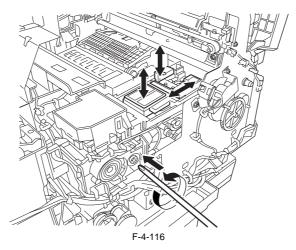
b) Opening the Cap/Releasing the Carriage Lock Pin/Moving the Wiper Unit manually 1) Insert a flat blade screwdriver in the slot on the left cover to remove the blanking cover [1].



2) Insert a Phillips screw driver in the "+" groove on the purge unit and turn it counterclockwise. The cap and carriage lock pin lower, allowing the carriage to move. Also, the wiper unit can move.



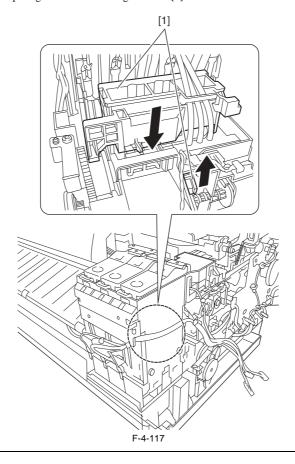
MEMO:
Turning the screwdriver continuously repeats the vertical movement of the cap and carriage lock pin and the to-and-fro movement of the wiper unit. Visually check that the cap has been opened and the carriage lock pin has been released.



4.3.18 Opening/Closing the Ink Supply Valve/Subtank Air Passage Valve

iPF765 / iPF760 / iPF750 / iPF755

a) Opening/Closing the Ink Supply Valve/Subtank Air Passage Valve
1) Remove the ink tank cover.
2) Open the ink supply valve and the subtank air passage valve with moving the lever [1] in the arrow direction.





- If the printhead fixer lever is released with the ink supply valve and subtank air passage valve to an ink tube open while the tube is filled with an ink, the ink in the tube could flow backward to the ink tank unit, leaking through the hollow needle in the ink tank.

- If the valve remains open, as on occurrence of the valve open/close error, remove the valve motor unit and (see Disassembly/Reassembly > Points to Note on Disassembly/Reassembly > Ink Tank Unit) and close the ink supply valve.

4.3.19 Draining the ink

iPF765 / iPF760 / iPF750 / iPF755

There are two ways to drain the ink passage of inks: automatic and manual.



Be sure to drain the ink from the ink passage to prevent ink leakage before disassembling any component of the ink passage or reshipping the printer.

1. Automatic Ink Drain

Execute Automatic Ink Drain by selecting "Set./Adj. Menu" > "Prep.MovePrinter" from the main menu.



Execute Automatic Ink Drain once again if the printer shuts down due to a power failure or any other trouble before the operation completes.

2. Manual Ink Drain

Drain the ink passage of inks manually if any electrical component in the printer fails or firmware malfunctions or if the printer fails to be powered on.

1) Remove left/right cover, left/right ink tank cover. See Disassembly/Reassembly > Points to Note on Disassembly/Reassembly > External Covers.

2) Remove the ink tanks.

- 3) Move the carriage to above the platen. See Disassembly/Reassembly > Points to Note on Disassembly/Reassembly > Opening the caps and moving the wiper unit.
- 4) Release the printhead fixer lever.
- 5) Open the ink supply valves/subtank air passage valves to allow the inks to flow into the ink tank unit waste ink tray.

4.4 Applying the Grease

4.4.1 Applying the Grease

iPF765 / iPF760 / iPF750 / iPF755

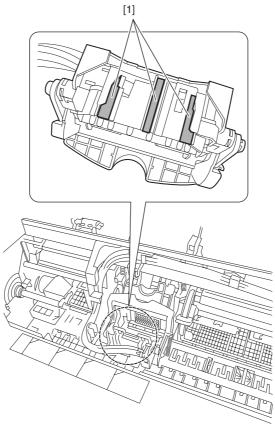
Some parts require application of grease when replaced. Apply the grease(special tool) listed below. Smear the grease lightly and evenly with a flat brush or the like. For the printer disassembly/reassembly method, refer to "DISASSEMBLY/REASSEMBLY" and "parts catalog".



A Do not apply the grease to locations in which not designated grease may cause poor print quality. Take particular care that grease do not get onto the wiper, cap, carriage shaft and the linear scale.

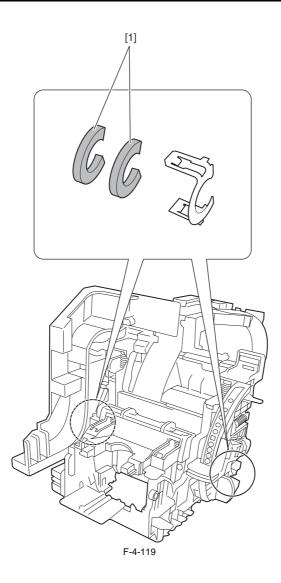
No.	Location	Grease	Quantity	Remarks
1	Joint Base Rib	FLOIL G-5000H	Approx. 8-20mg	
2	Shaft Cleaner	EU-1	Soaks enough.	
3	Upper Cover Hinge Catch	EU-1	Approx. 8-20mg	
	Roll Cover Slide Guide	EU-1	Approx. 8-20mg	
4	Contact between Pinch Roller Release Shaft and Pinch Roller	FLOIL G-5000H	Approx. 8-20mg	
	Pinch Roller Pressure Release Gear	FLOIL G-5000H	Approx. 8-20mg	
	Protrusion of Release Lever	FLOIL G-5000H	Approx. 8-20mg	Be careful not to apply the grease to the edge face of protrusions.
	Bushing of Feed Roller	FLOIL G-5000H	Approx. 8-20mg	

1. Joint Base Rib [1]

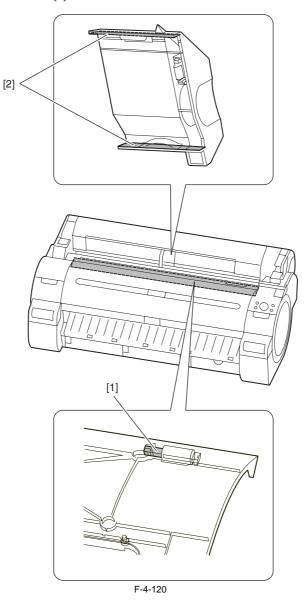


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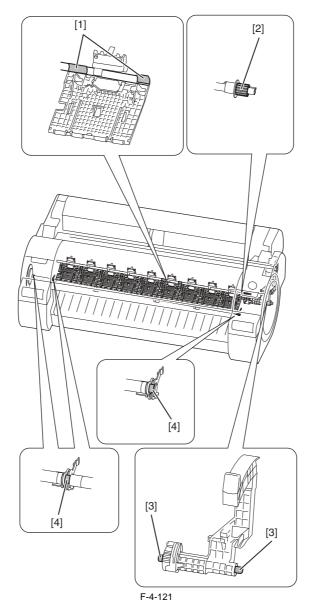
2. Shaft Cleaner [1]



3. Upper Cover Hinge Catch [1] / Roll Cover Slide Guide [2]



4. Contact between Pinch Roller Release Shaft and Pinch Roller [1] / Pinch Roller Pressure Release Gear [2] / Protrusion of Release lever [3] / Bushing of Feed Roller [4]



4.5 Adjustment and Setup Items

4.5.1 Adjustment Item List

iPF765 / iPF760 / iPF750 / iPF755

The following adjustment procedures need to be performed when parts have been replaced or removed and then reinstalled:

Adjustment item	Adjustment timing		
Multi sensor recalibration	Multi sensor replacement/removal		
	Carriage unit replacement/removal		
Adjusting feed roller eccentricity	Feed roller		
	Feed roller encoder		
Head management sensor recalibration	Head management sensor replacement/removal		
	Carriage unit replacement/removal		
Carriage motor recalibration	Carriage unit replacement/removal		
	Carriage motor replacement/removal		
	Carriage belt replacement/removal		

4.5.2 Procedure after Replacing the Carriage Unit or Multi Sensor

iPF765 / iPF760 / iPF750 / iPF755

a) Note on replacing the carriage unit and the multi sensor

The multi sensor reference plate(QL2-3160: MOUNT, MULTI SENSOR REFERENCE) must be replaced at the same time whenever the carriage or the multi sensor is being replaced.

b) Multi Sensor Recalibration

Because the distance between the multi sensor (in the carriage unit) and the nozzles (in each printhead) is varied from one unit to another, the printer has its optical axis corrected and paper gap adjustment sensor gain and calibration adjusted prior to shipment. When the carriage unit or multi sensor has been replaced, they should require adjustment.

Execute service mode under the following conditions to launch automatic adjustment:

1) Optical axis correction

- Service mode : SERVICE MODE > ADJUST > PRINT PATTERN > OPTICAL AXIS

Media type: Photo glossy paper
Media size: Media having a width equal toor larger then that of A2-size paper

- Service mode: SERVICE MODE > ADJUST > GAP CALIB.

c) Carriage Motor Adjustment

After the carriage and carriage motor and carriage belt and linear encoder sensor has been removed or replaced, execute the following service mode. Service mode: SERVICE MODE > ADJUST > CR MOTOR COG

4.5.3 Procedure after Replacing the Feed Roller or Feed Roller Encoder

iPF765 / iPF760 / iPF750 / iPF755

Feed roller eccentricity is factory-adjusted (correction of variation in the paper feed amount per rotation). It is necessary to adjust feed roller eccentricity after replacing the feed roller encoder or feed roller.

In the service mode, perform automatic adjustment of feed roller eccentricity.

Service mode : SERVICE MODE > ADJUST > PRINT PATTERN > LF TUNING

Media type: Photo glossy paper

If adjustment cannot be done properly by selecting "SERVICE MODE > ADJUST > PRINT PATTERN > LF TUNING" (auto adjustment), carry out manual adjustment.

Service mode SERVICE MODE > ADJUST > PRINT PATTERN > LF TUNING2

Media type: Gloss photo paper Check the printed pattern and enter values for adjustment.

4.5.4 Procedure after Replacing the Head Management Sensor

iPF765 / iPF760 / iPF750 / iPF755

Since the distance between the head management sensor and the carriage unit varies among printers, the optical axis is factory-adjusted to adjust the non-discharging detection position. When you have replaced the head management sensor or performed assembly/reassembly of surrounding parts that can change the distance between the head management sensor and the carriage unit, readjustment is required Perform the readjustment in the service mode.

Service mode: SERVICE MODE > ADJUST > NOZZLE CHK POS.

Chapter 5 MAINTENANCE

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5.3.1 Periodic Maintenance	

5.1 Periodic Replacement Parts

5.1.1 Periodic Replacement Parts

iPF765 / iPF760 / iPF750 / iPF755

Level	Periodic Replacement Part
User	None
Service Personnel	None

5.2 Consumable Parts

5.2.1 Consumable Parts

iPF765 / iPF760 / iPF750 / iPF755

	Consumables				Service Mode		
	Name	Parts number	Q'ty	Life sheets/ A0	PARTS xx	States (Error Code)	Remarks
Service	MAINTENANCE KIT	QY6-1515	1	14000	CR ALL/Mi-		CR ALL includes
	CARRIAGE UNIT	QM3-5824	1		1/WF-2		the consumable parts of CR-1 or
	SCALE, LINEAR	QC3-1878	1				CR-5.
	FAN UNIT	QM3-5854	1				
	MIST FAN DUCT UNIT	QM3-5853	1				
	WASTE INK BOX UNIT	QM3-5805	1				
	CARRIAGE UNIT	QM3-5824	1	14000	CR-1	OK/W1/W2	include the consumable parts of CR-2 or CR-3.
	FLEXIBLE CABLE UNIT	QM3-4580	1	38000	CR-2	OK/W1/W2	
	ENCODER SENSOR UNIT	QM3-4574	1	14000	CR-3	OK/W1/W2	
	SCALE, LINEAR	QC3-1878	1				
	PAD	QC3-1514	4				
	MULTI SENSOR UNIT	QM3-5831	1	14000	CR-5	OK/W1/W2	
	MOUNT, MULTI SENSOR REFERENCE	QL2-3160	1	50000	CR-1/CR-4/ CR-5	OK/W1/W2	replace with the carriage unit or the multi sensor unit at the same time.
	INK TUBE UNIT	QM3-5951	1	25000	SP-1	OK/W1/E144-4047	
	PURGE UNIT	QM3-5988	1	50000	PG-1	OK/W1/E141-4046	
	HEAD MANAGEMENT SENSOR UNIT	QM3-5956	1	100700	HMa-1	OK/W1/W2	
	MOTOR, DC	QK1-5068	1	340900	MT-1		
	MOTOR, DC	QK1-5067	1	32000	PL-1		
	FAN UNIT	QM3-5854	1	15000	Mi-1	OK/W1/E146-4001	
	MIST FAN DUCT UNIT	QM3-5853	1	15000			
	CUTTER	QM3-5846	1	100000	CT-1	OK/W1/W2	
	M/C HOLDER UNIT	QM3-5841	1	- (when the error occurring)	WF-1	OK/W1/E146-4001	WF ALL includes the consumable parts of WF-1 and
	WASTE INK BOX UNIT	QM3-5805	1	37000	WF-2	OK/W1/E146-4001	WF-2.



 $After supplies have been replaced, execute {\tt [INITIALIZE]} > {\tt [PARTS\ COUNTER]} > {\tt [PARTS\ xx]} \ in service mode to initialize (clear) the parts counter information.$

5.3 Periodic Maintenance

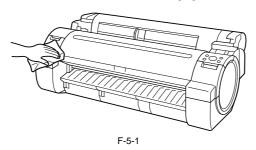
5.3.1 Periodic Maintenance

iPF765 / iPF760 / iPF750 / iPF755

Level	Periodic maintenance
User	Cleaning of ink mist and other substances(about once each month
Service personnel	None

a) Printer cleaning
To keep up with print quality and prevent troubles, clean the printer about once each month.

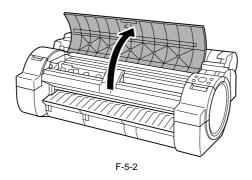
- Turn off the printer power.
 Remove the power cord and interface cable.
 Wipe the external surfaces of the printer with a cloth moistened with water and then wrung tight and then dry them finally with a dry cloth.



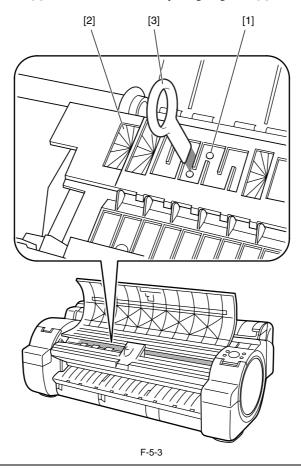


- Be sure to turn off the printer power and pull out the power cord from the outlet. If the power is accidentally turned on, contact with moving internal parts can result in injury.
 Do not use flammable solvents, such as thinner and benzine, on the printer. Solvents coming into contact with any electrical parts inside the printer could result
- in fires or electrical shock hazards.

4) Open the Upper Cover.

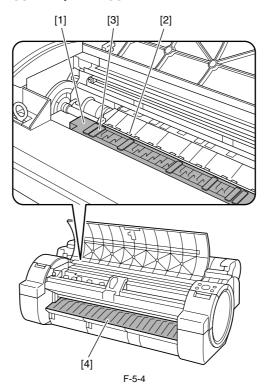


5) If paper dust has accumulated in the suction holes [1] on the Platen, the borderless printing ink grooves [2], use the included Cleaning Brush [3] to wipe it away.



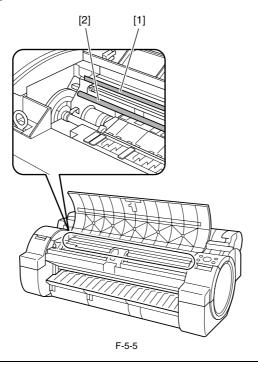
MEMO:
If the Cleaning Brush is dirty, rinse it in water.

6) Using a damp cloth that you have wrung out completely, wipe inside the Upper Cover to clean it. Wipe away any ink residue on all over the Platen [1], the Pinch Roller Unit [2], the Borderless Printing Ink Grooves [3], the Output Guide [4], and so on.

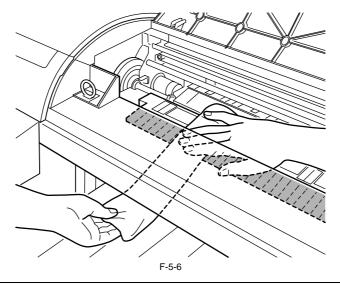




- ▲
 Do not dry the interiors of the upper cover with a dry cloth. Electrostatic charges could make the internal components susceptible to dirt, resulting in degraded print quality.
 Do not use flammable solvents, such as thinner and benzine, on the printer. Solvents coming into contact with any electrical parts inside the printer could result in fires or electrical shock hazards.
 Do not touch linear scale [1] and carriage shaft [2].



MEMO:
When cleaning between the Platen and Output Guide, use a damp cloth that you have wrung out completely to wipe over the ejection slot and along grooves.



7) Close the upper cover.

Chapter 6 TROUBLESHOOTING

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6.1 Troubleshooting

6.1.1 Outline

6.1.1.1 Outline of Troubleshooting

iPF765 / iPF760 / iPF750 / iPF755

1. Outline

Troubles subject to troubleshooting are classified into those shown on the display (warning, error, and service call) and those not shown on the display.

The code of warning and error is shown by combining alphanumeric characters of eight digits and four digits.

The code of service call error is shown by the initial character of "E" and combining alphanumeric characters of three digits and four digits.

No code number is displayed when a warning occurs. Selecting [SERVICE MODE] > [DISPLAY] > [WARNING] in service mode allows you to check the warning log.

2. Precautions for Troubleshooting

1) Check the environmental conditions and the media used for printing.

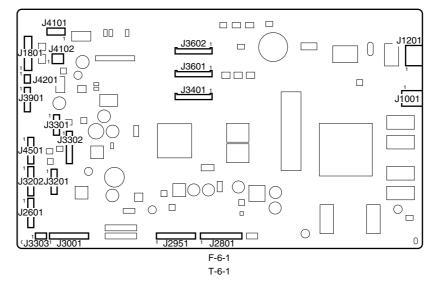
- 2) Before performing troubleshooting, make sure that all connectors and cables are connected properly.

 3) When servicing the printer with the external cover removed and the AC power supplied, be extremely careful to avoid electric shock and shorting electrical
- 4) In the following sections, the troubleshooting steps are described such that the component related to the most probable cause of the problem will be repaired or replaced first, being followed by components with less problem probability. If multiple components have the same problem probability, the steps are described beginning with the easiest one.
- After performing each step, check to see if the problem has been resolved by making test prints. If the problem persists, proceed to the next step.
- 5) After completion of the troubleshooting, check that all connectors and cables have been reconnected and screws have been tightened firmly.
- 6) Whenever you have performed replacement or repair services, make test prints to check whether the problem has been resolved.

6.2 Location of Connectors and Pin Arrangement

6.2.1 Main controller PCB

iPF765 / iPF760 / iPF750 / iPF755



J1001 (USB)	J1001 (USB)					
Pin Number	Signal name	IN/OUT	Function			
1	VBUS	IN	USB VBUS(+5V)			
2	D-	IN/OUT	USB data (-)			
3	D+	IN/OUT	USB data (+)			
4	GND	-	USB GND			
5	GND	-	GND (Connector shell)			
6	GND	-	GND (Connector shell)			

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J1201 (Network)	[1201 (Network)					
Pin Number	Signal name	IN/OUT	Function			
1	TX+	OUT	Ethernet data TX line (+)			
2	TX-	OUT	Ethernet data TX line (-)			
3	RX+	IN	Ethernet data RX line (+)			
4	-	-	Not used			
5	-	-	Not used			
6	RX-	IN	Ethernet data RX line (-)			
7	-	-	Not used			
8	-	-	Not used			

J1201 (Network)					
Pin Number	Signal name	IN/OUT	Function		
9	GREEN_LED_C	OUT	Link LED (green:100Mb/s) cathode terminal		
10	GREEN_LED_A	OUT	Link LED (green:100Mb/s) anode terminal		
11	YELLOW_LED_C	OUT	Link LED (yellow:10Mb/s) cathode terminal		
12	YELLOW_LED_A	OUT	Link LED (yellow:10Mb/s) anode terminal		

J1801 (Connect	1801 (Connect to Power supply)				
Pin Number	Signal name	IN/OUT	Function		
1	PW_CONT	OUT	Normal/power saving switch signal		
2	VM(+32V)	IN	Power supply (+32V)		
3	VM(+32V)	IN	Power supply (+32V)		
4	VMGND	-	GND		
5	VMGND	-	GND		
6	VH(+32V)	IN	Power supply (+32V)		
7	VH(+32V)	IN	Power supply (+32V)		
8	VHGND	-	GND		
9	VHGND	-	GND		
10	PW_ENB(VH_ENB)	OUT	VH power supply ON/OFF signal		

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	2601 (Connect to Operation panel)					
Pin Number	Signal name	IN/OUT	Function			
1	POWER_ON	IN	Power switch signal			
2	GND	-	GND			
3	+5.1V	OUT	Power supply (+5.1V)			
4	BUZZER	OUT	Buzzer control signal			
5	PDO	OUT	Panel IC control signal			
6	+5.1V	OUT	Power supply (+5.1V)			
7	PDI	OUT	Panel IC data signal			
8	EX_HDD_LED	-	N.C			
9	PRESET*	OUT	Panel IC reset signal			
10	GND	-	GND			
11	PCK	OUT	Panel IC clock signal			
12	PANEL5V_ON	OUT	LED backlight power supply (+5V)			
13	PCS*	OUT	Panel chip select signal			

J2801 (Purge mo switch)	I2801 (Purge motor, Pump encoder sensor, Pump cam sensor, Paper detection sensor, Lift cam sensor, Carriage HP sensor, Pinch roller pressure release switch)				
Pin Number	Signal name	IN/OUT	Function		
1	PUMPM_OUTA	OUT	Purge motor drive signal A		
2	PUMPM_OUTB	OUT	Purge motor drive signal B		
3	PUMP_ENCB	IN	Pump encoder sensor output signal B		
4	SNS5V_FU1	OUT	Power supply (+5V)		
5	PUMP_ENCA	IN	Pump encoder sensor output signal A		
6	GND	-	GND		
7	SNS3V_FU1	OUT	Power supply (+3.3V)		
8	GND	-	GND		
9	PUMP_HP_SNS*	IN	Pump cam sensor output signal		
10	GND	-	GND		
11	LFPE(MEDIA)_SNS*	IN	Paper detection sensor output signal		
12	MEDIA5V	OUT	Power supply (+5V)		
13	SNS3V_FU1	OUT	Power supply (+3.3V)		
14	GND	-	GND		
15	LIFT_HP_SNS*	IN	Lift cam sensor output signal		
16	SNS3V_FU1	OUT	Power supply (+3.3V)		
17	GND	-	GND		
18	CR_HP_SNS*	IN	Carriage HP sensor output signal		
19	RELEASE_LEV_OPEN_SNS*	IN	Pinch roller pressure release switch output signal		
20	GND	-	GND		

J2951 (Head ma	2951 (Head management sensor, Shutter HP sensor, Shutter motor, Platen suction fan)				
Pin Number	Signal name	IN/OUT	Function		
1	APCCHK	IN	Head management sensor unit LED current output detection signal		
2	FUTO_MONITOR(N.C.)	-	N.C		
3	GND	-	GND		
4	FUTO_CLMP*	OUT	Head management sensor unit clamp signal		
5	FUTO_ON*	OUT	Head management sensor unit LED ON/OFF signal		
6	SNS5V	OUT	Power supply (+5V)		
7	FUTO_CMP*	IN	Head management sensor unit light shading detection signal		
8	SNS3V_FU1	OUT	Power supply (+3.3V)		
9	GND	-	GND		
10	HUSOKU_HP_SNS*	IN	Shutter HP sensor output signal		
11	VM_26V	OUT	Power supply (+26V)		
12	HUSOKUM_OUTA	OUT	Shutter motor drive signal A		
13	HUSOKUM_OUTAX	OUT	Shutter motor drive signal AX		
14	HUSOKUM_OUTB	OUT	Shutter motor drive signal B		
15	HUSOKUM_OUTBX	OUT	Shutter motor drive signal BX		
16	FAN_VM(26.5V)	OUT	Power supply (+26.5V)		
17	PLATEN_FAN_LOCK*	IN	Platen suction fan lock signal		
18	PLATEN_FAN_PWM	OUT	Platen suction fan PWM control signal		
19	GND	-	GND		

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J3001 (Lift moto	J3001 (Lift motor, Roll motor, Roll encoder sensor, Release lever lock sensor, Release lever lock solenoid)				
Pin Number	Signal name	IN/OUT	Function		
1	VM_26V(26.5V)	OUT	Power supply (+26.5V)		
2	LIFTM0_A	OUT	Lift motor drive signal A		
3	LIFTM2_AX_N0	OUT	Lift motor drive signal AX		
4	LIFTM1_B	OUT	Lift motor drive signal B		
5	LIFTM3_BX_N0	OUT	Lift motor drive signal BX		
6	TP_ROLL_TRNSM_AP	OUT	Roll motor drive signal AP		
7	TP_ROLL_TRNSM_AM	OUT	Roll motor drive signal AM		
8	TP_ROLL_TRANSM_BP	OUT	Roll motor drive signal BP		
9	TP_ROLL_TRNSM_BM	OUT	Roll motor drive signal BM		
10	GND	-	GND		
11	ROLL_KEI_ENCA	IN	Roll encoder sensor output signal A		
12	SNS5V_FU1	OUT	Power supply (+5V)		
13	ROLL_KEI_ENCB	IN	Roll encoder sensor output signal B		
14	SNS3V_FU2	OUT	Power supply (+3.3V)		
15	GND	-	GND		
16	RELEASE_LEV_MEM_SNS*	IN	Release lever lock sensor output signal		
17	VM_26V	OUT	Power supply (+26.5V)		
18	RELEASE_LEV_LOCK_SOL*	OUT	Release lever lock solenoid drive signal		

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Pin Number	Signal name	IN/OUT	Function	
1	GND	-	GND	
2	INK_SNS3	IN	Ink detection sensor output signal 3	
3	INK_SNS4	IN	Ink detection sensor output signal 4	
4	INK_SNS5	IN	Ink detection sensor output signal 5	
5	INK_SNS9	IN	Ink detection sensor output signal 9	
6	INK_SNS10	IN	Ink detection sensor output signal 10	
7	INK_SNS11	IN	Ink detection sensor output signal 11	
8	TANK_COVER_SW_R*	IN	Ink tank cover switch (R) output signal	
9	GND	-	GND	
10	SNS3V_FU1	OUT	Power supply (+3.3V)	
11	GND	-	GND	
12	CUTTER_R_SNS*	OUT	Cutter HP sensor output signal	

J3202 (Ink suppl	3202 (Ink supply valve open/closed detection sensor (R), Air passage valve open/closed detection sensor (R), valve motor (R), Ink tank ROM PCB (R))					
Pin Number	Signal name	IN/OUT	Function			
1	SNS3V_FU1	OUT	Power supply (+3.3V)			

Pin Number	Signal name	IN/OUT	Function
2	GND	-	GND
3	SUPPLY_BEN_R_SNS*	IN	Ink supply valve open/closed detection sensor (R) output signal
4	SNS3V_FU1	OUT	Power supply (+3.3V)
5	GND	-	GND
6	TAIKI_BEN_R_SNS*	OUT	Air passage valve open/closed detection sensor (R) output signal
7	INKBEN_R_OUTB	OUT	Valve motor (R) drive signal B
8	INKBEN_R_OUTA	OUT	Valve motor (R) drive signal A
9	TANK_DAT3	IN/OUT	Ink tank data signal 3
10	TANK_DAT4	IN/OUT	Ink tank data signal 4
11	TANK_3V	OUT	Power supply (+3.3V)
12	TANK_DAT5	IN/OUT	Ink tank data signal 5
13	GND	-	GND
14	TANK_CLK	OUT	Ink tank clock signal

Pin Number	Signal name	IN/OUT	Function	
1	GND	-	GND	
2	INK_SNS0	IN	Ink detection sensor output signal 0	
3	INK_SNS1	IN	Ink detection sensor output signal 1	
4	INK_SNS2	IN	Ink detection sensor output signal 2	
5	INK_SNS6	IN	Ink detection sensor output signal 6	
6	INK_SNS7	IN	Ink detection sensor output signal 7	
7	INK_SNS8	IN	Ink detection sensor output signal 8	
8	TANK_COVER_SW_L*	IN	Ink tank cover switch (L) output signal	
9	GND	-	GND	

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Pin Number	Signal name	IN/OUT	Function
1	SNS3V_FU1	OUT	Power supply (+3.3V)
2	GND	-	GND
3	SUPPLY_BEN_L_SNS*	IN	Ink supply valve open/closed detection sensor (L) output signal
4	SNS3V_FU1	OUT	Power supply (+3.3V)
5	GND	-	GND
6	TAIKI_BEN_L_SNS*	OUT	Air passage valve open/closed detection sensor (L) output signal
7	INKBEN_L_OUTB	OUT	Valve motor (L) drive signal B
8	INKBEN_L_OUTA	OUT	Valve motor (L) drive signal A
9	TANK_DAT3	IN/OUT	Ink tank data signal 3
10	TANK_DAT4	IN/OUT	Ink tank data signal 4
11	TANK_3V	OUT	Power supply (+3.3V)
12	TANK_DAT5	IN/OUT	Ink tank data signal 5
13	GND	-	GND
14	TANK_CLK	OUT	Ink tank clock signal
15	N.C.	-	N.C

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J3303 (Connect t	J3303 (Connect to Maintenance cartridge relay PCB)				
Pin Number	Signal name	IN/OUT	Function		
1	MENT_ROM_SDA	IN/OUT	Maintenance cartridge rom control signal (data)		
2	MENT_ROM_SCL	IN/OUT	Maintenance cartridge rom control signal (clock)		
3	GND	-	GND		
4	TANK_3V	OUT	Power supply (+3.3V)		

J3401 (Connect t	(3401 (Connect to Carriage PCB J201)				
Pin Number	Signal name	IN/OUT	Function		
1	VHGND	-	GND		
2	VHGND	-	GND		
3	VHGND	-	GND		
4	VHGND	-	GND		
5	VH_MONI1	IN	VH control signal		
6	VH	OUT	Power supply (+21.5V)		

Pin Number	Signal name	IN/OUT	Function
7	VH	OUT	Power supply (+21.5V)
8	VHGND	-	GND
9	H3V	OUT	Power supply (+3V)
10	H3V	OUT	Power supply (+3V)
11	VHGND	-	GND
12	H5V	OUT	Power supply (+5V)
13	H5V	OUT	Power supply (+5V)
14	VH	OUT	Power supply (+21.5V)
15	VH	OUT	Power supply (+21.5V)
16	VH	OUT	Power supply (+21.5V)
17	VH	OUT	Power supply (+21.5V)
18	VH	OUT	Power supply (+21.5V)
19	VH	OUT	Power supply (+21.5V)
20	VH	OUT	Power supply (+21.5V)
21	VH	OUT	Power supply (+21.5V)
22	VHGND	-	GND
23	VH	OUT	Power supply (+21.5V)
24	VH	OUT	Power supply (+21.5V)
25	VH	OUT	Power supply (+21.5V)

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Pin Number	Signal name	IN/OUT	Function
1	FFC_SLANT_DET_SNS2*	IN	FFC disconnection detection signal 2
2	GAP_SNS2	IN	Multi sensor head height (GAP) detection signal 2
3	GAP_SNS1	IN	Multi sensor head height (GAP) detection signal 1
1	EDGE_SNS	IN	Multi sensor paper edge detection signal
5	GND	-	GND
5	VH_DIS	OUT	VH select signal
7	GND	-	GND
8	ENCODER_A	IN	Carriage encoder output signal A
9	ENCODER_B	IN	Carriage encoder output signal B
10	GND	-	GND
11	H1-B-DATA-3-EV	OUT	Even head data signal 3(B)
12	GND	-	GND
13	H1-B-HE-3*	OUT	Head heat enable signal 3(B)
14	GND	-	GND
15	H1-C-DATA-4-EV	OUT	Even head data signal 4(C)
16	GND	-	GND
17	H1-C-DATA-5-EV	OUT	Even head data signal 5(C)
18	GND	-	GND
19	H1-C-HE-5*	OUT	Head heat enable signal 5(C)
20	GND	-	GND
21	H1-C-DATA-5-OD	OUT	Odd head data signal 5(C)
22	GND	-	GND
23	H1-D-DATA-7-OD	OUT	Odd head data signal 7(D)
24	GND	-	GND
25	H1-D-DATA-6-OD	OUT	Odd head data signal 6(D)
26	GND	-	GND
27	H1-D-HE-6*	OUT	Head heat enable signal 6(D)
28	GND		GND
29	H1-D-DATA-6-EV	OUT	Even head data signal 6(D)
30	GND	-	GND
31	H1-D-DATA-7-EV	OUT	Even head data signal 7(D)
32	GND	-	GND
33	H1-D-HE-7*	OUT	Head heat enable signal 7(D)
34	GND	-	GND
35	H1-E-DATA-8-EV	OUT	Even head data signal 8(E)
36	GND	-	GND
37	H1-E-DATA-9-EV	OUT	Even head data signal 9(E)
38	GND	-	GND
39	H1-E-HE-9*	OUT	Head heat enable signal 9(E)
40	GND	-	GND
41	H1-F-DATA-10-EV	OUT	Even head data signal 10(F)
42	GND	-	GND

J3601 (Connect to Carriage PCB J101)				
Pin Number	Signal name	IN/OUT	Function	
43	H1-F-DATA-11-EV	OUT	Even head data signal 11(F)	
44	GND	-	GND	
45	H1-F-HE-11*	OUT	Head heat enable signal 11(F)	
46	GND	-	GND	
47	H1-F-DATA-11-OD	OUT	Odd head data signal 11(F)	
48	GND	-	GND	
49	IO-ASIC-SDA	IN/OUT	Head ROM control signal (data)	
50	FFC-SLANT-DET-SNS1*	IN	FFC disconnection detection signal 1	

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J3602 (Connect	to Carriage PCB J102)		
Pin Number	Signal name	IN/OUT	Function
1	FFC_SLANT_DET_SNS4*	IN	FFC disconnection detection signal 4
2	H1-DSOUT1	IN	Head temperature output 1
3	H1-DSOUT2	IN	Head temperature output 2
4	COLOR_SNS	IN	Multi sensor density detection signal
5	GND	-	GND
6	H1-DLD_LICC2	OUT	Head analogue switch latch signal
7	H1-DATA_LICC2	OUT	Head analogue switch data signal
8	H1-DASLK_LICC2	OUT	Head analogue switch clock signal
9	H-DASH_LICC2	OUT	Analogue switch A/D triggar signal
10	GND	-	GND
11	H1-C-DATA-4-OD	OUT	Odd head data signal 4(C)
12	GND	-	GND
13	H1-C-HE-4*	OUT	Head heat enable signal 4(C)
14	GND	-	GND
15	H1-B-DATA-3-OD	OUT	Odd head data signal 3(B)
16	GND	-	GND
17	H1-B-DATA-2-OD	OUT	Odd head data signal 2(B)
18	GND	-	GND
19	H1-B-HE-2*	OUT	Head heat enable signal 2(B)
20	GND	-	GND
21	H1-A-DATA-1-OD	OUT	Odd head data signal 1(A)
22	GND	-	GND
23	H1-A-DATA-0-OD	OUT	Odd head data signal 0(A)
24	GND	-	GND
25	H1-A-HE-0*	OUT	Head heat enable signal 0(A)
26	GND	-	GND
27	H1-A-DATA-0-EV	OUT	Even head data signal 0(A)
28	GND	-	GND
29	H1-A-DATA-1-EV	OUT	Even head data signal 1(A)
30	GND	-	GND
31	H1-A-HE-1*	OUT	Head heat enable signal 1(A)
32	GND	-	GND
33	H1-B-DATA-2-EV	OUT	Even head data signal 2(B)
34	GND	-	GND
35	H1-LT*	OUT	Head latch signal
36	GND	-	GND
37	H1-CLK	OUT	Head clock signal
38	GND	-	GND
39	H1-E-HE-8*	OUT	Head heat enable signal 8(E)
40	GND	-	GND
41	H1-F-DATA-10-OD	OUT	Odd head data signal 10(F)
42	GND	-	GND
43	H1-F-HE-10*	OUT	Head heat enable signal 10(F)
44	GND	-	GND
45	H1-E-DATA-9-OD	OUT	Odd head data signal 9(E)
46	GND	-	GND
47	H1-E-DATA-8-OD	OUT	Odd head data signal 8(E)
48	GND	-	GND
49	IO-ASIC_SCL	IN/OUT	Head ROM control signal (clock)
50	FFC_SLANT_DET_SES3*	IN	FFC disconnection detection signal 3

J3901 (Feed roll	er encoder sensor, Feed roller	HP sensor, Tempera	ature/humidity detection sensor)
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	LF_ENCA	IN	Feed roller encoder sensor output signal A
3	SNS5V_FU1	OUT	Power supply (+5V)
4	LF_ENCB	IN	Feed roller encoder sensor output signal B
5	SNS3V_FU1	OUT	Power supply (+3.3V)
6	GND	-	GND
7	LF_HP_SNS*	IN	Feed roller HP sensor output signal
8	BACKUP_3V	OUT	Power supply (+5V)
9	RH2_OUT	IN	Temperature/humidity detection sensor output signal
10	GND	-	GND
11	TH2_OUT	IN	Thermistor output signal

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J4101 (Carriage	4101 (Carriage motor)				
Pin Number	Signal name	IN/OUT	Function		
1	CR_HWP	IN	Carriage motor hole device W-phase + signal		
2	CR_HWM	IN	Carriage motor hole device W-phase - signal		
3	CR_W	OUT	Carriage motor W-phase drive signal		
4	CR_HVM	IN	Carriage motor hole device V-phase - signal		
5	CR_U	OUT	Carriage motor U-phase drive signal		
6	GND	-	GND		
7	CR_V	OUT	Carriage motor V-phase drive signal		
8	SNS5V		Power supply (+5V)		
9	N.C.	-	N.C		
10	CR_HVP	IN	Carriage motor hole device V-phase + signal		
11	CR_HUM	IN	Carriage motor hole device U-phase - signal		
12	CR_HUP	IN	Carriage motor hole device U-phase + signal		

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J4102 (Upper cover lock switch)				
Pin Number	Signal name	IN/OUT	Function	
1	VM	OUT	Power supply (+32V)	
2	CR_VM	IN	Upper cover lock switch output signal	

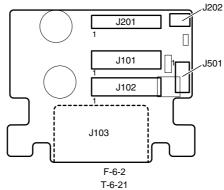
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J4201 (Feed motor)				
Pin Number	Signal name	IN/OUT	Function	
1	LF_OUTB(LF_AP)	OUT	Feed motor driver signal B	
2	LF_OUTA(LF_AM)	OUT	Feed motor driver signal A	

J4501 (Upper co	over lock solenoid, Cutter left p	osition sensor, Cutt	er motor, Mist fan)	
Pin Number	Signal name	IN/OUT	Function	
1	VM_26V(26.5V)	OUT	Power supply (+26.5V)	
2	DCOVER_SOL	OUT	Upper cover lock solenoid drive signal	
3	SNS3V_FU1	OUT	Power supply (+3.3V)	
4	GND	-	GND	
5	CUTTER_L_SNS*	OUT	Cutter left position sensor signal	
6	CUTTERM_OUTB	OUT	Cutter motor driver signal B	
7	CUTTERM_OUTA	OUT	Cutter motor driver signal A	
8	MIST_FAN_VM(26.5V)	OUT	Power supply (+26V)	
9	MIST_FAN_LOCK*	OUT	Mist fan drive signal	
10	N.C.(MIST_FAN_PWM)	-	N.C	
11	GND	-	GND	
12	N.C.	-	N.C	

6.2.2 Carriage PCB

iPF765 / iPF760 / iPF750 / iPF755



Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	IO-ASIC-SDA	IN/OUT	Head ROM control signal (data)
3	GND	-	GND
4	H1-F-DATA-11-OD	IN	Odd head data signal 11(F)
5	GND	-	GND
6	H1-F-HE-11*	IN	Head heat enable signal 11(F)
7	GND	-	GND
8	H1-F-DATA-11-EV	IN	Even head data signal 11(F)
9	GND	-	GND
10	H1-F-DATA-10-EV	IN	Even head data signal 10(F)
11	GND	-	GND
12	H1-E-HE-9*	IN	Head heat enable signal 9(E)
13	GND	-	GND
14	H1-E-DATA-9-EV	IN	Even head data signal 9(E)
15	GND	-	GND
16	H1-E-DATA-8-EV	IN	Even head data signal 8(E)
17	GND	-	GND
18	H1-D-HE-7*	IN	Head heat enable signal 7(D)
19	GND	-	GND
20	H1-D-DATA-7-EV	IN	Even head data signal 7(D)
21	GND	-	GND
22	H1-D-DATA-6-EV	IN	Even head data signal 6(D)
23	GND	-	GND
24	H1-D-HE-6*	IN	Head heat enable signal 6(D)
25	GND	-	GND
26	H1-D-DATA-6-OD	IN	Odd head data signal 6(D)
27	GND	-	GND
28	H1-D-DATA-7-OD	IN	Odd head data signal 7(D)
29	GND	-	GND
30	H1-C-DATA-5-OD	IN	Odd head data signal 5(C)
31	GND	-	GND
32	H1-C-HE-5*	IN	Head heat enable signal 5(C)
33	GND	-	GND
34	H1-C-DATA-5-EV	IN	Even head data signal 5(C)
35	GND	-	GND
36	H1-C-DATA-4-EV	IN	Even head data signal 4(C)
37	GND	-	GND
38	H1-B-HE-3*	IN	Head heat enable signal 3(B)
39	GND	-	GND
40	H1-B-DATA-3-EV	IN	Even head data signal 3(B)
41	GND	-	GND
42	ENCODER_B	OUT	Carriage encoder output signal B
43	ENCODER_A	OUT	Carriage encoder output signal A
44	GND	-	GND
45	VH_DIS	IN	VH select signal
46	GND	-	GND

J101 (Connect to Main controller PCB J3601)				
Pin Number	Signal name	IN/OUT	Function	
48	GAP_SNS1	OUT	Multi sensor head height (GAP) detection signal 1	
49	GAP_SNS2	OUT	Multi sensor head height (GAP) detection signal 2	
50	GND	-	GND	

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	o Main controller PCB J3602)		
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	IO-ASIC_SCL	IN/OUT	Head ROM control signal (clock)
3	GND	-	GND
4	H1-E-DATA-8-OD	IN	Odd head data signal 8(E)
5	GND	-	GND
6	H1-E-DATA-9-OD	IN	Odd head data signal 9(E)
7	GND	-	GND
8	H1-F-HE-10*	IN	Head heat enable signal 10(F)
9	GND	-	GND
10	H1-F-DATA-10-OD	IN	Odd head data signal 10(F)
11	GND	-	GND
12	H1-E-HE-8*	IN	Head heat enable signal 8(E)
13	GND	-	GND
14	H1-CLK	IN	Head clock signal
15	GND	-	GND
16	H1-LT*	IN	Head latch signal
17	GND	-	GND
18	H1-B-DATA-2-EV	IN	Even head data signal 2(B)
19	GND	-	GND
20	H1-A-HE-1*	IN	Head heat enable signal 1(A)
21	GND	-	GND
22	H1-A-DATA-1-EV	IN	Even head data signal 1(A)
23	GND	-	GND
24	H1-A-DATA-0-EV	IN	Even head data signal 0(A)
25	GND	-	GND
26	H1-A-HE-0*	IN	Head heat enable signal 0(A)
27	GND	-	GND
28	H1-A-DATA-0-OD	IN	Odd head data signal 0(A)
29	GND	-	GND
30	H1-A-DATA-1-OD	IN	Odd head data signal 1(A)
31	GND	-	GND
32	H1-B-HE-2*	IN	Head heat enable signal 2(B)
33	GND	-	GND
34	H1-B-DATA-2-OD	IN	Odd head data signal 2(B)
35	GND	-	GND
36	H1-B-DATA-3-OD	IN	Odd head data signal 3(B)
37	GND	-	GND
38	H1-C-HE-4*	IN	Head heat enable signal 4(C)
39	GND	-	GND
40	H1-C-DATA-4-OD	IN	Odd head data signal 4(C)
41	GND	-	GND
42	H-DASH_LICC2	IN	Analogue switch A/D triggar signal
43	H1-DASLK_LICC2	IN	Head analogue switch clock signal
44	H1-DATA_LICC2	IN	Head analogue switch data signal
45	H1-DLD_LICC2	IN	Head analogue switch latch signal
46	GND	-	GND
47	COLOR_SNS	OUT	Multi sensor density detection signal
48	H1-DSOUT2	OUT	Head temperature output 2
49	H1-DSOUT1	OUT	Head temperature output 1
50	GND	-	GND

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J103 (Printhead)				
Pin Number	Signal name	IN/OUT	Function	
1	VH2	OUT	Power supply	
2	VH2	OUT	Power supply	
3	VH2	OUT	Power supply	

No. No. Function No. Function Fu	J103 (Printhead))		
H.HP.DATA-DRY			IN/OUT	Function
D. ASIC SIA	4	VHT12	OUT	Head Transistor drive Power supply
1.	5	H1-F-DATA-10-EV	OUT	Even head data signal 10(F)
H.V. OUT	6	IO_ASIC_SDA	IN/OUT	EEPROMcontrol signal (data)
Part H. H. C. DilAt No. Head Discover signal (C)	7	IO_ASIC_SCL	OUT	EEPROMcontrol signal (clock)
10	8	H3V_1	OUT	Power supply (+3V)
No. No.	9	H1-C-DIA1	IN	Head DI sensor signal 1(C)
13	10	/H1-A-HE-1	OUT	Head heat enable signal 8(E)
14	11	VH1	OUT	Power supply
15	12	VH1	OUT	Power supply
15	13	VH1	OUT	Power supply
	14	VH2	OUT	Power supply
HI-FillE-II	15	VH2	OUT	Power supply
Read Diseasons signal (E)	16	H1-E-DATA-9-OD	OUT	Odd head data signal 9(E)
H.D.DAI	17	/H1-F-HE-11	OUT	Head heat enable signal 11(F)
Description Description	18	H1-E-DIA1	IN	Head DI sensor signal 1(E)
13	19	H1-D-DIA1	IN	Head DI sensor signal 1(D)
H1-B-DATA-3-EV	20	H3V_1	OUT	Power supply
H1-A-DATA-0-EV	21	H3V_1	OUT	Power supply
Hi B-HE-2	22	H1-B-DATA-3-EV	OUT	Even head data signal 3(B)
25	23	H1-A-DATA-0-EV	OUT	Even head data signal 0(A)
26	24	/H1-B-HE-2	OUT	9 , ,
	25	VH1	OUT	Power supply
HH-E-BH-S	26	VH1	OUT	Power supply
29	27	H1-D-DIA2	IN	Head DI sensor signal 2(D)
10	28	/H1-E-HE-8	OUT	Head heat enable signal 8(E)
1	29	H1-E-DIA2	IN	Head DI sensor signal 2(E)
132	30	H1-F-DIA2	IN	Head DI sensor signal 2(F)
33	31	/H1-E-HE-9	OUT	Head heat enable signal 9(E)
HI-C-DATA-4-EV	32	H1-D-DATA-7-EV	OUT	Even head data signal 7(D)
35	33	/H1-D-HE-6	OUT	
36	34	H1-C-DATA-5-OD	OUT	Odd head data signal 5(C)
137	35	H1-C-DATA-4-EV	OUT	Even head data signal 4(C)
18	36	H1-A-DATA-1-EV	OUT	Even head data signal 1(A)
MI-C-HE-4	37	H1-A-DIA2	IN	Head DI sensor signal 2(A)
HI-D-DATA-7-OD	38	H1-B-DIA2	IN	Head DI sensor signal 2(B)
HI-E-DATA-8-OD	39	/H1-C-HE-4	OUT	Head heat enable signal 4(C)
HI-F-HE-10	40	H1-D-DATA-7-OD	OUT	Odd head data signal 7(D)
H1-F-DATA-11-EV	41	H1-E-DATA-8-OD	OUT	Odd head data signal 8(E)
HI-E-DATA-8-EV OUT Even head data signal 8(F)	42	/H1-F-HE-10	OUT	Head heat enable signal 10(F)
45	43	H1-F-DATA-11-EV	OUT	9 , ,
Hi - C - DIA2	44	H1-E-DATA-8-EV	OUT	
47 H1-C-DATA-5-EV OUT Even head data signal 5(C) 48 H1-B-DIA1 IN Head DI sensor signal 1(B) 49 /H1-A-HE-0 OUT Head heat enable signal 0(A) 50 H1-B-DATA-2-OD OUT Odd head data signal 2(B) 51 H1-B-DATA-3-OD OUT Odd head data signal 3(B) 52 H1-C-DATA-4-OD OUT Odd head data signal 4(C) 53 GND - GND 54 GND - GND 55 GND - GND 56 H1-F-DATA-11-OD OUT Odd head data signal 11(F) 57 H1-E-DATA-9-EV OUT Even head data signal 9(E) 58 GND - GND 59 H1-D-DATA-6-OD OUT Odd head data signal 6(D) 60 /H1-C-HE-5 OUT Head heat enable signal 3(B) 62 H1-A-DATA-1-OD OUT Odd head data signal 1(A) 63 H1-A-DATA-1-OD OUT Odd head data signal 1(A) 64 <td>45</td> <td>H1-D-DATA-6-EV</td> <td>OUT</td> <td>Even head data signal 6(D)</td>	45	H1-D-DATA-6-EV	OUT	Even head data signal 6(D)
48 H1-B-DIA1 IN Head DI sensor signal 1(B) 49 /H1-A-HE-0 OUT Head heat enable signal 0(A) 50 H1-B-DATA-2-OD OUT Odd head data signal 2(B) 51 H1-B-DATA-3-OD OUT Odd head data signal 3(B) 52 H1-C-DATA-4-OD OUT Odd head data signal 4(C) 53 GND - GND 54 GND - GND 55 GND - GND 56 H1-F-DATA-11-OD OUT Odd head data signal 11(F) 57 H1-E-DATA-9-EV OUT Even head data signal 9(E) 58 GND - GND 59 H1-D-DATA-6-OD OUT Odd head data signal 6(D) 60 /H1-C-HE-5 OUT Head heat enable signal 3(B) 61 /H1-B-HE-3 OUT Head heat enable signal 1(A) 62 H1-A-DIA1 IN Head DI sensor signal 1(A) 63 H1-A-DATA-1-OD OUT Odd head data signal 1(A) 64	46	H1-C-DIA2	IN	Head DI sensor signal 2(C)
49 /H1-A-HE-0 OUT Head heat enable signal 0(A) 50 H1-B-DATA-2-OD OUT Odd head data signal 2(B) 51 H1-B-DATA-3-OD OUT Odd head data signal 3(B) 52 H1-C-DATA-4-OD OUT Odd head data signal 4(C) 53 GND - GND 54 GND - GND 55 GND - GND 56 H1-F-DATA-11-OD OUT Odd head data signal 11(F) 57 H1-E-DATA-9-EV OUT Even head data signal 9(E) 58 GND - GND 59 H1-D-DATA-6-OD OUT Odd head data signal 6(D) 60 /H1-C-HE-5 OUT Head heat enable signal 3(B) 62 H1-A-DIA1 IN Head heat enable signal 1(A) 63 H1-A-DATA-1-OD OUT Odd head data signal 1(A) 64 GND - GND 65 GND - GND 66 GND - GND </td <td>47</td> <td>H1-C-DATA-5-EV</td> <td>OUT</td> <td></td>	47	H1-C-DATA-5-EV	OUT	
50 H1-B-DATA-2-OD OUT Odd head data signal 2(B) 51 H1-B-DATA-3-OD OUT Odd head data signal 3(B) 52 H1-C-DATA-4-OD OUT Odd head data signal 4(C) 53 GND - GND 54 GND - GND 55 GND - GND 56 H1-F-DATA-11-OD OUT Odd head data signal 11(F) 57 H1-E-DATA-9-EV OUT Even head data signal 9(E) 58 GND - GND 59 H1-D-DATA-6-OD OUT Odd head data signal 6(D) 60 /H1-C-HE-5 OUT Head heat enable signal 5(C) 61 /H1-B-HE-3 OUT Head heat enable signal 3(B) 62 H1-A-DIA1 IN Head DI sensor signal 1(A) 63 H1-A-DATA-1-OD OUT Odd head data signal 1(A) 64 GND - GND 65 GND - GND 66 GND - GND <td>48</td> <td>H1-B-DIA1</td> <td>IN</td> <td></td>	48	H1-B-DIA1	IN	
51 H1-B-DATA-3-OD OUT Odd head data signal 3(B) 52 H1-C-DATA-4-OD OUT Odd head data signal 4(C) 53 GND - GND 54 GND - GND 55 GND - GND 56 H1-F-DATA-11-OD OUT Odd head data signal 11(F) 57 H1-E-DATA-9-EV OUT Even head data signal 9(E) 58 GND - GND 59 H1-D-DATA-6-OD OUT Odd head data signal 6(D) 60 /H1-C-HE-5 OUT Head heat enable signal 3(B) 62 H1-A-DIA1 IN Head heat enable signal 1(A) 63 H1-A-DATA-1-OD OUT Odd head data signal 1(A) 64 GND - GND 65 GND - GND 66 GND - GND 67 GND - GND	49	/H1-A-HE-0	OUT	5 , ,
52 H1-C-DATA-4-OD OUT Odd head data signal 4(C) 53 GND - GND 54 GND - GND 55 GND - GND 56 H1-F-DATA-11-OD OUT Odd head data signal 11(F) 57 H1-E-DATA-9-EV OUT Even head data signal 9(E) 58 GND - GND 59 H1-D-DATA-6-OD OUT Odd head data signal 6(D) 60 /H1-C-HE-5 OUT Head heat enable signal 3(B) 62 H1-B-HE-3 OUT Head heat enable signal 1(A) 63 H1-A-DIAI IN Head DI sensor signal 1(A) 64 GND - GND 65 GND - GND 66 GND - GND 67 GND - GND	50	H1-B-DATA-2-OD	OUT	
53 GND - GND 54 GND - GND 55 GND - GND 56 H1-F-DATA-11-OD OUT Odd head data signal 11(F) 57 H1-E-DATA-9-EV OUT Even head data signal 9(E) 58 GND - GND 59 H1-D-DATA-6-OD OUT Odd head data signal 6(D) 60 /H1-C-HE-5 OUT Head heat enable signal 5(C) 61 /H1-B-HE-3 OUT Head heat enable signal 3(B) 62 H1-A-DIA1 IN Head DI sensor signal 1(A) 63 H1-A-DATA-1-OD OUT Odd head data signal 1(A) 64 GND - GND 65 GND - GND 66 GND - GND 67 GND - GND		H1-B-DATA-3-OD	OUT	
54 GND - GND 55 GND - GND 56 H1-F-DATA-11-OD OUT Odd head data signal 11(F) 57 H1-E-DATA-9-EV OUT Even head data signal 9(E) 58 GND - GND 59 H1-D-DATA-6-OD OUT Odd head data signal 6(D) 60 /H1-C-HE-5 OUT Head heat enable signal 3(C) 61 /H1-B-HE-3 OUT Head heat enable signal 3(B) 62 H1-A-DIA1 IN Head DI sensor signal 1(A) 63 H1-A-DATA-1-OD OUT Odd head data signal 1(A) 64 GND - GND 65 GND - GND 66 GND - GND 67 GND - GND	52	H1-C-DATA-4-OD	OUT	Odd head data signal 4(C)
55 GND - GND 56 H1-F-DATA-11-OD OUT Odd head data signal 11(F) 57 H1-E-DATA-9-EV OUT Even head data signal 9(E) 58 GND - GND 59 H1-D-DATA-6-OD OUT Odd head data signal 6(D) 60 /H1-C-HE-5 OUT Head heat enable signal 5(C) 61 /H1-B-HE-3 OUT Head heat enable signal 3(B) 62 H1-A-DIA1 IN Head DI sensor signal 1(A) 63 H1-A-DATA-1-OD OUT Odd head data signal 1(A) 64 GND - GND 65 GND - GND 66 GND - GND 67 GND - GND	53	GND	-	GND
56 H1-F-DATA-11-OD OUT Odd head data signal 11(F) 57 H1-E-DATA-9-EV OUT Even head data signal 9(E) 58 GND - GND 59 H1-D-DATA-6-OD OUT Odd head data signal 6(D) 60 /H1-C-HE-5 OUT Head heat enable signal 5(C) 61 /H1-B-HE-3 OUT Head heat enable signal 3(B) 62 H1-A-DIA1 IN Head DI sensor signal 1(A) 63 H1-A-DATA-1-OD OUT Odd head data signal 1(A) 64 GND - GND 65 GND - GND 66 GND - GND 67 GND - GND	54	GND	_	GND
ST	55	GND	-	GND
58 GND - GND 59 H1-D-DATA-6-OD OUT Odd head data signal 6(D) 60 /H1-C-HE-5 OUT Head heat enable signal 5(C) 61 /H1-B-HE-3 OUT Head heat enable signal 3(B) 62 H1-A-DIA1 IN Head DI sensor signal 1(A) 63 H1-A-DATA-1-OD OUT Odd head data signal 1(A) 64 GND - GND 65 GND - GND 66 GND - GND 67 GND - GND	56	H1-F-DATA-11-OD	OUT	Odd head data signal 11(F)
59 H1-D-DATA-6-OD OUT Odd head data signal 6(D) 60 /H1-C-HE-5 OUT Head heat enable signal 5(C) 61 /H1-B-HE-3 OUT Head heat enable signal 3(B) 62 H1-A-DIA1 IN Head DI sensor signal 1(A) 63 H1-A-DATA-1-OD OUT Odd head data signal 1(A) 64 GND - GND 65 GND - GND 66 GND - GND 67 GND - GND	57	H1-E-DATA-9-EV	OUT	Even head data signal 9(E)
60 /H1-C-HE-5 OUT Head heat enable signal 5(C) 61 /H1-B-HE-3 OUT Head heat enable signal 3(B) 62 H1-A-DIA1 IN Head DI sensor signal 1(A) 63 H1-A-DATA-1-OD OUT Odd head data signal 1(A) 64 GND - GND 65 GND - GND 66 GND - GND 67 GND - GND	58	GND	-	GND
61 /H1-B-HE-3 OUT Head heat enable signal 3(B) 62 H1-A-DIA1 IN Head DI sensor signal 1(A) 63 H1-A-DATA-1-OD OUT Odd head data signal 1(A) 64 GND - GND 65 GND - GND 66 GND - GND 67 GND - GND	59	H1-D-DATA-6-OD	OUT	Odd head data signal 6(D)
62 H1-A-DIA1 IN Head DI sensor signal 1(A) 63 H1-A-DATA-1-OD OUT Odd head data signal 1(A) 64 GND - GND 65 GND - GND 66 GND - GND 67 GND - GND	60	/H1-C-HE-5	OUT	5
63 H1-A-DATA-1-OD OUT Odd head data signal 1(A) 64 GND - GND 65 GND - GND 66 GND - GND 67 GND - GND	61	/H1-B-HE-3	OUT	Head heat enable signal 3(B)
64 GND - GND 65 GND - GND 66 GND - GND 67 GND - GND	62	H1-A-DIA1	IN	Head DI sensor signal 1(A)
65 GND - GND 66 GND - GND 67 GND - GND	63	H1-A-DATA-1-OD	OUT	Odd head data signal 1(A)
66 GND - GND 67 GND - GND	64	GND	-	GND
67 GND - GND	65	GND	_	GND
	66	GND	-	GND
68 H1-F-DATA-10-OD OUT Odd head data signal 10(F)	67	GND	-	GND
	68	H1-F-DATA-10-OD	OUT	Odd head data signal 10(F)

J103 (Printhead	103 (Printhead)			
Pin Number	Signal name	IN/OUT	Function	
69	H1-F-DIA1	IN	Head DI sensor signal 1(F)	
70	/H1-D-HE-7	OUT	Head heat enable signal 7(D)	
71	GND	-	GND	
72	H1_CLK	OUT	Head data clock signal	
73	/H1_LT	OUT	Head data latch signal	
74	H1-B-DATA-2-EV	OUT	Even head data signal 2(B)	
75	H1-A-DATA-0-OD	OUT	Odd head data signal 0(A)	
76	GND	-	GND	
77	GND	-	GND	
78	GND	-	GND	

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J201 (Connect t	[201 (Connect to Main controller PCB J3401)			
Pin Number	Signal name	IN/OUT	Function	
1	VH	IN	Power supply (+21.5V)	
2	VH	IN	Power supply (+21.5V)	
3	VH	IN	Power supply (+21.5V)	
4	VHGND	-	GND	
5	VH	IN	Power supply (+21.5V)	
6	VH	IN	Power supply (+21.5V)	
7	VH	IN	Power supply (+21.5V)	
8	VH	IN	Power supply (+21.5V)	
9	VH	IN	Power supply (+21.5V)	
10	VH	IN	Power supply (+21.5V)	
11	VH	IN	Power supply (+21.5V)	
12	VH	IN	Power supply (+21.5V)	
13	H5V	IN	Power supply (+5V)	
14	H5V	IN	Power supply (+5V)	
15	VHGND	-	GND	
16	H3V	IN	Power supply (+3V)	
17	H3V	IN	Power supply (+3V)	
18	VHGND	-	GND	
19	VH	IN	Power supply (+21.5V)	
20	VH	IN	Power supply (+21.5V)	
21	VH_MONI1	OUT	VH control signal	
22	VHGND	-	GND	
23	VHGND	-	GND	
24	VHGND	-	GND	
25	VHGND	-	GND	

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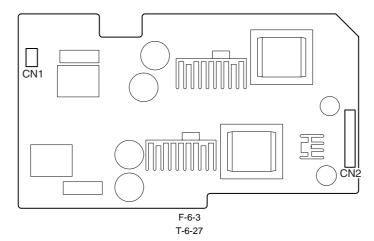
J202 (Linear end	J202 (Linear encoder sensor)				
Pin Number	Signal name	IN/OUT	Function		
1	ENCODER_B	IN	Carriage encoder output signal B		
2	GND	-	GND		
3	ENCODER_A	IN	Carriage encoder output signal A		
4	SNS5V	OUT	Power supply (+5V)		

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J501 (Multi sens	[501 (Multi sensor)				
Pin Number	Signal name	IN/OUT	Function		
1	SNS3.3V	OUT	Power supply (+3.3V)		
2	GND	-	GND		
3	IO-ASIC_SCL	IN/OUT	Head ROM control signal (clock)		
4	IO-ASIC_SDA	IN/OUT	Head ROM control signal (data)		
5	GAP_SNS1	IN	Multi sensor head height (GAP) detection signal 1		
6	GAP_SNS2	IN	Multi sensor head height (GAP) detection signal 2		
7	COLOR_SNS	IN	Multi sensor density detection signal		
8	EDGE_SNS	IN	Multi sensor paper edge detection signal		
9	GND	-	GND		
10	SNS5V	OUT	Power supply (+5V)		
11	THERMISTOR	-	N.C		
12	GND	-	GND		

6.2.3 Power supply

iPF765 / iPF760 / iPF750 / iPF755



CN1				
Pin Number	Signal name	IN/OUT	Function	
1	AC(H)	-	Power supply (AC120V or AC230V)	
2	AC(N)	-	Power supply (AC120V or AC230V)	

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Pin Number	Signal name	IN/OUT	Function
1	PW_CONT	IN	Normal/power saving switch signal
2	VM(+32V)	OUT	Power supply (+32V)
3	VM(+32V)	OUT	Power supply (+32V)
4	VMGND	-	GND
5	VMGND	-	GND
6	VH(+32V)	OUT	Power supply (+32V)
7	VH(+32V)	OUT	Power supply (+32V)
8	VHGND	-	GND
9	VHGND	-	GND
10	VM_UNIT_PW_ENB	IN	VH power supply ON/OFF signal

6.3 Version Up

6.3.1 Firmware Update Tool

iPF765 / iPF760 / iPF750 / iPF755

Use of the following tools allows you to update the firmware of the main controller incorporated in the printer from the computer.

- imagePROGRAF Firmware Update Tool (for user)
- L Printer Service Tool (for service)

1. imagePROGRAF Firmware Update Tool

The imagePROGRAF Firmware Update Tool is the tool for user.

Procedure:

- 1) Start the imagePROGRAF Firmware Update Tool.
- 2) Make sure that the printer is the online mode.
- 3) Transfer the firmware data to the printer according to the instructions shown on the LCD of the operation panel.
- 4) The message shown on the LCD of the operation panel changes and the firmware is updated automatically.
- 5) After having updated the firmware, the computer will restart.

Connection method with the computer:

USB, Network

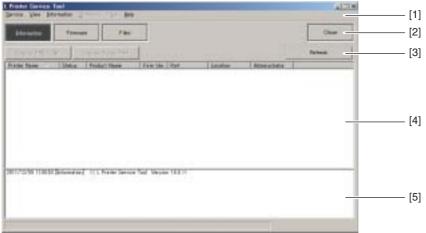
2. L Printer Service Tool This tool has the following functions.

- The update function of the printer firmware The display function of the printer information

Connection method with the computer:

USB, Network

a) Screen description



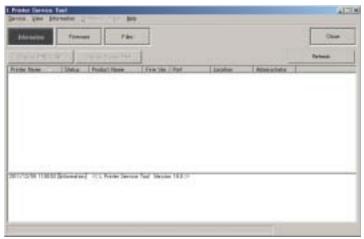
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- [1] Main menu
- Choose the menu to execute.
- [2] Main menu button
- Choose the menu to execute between the [Information] and the [Firmware] and the [Files].
- [3] Sub menu button
- The sub menu button is displayed according to the menu choosed by main menu or main menu button.
- [4] Printer information area
- The information of the printer connected with computer is shown according to the choosed menu.
- [5] Message area
- The message of executed menu is shown. And the message is saved as the text file when choosing the "[Service]-[Save Message]" of the main menu.

b) Operation

1) Showing the information of the printer
The data of PRINT INF or status print is shown.

 $(1) \ Choose \ the \ [Information] \ of \ the \ main \ menu \ button \ or \ the \ "[Service]-[Information]" \ of \ the \ main \ menu.$



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(2) Choose the printer from the list shown to the printer information area.

MEMO:

- The list is refreshed when choosing the [Refresh] of the sub menu button or the "[View]-[Refresh]" of the main menu.
- The printer is searched according to the setting of the [Specify Search Range] dialogue box after choosing the "[View]-[Specify Search Range]" of the main menu to display the dialogue box. The five IP addresses at the maximum can register when searching by the IP address.



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- (3)-1 Choose the [Display PRINT INF] of the sub menu button or the "[Information]-[Display PRINT INF]" of the main menu when showing the PRINT INF. The data of PRINT INF is shown by the appointed application software.
- (3)-2 Choose the [Display Status Print] of the sub menu button or the "[Information]-[Display Status Print]" of the main menu when showing the Status Print. The data of Status Print is shown by the appointed application software.

MEMO:

- The application software used to show the data and the folder used to store the files can change by the "[Service]-[Setup]" of the main menu.



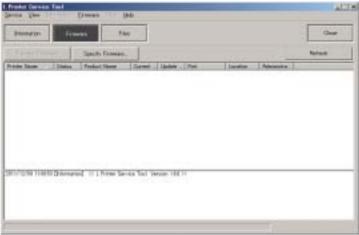
- [1] This menu can change the folder used to store the file.
 [2] This menu can change the application software used to show the data.
- The printer name can add by the "[Service]-[Add Printer]" of the main menu.



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2) Updating the firmware of the printer The firmware of printer can update according to the following procedure.

 $(1) \ Choose \ the \ [Firmware] \ of \ the \ main \ menu \ button \ or \ the \ "[Service]-[Firmware]" \ of \ the \ main \ menu.$



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(2) Choose the printer to update from the list of the printer shown to the printer information area.

MEMO:

- The printer list is refreshed when choosing the [Refresh] of the sub menu button or the "[View]-[Refresh]" of the main menu.
- The printer is searched according to the setting of the [Specify Search Range] dialogue box after choosing the "[View]-[Specify Search Range]" of the main menu to display the dialogue box. The five IP addresses at the maximum can register when searching by the IP address.



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(3) Choose the [Specify Firmware] of the sub menu button or the "[Firmware]-[Specify Firmware]" of the main menu. Specify the folder stored the file by the [Specify Firmware Folder] of the [Specify Firmware] dialogue box or specify the file by the [Specify Firmware File] of the dialogue box.



(4) Make sure that the printer is the online mode or the download mode.

The firmware of the printer is updated when choosing the [Transfer Firmware] of the sub menu button or the "[Firmware]-[Transfer Firmware]" of the main menu.

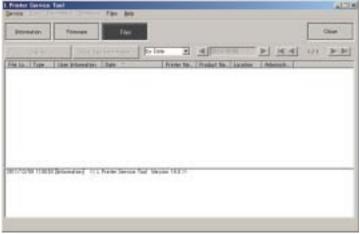
MEMO:

The Printer becomes the force transfer mode when choosing the "[Firmware]-[Force Transfer Mode]" of the main menu. Thereby, you can choose the [Transfer Firmware] without concerning the status of the printer.

3) Managing the information of the printer
The list of the PRINT INF or the status print gotten according to the procedure of "1) Showing the information of the printer" can manage.

(1) Choose the [Files] of the main menu button or the "[Service]-[Files]" of the main menu.

- The list of the PRINT INF or the status print gotten so far is shown in the printer information area.



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- (2) Choose the [Display] of the sub menu button or the "[Files]-[Display]" of the main menu after selecting the list that want to show in the printer information area. The multiple selection from the lists is possible.
- The data of the selected PRINT INF or status print is shown.

MEMO:

- The user information can set to the list after choosing the [Input User Information] of the sub menu button or the "[Files]-[Input User Information]" of the main menu. The input of max 511 characters is possible.
- In case of deleting the list, choose the "[Files]-[Delete Files]" of main menu after selecting the list which want to delete from the printer information area.

6.4 Service Tools

6.4.1 Tool List

iPF765 / iPF760 / iPF750 / iPF755

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General-purpose tools	Application
Long phillips scerewdriver	Inserting and removing screw
Phillips scerewdriver	Inserting and removing screw
Flat-head screwdriver	Removing the E-ring
Needle-nose pliers	Inserting and removing the spring parts
Hex key wrench	Inserting and removing hexagonal screws
Flat brush	Applying grease
Lint free paper	Wiping off ink
Rubber gloves	Preventing ink stains

Special-purpose tools	Application		
Grease FLOIL G-5000H (FY9-6022)	Applying to specified locations		
EU-1 (QY9-0037)	Soaking or applying to specified locations		
Cover Switch Tool (QY9-0103)	Pressing the cover switch		

Chapter 7 SERVICE MODE

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7.1 Service Mode

7.1.1 Service Mode Operation

iPF765 / iPF760 / iPF750 / iPF755

a) How to enter the Service mode

Enter service mode according to the following procedure:

- Turn off the printer power.
 Turn on the power while pressing the [Load] key and [Navigate] key.
 Keep pressing the above keys until "Initializing" is displayed.
 "S" appears at the top right of the display.

- 4) Press the ◀ key or ▶ key to choose the [Set./Adj. Menu] and press the [OK] key. "SERVICE MODE" appears in the menu list and the MESSAGE LED flashes.
- 5) Press the ★ key or ▼ key to choose "SERVICE MODE" and press the [OK] key.

 * Service mode is added to the [Set./Adj. Menu]. Service mode can be entered even when an error occurs (an error message is displayed) by turning off the power once and then pressing the above keys.

b) How to exit the Service mode

Turn off the printer.

c) Key operation in the service mode

- Selecting menus and paremeters: ◀ or ▶ key
- Going to the next lower-level menu: ▼ key
- Going to the previous higher-level menu: ▲ key Determining a selected menu or parameter:[OK] key

7.1.2 Map of the Service Mode

iPF765 / iPF760 / iPF750 / iPF755

The hierarchy of menus and parameters in the Service Mode is as shown below.

First Level	Second Level	Third Level	Fourth Level	Fifth Level	Sixth Level
DISPLAY	PRINTINF	YES/NO	: Select YES to print		
	SYSTEM	S/N			
		TYPE			
		LF TYPE	-		
		TMP	-		
		RH	-		
		SIZE LF	-		
		SIZE LF	-		
		SIZE CR	-		
		SIZE CR	-		
		AFTER INST	-		
	HEAD	S/N	-		
		LOT	-		
	INK	С	-		
	11.11		-		
		BK	-		
	WARNING	01	-		
	WARNING		-		
		20	_		
	ERROR	01	_		
	ERROR		-		
			_		
	****	20	4		
	JAM	01	4		
		05			
	INK CHECK	000 000			
I/O DISPLAY	I/O DISPLAY 1				
	I/O DISPLAY 2				
	I/O DISPLAY 3				
ADJUST	PRINT PATTERN	NOZZLE 1	: Press the [OK] button to execute		
		OPTICAL AXIS	: Press the [OK] button to execute		
		LF TUNING			
		LF TUNING 2	1		
	HEAD ADJ.	MANUAL HEAD ADJ	DETAIL	: Press the [OK] button to execute	
			BASIC	: Press the [OK] button to execute	
		ADJ. SETTING	A	A-1	: Adjustment value entry
				A-24	: Adjustment value entry
			F	F-1	: Adjustment value entry
			SAVE SETTINGS	YES/NO	
		RESET SETTINGS	YES/NO		
	NOZZLE CHK POS.	YES/NO			
	GAP CALIB.	YES/NO	1		
	CHANGE LF TYPE	0/1	1		
	CR REG	EXECUTE	YES/NO		
		RESET	YES/NO		
	CR MOTOR COG	YES/NO			

First Level	Second Level	Third Level	Fourth Level	Fifth Level
FUNCTION	CR UNLOCK	YES/NO		
	CR LOCK	YES/NO		
	PG CHECK	YES/NO		
	CR AUTO SCAN	YES/NO		
	CR SCAN COUNT	1	: Press the [OK] button to set	
		30	: Press the [OK] button to set	
	CR SCAN SIZE	1	: Press the [OK] button to set	
		5	: Press the [OK] button to set	
	CR SCAN SPEED	1	: Press the [OK] button to set	
		5	: Press the [OK] button to set	
	STIRRING CHECK	YES/NO		
	OPT SENS OUTPUT	YES	OUTPUT0	
			OUTPUT6	
		NO		
	NOZZLE CHK	YES/NO		
	NOZZLE INF	С		
		BK		
	MEMORY CHK	DDR		
		EEP		
	HEAD CNT CHK	YES/NO		
REPLACE	CUTTER	YES/NO		

First Level	Second Level	Third Level	Fourth Level	Fifth Level
COUNTER	PRINTER	LIFE TTL		
		LIFE ROLL	-	
		LIFE CUTSHEET	-	
		LIFE A	-	
			-	
		LIFE F	-	
		POWER ON	-	
		W-INK	-	
		CUTTER	-	
		WIPE	-	
		SLEEP ON	1	
	CARRIAGE	PRINT	1	
		DRIVE	1	
		CR COUNT	•	
		CR DIST.	1	
		PRINT COUNT	•	
	PURGE	CLN-A-1		
		CLN-A-2		
		CLN-A-3		
		CLN-A-6		
		CLN-A-7		
		CLN-A-10		
		CLN-A-11		
		CLN-A-15		
		CLN-A-16		
		CLN-A-17		
		CLN-A-TTL		
		CLN-M-1		
		CLN-M-4		
		CLN-M-5		
		CLN-M-6		
		CLN-M-TTL		
	CLEAR	CLR-INK CONSUME		
		CLR-MTC EXC.		
		CLR-HEAD EXC.		
		CLR CR-1 EXC.		
		CLR CR-2 EXC.		
		CLR CR-3 EXC.		
		CLR CR-4 EXC.		
		CLR CR-5 EXC.		
		CLR SP-1 EXC.		
		CLR PG-1 EXC.		
		CLR HMa-1 EXC.		
		CLR MT-1 EXC.		
		CLR PL-1 EXC.		
		CLR Mi-1 EXC.		
		CLR CT-1 EXC.		
		CLR WF-1 EXC.		
		CLR WF-2 EXC.		
		CLR-FACTORY CNT.		

First Level	Second Level	Third Level	Fourth Level	Fifth Level
COUNTER	EXCHANGE	MTC EXC.		
		HEAD EXC.		
		BOARD EXC.(M/B)		
		CR-1 EXC.		
		CR-2 EXC.		
		CR-3 EXC.		
		CR-4 EXC.		
		CR-5 EXC.		
		SP-1 EXC.		
		PG-1 EXC.		
		HMa-1 EXC.		
		MT-1 EXC.		
		PL-1 EXC.		
		Mi-1 EXC.		
		CT-1 EXC.		
		WF-1 EXC.		
		WF-2 EXC.		
	DETAIL-CNT	MOVE PRINTER		
		N-INK CHK(C)		
		N-INK CHK(BK)		
		MEDIACONFIG-CNT		
	INK-USE1	INK-USE1(C)		
		INK-USE1(BK)		
		INK-USE1(TTL)		
		N-INK-USE1(C)		
		N-INK-USE1(BK)		
		N-INK-USE1(TTL)		
	INK-USE2	INK-USE2(C)		
		INK-USE2(BK)		
		INK-USE2(TTL)		
		N-INK-USE2(C)		
		N-INK-USE2(BK)		
		N-INK-USE2(TTL)		
	INK-EXC	INK-EXC(C)		
		INK-EXC(BK)		
		INK-EXC(TTL)		
		N-INK-EXC(C)		
		N-INK-EXC(BK)		
		N-INK-EXC(TTL)		

First Level	Second Level	Third Level	Fourth Level	Fifth Level
COUNTER	MEDIA 1	NAME		
		TTL		
		TTL		
		ROLL		
		ROLL		
		CUTSHEET		
		CUTSHEET		
	MEDIA 7	NAME		
		TTL		
		TTL		
		ROLL		
		ROLL		
		CUTSHEET		
		CUTSHEET		
	MEDIA OTHER	NAME		
		TTL		
		TTL		
		ROLL		
		ROLL		
		CUTSHEET		
		CUTSHEET		
	MEDIASIZE1 ROLL	P-SQ 36-44		
		P-SQ 36-44		
		P-SQ 24-36		
		P-SQ 24-36		
		P-SQ 17-24		
		P-SQ 17-24		
		P-SQ -17		
		P-SQ -17		
		P-CNT 36-44		
		P-CNT 24-36		
		P-CNT 17-24		
		P-CNT -17		
	MEDIASIZE2 ROLL	D-SQ 36-44		
		D-SQ 36-44		
		D-SQ 24-36		
		D-SQ 24-36		
		D-SQ 17-24	_	
		D-SQ 17-24	_	
		D-SQ -17		
		D-SQ -17	_	
		D-CNT 36-44	_	
		D-CNT 24-36		
		D-CNT 17-24		
		D-CNT -17	1	

First Level	Second Level	Third Level	Fourth Level	Fifth Level
COUNTER	MEDIASIZE1 CUT	P-SQ 36-44		
		P-SQ 36-44		
		P-SQ 24-36		
		P-SQ 24-36		
		P-SQ 17-24		
		P-SQ 17-24		
		P-SQ -17		
		P-SQ -17		
		P-CNT 36-44		
		P-CNT 24-36		
		P-CNT 17-24		
		P-CNT -17		
	MEDIASIZE2 CUT	D-SQ 36-44		
		D-SQ 36-44		
		D-SQ 24-36		
		D-SQ 24-36		
		D-SQ 17-24		
		D-SQ 17-24		
		D-SQ -17		
		D-SQ -17		
		D-CNT 36-44		
		D-CNT 24-36		
		D-CNT 17-24		
		D-CNT -17		
	HEAD DOT CNT. 1	С		
		BK		
		TTL		
	HEAD DOT CNT. 2	С		
		BK		
		TTL		
	PARTS CNT.	COUNTER CR-1	OK/W1/W2/E	
			1:	
			2:	
			3:	-
			4:	
		COUNTER WF-2	OK/W1/W2/E	1
			1:	1
			2:	1
			3:	
			4:	1

First Level	Second Level	Third Level	Fourth Level	Fifth Level	Sixth Level
SETTING	Pth	ON/OFF			
	RTC	DATE	yyyy/mm/dd	1	
		TIME	hh:mm	1	
	PV AUTO JUDGE	ON/OFF			
	NETWORK	CERTIFICATE	CA-CERTIFICATE	VALIDITY	yyyy/mm/dd
	E-RDS	E-RDS SWITCH	ON/OFF		
		UGW-ADDRESS	http://XXX	1	
		UGW-PORT	XXXXX		
		COM-TEST	YES		
		COM-LOG			
	HEAD DOT INF	ON/OFF			
INITIALIZE	WARNIG	: Press the [OK] button to clear			
	ERROR	: Press the [OK] button to clear			
	ADJUST	: Press the [OK] button to clear			
	W-INK	: Press the [OK] button to clear			
	CARRIAGE	: Press the [OK] button to clear			
	PURGE	: Press the [OK] button to clear			
	INK-USE CNT	: Press the [OK] button to clear			
	W-INK-CHG CNT	: Press the [OK] button to clear			
	HEAD-CHG CNT	: Press the [OK] button to clear			
	HDD BOX PASS.	ALL FOLDERS	: Press the [OK] button to clear		
		FOLDER 1	: Press the [OK] button to clear		
				1	
		FOLDER 29	: Press the [OK] button to clear		
	PARTS-CHG CNT	PARTS CR ALL	: Press the [OK] button to clear		
				1	
		PARTS WF-2	: Press the [OK] button to clear		
Pz	PARTS COUNTER	PARTS CR ALL	: Press the [OK] button to clear		
				1	
		PARTS WF-2	: Press the [OK] button to clear		
	USER SETTEING	YES/NO		1	
	CA-KEY	YES/NO			
	ERDS-DAT	YES/NO	1		
	JOB LOG	YES/NO	1		

7.1.3 Details of Service Mode

iPF765 / iPF760 / iPF750 / iPF755

This section provides details of the Service mode menu.

Displays and prints the printer information.

Prints adjustment values in the User menu, [DISPLAY] and [COUNTER] parameters on A4-size or lager paper. When roll media is used, the layout is optimized according to the media width.

2) SYSTEM

Displays the printer information shown below.

Display	Description	Unit
S/N	Serial number of printer	-
TYPE	Type setting on main controller PCB * iPF765/760/755/750 is represented by 36".	-
LF TYPE	Feed roller type: 0 or 1	-
TMP	Ambient temperature	centigrade degrees
RH	Ambient humidity	%
SIZE LF	Detected size of loaded media (feed direction) 0 is always detected for the roll media.	mm/inch
SIZE CR	Detected size of loaded media (carriage scan direction)	mm/inch
AFTER INST.	Number of days since initial installation	Days

3) HEAD Displays the following EEPROM information of the printhead.

Display	Description
S/N	Serial number of printhead
LOT	Lot number of printhead

4) INK

Displays the numbers of days passed since installation of the following ink tanks.

Display	Description	Unit
BK	Number of days passed since the BK ink tank was installed	Days
MBK	Number of days passed since the MBK ink tank was installed	Days
MBK2	Number of days passed since the MBK ink tank was installed	Days
С	Number of days passed since the C ink tank was installed	Days
M	Number of days passed since the M ink tank was installed	Days
Y	Number of days passed since the Y ink tank was installed	Days

5) WARNING Displays the warning history (up to 20 events). The newest event has the smallest history number.

Displays the error history (up to 20 events). The newest event has the smallest history number.

7) JAM

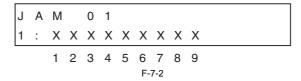
Displays log of jams that have occurred (up to five events). The newest event has the smallest history number.

Indicates the date and time of jam and error code. "0000" is displayed if there is no log.



Press the ▼ key to display detail information.

Press the \blacktriangleleft key or \blacktriangleright key to navigate among detail information display 1 to 4. Detail information display 1



Detail information display 2

2 : X X X X X X X X X

Detail information display 3

J A M 0 1 3 : X X X X F-7-4

Detail information display 4

J A M : X X X X X X X X

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Display	Description	LCD display contents
1	Jam type	1:Carriage error, 2:Jam, 3:Feed failure (delay), 4:Cut failure, 0:Unknown
2	Media	1:Roll media, 2:Cut sheet, 0:Unknown
3	Jam timing	1:Feed, 2:Print, 3:Eject, 0:Unknown
4	Media width detection	1:ON, 2:OFF, 0:Unknown
5	Head height	SL:1.0mm, L:1.3mm, M1:1.8mm, M2:2.0mm, M3:2.2mm, 0:Unknown
6	Platen shutter position	1:Fully close, 2:HP side only open, 3:1/4 open, 4:1/2 open, 5:3/4 open, 6:Fully open, 0:Unknown
7	Cut mode setting	1:User cut, 2:Eject cut, 3:Auto cut, 0:Unknown
8	Environment	Display Media Information Tool's environment settings A to F according to Temperature/Humidity Detection Sensor, 0:Unknown
9	Borderless printing setting	1:Bordered printing, 2:Borderless printing, 0:Unknown
10	Print mode	Display print mode, 0:Unknown
11	Media siz	Display media size, 0:Unknown
12	Media name	Display media name, 0:Unknown

8) INK CHECK
Displays the number of times the remaining ink level detection function was turned off, to accommodate refilled ink cartridges in the order of C, M, Y, MBK, MBK2 and BK.

- 0: Never 1: Executed at least once

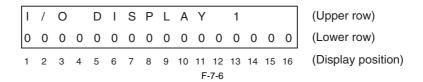
b) I/O DISPLAY

The status of each sensor and switch is shown in the display.

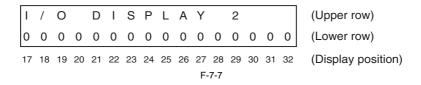
Sensor and switch status is shown in the display. ON: 1

OFF or not used: 0

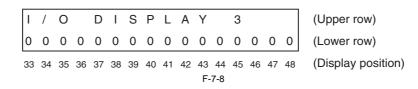
Screen 1



Screen 2



Screen 3



Screen 1, Screen 2 and Screen 3 are selectable with the ◀ and ▶ keys. These screens display the associated sensor status as listed in the table below.

Display position	Sensor name	LCD display contents
1	Pump cam sensor	0:Sensor ON, 1:Sensor OFF
2	Ink supply valve open/closed detection sensor (R)	0:Sensor OFF, 1:Sensor ON
3	(Not Used)	-
4	(Not Used)	-
5	(Not Used)	-
6	Lift cam sensor	0:Sensor ON, 1:Sensor OFF
7	Feed roller HP sensor	0:Sensor ON, 1:Sensor OFF
8	Upper cover lock switch	0:Cover close, 1:Cover open
9	(Not Used)	0:Cover open, 1:Cover close
10	Ink tank cover switch (R)	0:Cover open, 1:Cover close
11	Ink tank cover switch (L)	0:Cover open, 1:Cover close
12	(Not Used)	-
13	(Not Used)	
14	(Not Used)	
15	(Not Used)	
16	` ′	-
	(Not Used)	-
17	(Not Used)	-
18	(Not Used)	-
19	(Not Used)	-
20	Cutter HP sensor	0:Sensor ON, 1:Sensor OFF
21	Cutter left position sensor	0:Sensor ON, 1:Sensor OFF
22	Carriage HP sensor	0:Sensor ON, 1:Sensor OFF
23	(Not Used)	-
24	Paper detection sensor	0:Media loaded, 1:No media
25	(Not Used)	-
26	(Not Used)	-
27	(Not Used)	-
28	(Not Used)	-
29	(Not Used)	-
30	Ink supply valve open/closed detection sensor (L)	0:Sensor OFF, 1:Sensor ON
31	Air passage valve open/closed detection sensor (R)	0:Sensor ON, 1:Sensor OFF
32	Air passage valve open/closed detection sensor (L)	0:Sensor ON, 1:Sensor OFF
33	Release lever lock sensor	0:Sensor ON, 1:Sensor OFF
34	Pinch roller pressure release switch	0:Realeased, 1:Pressured
35	Shutter HP sensor	0:Sensor OFF, 1:Sensor ON
36	(Not Used)	-
37	(Not Used)	-
38	(Not Used)	-
39	(Not Used)	-
40	(Not Used)	-
41	Flexible cable connection detection (J3601 pin no.50)	0:Connect, 1:Disconnect
42	Flexible cable connection detection (J3601 pin no.1)	0:Connect, 1:Disconnect
43	Flexible cable connection detection (J3602 pin no.50)	0:Connect, 1:Disconnect
44	Flexible cable connection detection (J3602 pin no.1)	0:Connect, 1:Disconnect
45	(Not Used)	-
46	(Not Used)	-
47	(Not Used)	-
48	(Not Used)	-
	1' '	1

c) ADJUST

Performs adjustments and prints the adjustment and check patterns necessary for adjusting the printer parts.

1) PRINT PATTERN

Display	Description
NOZZLE 1	Prints the nozzle check pattern by single direction/ single pass without using the non-discharging back up. It is used to check for the non-discharging nozzles. - Media size: A4 - Media type: any
OPTICAL AXIS	Prints the pattern and adjusts the optical axis of the multi sensor. For details, refer to "Disassembly/Reassembly" > "Adjustment and Setup Items" > "Procedure after replacing the carriage unit or multi sensor". - Media type: photo glossy paper
LF TUNING	Carry out automatic correction of eccentricity of the feed roller. For more details, refer to "Disassembly/Reassembly" > "Adjustment and Setup Items" > "Procedure after replacing the feed roller and reed roller encoder". - The media type is "gloss photo paper".
LF TUNING 2	Carry out manual correction of eccentricity of the feed roller. For more details, refer to "Disassembly/Reassembly" > "Adjustment and Setup Items" > "Procedure after replacing the feed roller and reed roller encoder". - The media type is "gloss photo paper".

2) HEAD ADJ.

Set or initialize the registration adjustment values of each printheads.

Display Description			Description
MANUAL HEAD ADJ	DETAIL		Prints the detail patterns for the manual head adjustment. After printing, the mode will change to [ADJ. SETTING]. Check the printed patterns and input the set values.
BAS			Prints the basic patterns for the manual head adjustment. After printing, the mode will change to [ADJ. SETTING]. Check the printed patterns and input the set values.
ADJ. SETTING	A to F	A-1 to F-1	This mode is to input the registration adjustment values. It is possible to return the values to the former one by printing the status print before changing the value.
	SAVE SETTINGS		Save the registration adjustment values that has been input.
RESET SETTINGS	RESET SETTINGS		Initialize the registration adjustment values (to 0).

3) NOZZLE CHK POS.
This mode is for adjusting the optical axis of the head management sensor. For details, refer to "Disassembly/Reassembly" > "Adjustment and Setup Items" > "Procedure after replacing the head management sensor".

4) GAP CLIB. This mode measures the gap between the printhead and media by using the multi sensor and corrects the calibration value.

5) CHANGE LF TYPE Change the type of the feed roller. 0: Old feed roller

1: New feed roller

6) CR REG

Executes automatic head adjustment.

Make this adjustment if the resistration remains partially misregistered after user-mode head adjustment.

EXECUTE: Execute automatic head adjustment. RESET: Reset the resistration adjustment value (0).

- Applicable media size is A2 (17inch) or larger.
- Applicable media type is photo glossy paper

If an error message appears when performing CR REG, check the following. Replace the multi sensor if the error reoccurs after checking and performing CR REG again. <CHECK>

- 1. Check for non-discharging of the printhead and dirty media, and replace the printhead and/or media if necessary.

 2. Perform [Head Cleaning A].

 3. Perform [Head Posi. Adj.]-[Auto].

7) CR MOTOR COG

Adjust the carriage motor rotation. Perform in the following cases:

- When replacing the carriage belt.
 When replacing the carriage motor or linear encoder sensor.
- When there is excessive load on the carriage (such as when jamming)

If the following error message appears when performing CR MOTOR COG, check that carriage and carriage belt are installed properly and clean the rail shaft. If the error still occurs, replace the carriage motor.



d) FUNCTION

1) CR UNLOCK

Únlocks the carriage. When CR UNLOCK is performed, the carriage lock pin is lowered and the carriage can be moved.

2) CR LOCK

Locks the carriage.

When CR LOCK is performed, the carriage lock pin is raised and the carriage is locked.

3) PG CHECK

Initializes the purge unit.

4) CR AUTO SCAN

The carriage scans

When CR AUTO SCAN is performed, the carriage scans with the count, width, and speed set with CR SCAN COUNT/CR SCAN SIZE/CR SCAN SPEED.

5) CR SCAN COUNT

Sets the number of scans (1 to 30) to be performed with CR AUTO SCAN.

Default: 1

6) CR SCAN SIZE

Sets the scan width to be performed with CR AUTO SCAN.

1:A4, 2:A3, 3:A2, 4:24inch, 5:36inch

Default: 5

7) CR SCAN SPEED

Sets the speed of the scan to be performed with CR AUTO SCAN. 1:12.5, 2:25, 3:33.3, 4:40, 5:50 (Unit: inch/sec)

Default: 1

MEMO:

The settings made with CR SCAN COUNT, CR SCAN SIZE, CR SCAN SPEED are reset to default when the power is reset.

8) STIRRING CHECK

Agitates the ink tank.

9) OPT SENS OUTPUT

Displays the values (analog value) multi sensor detected from the media.

You can confirm the amount of margin the media has with the values read with the multi sensor and the status of the multi sensor by comparing the values with the threshold.

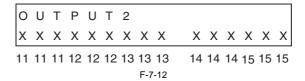
Press the ◀ key or ▶ key to navigate among OUTPUT 0 to 6 windows. $OUTPUT \ 0$

0	U	Т	Р	U	Т	0		х						
Х	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ
1	1	1	2	2	2	3	3	3	4	4	4	5	5	5
							F-7	'-10						

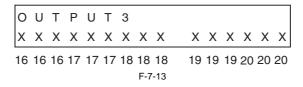
OUTPUT 1

OUTPUT1 X X X X X X X X XX X X X X X6 6 7 7 7 8 8 8 9 9 9 10 10 10

OUTPUT 2



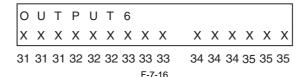
OUTPUT 3



OUTPUT 4

OUTPUT 5

OUTPUT 6



Display Description position Media edge (diffuse reflection) media output (including outside light) Media edge (diffuse reflection) outside light output (when LED is OFF) Media edge (diffuse reflection) platen output (excluding outside light) Media edge (diffuse reflection) gain Media edge (diffuse reflection) current value (Unit: X10mA) Media edge (regular reflection) media output (including outside light) Media edge (regular reflection) outside light output (when LED is OFF) Media edge (regular reflection) platen output (excluding outside light) Media edge (regular reflection) gain 10 Media edge (regular reflection) current value (Unit: X10mA) 11 GAP1 media output (including outside light) 12 GAP1 outside light output (when LED is OFF) 13 GAP1 platen output (excluding outside light) 14 GAP1 gain 15 GAP1 current value (Unit: X10mA) 16 GAP2 media output (including outside light) 17 GAP2 outside light output (when LED is OFF) 18 GAP2 platen output (excluding outside light) 19 GAP2 gain 20 GAP2 current value (Unit: X10mA) 21 Density (red) media output (including outside light) 22 Density (red) outside light output (when LED is OFF) 23 Density (red) platen output (excluding outside light) 24 Density (red) gain 25 Density (red) current value (Unit: X10mA) 26 Density (green) media output 27 Density (green) outside light output (including outside light) 28 Density (green) platen output (excluding outside light) 29 Density (green) gain 30 Density (green) current value (Unit: X10mA) 31 Density (blue) media output (including outside light) 32 Density (blue) outside light output (when LED is OFF) 33 Density (blue) platen output (excluding outside light) 34 Density (blue) gain Density (blue) current value (Unit: X10mA)

MEMO:

- Displays all "?" if "GAP CALIB" is not performed.
- If the value exceeds 1000, 999 is displayed.

1. Checking "OUTPUT 0" and "OUTPUT 1" when media (excluding clear film) is fed

Check whether the multi sensor performance has degraded or whether the media is compatible with the multi sensor.

When "Media edge (diffuse reflection) gain" and "Media edge (diffuse reflection) current value" are maximum values and "Media edge (diffuse reflection) media output" is 186 or less, an error occurs

Maximum value of "Media edge (diffuse reflection)" gain: 255 Maximum value of "Media edge (diffuse reflection)" current value: 320

When the multi sensor and media are normal, the following values are displayed:

	Media edge (diffuse reflection) gain	Media edge (diffuse reflection) current value	Media edge (diffuse reflection) media output
Plain paper	About 10-35	About 200	About 500-600
Glossy paper	About 8-25		
Tracing paper	About 30-100		

[Check 2]

Check whether the multi sensor performance has degraded or whether the media is compatible with the multi sensor.

When the difference between "Media edge (diffuse reflection) gain" and "Media edge (diffuse reflection) platen output" is 100 or less, an error occurs. When the multi sensor and media are normal, the difference is about 300-600.

Check the effect of external diffuse light.

When the difference between "Media edge (diffuse reflection) external light output" and "Media edge (diffuse reflection) platen output" is 500 or more, the effect of diffuse light is judged as being great.

When the effect is normal, the difference is about 50-300.

Check whether the media is compatible.

When the result of "Media edge (regular reflection) gain"x"Media edge (regular reflection) current value" is five times as large as the result of "Media edge (diffuse reflection) gain"x"Media edge (diffuse reflection) current value", the media is judged as being incompatible with the multi sensor. If the media is compatible, the result is about 0.5 to 1.5 times for plain/glossy paper; about 1-3 times for tracing paper.

Check whether the media is compatible.

When the result of "Media edge (diffuse reflection) gain"x"Media edge (diffuse reflection) current value" is in one of the following, the media may be incompatible with the multi sensor.

- Nine or more times as large as that of plain paper (normally, 2000-7000)
- Ten or more times as large as that of glossy paper (normally, 1600-5000)
- Three or more times as large as that of tracing paper (normally, 6000-20000)

2. Checking "OUTPUT 0" when clear film is fed

Check whether the multi sensor performance has degraded or whether the media is compatible.

When the "Media edge (regular reflection) gain" and "Media edge (regular reflection) current value" are maximum values and "Media edge (regular reflection) media output" is 186 or less, an error occurs.

Maximum value of "media edge (regular reflection)" gain: 255

Maximum value of "media edge (regular reflection)" current value: 320

When the multi sensor and media are normal, the following values are displayed:

	Media edge (regular	Media edge (regular	Media edge (regular
	reflection) gain	reflection) current value	reflection) media output
Clear film	About 10-60	About 200	About 500-600

[Check 2]

Check whether the multi sensor performance has degraded or whether the media is compatible.

When the difference between "Media edge (regular reflection) gain" and "Media edge (regular reflection) platen output" is 100 or less, an error occurs. When the multi sensor and media are normal, the difference is about 250-500.

[Check 3]

Check the effect of external diffuse light.

When the difference between "Media edge (regular reflection) external light output" and "Media edge (regular reflection) platen output" is 500 or more, the effect of diffuse light is judged as being great.

When the effect is normal, the difference is about 50-300.

3. Checking "OUTPUT 2/OUTPUT 3" and "OUTPUT 4/OUTPUT 5/OUTPUT 6"

Check whether the multi sensor performance has degraded or whether the media is compatible.

When "GAP gain" and "GAP current value" are maximum values and "GAP media output" is 93 or less, an error occurs.

Maximum value of "GAP gain": 255
Maximum value of "GAP current value": 320

When the multi sensor and media are normal, "GAP gain" is about 30-250; "GAP current value" is about 200.

[Check 2]

Check whether the multi sensor performance has degraded or whether the media is compatible.

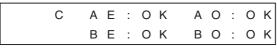
When "Density gain" and "Density current value" are maximum values and "Density media output" is 168 or less, an error occurs. Maximum value of "Density gain": 255
Maximum value of "Density current value": 245

When the multi sensor performance and media are normal, "Density gain" is about 5-100; "Density current value" is about 200.

10) NOZZLE CHECK Checks for non-discharging nozzle with head management sensor.

Displays the result of non-discharging nozzle check performed with "NOZZLE CHECK" by nozzle row of each ink color.

- Press the ◀ key or ▶ key to switch the ink color. AE:A-EVEN row, AO:A-ODD row, BE:B-EVEN row, BO:B-ODD row



F-7-17

12) MEMORY CHK

Display	Description
DDR	Checks the DDR-SDRAM mounted on the Main Controller PCB.
EEP	Checks the EEPROM.

13) HEAD CNT CHK

Confirms the contact status of the printhead.

e) REPLACE

1) CUTTER

This mode is for replacing the cutter.

f) COUNTER

Displays the life (operation frequency and time) of each unit, print counts for each media type, and else. The count values can be printed from [PRINT INF].

1) PRINTER: Counters related to product life

Display	Description	Unit
LIFE TTL	Cumulative number of printed media (equivalent of A4)	sheets
LIFE ROLL	Cumulative number of printed roll media (equivalent of A4)	sheets
LIFE CUTSHEET	Cumulative number of printed cut sheets (equivalent to A4)	sheets
LIFE A-F	Cumulative number of printed media for environments A to F	sheets
POWER ON	Cumulative power-on time (excluding the sleep time)	Hours
W-INK	Remaining capacity of the maintenance cartridge	%
CUTTER	Number of cutting operations (count as 1 by moving back and forth)	Times
WIPE	Number of wiping operations	Times
SLEEP ON	Cumulative sleep-on time	Hours

2) CARRIAGE: Counters related to carriage unit

Display	Description	Unit
PRINT	Cumulative printing time	Hours
DRIVE	Cumulative carriage moving time	Hours
CR COUNT	Cumulative carriage scan count (count as 1 by moving back and forth)	Times
CR DIST.	Cumulative carriage scan distance (count as 1 by moving 210mm)	Times
PRINT COUNT	Cumulative print end count (count as 1 by capping)	Times

3) PURGE: Counters related to purge unit

Display	Description	Unit
CLN-A-1	Cumulative number of automatic cleaning 1 (normal suction) operations	Times
CLN-A-2	Cumulative number of automatic cleaning 2 (ink level adjusting) operations	Times
CLN-A-3	Cumulative number of automatic cleaning 3 (initial filling) operations	Times
CLN-A-6	Cumulative number of automatic cleaning 6 (strong normal suction) operations	Times
CLN-A-7	Cumulative number of automatic cleaning 7 (aging) operations	
CLN-A-10	Cumulative number of automatic cleaning 10 (ink filling after secondary transportation) operations	Times
CLN-A-11	Cumulative number of automatic cleaning 11 (ink filling after head replacement) operations	Times
CLN-A-15	Cumulative number of automatic cleaning 15 (dot count small suction) operations	Times
CLN-A-16	Cumulative number of automatic cleaning 16 (sedimented ink agitation) operations	Times
CLN-A-17	Cumulative number of automatic cleaning 17 (small suction) operations	Times
CLN-A-TTL	Total number of automatic cleaning operations	Times
CLN-M-1	Cumulative number of manual cleaning 1 (normal suction) operations	Times
CLN-M-4	Cumulative number of manual cleaning 4 (ink draining from head after head replacement) operations	Times
CLN-M-5	Cumulative number of manual cleaning 5 (ink draining from head and tube before transportation) operations	Times
CLN-M-6	Cumulative number of manual cleaning 6 (normal strong suction) operations	Times
CLN-M-TTL	Total number of manual cleaning operations	Times

4) CLEAR: Counters related to counter initialization

Display	Description	Unit
CLR-INK CONSUME	Cumulative count of ink section consumption amount clearing	Times
CLR-MTC EXC.	Cumulative count of maintenance cartridge replacement count clearing	Times
CLR-HEAD EXC.	Cumulative count of printhead replacement count clearing	Times
CLR-UNIT CR-1 EXC.	Cumulative count of unit CR-1(carriage unit bushing) replacement count clearing	Times
CLR-UNIT CR-2 EXC.	Cumulative count of unit CR-2(fexible cable unit) replacement count clearing	Times
CLR-UNIT CR-3 EXC.	Cumulative count of unit CR-3(linear encoder sensor/linear scale/shaft cleaner) replacement count clearing	Times
CLR-UNIT CR-4 EXC.	Cumulative count of unit CR-4(carriage height changing cam) replacement count clearing	Times
CLR-UNIT CR-5 EXC.	Cumulative count of unit CR-5(multi sensor) replacement count clearing	Times
CLR-UNIT SP-1 EXC.	Cumulative count of unit SP-1(ink tube unit) replacement count clearing	Times
CLR-UNIT PG-1 EXC.	Cumulative count of unit PG-1(purge unit) replacement count clearing	Times
CLR-UNIT HMa-1 EXC.	Cumulative count of unit HMa-1(head management sensor) replacement count clearing	Times
CLR-UNIT MT-1 EXC.	Cumulative count of unit MT-1(carriage motor) replacement count clearing	Times
CLR-UNIT PL-1 EXC.	Cumulative count of unit PL-1(feed motor) replacement count clearing	Times
CLR-UNIT Mi-1 EXC.	Cumulative count of unit Mi-1(mist fan/mist exhaust duct) replacement count clearing	Times
CLR-UNIT CT-1 EXC.	Cumulative count of unit CT-1(cutter) replacement count clearing	Times
CLR-UNIT WF-1 EXC.	Cumulative count of unit WF-1(ink absorber under the maintenance cartridge unit) replacement count clearing	Times
CLR-UNIT WF-2 EXC.	Cumulative count of unit WF-2(platen exhaust duct) replacement count clearing	Times
CLR-FACTORY CNT.	For factory	Times

5) EXCHANGE: Counters related to parts replacement

Display	Description	Unit
MTC EXC.	Maintenance cartridge replacement count	Times
HEAD EXC.	Printhead replacement count	Times
BOARD EXC.(M/B)	Main controller PCB replacement count	Times
CR-1 EXC.	CR-1(carriage unit bushing) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS CR-1])	Times
CR-2 EXC.	CR-2(fexible cable unit) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS CR-2])	Times
CR-3 EXC.	CR-3(linear encoder sensor/linear scale/shaft cleaner) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS CR-3])	Times
CR-4 EXC.	CR-4(carriage height changing cam) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS CR-4])	Times
CR-5 EXC.	CR-5(multi sensor) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS CR-5])	Times
SP-1 EXC.	SP-1(ink tube unit) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS SP-1])	Times
PG-1 EXC.	PG-1(purge unit) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS PG-1])	Times
HMa-1 EXC.	HMa-1(head management sensor) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS HMa-1])	Times
MT-1 EXC.	MT-1(carriage motor) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS MT-1])	Times
PL-1 EXC.	PL-1(feed motor) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS PL-1])	Times
Mi-1 EXC.	Mi-I(mist fan/mist exhaust duct) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS Mi-1])	Times
CT-1 EXC.	CT-1(cutter) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS CT-1])	Times
WF-1 EXC.	WF-1(ink absorber under the maintenance cartridge unit) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS WF-1])	Times
WF-2 EXC.	WF-2(platen exhaust duct) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS WF-2])	Times

6) DETAIL-CNT: Other counters

Display	Description	Unit
MOVE PRINTER	Number of times "Prep.MovePrinter" on Main menu is executed.	Times
	XX: Ink color Count of turning off the ink remaining level detection for each color	Times
MEDIACONFIG-CNT	Count of media registered by media editor	Times

7) INK-USE1: Counters related to ink consumption

Display	Description	Unit
INK-USE1(XX)	XX: Ink color Cumulative consumption amount of generic ink	ml
INK-USE1(TTL)	Total amount of cumulative consumption of generic ink	ml
N-INK-USE1(XX)	XX: Ink color Cumulative consumption amount of refilled ink	ml
N-INK-USE1(TTL)	Total amount of cumulative consumption of refilled ink	ml

8) INK-USE2: Counters related to ink consumption

Display	Description	Unit
INK-USE2(XX)	XX: Ink color Consumption amount of generic ink of the currently installed ink tank.	ml
INK-USE2(TTL)	Total consumption amount of generic ink of the currently installed ink tanks	ml
N-INK-USE2(XX)	XX: Ink color Consumption amount of refilled ink of the currently installed ink tank	ml
N-INK-USE2(TTL)	Total consumption amount of refilled ink of the currently installed ink tanks	ml

9) INK-EXC: Counters related to ink tank replacement

Display	Description	Unit
INK-EXC(XX)	XX: Ink color Cumulative count of generic ink tank replacement	ml
INK-EXC(TTL)	Total amount of cumulative count of generic ink tank replacement	m1
N-INK-EXC(XX)	XX: Ink color Cumulative count of refilled ink tank replacement	ml
N-INK-EXC(TTL)	Total amount of cumulative count of refilled ink tank replacement	ml

10) MEDIA x (x: 1 to 7): Counters related to media One to seven media types are displayed individually in order with large cumulative print area.

Display	Description	Unit
NAME	Media type	-
TTL	Total amount of cumulative print area of roll media and cut sheet (metric)	Sq.m
TTL	Total amount of cumulative print area of roll media and cut sheet (inch)	Sq.f
ROLL	Cumulative print area of roll media (metric)	Sq.m
ROLL	Cumulative print area of roll media (inch)	Sq.f
CUT SHEET	Cumulative print area of cut sheet (metric)	Sq.m
CUT SHEET	Cumulative print area of cut sheet (inch)	Sq.f

11) MEDIA OTHER: Counters related to media Displays the total amount of cumulative print area of the other media type than the above-mentioned

Display	Description	Unit
NAME	Media type	-
TTL	Total amount of cumulative print area of roll media and cut sheet (metric)	Sq.m
TTL	Total amount of cumulative print area of roll media and cut sheet (inch)	Sq.f
ROLL	Cumulative print area of roll media (metric)	Sq.m
ROLL	Cumulative print area of roll media (inch)	Sq.f
CUT SHEET	Cumulative print area of cut sheet (metric)	Sq.m
CUT SHEET	Cumulative print area of cut sheet (inch)	Sq.f

12) MEDIASIZE1 ROLL: Counters related to roll media printing

Display	Description	Unit
P-SQ 36-44	Cumulative print area of paper equal to or larger than 36 inches but less than 44 inches (physical size)	Sq.m/Sq.f
P-SQ 24-36	Cumulative print area of paper equal to or larger than 24 inches but less than 36 inches (physical size)	Sq.m/Sq.f
P-SQ 17-24	Cumulative print area of paper equal to or larger than 17 inches but less than 24 inches (physical size)	Sq.m/Sq.f
P-SQ -17	Cumulative print area of paper less than 17 inches (physical size)	Sq.m/Sq.f
P-CNT 36-44	Cumulative number of sheets of A4-equivalent paper equal to or larger than 36 inches but less than 44 inches (physical size)	sheets
P-CNT 24-36	Cumulative number of sheets of A4-equivalent paper equal to or larger than 24 inches but less than 36 inches (physical size)	sheets
P-CNT 17-24	Cumulative number of sheets of A4-equivalent paper equal to or larger than 17 inches but less than 24 inches (physical size)	sheets
P-CNT -17	Cumulative number of sheets of A4-equivalent paper less than 17 inches (physical size)	sheets

13) MEDIASIZE2 ROLL: Counters related to roll media printing

Display	Description	Unit
D-SQ 36-44	Cumulative print area of paper equal to or larger than 36 inches but less than 44 inches (data size)	Sq.m/Sq.f
D-SQ 24-36	Cumulative print area of paper equal to or larger than 24 inches but less than 36 inches (data size)	Sq.m/Sq.f
D-SQ 17-24	Cumulative print area of paper equal to or larger than 17 inches but less than 24 inches (data size)	Sq.m/Sq.f
D-SQ -17	Cumulative print area of paper less than 17 inches (data size)	Sq.m/Sq.f
D-CNT 36-44	Cumulative number of sheets of A4-equivalent paper equal to or larger than 36 inches but less than 44 inches (data size)	sheets
D-CNT 24-36	Cumulative number of sheets of A4-equivalent paper equal to or larger than 24 inches but less than 36 inches (data size)	sheets
D-CNT 17-24	Cumulative number of sheets of A4-equivalent paper equal to or larger than 17 inches but less than 24 inches (data size)	sheets
D-CNT -17	Cumulative number of sheets of A4-equivalent paper less than 17 inches (data size)	sheets

14) MEDIASIZE1 CUT: Counters related to cut sheet printing

Display	Description	Unit
P-SQ 36-44	Cumulative print area of paper equal to or larger than 36 inches but less than 44 inches (physical size)	Sq.m/Sq.f
P-SQ 24-36	Cumulative print area of paper equal to or larger than 24 inches but less than 36 inches (physical size)	Sq.m/Sq.f
P-SQ 17-24	Cumulative print area of paper equal to or larger than 17 inches but less than 24 inches (physical size)	Sq.m/Sq.f
P-SQ -17	Cumulative print area of paper less than 17 inches (physical size)	Sq.m/Sq.f
P-CNT 36-44	Cumulative number of sheets of A4-equivalent paper equal to or larger than 36 inches but less than 44 inches (physical size)	sheets
P-CNT 24-36	Cumulative number of sheets of A4-equivalent paper equal to or larger than 24 inches but less than 36 inches (physical size)	sheets
P-CNT 17-24	Cumulative number of sheets of A4-equivalent paper equal to or larger than 17 inches but less than 24 inches (physical size)	sheets
P-CNT -17	Cumulative number of sheets of A4-equivalent paper less than 17 inches (physical size)	sheets

15) MEDIASIZE2 CUT: Counters related to cut sheet printing

Display	Description	Unit
D-SQ 36-44	Cumulative print area of paper equal to or larger than 36 inches but less than 44 inches (data size)	Sq.m/Sq.f
D-SQ 24-36	Cumulative print area of paper equal to or larger than 24 inches but less than 36 inches (data size)	Sq.m/Sq.f
D-SQ 17-24	Cumulative print area of paper equal to or larger than 17 inches but less than 24 inches (data size)	Sq.m/Sq.f
D-SQ -17	Cumulative print area of paper less than 17 inches (data size)	Sq.m/Sq.f
D-CNT 36-44	Cumulative number of sheets of A4-equivalent paper equal to or larger than 36 inches but less than 44 inches (data size)	sheets
D-CNT 24-36	Cumulative number of sheets of A4-equivalent paper equal to or larger than 24 inches but less than 36 inches (data size)	sheets
D-CNT 17-24	Cumulative number of sheets of A4-equivalent paper equal to or larger than 17 inches but less than 24 inches (data size)	sheets
D-CNT -17	Cumulative number of sheets of A4-equivalent paper less than 17 inches (data size)	sheets

16) HEAD DOT CNT.1: Counter related to dot count

Display	Description	Unit
XX	XX: Ink color Dot counts of each colors of the currently installed printhead	(x 1,000,000) dots
TTL	Total dot counts of each colors of the currently installed printhead	(x 1,000,000) dots

17) HEAD DOT CNT.2: Counter related to dot count

Display	Description	Unit
XX	XX: Ink color Cumulative dot counts of each colors	(x 1,000,000) dots
TTL	Total cumulative dot counts of each colors	(x 1,000,000) dots

18) PARTS CNT.: Counter related to consumable parts



F-7-18

The displays are selectable with the \blacktriangleleft and \blacktriangleright keys. Counter of the consumable part (current)



F-7-19

Life of the consumable part



F-7-20

Use rate until part replacement



F-7-21

Counter of the consumable part (accumulate)



F-7-22

Display		Description	
COUNTER xx-x		xx-x: Unit number of consumable parts (For detail, refer to "Maintenance and Inspection" > "Consumable Parts")	Days
		Display the status (aa) and the days passed since the counter (bbbb) resetting Status	
		OK: Use rate (until part replacement) of all consumable parts included in each unit are below 90%.	
		W1: Use rate (until part replacement) of either of the consumable parts included in each unit has reached 90% or more.	
		W2: Use rate (until part replacement) of either of the consumable parts included in each unit has reached 100%, but no need to stop the printer. E: Use rate (until part replacement) of either of the consumable parts included in	
		each unit has reached 100%, and the printer needs to be stopped.	
	1:	Unit number of consumable parts Counter of the consumable part (current)	
	2:	Life of the consumable part	
	3:	Use rate until part replacement	%
	4:	Counter of the consumable part (accumulate)	

g) **SETTING**Make various settings.

1) Pth Turn on or off the head pulse rank control function. Default: OFF

2) RTC Set RTC (real time clock) after replacing the lithium battery on the main controller PCB.

Display		Description
DATE	yyyy/mm/dd	Set date
TIME	hh:mm	Set time

3) PV AUTO JUDGE Sets ink saver mode. Default: OFF

4) NETWORK See "e-maintenance/imageWARE Remote" for detail.

5) E-RDS See "e-maintenance/imageWARE Remote" for detail.

6) HEAD DOT INF Select whether to display the message as the result of non-discharging nozzle detection or not. Default: ON $\,$

Number of non-discharging nozzle (nozzle/2,560-nozzles)	ON	OFF
0-99	Displays a message to check the printing.	-
100-319	Displays a message to check the head.	-
320 or more Displays a message to replace the head.		

h) INITIALIZE Clear the [DISPLAY] histories, [ADJUST] settings, [COUNTER] values, and other parameters.

Display		Description		
WARNING		Initialize the history of WARNING. (All displayed contents of [DISPLAY] > [WARNING] will be initialized.)		
ERROR		Initialize the history of ERROR. (All displayed contents of [DISPLAY] > [ERROR] will be initialized.)		
ADJUST		Initialize the value of band adjustment (by user) and head adjustment. The automatically adjusted value will not be initialized.		
W-INK		Initialize the remaining capacity (%) of the maitenance cartridge. (Clear [COUNTER] > [PRINTER] > [W-INK])		
CARRIAGE		Initialize the counter related to carriage unit. (Clear [COUNTER] > [CARRIAGE])		
PURGE		Initialize the counter related to purge unit. (Clear [COUNTER] > [PURGE])		
INK-USE CNT		Initialize the consumption amount of ink. ((Clear [COUNTER] > [INK-USE2], and count up [COUNTER] > [CLEAR] > [CLR-INK CONSUME])		
W-INK-CHG CNT		Initialize the maintenance cartridge replacement frequency. (Clear [COUNTER] > [EXCHANGE] > [MTC EXC.], and count up [COUNTER] > [CLEAR] > [CLR-MTC EXC.])		
HEAD-CHG CNT		Initialize the printhead replacement frequency. (Clear [COUNTER] > [EXCHANGE] > [HEAD EXC.], and count up [COUNTER] > [CLEAR] > [CLR-HEAD EXC.])		
HDD BOX PASS.	ALL FOLDERS	Initialize the BOX password of all folders of the hard disk drive to factory default.		
	FOLDER xx	Initialize the BOX password of FOLDER xx of the hard disk drive to factory default.		
PARTS-CHG CNT	PARTS xx-x	xx-x: Unit number of consumable parts (For details, refer to "Maintenance and Inspection" > "Consumable Parts") Initialize the consumable part replacement frequency. (Clear [COUNTER] > [EXCHANGE] > [xx-x EXC], and count up [COUNTER] > [CLEAR] > [CLR xx-x EXC.])		
PARTS PARTS xx-x COUNTER		xx-x: Unit number of consumable parts (For details, refer to "Maintenance and Inspection" > "Consumable Parts") Initialize the counter amount of the consumable parts. (Clear [COUNTER] > [PARTS CNT.] > [COUNTER xx-x]) * After replacing the consumable part, be sure to execute this menu.		
USER SETTING		Initializes the user menu. Same as executing the following mode in the user menu. -[Set./Adj. Menu]-[System Setup]-[Reset PaprSetngs] -[Set./Adj. Menu]-[Interface Setup]-[Return Defaults]		
CA-KEY		See "e-maintenance/imageWARE Remote" for detail.		
ERDS-DAT		See "e-maintenance/imageWARE Remote" for detail.		
JOB LOG		Initialize the history of JOB LOG.		

7.1.4 e-Maintenance/imageWARE Remote

iPF765 / iPF760 / iPF750 / iPF755

1. Overview

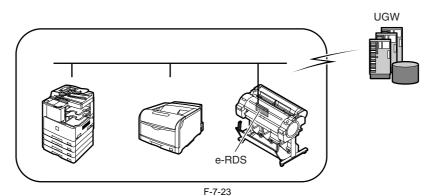
The e-Maintenance/imageWARE Remote system allows a customer's device information and status to be monitored via the Internet on a server called the UGW (Universal Gateway) Server.

The following device information/ statuses can be monitored. - Service mode counters

- Parts counters
- Mode counters
- Firmware information
- Service call errors log
- Jam log
- Alarm log
- Alert change statuses (Toner/ ink low/ out, etc.)

Device monitor information above is sent by the e-RDS (embedded Remote Diagnostic System), which is embedded in the devices.

Further, as the above is all customer information, https SOAP protocol is used for communication between the UGW and the device, providing enhanced security (SSL client communication)



2. Feature and benefits

Device (e-RDS) embedded with network module can realize a front-end processing of the e-Maintenance/imageWARE Remote system without attaching an extra

The e-Maintenance/imageWARE Remote system can be implemented without imposing a burden on the users.

3. Settings procedures

3.1 Advance preparations

To monitor the device with e-Maintenance/imageWARE Remote, the following settings are required.

1) Advance confirmation

Check with the UGW administrator whether the printer to be connected to the e-Maintenance/imageWARE remotely has been registered in the UGW.

2) Advance preparations

Interview the user's system administrator in advance to find out the following information about the network.

Information item -1

IP address setting methods

Check whether automatic setting or manual setting is to be used, and confirm the information below.

- Automatic setting: (DHCP, RARP, BOOTP) (ON/OFF selection)

- Manual setting: IP address, subnet mask and gateway address to be set

Information item -2 Is there a DNS server in use?

If there is a DNS server in use, find out the following.

- Primary DNS server address

- Secondary DNS server address (optional)

Information item -3

Is there a proxy server?

If there is a proxy server in use, find out the following.

- Proxy server address

- Port number connected to proxy server

Information item -4

Is proxy server authentication required?

If proxy server authentication is required, find out the following.

- User name and password required for proxy authentication

3) Network settings

Make the network settings based on the information obtained in "2) Advance preparations."

Network settings are made in user mode. Therefore, it is assumed that the user has already set it. However, there are a few cautions as described below, and if necessary, there may be cases in which the service technicians do it after obtaining an approval from user.

Caution point -1

Proxy server settings

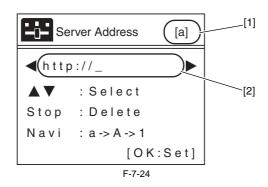
Proxy server settings cannot be made in "Remote UI". Enter from the operation panel menu. In addition, the operation panel menu items for proxy server only appear when e-RDS functions are enabled. Therefore, when you make proxy server settings, turn the "E-RDS SWITCH" setting to "ON" as described in later sections beforehand.

Caution point -2

Validate the settings (restart the printer)

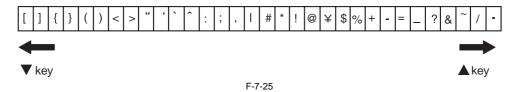
The server address settings are activated only after you restart the printer. Make sure you always restart the printer after changing server address settings.

(1) How to enter Proxy server address



- [1] Display to show enter mode
 - a: Small alphabet letter
 - A: Capital alphabet letter
 - 1: Numerical character
- [2] URL entry field (128 one-byte characters)
- Following symbols exist in each enter mode. (When you press the ▲ key, characters on the right hand side will appear.) [a] Small alphabet letter mode: [Symbol] abcdefghijklmnopqrstuvwxyz
 [A] Capital alphabet letter mode: [Symbol] ABCDEFGHIJKLMNOPQRSTUVWXYZ
 [1] Numerical character mode: [Symbol] 1234567890

- [Symbol] appears in the following order.

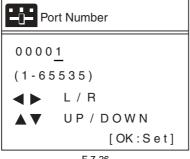


- Within the URL entry field, you can use the ▲ or ▼ key to select a character, and the ◀ or ▶ key to move the cursor.
- The Stop key has the Delete function when there is a character at the cursor position. (The character at the position of the cursor is deleted, moving all following characters one position toward freed place.)

If there is no character at the cursor position, it has the Backspace function. (The character at the left of the cursor is deleted, moving the cursor.)

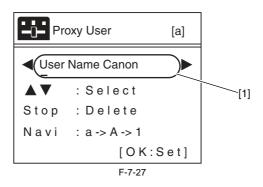
- When you move the cursor to a position of a character and press the ▲ or ▼ key, you can insert characters. (The character at the cursor position is moved to the right, and a new character is inserted.
- You can select the enter mode with the Navi key. (The default setting is small alphabet letter.)

(2) How to enter port number



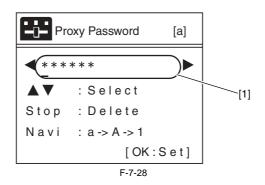
- F-7-26
- Possible to set between 1 and 65535 (The default display is 1).
- The top digit can be selected between 0 and 6. Other digits can be selected between 0 and 9. When OK key is pressed, and the value is over 65535, it is fixed on 65535.
- When OK key is pressed, and the value is 0, it is fixed on 1.

(3) How to enter user name



[1] Entry filed (24 one-byte characters)

- It is the same as the entering method of proxy server address.
- (4) How to enter password



[1] Entry filed (24 one-byte characters)

- If a password has already been set, when you press the 🔺 or 🔻 key at any cursor position, all the "*" will disappear and the first letter will be entered as the first character.
- Entered characters are visible until you press OK key. Once entering into the menu again, they will be changed to "*".
- Other information is the same as the entering method of proxy server address.

3.2 e-RDS settings

- 1) Enter the service mode.

 Turn off the printer power.

 Turn on the power while pressing the [Load] key and [Navigate] key.

 * Keep pressing the above keys until "Initializing" is displayed.

 "S" appears at the top right of the display.

- Press the ◀ or ▶ key to choose the [Set./Adj. Menu]and press the [OK] key.
 * "SERVICE MODE" appears in the menu list and the MESSAGE LED flashes.
- Press the ▲ key or ▼ key to choose "SERVICE MODE" and press the [OK] key.

2) Set the following e-RDS setting items No.1-4

(If the result of the communication test (COM-TEST) is "NG", execute setting items No.5-6 to solve the problem.)

No.	Item	Type	Description	
1	E-RDS SWITCH	2 bytes	OFF: Disable/ON: Enable e-Maintenance/imageWARE Remote system to send device information, meter data, and error statuses to the UGW. Default value is OFF (not in use)	
2	UGW-ADDRESS	129 bytes (NULL included, SJIS not allowed)	The UGW address by default: https://a01 The complete address is not provided in this document for security reason.	
3	UGW-PORT	4 bytes	The UGW Port Number by default : 443 Validation : 1-65535	
4	COM-TEST		To perform Communication test with UGW and set "OK!"/ "NG!" as the result.	
5	COM-LOG		Detailed communication data log Switches to display time when error occurred, error code, and error data up to now. Max 30 loggings retained. Max 128 characters (not containing NULL) for Error information.	
6	ERDS-DAT		Initialize e-RDS setting data	

3.3 Service Mode Menu Tree

First Level	Second Level	Third Level	Fourth Level	Fifth Level	Sixth Level
DISPLAY					
I/O DISPLAY					
ADJUST					
FUNCTION					
REPLACE					
COUNTER					
SETTEING	Pth				
	RTC				
	PV AUTO JUDGE				
	NETWORK	CERTIFICATE	CA-CERTIFICATE	VALIDITY:*1	yyyy/mm/dd
	E-RDS	E-RDS SWITCH:*1	ON/OFF		
		UGW-ADDRESS:*1	http://XXX		
		UGW-PORT:*1	XXXXX		
		COM-TEST:*1	YES		
		COM-LOG:*1			
	HEAD DOT INF				
INITIALIZE	WARNING				
	ERROR				
	JAM				
	ADJUST				
	W-INK				
	CARRIAGE				
	PURGE				
	INK-USE CNT				
	W-INK-CHG CNT				
	HEAD-CHG CNT				
	HDD BOX PASS				
	PARTS-CHG CNT	_			
	PARTS COUNTER				
	USER SETTEING				
	CA-KEY:*1	YES/NO			
	ERDS-DAT:*1	YES/NO			
	JOB LOG	YES/NO			

^{*} Press ► key to move to the next menu of the same layer, and press ▼ key to move to the menu of one layer deeper. * The menus shown in '*1' are the e-RDS-related menus.

3.4 e-RDS Related Setting Details 1) e-RDS's Operation Mode [E-RDS SWITCH]

In service mode, referring to the "Service Mode Menu Tree", go to [E-RDS SWITCH] menu using ▶ key and ▼ key.

(1) Choose between [ON] or [OFF] using the ◀ and ▶ keys.



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(2) Press [OK] key to determine the operation mode and go back to the previous screen.



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- When the operation mode is determined, "=" will be displayed.
 OFF: When it is set to [OFF], e-RDS is not used. Default value is OFF.
 ON: When it is set to [ON], e-RDS is used.

2) UGW Address [UGW-ADDRESS] and UGW port [UGW-PORT]

Usually, the default values set in advance are used for the setting value of [UGW-ADDRESS] and [UGW-PORT]. Unless there is a special instruction, the default value should not be changed. If it should be changed, the communication with UGW may have an error. If [UGW-ADDRESS] and [UGW-PORT] are changed, the new setting will be enabled after power OFF/ON.

Therefore, usually, the setup is not necessary.

* If you change under a special instruction, perform the following procedure.

(1) Setting address for UGW

- In service mode, referring to the "Service Mode Menu Tree", go to [UGW-ADDRESS] menu using ▶ key and ▼ key.



- Press ▼ key to enter the Setup Mode. (A character indicating the input mode (in the upper right corner of the screen) and the cursor are displayed.) Enter UGW address (URL).



Display to indicate an input mode

A: Alphabet capital letter

a: Alphabet small letter

1: Numerical character

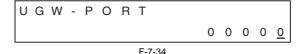
- The cursor is shown at the first letter.
- Use ▲ and ▼ keys to select characters to enter.
- Press [Back] key to cancel what you entered and go back to the previous screen.
- Press [OK] key to determine what you entered and go back to the previous screen.

(2) Setting up the GW Port Number

- In service mode, referring to the "Service Mode Menu Tree", go to [UGW-PORT] menu using ▶ key and ▼ key.



- Press ▼ key to enter the Setup Mode. (A cursor is displayed.) Enter a port number.



- Use ▲ and ▼ keys to select characters to enter.
- Press [Back] key to cancel what you entered and go back to the previous screen.
- Press [OK] key to determine what you entered and go back to the previous screen.

3) Communication Test [COM-TEST]

(1) In service mode, referring to the "Service Mode Menu Tree", go to [COM-TEST] menu using ▶ key and ▼ key.



(2) Press [OK] key to start the test. ("=" is displayed at the start of the test.)



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(3) During the communication test, "CHECK NOW" is displayed.



^{*} The actual setting value of UGW address [UGW-ADDRESS] and UGW port [UGW-PORT] are categorized as confidential information, so they are not described in this manual.

- Once the communication test is started, it cannot be cancelled.(Other operation won't be accepted until the result is obtained.)
- (4) If the communication test was successful, "CHECK RSLT:OK" is displayed.

COM-TEST CHECK RSLT: OK

- Press A key to exit this operation mode and go back to the top of [COM-TEST] menu.
- (5) If the communication test was failed, "CHECK RSLT:NG" is displayed.



- Press A key to exit this operation mode and go back to the top of [COM-TEST] menu.
- If you cannot obtain the result after 30 seconds from the start of a communication test, the test is considered failed and the same screen will appear.
- * When the communication test was successful, it is necessary to take the interval of 5 minutes before performing the next communication test.

4) Communication Log [COM-LOG]

Communication Error Information/Detailed Communication Error Information can be displayed on the screen at the time of a communication error with the Service Center (including proxy server error). When a communication error occurs, you can refer to this information to study how to deal with the problem.

- * For the countermeasure corresponding to each Communication Error Information or Detailed Communication Error Information, see the list of error message in "4 Troubleshoot".
- (1) In service mode, referring to the "Service Mode Menu Tree", go to [COM-LOG] menu using ▶ key and ▼ key.

(2) Press ▼ key, and communication error information is displayed. On the upper line of the LCD, a log number (01-30) and an error code are shown; on the bottom line, an occurrence date and time of the error is shown.



- COM-LOG information can be saved up to 30 cases.
- Use Right and Left keys to change logs to display.
 Logs are displayed in the sequence of the time of occurrence. (Log number 1 is the latest log.)
- Press \(\bigs \) key to exit this operation mode and go back to the top of [COM-LOG] menu.
- * If the Communication Error Information is not saved, the screen below will appear.

- Press ▲ key to exit the communication error information screen and go back to the top of [COM-LOG] menu.
- (3) Press ▼ key to display the Detailed Communication Error Information (maximum 128 characters).

1st-32nd characters of Detailed Communication Error Information are shown.



33rd-64th characters of Detailed Communication Error Information are shown.



65th-96th characters of Detailed Communication Error Information are shown.



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97th-128th characters of Detailed Communication Error Information are shown.



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- Use ◀ and ▶ keys to move among Screen and Screen. (Detailed Communication Error Information can be made with maximum 128 characters, however, even if the information is made up with 1 to 96 characters, all Screens are still displayed.)
- Press 🔺 key to exit the Detailed Communication Error Information screen and go back to the Communication Error Information screen.
- * If Detailed Communication Error Information does not exist, the screen below will appear.



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- Press 📤 key to exit the Detailed Communication Error Information screen and go back to the Communication Error Information screen.

5) Initializing the e-RDS setting [ERDS-DAT]

Usually, the setup is not necessary.

Use this procedure when you want to reset the e-RDS settings to the factory default.

(1) In service mode, referring to the "Service Mode Menu Tree", go to [ERDS-DAT] menu using ▶ key and ▼ key.



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(2) Choose between YES/NO using ◀ and ▶ keys, and press [OK] key to set.



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- Press [OK] key, and "=" will appear and the initializing process will begin.

[NO]: Do not initialize the e-RDS setting. Default value is [NO].

[YES]: Initialize the e-RDS setting.

6) Displaying the CA Certificate Information [VALIDITY]

For the secure communication between the device (e-RDS) and the UGW, an authentication technology from a certification authority is used. A license has been issued from the certification authority. For this reason, the devices are shipped with the CA (Certificate Authority) certificate enabled in advance to prove the license obtained

Therefore, usually, the setup is not necessary.

To confirm that this CA certificate is valid or how long it will be valid, you can display the expiration date of the CA certificate information.

(1) In service mode, referring to the "Service Mode Menu Tree", go to [VALIDITY] menu using ▶ key and ▼ key.



(2) Press ▼ key, and the expiration date of the CA certificate will be displayed.



- Press A key to exit the CA certificate expiration date display screen and go back to the top of [VALIDITY] menu.
- * If the CA certificate is deleted, the screen below will appear.



- Press ▲ key to exit the CA certificate expiration date display screen and go back to the top of [VALIDITY] menu.

7) Deleting the CA Certificate [CA-KEY]
For the secure communication between the device (e-RDS) and the UGW, an authentication technology from a certification authority is used. A license has been issued from the certification authority. For this reason, the devices are shipped with the CA (Certificate Authority) certificate enabled in advance to prove the license

The device (e-RDS) uses this CA certificate to communicate with the UGW, thus CA must not be deleted.

Therefore, usually, the setup is not necessary.

- * If you delete the CA certificate under a special instruction, perform the following procedure.
- (1) In service mode, referring to the "Service Mode Menu Tree", go to [CA-KEY] menu using ▶ key and ▼ key.



(2) Choose between YES/NO using ◀ and ▶ keys, and press [OK] key to set.



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- Press [OK] key, and "=" will appear and the initializing process will begin.

[NO]: Do not delete the CA certificate. Default value is [NO].

[YES]: Delete the CA certificate.

4. FAQ

No.	Question	Answer
Q1	Registration information of the device (E-RDS) is once deleted from the UGW server, and is re-registered after that. If a communication test is not carried out, then device information on UGW becomes invalid.	When registration of the device (e-RDS) is deleted from the UGW, the status will be changed to the communication test not completed because related information has lost from a database. Therefore, device information will also become invalid if that condition persists for seven days without carrying out the communication test. Hence, to avoid the invalid condition, carry out the communication test.
Q2	The communication test with the UGW server results NG!	The comunication test might become NG in the following cases. - 1. Name resolution was failed due to an incorrect host name or DNS server has been halted. - 2. Network cable is blocked off. Network cable is broken. - 3. Proxy server settings are not correct.
Q3	Could you describe the timing of data transmitting from the device (e-RDS) to the UGW, and what data size is sent to the UGW?	The schedule of data transmitting, and the start time are determined by settings in the UGW side. The timing is once per 16 hours by default, and counter data size is maximum 1400 bytes.
Q4	Can I turn the device power off during the device (e-RDS) operation?	While operating the device (e-RDS), the power of the printer and network equipment such as HUB must be ON. If power OFF is needed, do not leave it OFF for a long time. An error such as "Device is busy, try later" could occur if the power supply of network equipment is made prolonged OFF.

5. Troubleshooting

No.	Condition detected	Action
1		Check network conditions such as proxy server settings and so on. - Check the communication log from COM-LOG> Execute "Remedy" in the "Error message list". - Check whether RGW-ADDRESS or RGW-PORT settings have changed.

6. Error message list

Details of the errors and their remedies are as described below. (The meaning of server indicates the UGW in this section)

No.	Error Message	Cause	Remedy
1	SUSPEND: Communication test is not performed	E-RDS has been booted up (device reboot) with E-RDS SWITCH = ON but the communication test had not yet been performed.	Perform the communication test [COMTEST] in service mode.
2	Event Registration is Failed	Event Registration is Failed Processing (event processing) within the device has failed.	Turn the device OFF/ ON. If the error persists, replace the device system software (firmware). (Upgrade)
3	URL Scheme error (not https)	The header of the URL of the registered UGW is not in https format. A "https://" input error.	Check that the value of UGW-ADR has been entered correctly as https://a01
4	Server connection error	An UGW connection error. Displayed in the event of a TCP/IP communication fault.	Check the network-related settings according to "No.1: Communication test is not performed" in "Troubleshooting".
5	URL server specified is illegal	A URL different to that specified by the UGW has been set. An URL address setting error.	Check that the value of UGW-ADR has been entered correctly as https://a01
6	Proxy connection error	Cannot connect to proxy server. Displayed when unable to connect to proxy server.	Check proxy server address and re-enter if necessary.
7	Proxy authentication error	Displayed when the authentication to the proxy server has failed.	Check the user name and password required in order to login to the proxy, and re-enter if necessary.
8	Server certificate error	Device's route certificate is unavailable.	Reinstall the latest device system software (firmware). (Upgrade)
9	Server certificate expired	The route certificate registered with the device has expired.	Check that the device time and date are correctly set. If the device time and date are correct, upgrade to the latest system software (firmware).
10	Unknown error	Some other kind of communication error has occurred.	Try again after a period of time. If the same error occurs again, check the UGW status with the UGW administrator.
11	SOAP Fault	SOAP communication error has occurred.	Check that the value of UGW-PORT is 443.
12	Server response error (NULL)	A UGW response error (when UGW error code processing has failed). A HTTPS communication error.	Try again after a period of time. If the same error persists, check the UGW status with the UGW administrator.
13	Server response error (Hexadecimal) [Error detailed in the UGW]:*1	A UGW response error. Displayed when communication with UGW has been successful, but an error of some sort has prevented UGW from responding.	Check an error code (hexadecimal) returned from the UGW, then retry after a period of time.
14	Device internal error	An internal device error. An error due to the device side.	Switch the device OFF/ ON. Or, replace the device system software. (Upgrade)
15	Server schedule is invalid	During the communication test, there has been some kind of error in the schedule values passed from UGW.	When the error occurs, report the details to the support department. Then, after the UGW side has responded, retry the communication test.
16	Server response time out	UGW response time out. Due to network congestion, etc., the response from UGW does not come within the specified time.	If this error occurs when the communication test is being run, wait some time and rerun the test.
17	Server not found	There is a mistake in the UGW URL, and UGW cannot be accessed.	Check that the value of Service mode > E-RDS/RGW-ADR is https://a01
18	E-RDS switch is set OFF	E-RDS is disabled.	Set E-RDS SWITCH = ON, and run COM-TEST in service mode.
19	Server schedule is not exist	Server schedule does not exist. Blank schedule data has been received from UGW.	Check the device settings status with the UGW administrator.
20	Network is not ready, try later	Network-related settings have not been made for the device.	Make network-related settings properly for the device (printer).
21	URL error	A URL setting error. Non-URL text string entered in URL field.	Check that the value of UGW-ADR is https://a01
22	Proxy address resolution error	A proxy server address resolution error.	Check that the proxy server name is correct.
23	Server certificate verify error	The server certificate verification (URL check) error.	Check that the value of UGW-ADR is https://a01
24	Server address resolution error	UGW address resolution has failed.	Check that the value of UGW-ADR is https://a01

^{*1:[}Hexadecimal] indicates an error code returned from the UGW in hexadecimal.

After performing the following service actions, it is necessary to perform the resetting of the e-RDS. Failure to do so will result that the counter transmitting value to the UGW may become unusual.

(Initial values) UGW-PORT: 443 UGW-ADDRESS: https://a01---.

⁻ System software (firmware) upgrade
- After replacing the main controller board, the following settings in service mode must not be changed unless there are specific instructions to do so. Changing these values will cause error in communication with the UGW.

7.1.5 Viewing PRINT INF

iPF765 / iPF760 / iPF750 / iPF755

a) PRINT INF item detail
The details of each PRINT INF item displayed when performing [SERVICE MODE] > [DISPLAY] > [PRINTINF] are as follows:

P	rint item	Print content	Printed value
SYSTEM	S/N	Serial number of printer	characters/numerals of 8-byte
	TYPE	Type setting on main controller PCB	36
	LF TYPE	Feed roller type	0: old type roller 1: new type roller
	TMP	Ambient temperature	Unit: Centigrade degree
	RH	Ambient humidity	Unit: %
	SIZE LF	Detected size of loaded media (feed direction)	mm (0 is always detected for the roll media.)
	SIZE CR	Detected size of loaded media (carriage scan direction)	mm
	AFTER INST.	Number of days since initial installation	Unit: Day(s)
HEAD	S/N	Serial number of printhead	characters/numerals (8 digits)
	LOT	Lot number of printhead	characters/numerals (8 digits)
INK	BK, MBK, MBK2, C, M, Y	Number of days passed since the ink tank was installed	Unit: Days
WARNING	01-20	Warning history (up to 20 events)	Number: Lowest is the most recent Date: mm/dd Time: mm/ss Code: Last 4 digits Cumulative number of printed media (equivalent of A4)
ERROR	01-20	Error history (up to 20 events)	Number: Lowest is the most recent Date: mm/dd Time: mm/ss Code: Last 4 digits Cumulative number of printed media (equivalent of A4)

Print item		Print content	Printed value
JOB CONDITION	01-05	Job history (up to 5 events)	Number: Lowest is the most recent
	1	Print mode	1: [Image]-[Highest] (Image high-precision) 2: [Image]-[Highest] (Line dwawing and text high-precision) 3: [Image]-[Highest] 4: [Image]-[High] (Line dwawing and text high-precision) or [Line Drawing/Text]-[High] 5: [Image]-[High] 6: [Image]-[Standard] (Line dwawing and text high-precision) or [Line Drawing/Text]-[Standard] 7: [Image]-[Standard] 8: [Line Drawing/Text]-[Draft] 9: [Image]-[Draft] 10: [Image]-[Draft] (Economy) or [Office Document]-[Standard] 11: Exception mode
	2	Head height	a(n) - Description of "a" A: Automatic setting H: Fixed setting - Description of "n" 0: SL(1.2mm) 1: L(1.4mm) 2: M1(1.8mm) 3: M2(2.0mm) 4: M3(2.2mm) 5: H(2.6mm) *: Unknown
	3	Temperature and humidity	
	4	Media type	Display media name *: Unknown
	5	Printing date & time	
	6	Job name	Name stored to the HDD
	7	Registration condition	A: The gap used to the printing matches with the gap of inner registration adjustment value. B: The gap used to the printing don't match with the gap of inner registration adjustment value. C: There is no registration adjustment value.
HEAD	01-05	Adjustment history (up to 5 events)	Number: Lowest is the most recent
ADJUSTMENT	1	Adjustment type	manu: Manual adjustment auto(d): Automatic adjustment (detail) auto(s): Automatic adjustment (standard) auto(e): Automatic adjustment (expansion)
	2	Head height	a(n) - Description of "a" A: Automatic setting H: Fixed setting AE: Adjustment error (automatic setting) HE: Adjustment error (fixed setting) - Description of "m"(Gap1) and "n"(Gap2) 0: SL(1.2mm) 1: L(1.4mm) 2: M1(1.8mm) 3: M2(2.0mm) 4: M3(2.2mm) 5: H(2.6mm) -: Not executed *: Unknown
	3	Temperature and humidity	5. 1 6
	4	Media type	Display media name *: Unknown
	5	Printing date & time	
	6	Gap distance between head and media	

F	Print item	Print content	Printed value
JAM	01-05	JAM log (5 records)	Number: Lowest is the most recent Date: mm/dd Time: mm/ss Jam code
	01	Jam type	1: CR error 2: Jam 3: Feed failure (delay) 4: Cut failure *: Unknown
	02	Media format	1: Roll media 2: Cut sheet *: Unknown
	03	Jam timing	1: Feed 2: Print 3: Eject *: Unknown
	04	Width detection OFF mode	1: ON 2: OFF *: Unknown
	05	Head height	0: SL (1.0mm) 1: L (1.3mm) 2: M1 (1.8mm) 3: M2 (2.0mm) 4: M3 (2.2mm) 5: H (2.6mm) *: Unknown
	06		1: Fully close 2: Only HP side open 3: 1/4 open 4: 1/2 open 5: 3/4 open 6: Fully open *: Unknown
	07	Cut mode	1: User cut 2: Eject cut 3: Auto cut *: Unknown
	08	Media passing environment	0: A(temperature 15 to 25 degrees centigrade/humidity 40 to 60%) 1: B(temperature 25 to 30 degrees centigrade/humidity 40 to 60%) 2: C(temperature 15 to 30 degrees centigrade/humidity 10 to 40%) 3: D(temperature 15 to 30 degrees centigrade/humidity 60 to 80%) 4: E(temperature 15 to 30 degrees centigrade/humidity 0 to 10%, or 15 degrees centigrade or less and 30 degrees centigrade or more/humidity 0 to 50% [low humidity is out of guarantee.]) 5: F(temperature 15 to 30 degrees centigrade/humidity 80 to 100%, or 15 degrees centigrade or less and 30 degrees centigrade or more/humidity 50 to 100% [high humidity is out of guarantee.]) *: Unknown
	09	Borderless/Bordered	1: Bordered printing 2: Borderless printing *: Unknown
	10	Print mode label No.	Display print mode *: Unknown
	11	Media size	Display size *: Unknown
INK CHK	BK, MBK, MBK2,	Media type Refill log	Display media name *: Unknown
INK CHK	C, M, Y	Print whether disable remaining ink detection was previously set	Disable remaining ink detection was never set Disable remaining ink detection was set at least once

	Print i	tem	Print content	Printed value
	PRINTER	POWER ON	Cumulative power-on time	Unit: hours
R		SLEEP ON	Cumulative sleep-on time	Unit: hours
		CUTTER	Number of cutting operations	Unit: times
		WIPE	Number of wiping operations	Unit: times
		W-INK	Remaining capacity of the maintenance cartridge	Unit: %
		PDL	Cumulative number of printed media according to PDL	GARO: xx sheets HP-GL/2: xx sheets
	CARRIA	PRINT	Cumulative printing time	Unit: hours
	GE	DRIVE	Cumulative carriage moving time	Unit: hours
		CR-COUNT	Cumulative carriage scan count (count as 1 by moving back and forth)	Unit: times
		CR-DIST.	Cumulative carriage scan distance (count as 1 by moving 210mm)	Unit: times
		PRINT-COUNT	Cumulative print end count (count as 1 by capping)	Unit: times
	PURGE	CLN-A	Cumulative number of automatic cleaning operations	
		1	Cumulative number of automatic cleaning 1 (normal suction) operations	Unit: times
		2	Cumulative number of automatic cleaning 2 (ink level adjusting) operations	
		3	Cumulative number of automatic cleaning 3 (initial filling) operations	
		6	Cumulative number of automatic cleaning 6 (strong normal suction) operations	
		7	Cumulative number of automatic cleaning 7 (aging) operations	
		8	Cumulative number of automatic cleaning 8 (flashing) operations	
		10	Cumulative number of automatic cleaning 10 (ink filling after secondary transportation) operations	
		11	Cumulative number of automatic cleaning 11 (ink filling after head replacement) operations	
		15	Cumulative number of automatic cleaning 15 (dot count small suction) operations	
		16	Cumulative number of automatic cleaning 16 (sedimented ink agitation) operations	
		17	Cumulative number of automatic cleaning 17 (small suction) operations	
		TTL	Total number of automatic cleaning operations	
		CLN-M	Cumulative number of manual cleaning 1 operations	
		1	Cumulative number of manual cleaning 1 (normal suction) operations	Unit: times
		4	Cumulative number of manual cleaning 4 (ink draining from head after head replacement) operations	
		5	Cumulative number of manual cleaning 5 (ink draining from head and tube before transportation) operations	
		6	Cumulative number of manual cleaning 6 (normal strong suction) operations	
		TTL	Total number of manual cleaning operations	

	Print item		Print content	Printed value
COUNTER	CLEAR	INK CONSUME	Cumulative count of ink section consumption amount clearing	Unit: times
		MTC EXC.	Cumulative count of maintenance cartridge replacement count clearing	
		HEAD EXC.	Cumulative count of printhead replacement count clearing	
		PARTS CR1 EXC.	Cumulative count of unit CR-1(carriage unit bushing) replacement count clearing	
		PARTS CR2 EXC.	Cumulative count of unit CR-2(fexible cable unit) replacement count clearing	
		PARTS CR3 EXC.	Cumulative count of unit CR-3(linear encoder sensor/ linear scale/shaft cleaner) replacement count clearing	
		PARTS CR4 EXC.	Cumulative count of unit CR-4(carriage height changing cam) replacement count clearing	
		PARTS CR5 EXC.	Cumulative count of unit CR-5(multi sensor) replacement count clearing	
		PARTS SP1 EXC.	Cumulative count of unit SP-1(ink tube unit) replacement count clearing	
		PARTS PG1 EXC.	Cumulative count of unit PG-1(purge unit) replacement count clearing	
		PARTS HMa1 EXC.	Cumulative count of unit HMa-1(head management sensor) replacement count clearing	
		PARTS MT1 EXC.	Cumulative count of unit MT-1(carriage motor) replacement count clearing	
		PARTS PL1 EXC.	Cumulative count of unit PL-1(feed motor) replacement count clearing	
		PARTS Mi1 EXC.	Cumulative count of unit Mi-1(mist fan/mist exhaust duct) replacement count clearing	
		PARTS CT1 EXC.	Cumulative count of unit CT-1(cutter) replacement count clearing	
		PARTS WF1 EXC.	Cumulative count of unit WF-1(ink absorber under the maintenance cartridge unit) replacement count clearing	
		PARTS WF2 EXC.	Cumulative count of unit WF-2(platen exhaust duct) replacement count clearing	
		FACTORY CNT.	For factory	

	Print item		Print content	Printed value
COUNTER	EXCHANGE	MTC EXC.	Maintenance cartridge replacement count	Unit: times
		HEAD EXC.	Printhead replacement count	
		BOARD EXC.(M/B)	Main controller PCB replacement count	
		PARTS CR1 EXC.	CR-1(carriage unit bushing) replacement count	
		PARTS CR2 EXC.	CR-2(fexible cable unit) replacement count	
		PARTS CR3 EXC.	CR-3(linear encoder sensor/linear scale/shaft cleaner) replacement count	
		PARTS CR4 EXC.	CR-4(carriage height changing cam) replacement count	
		PARTS CR5 EXC.	CR-5(multi sensor) replacement count	
		PARTS SP1 EXC.	SP-1(ink tube unit) replacement count	
		PARTS PG1 EXC.	PG-1(purge unit) replacement count	
		PARTS HMa1 EXC.	HMa-1(head management sensor) replacement count	
		PARTS MT1 EXC.	MT-1(carriage motor) replacement count	
		PARTS PL1 EXC.	PL-1(feed motor) replacement count	
		PARTS Mi1 EXC.	Mi-1(mist fan/mist exhaust duct) replacement count	
		PARTS CT1 EXC.	CT-1(cutter) replacement count	
		PARTS WF1 EXC.	WF-1(ink absorber under the maintenance cartridge unit) replacement count	
		PARTS WF2 EXC.	WF-2(platen exhaust duct) replacement count	
	DETAIL-CNT	MOVE PRINTER	Count of secondary transportation	Unit: times
		MEDIACONF IG-CNT	Count of media registered by media editor	
		N-INKCHK BK, MBK, MBK2, C, M, Y	Count of turning off the ink remaining level detection for each color	

	Print item		Print content	Printed value
COUNTER	INK-USE1	INK BK, MBK, MBK2, C, M, Y	Cumulative consumption amount of generic ink	Unit: ml
		TTL	Total amount of the cumulative consumption of generic ink	
		NINK BK, MBK, MBK2, C, M, Y	Cumulative consumption amount of refilled ink	
		TTL	Total amount of the cumulative consumption of refilled ink	
	INK-USE2	INK BK, MBK, MBK2, C, M, Y	Consumption amount of generic ink of the currently installed ink tank.	Unit: ml
		TTL	Total consumption amount of generic ink of the currently installed ink tanks	
		NINK BK, MBK, MBK2, C, M, Y	Consumption amount of refilled ink of the currently installed ink tank	
		TTL	Total consumption amount of refilled ink of the currently installed ink tanks	
	INK-EXC	INK BK, MBK, MBK2, C, M, Y	Cumulative count of generic ink tank replacement	Unit: times
		TTL	Total amount of the cumulative count of generic ink tank replacement	
		NINK BK, MBK, MBK2, C, M, Y	Cumulative count of refilled ink tank replacement	
		TTL	Total amount of the cumulative count of refilled ink tank replacement	

	Print i	item	Print content	Printed value	
UNTE	MEDIA	NAME	Media type		
	1-7	TTL	Total amount of cumulative print area of roll media and cut sheet	Unit: square/meter, square/feet	
		ROLL	Cumulative print area of roll media		
		CUTSHEET	Cumulative print area of cut sheet		
	MEDIA	NAME	OTHER	OTHER	
	OTHER	TTL	Total amount of cumulative print area of roll media and cut sheet	Unit: square/meter, square/feet	
		ROLL	Cumulative print area of roll media		
		CUTSHEET	Cumulative print area of cut sheet		
	MEDIA SIZE1	36-44	Cumulative print area of roll media equal to or larger than 36 inches but less than 44 inches (physical size)	Unit: square/meter, square/feet, sheets (equivalent of A4)	
	ROLL P- SQ/P- CNT	24-36	Cumulative print area of roll media equal to or larger than 24 inches but less than 36 inches (physical size)		
	CNI	17-24	Cumulative print area of roll media equal to or larger than 17 inches but less than 24 inches (physical size)		
		0-17	Cumulative print area of roll media less than 17 inches (physical size)		
	MEDIA SIZE2 ROLL D- SQ/D- CNT	36-44	Cumulative print area of roll media equal to or larger than 36 inches but less than 44 inches (data size)	Unit: square/meter, square/feet, sheets (equivalent of A4)	
		24-36	Cumulative print area of roll media equal to or larger than 24 inches but less than 36 inches (data size)		
		17-24	Cumulative print area of roll media equal to or larger than 17 inches but less than 24 inches (data size)		
		0-17	Cumulative print area of roll media less than 17 inches (data size)		
	MEDIA SIZE1 CUT P- SQ/P- CNT	36-44	Cumulative print area of cut sheet equal to or larger than 36 inches but less than 44 inches (physical size)	Unit: square/meter, square/feet, sheets (equivalent o A4)	
		24-36	Cumulative print area of cut sheet equal to or larger than 24 inches but less than 36 inches (physical size)		
	CNI	17-24	Cumulative print area of cut sheet equal to or larger than 17 inches but less than 24 inches (physical size)		
		0-17	Cumulative print area of cut sheet less than 17 inches (physical size)		
	MEDIA SIZE2	36-44	Cumulative print area of cut sheet equal to or larger than 36 inches but less than 44 inches (data size)	Unit: square/meter, square/feet, sheets (equivalent of A4)	
	CUT D- SQ/D- CNT	24-36	Cumulative print area of cut sheet equal to or larger than 24 inches but less than 36 inches (data size)		
	CIVI	17-24	Cumulative print area of cut sheet equal to or larger than 17 inches but less than 24 inches (data size)		
		0-17	Cumulative print area of cut sheet less than 17 inches (data size)		
	HEAD DOT	BK, MBK, MBK2, C, M, Y	Dot counts of each colors of the currently installed printhead	Unit: (x 1,000,000) dots	
	CNT.1	TTL	Total dot counts of each colors of the currently installed printhead		
	HEAD DOT	BK, MBK, MBK2, C, M, Y	Cumulative dot counts of each colors	Unit: (x 1,000,000) dots	
	CNT.2	TTL	Total cumulative dot counts of each colors		

Print i	item	Print content	Printed value	
HEAD INF.1 [Installed head]	01	Date & time installed (last 4 times)	YY/MM/DD Display order: Installed date (last) -> Installed date (2nd to last) -> Installed date (3rd to last) -> Installed date (initial)	
	02	Removal date & time (last 3 times)	YY/MM/DD Display order: Last -> 2nd to last -> 3rd to last	
	03	Main unit serial No. (last 3 times)	Display order: Last -> 2nd to last -> 3rd to last	
	04	CLN_A (auto) count	Unit: Times	
	05	CLN_A (manual) count		
	06	Cleaning B (auto/left cap) count		
	07	Cleaning B (auto/right cap) count		
	08	CLN_B (manual) count		
	09	Head replacement ink drain count		
	10	Secondary transport ink drain count		
	11	Secondary transport ink fill count		
	12	Ink filling after head replacement count		
	13	Recovery suction		
	14	Number of sheets printed	Unit: Sheets (A4 equivalent sheets)	
	15	Error log	YY/MM/DD xxxx (last 4 digits) 01: Last, 02: 2nd to last, 03: 3rd to last,, 20: 20th to last	
	16	Refill tank usage log (per chip)	A: x, B: x, C: x, D: x, E: x, F: x	
	17	Firmware version (last 3)	XX.XX YY/MM/DD Display order: Last -> 2nd to last -> 3rd to last	
	18	Head highest temperature (per chip)	A: xxx, B: xxx, C: xxx, D: xxx, E: xxx, F: xxx	
	19	Number of non-discharging nozzles (per nozzle row) chip A row A, chip A row B to chip F row A, chip F row B	AA: xxx, AB: xxx, BA: xxx, BB: xxx, CA: xxx, CB: xxx, DA: xxx, DB: xxx, EA: xxx, EB: xxx, FA: xxx, FB: xxx	
	20	EEPROM format Ver		
HEAD INF.2 [Head installed 2nd to last]	01	Date & time installed (last 4 times)	YY/MM/DD Display order: Installed date (last) -> Installed date (2nd to last) -> Installed date (3rd to last) -> Installed date (initial)	
	02	Removal date & time (last 3 times)	YY/MM/DD Display order: Last -> 2nd to last -> 3rd to last	
	03	Main unit serial No. (last 3 times)	Display order: Last -> 2nd to last -> 3rd to last	
	04	CLN_A (auto) count	Unit: Times	
	05	CLN_A (manual) count		
	06	Cleaning B (auto/left cap) count		
	07	Cleaning B (auto/right cap) count		
	08	CLN_B (manual) count		
	09	Head replacement ink drain count		
	10	Secondary transport ink drain count		
	11	Secondary transport ink fill count		
	12	Ink filling after head replacement count		
	13	Recovery suction		
	14	Number of sheets printed	Unit: Sheets (A4 equivalent sheets)	
	15	Error log	YY/MM/DD xxxx (last 4 digits) 01: Last, 02: 2nd to last, 03: 3rd to last,, 20: 20th to last	
	16	Refill tank usage log (per chip)	A: x, B: x, C: x, D: x, E: x, F: x	
	17	Firmware version (last 3)	XX.XX YY/MM/DD Display order: Last -> 2nd to last -> 3rd to last	
	18	Head highest temperature (per chip)	A: xxx, B: xxx, C: xxx, D: xxx, E: xxx, F: xxx	
	19	Number of non-discharging nozzles (per nozzle row) chip A row A, chip A row B to chip F row A, chip F row B	AA: xxx, AB: xxx, BA: xxx, BB: xxx, CA: xxx, CB: xxx, DA: xxx, DB: xxx, EA: xxx, EB: xxx, FA: xxx, FB: xxx	
	20	EEPROM format Ver		

Print it	tem	Print content	Printed value
PARTS CNT.	[Value of each	Status	OK/W1/W2/E
	parts counter]	Number of days after set	Unit: Days
		Count	
		Life threshold	
		Usage	Unit: %
		Cumulative count	
COGFF	CONDITION	Cogging FF result	0: Disabled 1: Enabled 2: Check required 3: Adjust required
	PARAM0-F	Parameters 1	REF: Motor error (6 digits) PHASE: Phase (3 digits) AMP: Amplitude (3 digits) RATE: Decay rate (3 digits)
	PARAM0-B	Parameters 2	REF: Motor error (6 digits) PHASE: Phase (3 digits) AMP: Amplitude (3 digits) RATE: Decay rate (3 digits)
LF SCALE adjustment	LF-A	LF8 pass	
value (user value)	LF-B	LF1 pass	
	SCALE-A	Scale clean	
	SCALE-B	Scale fast	
PV AUTO JUDGE		Ink reduction mode	ON (NORMAL/LOW only when ON)/Number of times OFF is entered

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Canon imagePROGRAF iPFxxx PRINT INF
 Firm:xx.xx Boot:xx.xx MIT(DBF):x.xx MIT(DB):x.xx
 S/N:xxxxxxxx Date:yyyy/mm/dd
S/N:xxxxxxx TYPE:12 -LF:1 TMP:xx RH:xx SIZE-LF:xxxxx.x -CR:xxxxx.x AFTER INST:xxxx x
HEAD
                         INK
S/N:xxxxxxxx LOT:xxxxxxxx C:xxxxxx M:xxxxxx Y:xxxxxx MBK:xxxxxx MBK2:xxxxxx BK:xxxxxx
WARNING
01:MM/DD HH:MM xxxx
                                       02:MM/DD HH:MM xxxx
03:MM/DD HH:MM xxxx
                                       04:MM/DD HH:MM xxxx
05:MM/DD HH:MM xxxx
                                       06:MM/DD HH:MM xxxx
 07:MM/DD HH:MM xxxx
                                       08:MM/DD HH:MM xxxx
 09:MM/DD HH:MM xxxx
                                       10:MM/DD HH:MM xxxx
 11:MM/DD HH:MM xxxx
                                       12:MM/DD HH:MM xxxx
 13:MM/DD HH:MM xxxx
                                       14:MM/DD HH:MM xxxx
 15:MM/DD HH:MM xxxx
                                       16:MM/DD HH:MM xxxx
 17:MM/DD HH:MM xxxx
                                       18:MM/DD HH:MM xxxx
 19:MM/DD HH:MM xxxx
                                       20:MM/DD HH:MM xxxx
FRROR
 01:MM/DD HH:MM xxxx
                                       02:MM/DD HH:MM xxxx
03:MM/DD HH:MM xxxx
                                       04:MM/DD HH:MM xxxx
05:MM/DD HH:MM xxxx
                                       06:MM/DD HH:MM xxxx
 07:MM/DD HH:MM xxxx
                                       08:MM/DD HH:MM xxxx
 09:MM/DD HH:MM xxxx
                                       10:MM/DD HH:MM xxxx
 11:MM/DD HH:MM xxxx
                                       12:MM/DD HH:MM xxxx
 13:MM/DD HH:MM xxxx
                                       14:MM/DD HH:MM xxxx
 15:MM/DD HH:MM xxxx
                                       16:MM/DD HH:MM xxxx
 17:MM/DD HH:MM xxxx
                                       18:MM/DD HH:MM xxxx
 19:MM/DD HH:MM xxxx
                                       20:MM/DD HH:MM xxxx
JAM
 01:MM/DD HH:MM xxxx xxxxxxxx
  01:x 02:x 03:x 04:x 05:xx 06:x 07:x 08:x
  09:x 10:xxx 11:media_sizexxxxxx 12:media_namexxxxxx
 02:MM/DD HH:MM xxxx xxxxxxxx
  01:x 02:x 03:x 04:x 05:xx 06:x 07:x 08:x
  09:x 10:xxx 11:media_sizexxxxxx 12:media_namexxxxxx
 03:MM/DD HH:MM xxxx xxxxxxxx
  01:x 02:x 03:x 04:x 05:xx 06:x 07:x 08:x
  09:x 10:xxx 11:media_sizexxxxxx 12:media_namexxxxxx
 04:MM/DD HH:MM xxxx xxxxxxxx
  01:x 02:x 03:x 04:x 05:xx 06:x 07:x 08:x
  09:x 10:xxx 11:media sizexxxxxx 12:media namexxxxxx
 05:MM/DD HH:MM xxxx xxxxxxxx
  01:x 02:x 03:x 04:x 05:xx 06:x 07:x 08:x
  09:x 10:xxx 11:media_sizexxxxxx 12:media_namexxxxxx
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Canon imagePROGRAF iPFxxx PRINT INF

Firm:xx.xx Boot:xx.xx MIT(DBF):x.xx MIT(DB):x.xx

S/N:xxxxxxxx Date:yyyy/mm/dd

INK CHECK

C:x M:x Y:x MBK:x MBK2:x BK:x

COUNTER

PRINTER

LIFE-TTL:xxxxxx LIFE-ROLL:xxxxxx LIFE-CUTSHEET:xxxxxx

LIFE A:xxxxxx B:xxxxxx C:xxxxxx D:xxxxxx E:xxxxxx F:xxxxxx

POWER-ON:xxxxxx SLEEP-ON:xxxxxxx CUTTER:xxxxxxx WIPE:xxxxxxx W-INK:xxxxxxx

PDL: GARO:xxxxxx HP-GL/2:xxxxxx

CARRIAGE

PRINT:xxxxxx DRIVE:xxxxxx CR-COUNT:xxxxxx CR-DIST::xxxxxx PRINT-COUNT:xxxxxx

PURGE

CLN-A: 1:xxxxx 2:xxxxx 3:xx 6:xxxx 7:xxx 10:xxx 11:xxx 15:xxx 16:xxxxx 17:xxxxx TTL:xxxxxx

CLN-M: 1:xxxxx 4:xxx 5:xx 6:xxxxx TTL:xxxxx

CLEAR

INK CONSUME:xxx MTC EXC.:xxx HEAD EXC.:xxx

PARTS CR1 EXC.:xx PARTS CR2 EXC.:xx PARTS CR3 EXC.:xx PARTS CR4 EXC.:xx PARTS CR5 EXC.:xx

PARTS SP1 EXC.:xx PARTS PG1 EXC.:xx PARTS HMa1 EXC.:xx PARTS MT1 EXC.:xx PARTS PL1 EXC.:xx

PARTS Mi1 EXC.:xx PARTS CT1 EXC.:xx PARTS WF1 EXC.:xx PARTS WF2 EXC.:xx

FACTORY CNT.:xx

EXCHANGE

MTC EXC.:xxx HEAD EXC.:xxx BOARD EXC.(M/B):xx

PARTS CR1 EXC.:xx PARTS CR2 EXC.:xx PARTS CR3 EXC.:xx PARTS CR4 EXC.:xx PARTS CR5 EXC.:xx

PARTS SP1 EXC.:xx PARTS PG1 EXC.:xx PARTS HMa1 EXC.:xx PARTS MT1 EXC.:xx PARTS PL1 EXC.:xx

PARTS Mi1 EXC.:xx PARTS CT1 EXC.:xx PARTS WF1 EXC.:xx PARTS WF2 EXC.:xx

DETAIL-CNT

MOVE PRINTER:xxx MEDIACONFIG-CNT:xxx

N-INKCHK: C:xxxx M:xxxx Y:xxxx MBK:xxxx MBK2:xxxx BK:xxxx

INK-USE1

INK C:xxxxx.xml M:xxxxx.xml Y:xxxxx.xml MBK:xxxxx.xml MBK2:xxxxx.xml BK:xxxxx.xml

TTL:xxxxxx.xml

NINK C:xxxxx.xml M:xxxxx.xml Y:xxxxx.xml MBK:xxxxx.xml MBK2:xxxxx.xml BK:xxxxx.xml

TTL:xxxxxx.xml

INK-USE2

INK C:xxxxx.xml M:xxxxx.xml Y:xxxxx.xml MBK:xxxxx.xml MBK2:xxxxx.xml BK:xxxxx.xml

TTL:xxxxxx.xml

NINK C:xxxxx.xml M:xxxxx.xml Y:xxxxx.xml MBK:xxxxx.xml MBK2:xxxxx.xml BK:xxxxxx.xml

TTL:xxxxxx.xml

INK-EXC

INK C:xxxx M:xxxx Y:xxxx MBK:xxxx MBK2:xxxx BK:xxxx

TTL:xxxxx

NINK C:xxxx M:xxxx Y:xxxx MBK:xxxx MBK2:xxxx BK:xxxx

TTL:xxxxx

F-7-56

3/5 Canon imagePROGRAF iPFxxx PRINT IN F Firm:xx.xx Boot:xx.xx MIT(DBF):x.xx MIT(DB):x.x x S/N:xxxxxxxx Date:yyyy/mm/d d MEDIA 2 MEDIA 1 TTI : xxxxxxxxx m2 xxxxxxxxx sq.f TTL : xxxxxxxxx m2 xxxxxxxxx sq.f : xxxxxxxxx m2 xxxxxxxxx sq.f **ROLL** : xxxxxxxx.x m2 xxxxxxxx.x sq.f CUTSHEET: xxxxxxxxx m2 xxxxxxxxx sq.f CUTSHEET: xxxxxxxxx m2 xxxxxxxxx sq.f MEDIA 3 MEDIA 4 TTL : xxxxxxx.x m2 xxxxxxx.x sq.f TTL : xxxxxxx.x m2 xxxxxxx.x sq.f ROLL ROLL : xxxxxxx.x m2 xxxxxxx.x sq.f : xxxxxxx.x m2 xxxxxxx.x sq.f CUTSHEET: xxxxxxxxx m2 xxxxxxxxx sq.f CUTSHEET: xxxxxxxxx m2 xxxxxxxxx sq.f MEDIA 5 MFDIA 6 TTL : xxxxxxx.x m2 xxxxxxx.x sq.f TTL : xxxxxxxxx m2 xxxxxxxxx sq.f **ROLL** : xxxxxxx.x m2 xxxxxxx.x sq.f ROLL : xxxxxxxx.x m2 xxxxxxxx.x sq.f CUTSHEET: xxxxxxxxx m2 xxxxxxxxx sq.f CUTSHEET: xxxxxxxxx m2 xxxxxxxxx sq.f MEDIA 7 MEDIA OTHER TTL : xxxxxxx.x m2 xxxxxxx.x sq.f TTL : xxxxxxx.x m2 xxxxxxx.x sq.f : xxxxxxxxx m2 xxxxxxxxx sq.f : xxxxxxxx.x m2 xxxxxxxx.x sq.f CUTSHEET: xxxxxxxxx m2 xxxxxxxxx sq.f CUTSHEET: xxxxxxxx.x m2 xxxxxxxx.x sq.f MEDIA SIZE1 ROLL P-SQ/P-CN T 36-44: xxxxxxxxx m2 xxxxxxxxx sq.f 0 24-36: xxxxxxxxx m2 xxxxxxxxx sq.f 0 17-24: xxxxxxxxx m2 xxxxxxxxx sq.f 0 n 0-17: xxxxxxxxx m2 xxxxxxxxx sq.f MEDIA SIZE2 ROLL D-SQ/D-CN T 36-44: xxxxxxxxx m2 xxxxxxxxx sq.f 0 24-36: xxxxxxxxx m2 xxxxxxxxx sq.f 0 17-24: xxxxxxxxx m2 xxxxxxxxx sq.f 0 0-17: xxxxxxxxx m2 xxxxxxxxx sq.f 0 MEDIA SIZE1 CUT P-SQ/P-CNT 36-44: xxxxxxxxx m2 xxxxxxxxx sq.f 24-36: xxxxxxxxx m2 xxxxxxxxx sq.f 0 17-24: xxxxxxxxx m2 xxxxxxxxx sq.f 0 0-17: xxxxxxxxx m2 xxxxxxxxx sa.f MEDIA SIZE2 CUT D-SQ/D-CNT 36-44: xxxxxxxxx m2 xxxxxxxxx sq.f 0 24-36: xxxxxxxxx m2 xxxxxxxxx sq.f 0 17-24: xxxxxxxxx m2 xxxxxxxxx sq.f 0 0-17: xxxxxxxx.x m2 xxxxxxxx.x sq.f

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Canon imagePROGRAF iPFxxx PRINT IN F

Firm:xx.xx Boot:xx.xx MIT(DBF):x.xx MIT(DB):x.x x

S/N:xxxxxxxx Date:yyyy/mm/d d

HEAD DOT CNT. 1

C:xxxxxxxx M:xxxxxxxx Y:xxxxxxxx MBK:xxxxxxxx MBK2:xxxxxxxx BK:xxxxxxxx x TTL:xxxxxxxxxxx x

HEAD DOT CNT. 2

C:xxxxxxxx M:xxxxxxxx Y:xxxxxxxx MBK:xxxxxxxx MBK2:xxxxxxxx BK:xxxxxxxx x TTL:xxxxxxxxxxx x

HEAD INF. 1

 $1: YY/MM/DD \ YY/MM/$

3:xxxxxxx xxxxxxx xxxxxx x

4:xxxxx 5:xxxxx 6:xxxxx 7:xxxxx 8:xxx 9:xxx 10:xxx 11:xxx 12:xx x

13:xxxxxxxx 19:1

14: 1:YY/MM/DD xxxxxxxx-xxxx 2:YY/MM/DD xxxxxxxx-xxxx 3:YY/MM/DD xxxxxxxx-xxx x

4:YY/MM/DD xxxxxxxx-xxxx 5:YY/MM/DD xxxxxxxx-xxxx 6:YY/MM/DD xxxxxxxx-xxx x

7:YY/MM/DD xxxxxxxx-xxxx 8:YY/MM/DD xxxxxxxx-xxxx 9:YY/MM/DD xxxxxxxx-xxxx x

10:YY/MM/DD xxxxxxxx-xxxx 11:YY/MM/DD xxxxxxxx-xxxx 12:YY/MM/DD xxxxxxxx-xxxx x

13:YY/MM/DD xxxxxxxx-xxxx 14:YY/MM/DD xxxxxxxx-xxxx 15:YY/MM/DD xxxxxxxx-xxx x

16:YY/MM/DD xxxxxxxx-xxxx 17:YY/MM/DD xxxxxxxx-xxxx 18:YY/MM/DD xxxxxxxx-xxx x

19:YY/MM/DD xxxxxxxxx-xxxx 20:YY/MM/DD xxxxxxxx-xxx x

15:A:x B:x C:x D:x E:x F: x

16:XX.XX YY/MM/DD XX.XX YY/MM/DD XX.XX YY/MM/D D

17:A:xxx B:xxx C:xxx D:xxx E:xxx F:xx x

18:AA:xxx AB:xxx BA:xxx BB:xxx CA:xxx CB:xxx DB:xxx DB:xxx EB:xxx FA:xxx FB:xx x

HEAD INF. 2

1:YY/MM/DD YY/MM/DD YY/MM/DD YY/MM/DD 2:YY/MM/DD YY/MM/DD YY/MM/D D

3:xxxxxxxx xxxxxxx xxxxxx x

4:xxxxx 5:xxxxx 6:xxxxx 7:xxxxx 8:xxx 9:xxx 10:xxx 11:xxx 12:xx x

13:xxxxxxxx 19:1

14: 1:YY/MM/DD xxxxxxxx-xxxx 2:YY/MM/DD xxxxxxxx-xxxx 3:YY/MM/DD xxxxxxxx-xxx x

4:YY/MM/DD xxxxxxxx-xxxx 5:YY/MM/DD xxxxxxxx-xxxx 6:YY/MM/DD xxxxxxxx-xxx x

7:YY/MM/DD xxxxxxxx-xxxx 8:YY/MM/DD xxxxxxxx-xxxx 9:YY/MM/DD xxxxxxxx-xxx x

10:YY/MM/DD xxxxxxxx-xxxx 11:YY/MM/DD xxxxxxxx-xxxx 12:YY/MM/DD xxxxxxxx-xxx x

13:YY/MM/DD xxxxxxxx-xxxx 14:YY/MM/DD xxxxxxxx-xxxx 15:YY/MM/DD xxxxxxxx-xxx x

16:YY/MM/DD xxxxxxxx-xxxx 17:YY/MM/DD xxxxxxxx-xxxx 18:YY/MM/DD xxxxxxxx-xxx x

19:YY/MM/DD xxxxxxxx-xxxx 20:YY/MM/DD xxxxxxxx-xxx x

15:A:x B:x C:x D:x E:x F: x

16:XX.XX YY/MM/DD XX.XX YY/MM/DD XX.XX YY/MM/D D

17:A:xxx B:xxx C:xxx D:xxx E:xxx F:xx x

18:AA:xxx AB:xxx BA:xxx BB:xxx CA:xxx CB:xxx DA:xxx DB:xxx EA:xxx EB:xxx FA:xxx FB:xx x

```
5/5
Canon imagePROGRAF iPFxxx PRINT IN F
Firm:xx.xx Boot:xx.xx MIT(DBF):x.xx MIT(DB):x.x x
S/N:xxxxxxxx Date:yyyyy/mm/d d
PARTS CNT.
 PARTS CR1: OK 0 0.0
                       0.0 0%
                                  0. 0
PARTS CR2: OK 0 0.0
                      0.0 0%
                                  0. 0
PARTS CR3: OK 0 0.0
                      0.0 0%
                                  0. 0
PARTS CR4: OK 0 0.0
                      0.0 0%
                                  0. 0
PARTS CR5: OK 0 0.0
                      0.0 0%
                                  0. 0
 PARTS SP1:OK 0 0
                       0 0%
                      0 0%
PARTS PG1: OK 0 0
                                   0
PARTS HMa1: OK 0 0
                       0 0%
                                   0
PARTS MT1: OK 0 0
                      0 0%
                                   0
PARTS PL1: OK 0 0
                      0 0%
                                  0
 PARTS Mi1: OK 0 0
                      0 0%
                                  0
 PARTS CT1: OK 0 0
                       0 0%
                                   0
                      0 0%
PARTS WF1: OK 0 0
                                   0
PARTS WF2: OK 0 0
                      0 0%
                                   0
COGFF
CONDITION: 0
PARAMO-B: REF: xxxxxx xxxxxx xxxxxx xxxxxx PHASE: xxx xxx xxx xx xx
         AMP:
               XXX
                     XXX
                          XXX
                                XXX RATE: XXX XXX XXX XX X
LF-A
ROLL LARGE: XXX.XXXX MIDDLE: XXX.XXXX SMALL: XXX.XXXX SMALLER: XXX.XXXX X
CUT LARGE: XXX.XXXX MIDDLE: XXX.XXXX SMALL: XXX.XXXX SMALLER: XXX.XXXX X
ROLL LARGE: XXX.XXXX MIDDLE: XXX.XXXX SMALL: XXX.XXXX SMALLER: XXX.XXXX X
 CUT LARGE: XXX.XXXX MIDDLE: XXX.XXXX SMALL: XXX.XXXX SMALLER: XXX.XXX X
SCALE-A
ROLL LARGE: XXX MIDDLE: XXX SMALL: XXX SMALLER: XX X
CUT LARGE: XXX MIDDLE: XXX SMALL: XXX SMALLER: XX X
SCALE-B
ROLL LARGE: XXX MIDDLE: XXX SMALL: XXX SMALLER: XX X
CUT LARGE: XXX MIDDLE: XXX SMALL: XXX SMALLER: XX X
```

PV AUTO JUDGE: ON(NORMAL), 0

7.2 Special Mode

7.2.1 Special Modes for Servicing

iPF765 / iPF760 / iPF750 / iPF755

This printer supports the following special modes in addition to the service mode:

- PCB replacement mode
- Download mode
- Counter display mode

1. PCB replacement mode

This mode is used when replacing the main PCB or MC relay PCB.

By executing this mode,

- Backup data of the settings and counter values stored in the MC relay PCB are moved to the new main PCB. The data such as the settings and counter values are copied to the MC relay PCB.

a) Entering the PCB replacement mode

Follow the same procedure as that for entering the service mode. (With the [Load] button and [Navigate] button pressed down, turn on the [Power] button.)

When the printer starts up, compare the serial number memorized in the main PCB's EEPROM with that memorized in the MC relay PCB's EEPROM. If they do not match, or no serial number is memorized in either EEPROM, enter the PCB replacement mode.

b) Procedure

Select "CPU BOARD" or "MC BOARD" using the [◀] and [▶] buttons, and then press the [OK] button to determine it.

Select this after replacing the main PCB. The data in the MC relay PCB is copied to the main PCB.

- MC BOARD

Select this before replacing the MC relay PCB.

The data in the main controller PCB is copied to the MC relay PCB.

c) Exiting the PCB replacement mode

Turning off the [Power] button of the printer allows you to exit the PCB replacement mode.

For details on how to replace the PCB, see DISASSEMBLY/REASSEMBLY > Points to Note on Disassembly and Reassembly > PCBs.

2. Download mode

Use this mode only when updating the firmware without performing initialization.

This mode can update the firmware even if the printhead and ink tanks have not been installed to the printer.

For instruction on how to update the main controller, refer to "TROUBLESHOOTING" > "Version Up".

a) Entering the download mode

a) Directing the downdard most a little of the printer.

1) Turning off the [Power] button of the printer.

2) With the [Stop] and [Navigate] buttons pressed down, turn on the [Power] button of the printer.

* Keep pressing the above buttons until "Initializing" appears on the display.

When "Download Mode/Send Firmware" is shown on the display, transfer the firmware.

When downloading of the firmware is completed, the printer is turned off automatically.

3. Counter display mode

Use this mode to view only printer counter information.

a) Invoking counter display mode

- 1) Press the [MENU] button to keep [Printer Info] > [System Info] selected.
- 2) Press the [▲] button whole holding down the [MENU] button + [OK] button to invoke counter display mode.

b) How to view counter display mode

- S/N: Unit serial number
- CNT: Number of copies printed in A4 terms (unit: copies)

Chapter 8 ERROR CODE

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8.1 Outline

8.1.1 Outline

iPF765 / iPF760 / iPF750 / iPF755

The printer indicates errors using the display and LEDs. If an error occurs during printing, the printer status is also displayed on the status monitor of the printer driver.

The following three types of errors are displayed on the display:

- Warning

Status where the print operation can be continued without remedying the cause of the problem. This can, however, adversely affect the printing results.

Status where the print operation is stopped, and the regular operation cannot be recovered until the cause of the problem is remedied.

- Service call error

When a service call error occurs, the error is not cleared and the error indication remains on the operation panel even if the printer is powered off and on again. (Occurrence of the service call error is indicated again at power-on.)

This measure is taken to prevent user's recovery of the service call error and damages to the printer.

Service call errors can be cleared, however, by starting up the printer in the service mode.

Note that some of the warnings, errors, and service call error described in the following tables may not appear in this printer. In addition, the message that appears on the screen may not be the same as what is described in the table.

The first 4 digits of Warning and Error code show the following description.

The first 2 digits of code	Description
01xxxxxx-xxx	Warning
03xxxxxx-xxx	Error

The next 2 digits of code	Description
xx01xxxx-xxxx	Jam-related
xx03xxxx-xxxx	Cover-related
xx06xxxx-xxxx	Media-related
xx13xxxx-xxxx	Controller-related
xx1Axxxx-xxxx	HDD-related
xx32xxxx-xxxx	Media-related
xx34xxxx-xxxx	PDL-related
xx80xxxx-xxxx	Printhead-related
xx81xxxx-xxxx	Inktank-related
xx83xxxx-xxxx	Inktank-related
xx84xxxx-xxxx	Maintenance cartridge-related
xx86xxxx-xxxx	Print-related
xx87xxxx-xxxx	Cutter-related
xx89xxxx-xxxx	Media take-up unit-related
xx90xxxx-xxxx	Version up-related

8.2 Warning Table

8.2.1 Warnings

iPF765 / iPF760 / iPF750 / iPF755

*: Codes represent the numbers that are displayed in DISPLAY of the service mode and that are recorded in PRINT INF. As to PRINT INF, the codes record the last 4 digits. Messages that are not accompanied by a code indication are not logged.

Display message	Code*	Condition detected	Action
Cannot cut paper. Lift the release lever and reload the paper.	00000000-1011	Cannot cut perform force cutting because paper is too short.	Reload new paper.
Paper Mismatch.	01061000-1021	Paper type mismatch	Match the paper type in printer driver and the one specified in printer panel.
Papr Size Mismatch	01063000-1022	Paper size mismatch	Match the paper size in printer driver and the one specified in printer panel.
MediaType Mismatch	01063000-1023	Paper size/type mismatch	Match the paper type/size in printer driver and the ones specified in printer panel.
PaperWidth Mismatch	01063000-1054	Roll media width mismatch The occurrence conditions of roll paper width mismatch have been met with "Warning" set in [Detect Mismatch] in the menu settings.	The warning is cleared when the print job is completed or cancelled.
Mail box nearly full. Delete unwanted data	011A1001-2901	The free hard disk space left for Personal Boxes in the printer's hard disk does not have more than 1 GB, combined.	Delete unneeded jobs stored in Personal Boxes.
Maximum jobs stored. Delete unwanted data.	011A1006-2907	Saved jobs exceed the Personal Box capacity.	Press the stop button to cancel the print job. Delete print jobs from the queue. Delete unneeded jobs stored on the hard disk.
The paper is too small.	013200D2-1051	Size clip error	Check the media size check. Change the media size.
GL2:W0501 The memory is full.	01340501-1040	Memory full (HP-GL/2)	Check if there is the non-image area of the print. Verify the transmitted data before reprinting.
GL2:W0502 The parameter is out of range.	01340502-1041	Invalid parameter (HP-GL/2)	Check if there is the non-image area of the print. Verify the transmitted data before reprinting.
GL2:W0504 This command is not supported.	01340504-1043	Invalid command (HP-GL/2)	Check if there is the non-image area of the print. Verify the transmitted data before reprinting.
GL2:W0903 The memory is full.	01340903-1047	Overflow of replot buffer (HP-GL/2)	Check if there is the non-image area of the print. Verify the transmitted data before reprinting.
GL2:W0904 The memory is full.	01340904-1048	Overflow of Polygon buffer (HP-GL/2)	Check if there is the non-image area of the print. Verify the transmitted data before reprinting.
GARO W1221	01341221-1030	GARO (image mode) : Unknown command	Verify the transmitted data before reprinting.
GARO W1222	01341222-1031	GARO (image mode) : Invalid parameter count (no parameters)	Check if there is the non-image area of the print. Verify the transmitted data before reprinting.
GARO W1223	01341223-1032	GARO (image mode): Required parameter missing	Check if there is the non-image area of the print. Verify the transmitted data before reprinting.
GARO W1224	01341224-1033	GARO error	Check if there is the non-image area of the print. Verify the transmitted data before reprinting.
GARO W1225	01341225-1034	GARO (image mode) : Other warning	Check if there is the non-image area of the print. Verify the transmitted data before reprinting.
GARO W1226	01341226-103A	GARO (image mode): Image processing table error	Verify that there is no image missing in print result. Verify the transmitted data before reprinting.
GARO W1231	01341231-1035	GARO (setup) : Unknown command	Check if there is the non-image area of the print. Verify the transmitted data before reprinting.
GARO W1232	01341232-1036	GARO (setup) : Invalid parameter count	Check if there is the non-image area of the print. Verify the transmitted data before reprinting.
GARO W1233	01341233-1037	GARO (setup) : Required parameter missing	Check if there is the non-image area of the print. Verify the transmitted data before reprinting.
GARO W1234	01341234-1038	GARO (setup) : Data out of bounds	Check if there is the non-image area of the print. Verify the transmitted data before reprinting.
GARO W1235	01341235-1039	GARO (setup) : Other warning	Check if there is the non-image area of the print. Verify the transmitted data before reprinting.
Problem with Printhead. Chk printing results	01800500-1010	Number of non-discharging nozzles in printhead: Warning level	Clean the printhead. Renew the printhead. Identify the head management sensor unit.
Problem with Printhead R Chk printing results	01800500-1012	Non-discharge occurred in printhead1	Clean the printhead. Renew the right printhead.
Problem with Printhead L Chk printing results	01800500-1013	Non-discharge occurred in printhead2	Clean the printhead. Renew the left printhead.
Ink Level: Check	01810101-1001	Y ink tank near-empty	Renew the ink tank.
No ink tank loaded. Check ink tank.	01810101-1411	Y ink tank removal	Install the Y ink tank.
Ink Level: Check	01810102-1002	M ink tank near-empty	Renew the ink tank.

Display message	Code*	Condition detected	Action
No ink tank loaded.	01810102-1412	M ink tank removal	Install the M ink tank.
Check ink tank. Ink Level: Check	01810103-1003	C ink tank near-empty	Renew the ink tank.
No ink tank loaded.	01810103-1413	C ink tank removal	Install the C ink tank.
Check ink tank.			
Ink Level: Check	01810104-1000	BK ink tank near-empty	Renew the ink tank.
Ink Level: Check No ink tank loaded.	01810104-1004 01810104-1410	PM ink tank near-empty BK ink tank removal	Renew the ink tank. Install the BK ink tank.
Check ink tank.			
No ink tank loaded. Check ink tank.	01810104-1414	PM ink tank removal	Install the PM ink tank.
Ink Level: Check	01810105-1005	PC ink near-empty	Renew the ink tank.
No ink tank loaded. Check ink tank.	01810105-1415	PC ink tank removal	Install the PC ink tank.
Ink Level: Check	01810106-1006	MBK ink tank near-empty	Renew the ink tank.
No ink tank loaded. Check ink tank.	01810106-1416	MBK ink tank removal	Install the MBK ink tank.
Ink Level: Check	01810107-1007	MBK2 ink tank near-empty	Renew the ink tank.
Not much ink is left. Prepare to replace the ink.	01810107-100A	R ink tank near-empty	Renew the R ink tank.
No ink tank loaded. Check ink tank.	01810107-1417	MBK ink tank removal	Install the MBK ink tank.
No ink tank loaded. Check ink tank.	01810107-141A	No R ink tank warning	Install the ink tank.
Ink Level: Check	01810108-1008	GY ink near-empty	Renew the ink tank.
Not much ink is left. Prepare to replace the ink.	01810108-100C	G ink tank near-empty	Renew the G ink tank.
No ink tank loaded. Check ink tank.	01810108-1418	GY ink tank removal	Install the GY ink tank.
No ink tank loaded. Check ink tank.	01810108-141C	No G ink tank warning	Install the ink tank.
Ink Level: Check	01810109-1009	PGY ink near-empty	Renew the ink tank.
Not much ink is left. Prepare to replace the ink.	01810109-100B	B ink tank near-empty	Renew the B ink tank.
No ink tank loaded. Check ink tank.	01810109-1419	PGY ink tank removal	Install the PGY ink tank.
No ink tank loaded. Check ink tank.	01810109-141B	No B ink tank warning	Install the ink tank.
Ink tank is empty. Replace the ink tank.	01810301-1401	Y ink tank empty	Renew the Y ink tank.
Ink tank is empty. Replace the ink tank.	01810302-1402	M ink tank empty	Renew the M ink tank.
Ink tank is empty. Replace the ink tank.	01810303-1403	C ink tank empty	Renew the C ink tank.
Ink tank is empty. Replace the ink tank.	01810304-1400	BK ink tank empty	Renew the BK ink tank.
Ink tank is empty. Replace the ink tank.	01810304-1404	PM ink tank empty	Renew the PM ink tank.
Ink tank is empty. Replace the ink tank.	01810305-1405	PC ink tank empty	Renew the PC ink tank.
Ink tank is empty. Replace the ink tank.	01810306-1406	MBK ink tank empty	Renew the MBK ink tank.
Ink tank is empty. Replace the ink tank.	01810307-1407	MBK2 ink tank empty	Renew the MBK2 ink tank.
Ink tank is empty. Replace the ink tank.	01810307-140A	R ink tank empty	Renew the R ink tank.
Ink tank is empty. Replace the ink tank.	01810308-1408	GY ink tank empty	Renew the GY ink tank.
Ink tank is empty. Replace the ink tank.	01810308-140C	G ink tank empty	Renew the G ink tank.
Ink tank is empty. Replace the ink tank.	01810309-1409	PGY ink tank empty	Renew the PGY ink tank.
Ink tank is empty. Replace the ink tank.	01810309-140B	B ink tank empty	Renew the B ink tank.
Prepare for maint cart replacement.	01841001-281A	Maintenance cartridge near-full	Replace the maintenance cartridge.
This type of paper is not compatible with HP-GL/2.	01860006-1015	Non-support paper of HP-GL/2	Exchange for the compatible paper to HP-GL/2.
Borderless printing not possible. Check supported paper.	01861001-1052	Borderless printing disabled (unsupported size)	The warning is cleared when the print job is completed or cancelled.
		The occurrence conditions of borderless printing not possible error (unsupported size) have been met with "Warning" set in [Detect Mismatch] in the menu settings.	

Display message	Code*	Condition detected	Action
Paper position not suitable for borderless printing.	01861001-1053	Borderless printing disabled (physical)	The warning is cleared when the print job is completed or cancelled.
printing.		The occurrence conditions of borderless printing not possible error (physical) have been met with "Warning" set in [Detect Mismatch] in the menu settings.	or cancened.
Mail box full. Now printing without saving data.	01861003-2902	100 jobs are stored in the Personal Box.	Delete unneeded jobs stored in Personal Boxes.
Before borderless printing, move the blue platen switch.	01861004-1049	The platen shutter is closed at the borderless printing.	Open the corresponding platen shutter. Check the platen and multi sensor and surrounding parts. Replace the multi sensor.
Blue platen switch is dirty. Please clean the switch.	01861004-1050	Platen shutter cleaning warning	Clean the platen shutter.
Before borderless printing, move the blue platen switch.	01861006-1055	Platen shutter No.1 open warning	Open the corresponding platen shutter. Check the platen and multi sensor and surrounding parts. Replace the multi sensor.
Before borderless printing, move the blue platen switch.	01861007-1056	Platen shutter No.2 open warning	Open the corresponding platen shutter. Check the platen and multi sensor and surrounding parts. Replace the multi sensor.
Before borderless printing, move the blue platen switch.	01861008-1057	Platen shutter No.3 open warning	Open the corresponding platen shutter. Check the platen and multi sensor and surrounding parts. Replace the multi sensor.
Before borderless printing, move the blue platen switch.	01861009-1058	Platen shutter No.4 open warning	Open the corresponding platen shutter. Check the platen and multi sensor and surrounding parts. Replace the multi sensor.
Before borderless printing, move the blue platen switch.	0186100A-1059	Platen shutter No.5 open warning	Open the corresponding platen shutter. Check the platen and multi sensor and surrounding parts. Replace the multi sensor.
Before borderless printing, move the blue platen switch.	0186100B-105A	Platen shutter No.6 open warning	Open the corresponding platen shutter. Check the platen and multi sensor and surrounding parts. Replace the multi sensor.
Before borderless printing, move the blue platen switch.	0186100C-105B	Platen shutter No.7 open warning	Open the corresponding platen shutter. Check the platen and multi sensor and surrounding parts. Replace the multi sensor.
Before borderless printing, move the blue platen switch.	0186100D-105C	Platen shutter No.8 open warning	Open the corresponding platen shutter. Check the platen and multi sensor and surrounding parts. Replace the multi sensor.
Before borderless printing, move the blue platen switch.	0186100E-105D	Platen shutter No.9 open warning	Open the corresponding platen shutter. Check the platen and multi sensor and surrounding parts. Replace the multi sensor.
Before borderless printing, move the blue platen switch.	0186100F-105E	Platen shutter No.10 open warning	Open the corresponding platen shutter. Check the platen and multi sensor and surrounding parts. Replace the multi sensor.
Before borderless printing, move the blue platen switch.	01861010-105F	Platen shutter No.11 open warning	Open the corresponding platen shutter. Check the platen and multi sensor and surrounding parts. Replace the multi sensor.
Before borderless printing, move the blue platen switch.	01861011-1060	Platen shutter No.12 open warning	Open the corresponding platen shutter. Check the platen and multi sensor and surrounding parts. Replace the multi sensor.
Before borderless printing, move the blue platen switch.	01861012-1061	Platen shutter No.13 open warning	Open the corresponding platen shutter. Check the platen and multi sensor and surrounding parts. Replace the multi sensor.
Before borderless printing, move the blue platen switch.	01861013-1062	Platen shutter No.14 open warning	Open the corresponding platen shutter. Check the platen and multi sensor and surrounding parts. Replace the multi sensor.
Parts replacement time has passed. Call for service.		Parts counter W2 level	After checking the parts counter in service mode, replace any part whose counter is nearing the error value.
End of paper feed. Cannot feed paper more.		Forced feed limit	Check the remaining quantity of roll media.
Prepare for parts replacement. Call for service.		Parts counter W1 level	Check the parts counter in service mode.

8.3 Error Table

8.3.1 Errors

iPF765 / iPF760 / iPF750 / iPF755

*: Codes represent the numbers that are displayed in DISPLAY of the service mode and that are recorded in PRINT INF. As to PRINT INF, the codes record the last 4 digits.

Display message	Code*	Condition detected	Action
Paper size not detected.	03010000-200A	Unable to detect the paper width (Paper	Reload the paper.
Reload paper. Paper size not detected.	03010000-200C	loaded at an improper position) Unable to detect the leading end of paper	Check the leading end of paper. Reload the paper.
Lift the release lever and reload the paper.	03010000-2000	Unable to detect the leading end of paper	Check the leading end of paper. Retoad the paper.
Leading edge detection error. Lift the release lever and align leading edge with orange line.	03010000-200D	Unable to detect the trailing end of cut sheet	Check the sheet length. Check to see if paper has not jammed.
This paper cannot be used. Check supported paper sizes.	03010000-200E	Undersized paper (cut sheets/roll media)	Replace with larger-sized paper.
This paper cannot be used. Check supported paper sizes.	03010000-200F	Oversized paper (cut sheets/roll media)	Replace with smaller-sized paper.
Paper jam. Manually rewind roll all the way.	03010000-2016	Cut sheet feed failure	Check or replace a cut sheet.
Paper size not detected. Lift the release lever and reload the paper.	03010000-2017	Paper (right) edge detection error	Check the right edge of paper. Check the paper type.
Paper size not detected. Lift the release lever and reload the paper.	03010000-2018	Paper (left) edge detection error	Check the left edge of paper. Check the paper type.
! Paper not aligned with right guide.	03010000-201A	Paper (right) edge detection error (cut sheet pick-up)	Set or replace the media.
(Change to the following message)			
! Push the release lever back, then reload the paper.			
! Paper not aligned with right guide. (Change to the following message)	03010000-201B	Paper (right) edge detection error (roll media pick-up)	Set or replace the media.
! Push the release lever back, then reload			
the paper. Paper jam.	03010000-201C	Provide the desired and the state of the sta	Coton and the section
Lift the release lever and remove the	03010000-2010	Paper (right) edge detection error (cut sheet printing)	Set of replace the media.
paper. Paper jam.	03010000-201D	Paper (left) edge detection error (roll media	Set or replace the media.
Lift the release lever and remove the paper.		printing)	
Cannot print as specified. Replace paper with A4/LTR (vertical) or larger	03010000-2E1F	Undersized paper loaded for internal printing (A3 or larger)	Replace with A3/11"x17" or any larger-sized paper A3/11"x17"
Cannot feed paper. Remove paper and press Load/Eject.	03010000-2E25	Paper jam while feeding/ejecting/printing	Remove the paper jam and reload the paper.
Cannot feed paper. Lift the release lever and reload paper. or Paper jam.	03010000-2E27	Paper jam during feeding/printing/ejection	Reload the paper.
Manually rewind roll all the way.			
Paper jam. Manually rewind roll all the way and press OK.	03010000-2E3A	Media load failure	Check the pick-up unit and roll media. Check to see if paper has not jammed.
Paper jam. Manually rewind roll all the way and press OK.	03010000-2E3B	Media load failure (lower roll)	Check the pick-up unit and roll media. Check to see if paper has not jammed.
! Roll jam Lift the release lever.	03010000-2E3C	When operating with cut sheet, paper jam is detected.	Check the paper path, and check if paper is stuck inside the machine.
! Roll 1 (upper) jam Lift the release lever.	03010000-2E3D	When operating with upper roll paper, paper jam is detected.	Check the paper path, and check if paper is stuck inside the machine.
! Roll 2 (lower) jam Lift the release lever.	03010000-2E3E	When operating with lower roll paper, paper jam is detected.	Check the paper path, and check if paper is stuck inside the machine.
! Roll jam Lift the release lever.	03010000-2E3F	When operating with roll paper, paper jam is detected.	Check the paper path, and check if paper is stuck inside the machine.
Error in cutter position.	03010000-2E47	Cutter position error	Check the cutter unit and surrounding part.
Hardware error. 03130031-2E29 Turn off printer, wait, then turn on again.	03010000-2F29	Feed motor timeout (Roll media)	Check the roll feed unit. Check roll media. Check to see if paper has not jammed in the printer.
Use another paper.	03010000-2F33	Unadjustable because of transparent media	Replace with adjustable media.
Press Online to clear the error.			

Display message	Code*	Condition detected	Action
Paper loaded askew. Lift the release lever.	03016000-2010	Skew	Correct the skew in the paper and reload it.
Ink tank cover is open. Turn off printer, wait a while, and turn it on again.	03031000-2E10	Ink tank cover abnormally open	Close the ink tank cover and turn on the printer again.
Carriage Cover is open.	03031000-2E11	Printhead cover open	Close the carriage cover and turn off the printer, and turn
Turn off printer, wait a while, and turn it on again.			it on again.
Rel lever is in wrong position. Turn off printer, wait, then turn on again.	03031000-2E12	Release lever open	Close the release lever and turn off the printer, and turn it on again.
Rel lever is in wrong position. Turn off printer, wait, then turn on again.	03031000-2F21	Pinch roller open error	Check the pinch roller unit and surrounding part.
Top cover is open. Turn off printer, wait a while, and turn it on again.	03031000-2F38	Top cover abnormally open	Close the top cover and turn on the printer again.
! Unable to detect ink level correctly.	03031101-25B7	With ink tank cover open, ink has diminished below the pin check level. During printing with ink tank cover open, the ink has diminished below the pin check level. *Under study as a part of stop-less supply system. This error is intended for preventing the ink tank to be installed in other model (iPF710) using the same ink tank by the hardware configuration that disables writing to ink tank EEPROM while ink tank cover is open.	By closing the ink tank cover, this warning is cleared. If the pin check tank is removed in this condition, the error changes to the pin check tank removal error. Or, if printing is continued in this condition, and the subtank corresponding to the pin check tank is detected empty, the error changes to the subtank corresponding to pin check tank empty error.
! Paper mismatch Make sure media type and paper size match for the adjustment print.	03060000-2E20	Paper type mismatch at adjustment	Choose the same paper type as the first page and perform adjustment printing.
Sheet printing is selected. Press Load/Eject and load sheets.	03060100-2E02	After starting to print sheet, no manual feeding paper has been detected.	Load cut sheet in manual feeding slot.
Sheet printing is selected. Press Load/Eject and load sheets.	03060100-2E04	No front manual feed paper	Load cut sheet in the front manual feed paper slot.
Sheet printing is selected. Press Load/Eject and load sheets.	03060100-2E05	After starting to print sheet, no manual feeding paper has been detected.	Load cut sheet in manual feeding slot.
Sheet printing is selected. Press Load/Eject and load sheets.	03060200-2E03	No cassette paper	Load cut sheet in the cassette.
Cassette printing is selected. Press Load/Eject and remove manually	03060200-2E0B	After manual feed cut sheet had been loaded, data with cassette specification was received.	Load cut sheet in the cassette.
Roll printing is selected. Press Load/Eject and load a roll.	03060A00-2E00	Data with a roll media specification has been received but no roll media are loaded.	Load roll media.
Roll printing is selected. Press Load/Eject and load a roll.	03060A00-2E01	No roll paper at internal printing	Load roll media.
PaprWidth Mismatch Plain Paper ISO A3	03060A00-2E08	Paper width mismatch	Check the paper width and print.
Online=Print Stop=Stop Printing			
No Roll Feed Unit. Turn printer off and install roll feed unit.	03060A00-2E0E	Roll media unit not installed.	Install the roll media unit.
The roll is empty. Lift the release lever and replace the roll.	03060A00-2E1B	Roll media end	Renew the supply of roll media.
Roll feed unit err Turn off printer and check roll feed unit	03060A00-2E24	Roll cam sensor error	Check the roll paper unit.
Roll Paper Plain Paper ISO A3	03060A00-2E33	Roll media is not loaded when receiving the printing job. Roll paper is not loaded when a job with roll paper specification has been received.	(1) Choose [Load Roll Paper] and load paper according to the panel guidance. (2) Choose [Stop Printing] or press the Stop button to stop printing.
Load Roll Paper Stop Printing			(3) Lift the release lever, and load paper.
! Roll2 (Lower) printing is selected. Press Load/Eject and load a roll.	03060A00-2E34	Roll paper is not loaded. (lower roll)	(1) Choose [Load Roll Paper] and load paper according to the panel guidance. (2) Choose [Stop Printing] or press the Stop button to stop printing. (3) Lift the release lever, and load paper.
Roll printing is selected. Press Load/Eject and load a roll.	03060A00-2E35	Roll media is not loaded for internal printing.	Reload the roll media.
! Roll 1 (Upper) printing is selected. Press Load/Eject and load a roll.	03060A00-2E37	Roll paper is not loaded. (upper roll)	(1) Choose [Load Roll Paper] and load paper according to the panel guidance. (2) Choose [Stop Printing] or press the Stop button to stop printing. (3) Lift the release lever, and load paper.
! Roll printing is selected. Press Load/Eject and load a roll.	03060B00-2E36	Roll media is not loaded for internal printing. (lower roll)	Load the roll media.

Display message	Code*	Condition detected	Action
! The roll is empty.	03060B00-2E39	Lower roll end	Load roll paper in lower roll.
Lift the release lever and replace the roll.			
This type of paper is not compatible with	03061000-2E15	Non-support media of HP-GL/2	Exchange for the compatible paper to HP-GL/2 before
HP-GL/2. Online: Print			reprinting.
Stop: Stop Printing			
Load/Eject: Change Paper Wrong paper size.	03063000-2E08	Paper width mismatch	Check the paper width and print.
Check paper size setting in driver.	03003000-2E08	Paper width mismatch	Check the paper width and print.
Online: Print Stop: Stop Printing			
! Hardware error. 03130000-2E21 Turn off printer, wait, then turn on again.	03130000-2E21	IEEE1394 port error	Restart or replace the IEEE1394 board.
Hardware error. 03130031-260E Turn off printer, wait, then turn on again.	03130031-260E	Gap detection error	Check the carriage unit and surrounding parts. Replace the main controller PCB.
Hardware error. 03130031-260F	03130031-260F	Gap reference surface error	Replace the multi sensor reference.
Turn off printer, wait, then turn on again. Hardware error.	03130031-2618	VIII It	Charlest and a second second
03130031-2618 Turn off printer, wait, then turn on again.	03130031-2618	VH voltage error	Check the power supply unit.
Hardware error. 03130031-290A	03130031-290A	Hard disk disconnection error	Check the connection status of HDD.
Turn off printer, wait, then turn on again.			
Hardware error. 03130031-2E23 Turn off printer, wait, then turn on again.	03130031-2E23	Cutter unit failure	Check the cutter unit and sensor.
Hardware error. 03130031-2E13	03130031-2F13	A/D converter external trigger output stop detection hardware error 1	Check the carriage unit and surrounding parts.
Turn off printer, wait, then turn on again. Hardware error.	03130031-2F14	Writing to the ASIC register disabled	Replace the main controller PCB.
03130031-2E14 Turn off printer, wait, then turn on again.	03130031 2114	Withing to the Fisher register disabled	Replace the main controller I CD.
Hardware error. 03130031-2E16	03130031-2F16	Mist fan rotation error	Check the mist fan.
Turn off printer, wait, then turn on again.			
Hardware error. 03130031-2E17 Turn off printer, wait, then turn on again.	03130031-2F17	Platen suction fan lock detection error	Check the platen suction fan.
Hardware error. 03130031-2E1F	03130031-2F1F	Pump cam sensor error	Check the purge unit.
Turn off printer, wait, then turn on again.			
Hardware error. 03130031-2E20 Turn off printer, wait, then turn on again.	03130031-2F20	Purge motor cam position error	Check the purge unit.
Hardware error.	03130031-2F22	Pump move timeout	Check the purge unit.
03130031-2E22 Turn off printer, wait, then turn on again.			
Hardware error. 03130031-2E23	03130031-2F23	Purge motor error Pump inoperable	Check the purge unit.
Turn off printer, wait, then turn on again. Hardware error.	03130031-2F25	Unable to detect the carriage motor home	Check the carriage unit.
03130031-2E25 Turn off printer, wait, then turn on again.	03130031 2123	position	Check the linear encoder for smears.
Hardware error. 03130031-2E26	03130031-2F26	Carriage inoperable	Check the carriage unit and surrounding parts.
Turn off printer, wait, then turn on again. Hardware error.	03130031-2F27	Carriage move timeout	Check the carriage unit and surrounding parts.
03130031-2E27 Turn off printer, wait, then turn on again.			and said said said said said said said sai
Hardware error. 03130031-2E2A	03130031-2F2A	Unable to detect the feed roller home position	Check the feed roller encoder and surrounding part. Check to see if paper has not jammed.
Turn off printer, wait, then turn on again. Hardware error.	03130021 2E2D	I E operation failure	Chack to see if paper has not immed
Hardware error. 03130031-2F2B Turn off printer, wait, then turn on again.	03130031-2F2B	LF operation failure	Check to see if paper has not jammed. Check the feed motor and feed roller.
Hardware error. 03130031-2E2E Turn off printer, wait, then turn on again.	03130031-2F2E	Roll travel timeout	Check the roll feed unit.
Hardware error.	03130031-2F32	Multi sensor error	Check the environment for interferences from outside
03130031-2F32 Turn off printer, wait, then turn on again.			light.
Excessive temperature or humidity.	03130031-2F35	Calibration environment error	Check if the temperature or humidity is within the scope of calibration operation.
Hardware error.	03130031-2F3A	Valve motor error	Check the ink supply unit.
03130031-2F3A Turn off printer, wait, then turn on again.			

Display message	Code*	Condition detected	Action
Hardware error.	03130031-2F3B	CS communication error	Remove the ink tanks and then reload them.
03130031-2F3B			Replace the ink tank.
Turn off printer, wait, then turn on again.	02120021 2520		
Hardware error. 03130031-2F3C	03130031-2F3C	LF pressure error	Check the pinch roller and surrounding parts.
Turn off printer, wait, then turn on again.			
Hardware error.	03130031-2F3D	HP maintenance jet pump motor overload	Check the purge unit.
03130031-2F3D Turn off printer, wait, then turn on again.		error	
Hardware error.	03130031-2F3E	HP maintenance jet pump motor move	Check the purge unit.
03130031-2F3E		timeout error	and the formula
Turn off printer, wait, then turn on again.			
Hardware error. 03130031-2F3F	03130031-2F3F	HP maintenance jet pump motor error	Check the purge unit.
Turn off printer, wait, then turn on again.			
Hardware error.	03130031-2F46	Platen shutter failure	Check the platen shutter and shutter HP sensor.
03130031-2F46 Turn off printer, wait, then turn on again.			
Hardware error.	03130031-2F48	VHT voltage error	Replace printhead.
03800500-2F48	03130031 21 40	VIII Voltage error	Replace primineda.
Turn off printer, wait, then turn on again.			
Hardware error. 03800500-2F49	03130031-2F49	VH leakage (left printhead)	Replace left printhead.
Turn off printer, wait, then turn on again.			
Hardware error.	03130031-2F4A	Incorrect main controller PCB attachment	Replace the main controller PCB.
03800500-2F4A		error	
Turn off printer, wait, then turn on again. Hardware error.	03130031-2F50	VH leakage (right printhead)	Panlaga right printhes d
03800500-2F50	03130031-2F30	VH leakage (right printhead)	Replace right printhead.
Turn off printer, wait, then turn on again.			
Hardware error.	03130031-2F51	VH leakage (both printheads/ single	Replace printhead.
03800500-2F51 Turn off printer, wait, then turn on again.		printhead)	
Hardware error.	03130031-2F52	Carriage PCB of different model installed	Check carriage unit.
03800500-2F52	03130031 2102	error	Replace the printhead.
Turn off printer, wait, then turn on again.			
Hardware error. 03130031-4027	03130031-4027	Lift travel timeout error	Check the carriage unit and surrounding parts.
Turn off printer, wait, then turn on again.			
Mail box full.	031A1001-2905	The job store executed when the free hard	Delete unneeded jobs stored in Personal Boxes.
Delete unwanted data on your computer to resume printing.		disk space left for Personal Boxes in the printer's hard disk is full.	
Press Stop to cancel printing.		printer's hard disk is run.	
Hard disk error.	031A1002-2908	Hard disk format error	Press the [OK] button to start reformatting the hard disk.
Press OK to reformat			When formatting is finished, the printer automatically restarts.
File read error.	031A1002-2909	Hard disk file error	Restart the printer. Only the corrupted files will be
Turn off printer, wait a while, and turn it	031111002 2505	That disk the citor	deleted, and the printer will restart.
on again. Invalid files will be deleted.			
Mail box full.	031A1006-2906	The store executed when 32 jobs are stored	Delete unneeded jobs stored in Personal Boxes.
Cannot save.	031A1000-2900	in the Personal Box.	Delete uninceded jobs stored in Tersonal Boxes.
Delete unwanted data on your computer			
to resume printing. Press Stop to cancel printing.			
The paper is too small.	033200D2-2E30	Size clip error	Confirm the print data.
No printhead	03800100-2800	Printhead not installed.	Install the printhead.
Install printhead.			
No right printhead	03800101-2800	Printhead1 not installed.	Install the right printhead.
Install right printhead.			
No left printhead	03800102-2808	Printhead2 not installed.	Install the left printhead.
Install loft mais deced			
Install left printhead. Printhead error	03800200-2802	Invalid printhead installed.	Replace printhead.
1 milicau cirol	03000200-2002	mvanu prinuicau instancu.	Replace printicad.
Open top cover and replace the right			
printhead. PHeads: wrong pos.	03800200-2804	Printheads installed left and right reversed	Replace printhead.
ricaus, wrong pos.	03000200-2004	i imalcads histalied left and light reversed	Replace printicad.
Open top cover and check the printhead			
positions.	02900200 2011	Duinthood vousion our -	Douboo minthood
Wrong printhead.	03800200-2811	Printhead version error	Replace printhead.
Open top cover and replace the			
printhead.	02000201 2002	Drieder II ID	Dealess the right paid 1
Right printhead error.	03800201-2802	Printhead1 ID error	Replace the right printhead.
Open top cover and replace the right			
printhead.			

Display message	Code*	Condition detected	Action
PHeads: wrong pos.	03800201-2804	Printheads installed left and right reversed	Replace printhead.
Open top cover and check the printhead positions.			
Right printhead error.	03800201-2812	Printhead1 wrong version error	Replace the right printhead.
Open top cover and replace the right printhead.			
PHeads: wrong pos.	03800202-2807	Printheads installed left and right reversed	Check the installation position of printhead. Replace printhead.
Open top cover and check the printhead positions.			Replace printingati.
Left printhead error.	03800202-280A	Printhead2 ID error	Replace the left printhead.
Open top cover and replace the left printhead.			
Left printhead error.	03800202-2813	Printhead2 wrong version error	Replace the left printhead.
Open top cover and replace the left printhead.			
! Printhead L error.	03800202-282D	Left printhead abnormal temperature detection error (during maintenance jet)	Turn off the printer, and then turn it on again and replace the left printhead.
Turn off printer, wait a while, then turn it on again.		detection error (during mannerance jet)	the left printilead.
! Left printhead error	03800202-2830	Printhead2 temperature rise error	Replace the left printhead.
Open top cover and replace the left printhead.			
Printhead error	03800300-2801	Printhead DI compensation failure	Replace printhead.
Open top cover and replace the right printhead.			
Right printhead error.	03800301-2801	Printhead1 DI compensation failure	Replace the right printhead.
Open top cover and replace the right printhead.			
Left printhead error.	03800302-2809	Printhead2 DI compensation failure	Replace the left printhead.
Open top cover and replace the left printhead.			
Printhead error	03800400-2803	Printhead EEPROM error	Replace printhead.
Open top cover and replace the right printhead.			
Right printhead error.	03800401-2803	Printhead1EEPROM error	Replace the right printhead.
Open top cover and replace the right printhead.			
Left printhead error.	03800402-280B	Printhead2 EEPROM error	Replace the left printhead.
Open top cover and replace the left printhead.			
Execute printhead cleaning. If this message is still displayed, replace the printhead.	03800500-280C	Printhead found to have many non- discharging nozzles during a non- discharging inspection (printing paused)	Clean the printhead. Identify the nozzles in a nozzle check pattern. Replace the printhead.
Execute printhead cleaning.	03800500-2827	Printhead found to have many non-	Clean the printhead. Identify the nozzles in a nozzle
If this message is still displayed, replace the printhead. Printing stopped.		discharging nozzles during a non- discharging inspection (printing stopped)	check pattern. Replace the printhead.
Hardware error. 03800500-2F2F Turn off printer, wait, then turn on again.	03800500-2F2F	The non-discharge of the EVEN or ODD line (640-nozzles) is detected the 320-nozzles or more.	Check the head management sensor and surrounding parts. Check that the printhead is installed correctly. Replace the head management sensor. Replace the printhead.
Hardware error. 03800500-2F30 Turn off printer, wait, then turn on again.	03800500-2F30	Detectable area failure (when adjusting the position of non-discharging nozzle) The gap of detection position of nozzle both ends is big.	Check the ink tube unit and surrounding parts. Check the purge unit and surrounding parts. Check the head management sensor and surrounding parts. Check the flexible cable unit and surrounding parts. Check that the printhead is installed correctly. Replace the main controller PCB. Replace the printhead. Replace the carriage unit.
Hardware error. 03800500-2F31 Turn off printer, wait, then turn on again.	03800500-2F31	Non-discharge detection optical axis error	Check the head management sensor. Replace the head management sensor. Replace the printhead.

Display message	Code*	Condition detected	Action
Hardware error. 03800500-2F40 Turn off printer, wait, then turn on again.	03800500-2F40	The non-discharge of all colors and chips (A/B, EVEN/ODD) and nozzles is detected.	Check the ink tube unit and surrounding parts. Check the purge unit and surrounding parts. Check the head management sensor and surrounding parts. Check the flexible cable unit and surrounding parts. Check that the printhead is installed correctly. Replace the head management sensor. Replace the main controller PCB. Replace the printhead. Replace the carriage unit.
Hardware error. 03800500-2F41 Turn off printer, wait, then turn on again.	03800500-2F41	About all chips and nozzles of one color, the non-discharge is detected.	Check the head management sensor and surrounding parts. Check the flexible cable unit and surrounding parts. Check that the printhead is installed correctly. Replace the main controller PCB. Replace the printhead. Replace the carriage unit.
Hardware error. 03800500-2F42 Turn off printer, wait, then turn on again.	03800500-2F42	About single line (A or B) and all nozzles (1280-nozzles) of one color, the non-discharge is detected.	Check the head management sensor and surrounding parts. Check the flexible cable unit and surrounding parts. Check that the printhead is installed correctly. Replace the main controller PCB. Replace the printhead. Replace the carriage unit.
Hardware error. 03800500-2F43 Turn off printer, wait, then turn on again.	03800500-2F43	About single chip (A or B, EVEN or ODD) and all nozzles (640-nozzles) of one color, the non-discharge is detected.	Check the head management sensor and surrounding parts. Check the flexible cable unit and surrounding parts. Check that the printhead is installed correctly. Replace the main controller PCB. Replace the printhead. Replace the carriage unit.
Hardware error. 03800500-2F44 Turn off printer, wait, then turn on again.	03800500-2F44	The non-discharge of the EVEN or ODD line (640-nozzles) is detected.	Check the head management sensor and surrounding parts. Check that the printhead is installed correctly. Replace the main controller PCB. Replace the printhead. Replace the carriage unit.
Hardware error. 03800500-2F47 Turn off printer, wait, then turn on again.	03800500-2F47	Head management sensor failure The APCCHK signal of head management sensor is out of range.	Check the head management sensor and surrounding parts. Replace the head management sensor. Replace the main controller PCB.
Clean right P Head Press Online to clear error.	03800501-280D	Printhead1 non-discharge detection error	Clean the printhead. Identify the nozzles in a nozzle check pattern. Replace the right printhead.
Execute printhead cleaning. If this message is still displayed, replace the printhead. Printing stopped.	03800501-2828	Printhead1 non-discharge error (printhead replacement)	Execute printhead cleaning. Check nozzles with nozzle check pattern. Replace the printhead.
Clean left P Head Press Online to clear error.	03800502-280E	Printhead2 non-discharge detection error	Clean the printhead. Identify the nozzles in a nozzle check pattern. Replace the left printhead.
Execute printhead cleaning. If this message is still displayed, replace the printhead. Printing stopped.	03800502-2829	Printhead2 non-discharge error (printhead replacement)	Execute printhead cleaning. Check nozzles with nozzle check pattern. Replace the printhead.
Ink tank is empty. Press OK and replace ink tank.	03810101-2501	Y ink tank empty	Renew the Y ink tank.
Remaining level of the ink cannot be correctly detected. Check ink tank.	03810101-2511	Unidentified status of Y ink tank (refill ink tank detection)	Invalidate the ink remaining detection function or replace the ink tank.
Ink tank is empty. Press OK and replace ink tank.	03810102-2502	M ink tank empty	Renew the M ink tank.
Remaining level of the ink cannot be correctly detected. Check ink tank.	03810102-2512	Unidentified status of M ink tank (refill ink tank detection)	Invalidate the ink remaining detection function or replace the ink tank.
Ink tank is empty. Press OK and replace ink tank.	03810103-2503	C ink tank empty	Renew the C ink tank.
Remaining level of the ink cannot be correctly detected. Check ink tank.	03810103-2513	Unidentified status of C ink tank (refill ink tank detection)	Invalidate the ink remaining detection function or replace the ink tank.
Ink tank is empty. Press OK and replace ink tank.	03810104-2500	BK ink tank empty	Renew the BK ink tank.
Remaining level of the ink cannot be correctly detected. Check ink tank.	03810104-2510	Unidentified status of BK ink tank (refill ink tank detection)	Invalidate the ink remaining detection function or replace the ink tank.
Ink tank is empty. Press OK and replace ink tank.	03810105-2508	GY ink tank empty	Renew the GY ink tank.
Remaining level of the ink cannot be correctly detected. Check ink tank.	03810105-2518	Unidentified status of GY ink tank (refill ink tank detection)	Invalidate the ink remaining detection function or replace the ink tank.

Display message	Code*	Condition detected	Action
Ink tank is empty. Press OK and replace ink tank.	03810106-2506	MBK ink tank empty	Renew the MBK ink tank.
Ink tank is empty. Press OK and replace ink tank.	03810106-2507	MBK2 ink tank empty	Renew the MBK ink tank.
Remaining level of the ink cannot be correctly detected. Check ink tank.	03810106-2516	Unidentified status of MBK ink tank (refill ink tank detection)	Invalidate the ink remaining detection function or replace the ink tank.
Remaining level of the ink cannot be correctly detected. Check ink tank.	03810106-2517	Unidentified status of MBK2 ink tank (refill ink tank detection)	Invalidate the ink remaining detection function or replace the ink tank.
Ink tank is empty. Press OK and replace ink tank.	03810107-250A	R ink tank empty	Renew the R ink tank.
Remaining level of the ink cannot be correctly detected. Check ink tank.	03810107-251A	Unidentified status of R ink tank (refill ink tank detection)	Invalidate the ink remaining detection function or replace the ink tank.
Ink tank is empty. Press OK and replace ink tank.	03810108-250C	G ink tank empty	Renew the G ink tank.
Remaining level of the ink cannot be correctly detected. Check ink tank.	03810108-251C	Unidentified status of G ink tank (refill ink tank detection)	Invalidate the ink remaining detection function or replace the ink tank.
Ink tank is empty. Press OK and replace ink tank.	03810109-250B	B ink tank empty	Renew the B ink tank.
Remaining level of the ink cannot be correctly detected. Check ink tank.	03810109-251B	Unidentified status of B ink tank (refill ink tank detection)	Invalidate the ink remaining detection function or replace the ink tank.
Ink tank is empty. Press OK and replace ink tank.	03810112-2504	PM ink tank empty	Renew the PM ink tank.
Remaining level of the ink cannot be correctly detected. Check ink tank.	03810112-2514	Unidentified status of PM ink tank (refill ink tank detection)	Invalidate the ink remaining detection function or replace the ink tank.
Ink tank is empty. Press OK and replace ink tank.	03810113-2505	PC ink tank empty	Renew the PC ink tank.
Remaining level of the ink cannot be correctly detected. Check ink tank.	03810113-2515	Unidentified status of PC ink tank (refill ink tank detection)	Invalidate the ink remaining detection function or replace the ink tank.
Ink tank is empty. Press OK and replace ink tank.	03810115-2509	PGY ink tank empty	Renew the PGY ink tank.
Remaining level of the ink cannot be correctly detected. Check ink tank.	03810115-2519	Unidentified status of PGY ink tank (refill ink tank detection)	Invalidate the ink remaining detection function or replace the ink tank.
Ink insufficient. Press OK and replace ink tank.	03810201-2581	Low on the Y ink tank (as during cleaning)	Replace with a fully replenished Y ink tank.
Ink insufficient. Press OK and replace ink tank.	03810201-2591	Low on the Y ink tank (during pre-printing checks)	Replace with a fully replenished Y ink tank.
Ink insufficient. Press OK and replace ink tank.	03810202-2582	Low on the M ink tank (as during cleaning)	Replace with a fully replenished M ink tank.
Ink insufficient. Press OK and replace ink tank.	03810202-2592	Low on the M ink tank (during pre-printing checks)	Replace with a fully replenished M ink tank.
Ink insufficient. Press OK and replace ink tank.	03810203-2583	Low on the C ink tank (as during cleaning)	Replace with a fully replenished C ink tank.
Ink insufficient. Press OK and replace ink tank.	03810203-2593	Low on the C ink tank (during pre-printing checks)	Replace with a fully replenished C ink tank.
Ink insufficient. Press OK and replace ink tank.	03810204-2580	Low on the BK ink tank (as during cleaning)	Replace with a fully replenished BK ink tank.
Ink insufficient. Press OK and replace ink tank.	03810204-2590	Low on the BK ink tank (during pre- printing checks)	Replace with a fully replenished BK ink tank.
Ink insufficient. Press OK and replace ink tank.	03810205-2588	Low on the GY ink tank (as during cleaning)	Replace with a fully replenished GY ink tank.
Ink insufficient. Press OK and replace ink tank.	03810205-2598	Low on the GY ink tank (during pre- printing checks)	Replace with a fully replenished GY ink tank.
Ink insufficient. Press OK and replace ink tank.	03810206-2586	Low on the MBK ink tank (as during cleaning)	Replace with a fully replenished MBK ink tank.
Ink insufficient. Press OK and replace ink tank.	03810206-2587	Low on the MBK2 ink tank (as during cleaning)	Replace with a fully replenished MBK ink tank.
Ink insufficient. Press OK and replace ink tank.	03810206-2596	Low on the MBK ink tank (during pre- printing checks)	Replace with a fully replenished MBK ink tank.
Ink insufficient. Press OK and replace ink tank.	03810206-2597	Low on the MBK2 ink tank (during pre- printing checks)	Replace with a fully replenished MBK ink tank.
Ink insufficient. Press OK and replace ink tank.	03810207-258A	Low on the R ink tank (as during cleaning)	Replace with a fully replenished R ink tank.
Ink insufficient. Press OK and replace ink tank.	03810207-259A	Low on the R ink tank (during pre-printing checks)	Replace with a fully replenished R ink tank.
Ink insufficient. Press OK and replace ink tank.	03810208-258C	Low on the G ink tank (as during cleaning)	Replace with a fully replenished G ink tank.
Ink insufficient. Press OK and replace ink tank.	03810208-259C	Low on the G ink tank (during pre-printing checks)	Replace with a fully replenished G ink tank.
Ink insufficient. Press OK and replace ink tank.	03810209-258B	Low on the B ink tank (as during cleaning)	Replace with a fully replenished B ink tank.

Display message	Code*	Condition detected	Action
Ink insufficient. Press OK and replace ink tank.	03810209-259B	Low on the B ink tank (during pre-printing checks)	Replace with a fully replenished B ink tank.
Ink insufficient. Press OK and replace ink tank.	03810212-2584	Low on the PM ink tank (as during cleaning)	Replace with a fully replenished PM ink tank.
Ink insufficient. Press OK and replace ink tank.	03810212-2594	Low on the PM ink tank (during pre- printing checks)	Replace with a fully replenished PM ink tank.
Ink insufficient. Press OK and replace ink tank.	03810213-2585	Low on the PC ink tank (as during cleaning)	Replace with a fully replenished PC ink tank.
Ink insufficient. Press OK and replace ink tank.	03810213-2595	Low on the PC ink tank (during pre- printing checks)	Replace with a fully replenished PC ink tank.
Ink insufficient. Press OK and replace ink tank.	03810215-2589	Low on the PGY ink tank (as during cleaning)	Replace with a fully replenished PGY ink tank.
Ink insufficient. Press OK and replace ink tank.	03810215-2599	Low on the PGY ink tank (during pre- printing checks)	Replace with a fully replenished PGY ink tank.
No ink tank loaded. Press OK and check ink tank.	03830101-2521	Y ink tank not installed.	Install a Y ink tank.
! Do not pull out ink tank.	03830101-25AC	Y ink tank detachment (when using the refill ink tank)	Install the detached ink tank.
(Change to the following message) ! Do not use removed ink tanks in other			
printers. No ink tank loaded. Press OK and check ink tank.	03830102-2522	M ink tank not installed.	Install a M ink tank.
! Do not pull out ink tank.	03830102-25AB	M ink tank detachment (when using the	Install the detached ink tank.
(Change to the following message)		refill ink tank)	
! Do not use removed ink tanks in other printers.			
No ink tank loaded. Press OK and check ink tank.	03830103-2523	C ink tank not installed.	Install a C ink tank.
! Do not pull out ink tank.	03830103-25AA	C ink tank detachment (when using the refill ink tank)	Install the detached ink tank.
(Change to the following message)		,	
! Do not use removed ink tanks in other printers.			
No ink tank loaded. Press OK and check ink tank.	03830104-2520	BK ink tank not installed.	Install a BK ink tank.
! Do not pull out ink tank.	03830104-25A9	BK ink tank detachment (when using the refill ink tank)	Install the detached ink tank.
(Change to the following message) ! Do not use removed ink tanks in other			
printers. No ink tank loaded.	03830105-2528	GY ink tank not installed.	Install a GY ink tank.
Press OK and check ink tank.			
No ink tank loaded. Press OK and check ink tank.	03830106-2526	MBK ink tank not installed.	Install a MBK ink tank.
No ink tank loaded. Press OK and check ink tank.	03830106-2527	MBK2 ink tank not installed.	Install a MBK ink tank.
! Do not pull out ink tank.	03830106-25B0	MBK ink tank detachment (when using the refill ink tank)	Install the detached ink tank.
(Change to the following message)			
! Do not use removed ink tanks in other printers.			
! Do not pull out ink tank.	03830106-25B1	MBK2 ink tank detachment (when using the refill ink tank)	Install the detached ink tank.
(Change to the following message) ! Do not use removed ink tanks in other			
printers. Remaining level of the ink cannot be	03830107-251A	Unidentified status of R ink tank (refill ink	Invalidate the ink remaining detection function or
correctly detected. Check ink tank.		tank detection)	replace the ink tank.
No ink tank loaded. Press OK and check ink tank.	03830107-252A	R ink tank not installed.	Install a R ink tank.
Remaining level of the ink cannot be correctly detected. Check ink tank.	03830108-251C	Unidentified status of G ink tank (refill ink tank detection)	Invalidate the ink remaining detection function or replace the ink tank.
No ink tank loaded. Press OK and check ink tank.	03830108-252C	G ink tank not installed	Install a G ink tank.
Remaining level of the ink cannot be correctly detected. Check ink tank.	03830109-251B	Unidentified status of B ink tank (refill ink tank detection)	Invalidate the ink remaining detection function or replace the ink tank.
No ink tank loaded. Press OK and check ink tank.	03830109-252B	B ink tank not installed.	Install a B ink tank.
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Display message	Code*	Condition detected	Action
No ink tank loaded.	03830112-2524	PM ink tank not installed.	Install a PM ink tank.
Press OK and check ink tank.	03030112 202 .	The time time not mounted.	
No ink tank loaded. Press OK and check ink tank.	03830113-2525	PC ink tank not installed.	Install a PC ink tank.
No ink tank loaded. Press OK and check ink tank.	03830115-2529	PGY ink tank not installed.	Install a PGY ink tank.
Ink tank error. Press OK and replace ink tank.	03830201-2541	Y ink tank ID error	Replace with a valid Y ink tank.
Ink tank error. Press OK and replace ink tank.	03830202-2542	M ink tank ID error	Replace with a valid M ink tank.
Ink tank error. Press OK and replace ink tank.	03830203-2543	C ink tank ID error	Replace with a valid C ink tank.
Ink tank error. Press OK and replace ink tank.	03830204-2540	BK ink tank ID error	Replace with a valid BK ink tank.
Ink tank error. Press OK and replace ink tank.	03830205-2548	GY ink tank ID error	Replace with a valid GY ink tank.
Ink tank error. Press OK and replace ink tank.	03830206-2546	MBK ink tank ID error	Replace with a valid MBK ink tank.
Ink tank error. Press OK and replace ink tank.	03830206-2547	MBK2 ink tank ID error	Replace with a valid MBK ink tank.
Ink tank error. Press OK and replace ink tank.	03830207-254A	R ink tank ID error	Replace with a valid R ink tank.
Ink tank error. Press OK and replace ink tank.	03830208-254C	G ink tank ID error	Replace with a valid G ink tank.
Ink tank error. Press OK and replace ink tank.	03830209-254B	B ink tank ID error	Replace with a valid B ink tank.
Ink tank error. Press OK and replace ink tank.	03830212-2544	PM ink tank ID error	Replace with a valid PM ink tank.
Ink tank error. Press OK and replace ink tank.	03830213-2545	PC ink tank ID error	Replace with a valid PC ink tank.
Ink tank error. Press OK and replace ink tank.	03830215-2549	PGY ink tank ID error	Replace with a valid PGY ink tank.
Maintenance cartridge full. Replace the maintenance cartridge.	03841001-2819	Maintenance cartridge full	Renew the maintenance cartridge.
No Maintenance Cartridge capacity. Replace the maintenance cartridge.	03841001-281B	Not enough space in the maintenance cartridge prior to cleaning	Replace the maintenance cartridge.
No maintenance cartridge. Check the maintenance cartridge.	03841101-2818	Maintenance cartridge not installed.	Install the maintenance cartridge.
Maintenance cartridge problem. Replace the maintenance cartridge.	03841201-2816	Maintenance cartridge EEPROM error	Renew the maintenance cartridge.
Maintenance cartridge problem. Replace the maintenance cartridge.	03841201-2817	Maintenance cartridge ID error	Renew the maintenance cartridge.
Push paper a little	03860001-2E06	Waiting for manual feed paper to be inserted.	Push the cut sheet a little.
Manual printing is selected, but a roll is loaded.	03860001-2E0C	Data with a cut sheet specification has been received when roll media are loaded.	Load cut sheets at the paper tray port.
Press Load/Eject and remove the roll.		received when four media are loaded.	
Top paper feed slot is selected.	03860002-2E02	Data with a cut sheet specification has been received but no cut sheets are loaded.	Load cut sheets at the paper tray port.
Press OK and load a sheet. Sheet printing is selected.	03860002-2E05	Manual feed paper setting job has been	Load cut sheet in the manual feed paper slot.
Press Load/Eject and load sheets.	03000002-2203	received, but no manual feed paper is loaded.	Load cut sheet in the mandar reed paper slot.
Remove the cut sheets.	03860002-2E07	Waiting for manual feed paper to be removed.	Remove the cut sheet.
Roll printing is selected, but sheets are loaded.	03860002-2E0A	Data with a roll media specification has been received when a cut sheet tray is	Replace with roll media.
Press OK, remove the sheets, and load a roll.		loaded.	
This type of media is not compatible with HP-GL/2.	03860006-2825	Paper type mismatch at HP-GL/2 printing	Exchange for the compatible paper to HP-GL/2 before reprinting.
! Cannot print as selected. Another roll is in use.	03860007-2E40	Lower roll data has been received when there is print in the upper roll.	Press the Stop button to delete the print job.
Stop: Stop Printing			
! Cannot print as selected. Another roll is in use.	03860007-2E41	Lower roll data has been received when there is print in the lower roll.	Press the Stop button to delete the print job.
Stop: Stop Printing			
Borderless printing not possible. Check roll position. Online: Print Load/Eject: Change Paper	03861001-2405	Paper loaded at a position inaccessible for borderless printing	Check to see if a borderless printing spacer is installed. Reload the paper.
Borderless printing not possible. Check paper size setting.	03861001-2406	Data unfit for borderless printing	Check the data, and then print again.
Borderless printing not possible. Paper stretched or shrank. Confirm usage cond. of the paper.	03861001-2407	Borderless printing disabled (engine detection)	Reload the paper.
Commin usage cond. of the paper.	I .	l	

Display message	Code*	Condition detected	Action
Borderless printng not possible. Check supported paper.	03861001-2408	Borderless printing disabled (unsupported size)	Check the media size.
Insufficient paper for job Online: Print Stop: Stop Printing Load/Eject: Change Paper	03862000-2E09	Not enough roll media on remaining roll media quantity detection	Renew the supply of roll media.
Insufficient paper for job	03862001-2E31	Not enough roll media	Renew the supply of roll media.
Insufficient paper for job	03862002-2E32	Not enough roll media (lower roll)	Renew the supply of roll media.
Cannot adjust printhead. Press Online to clear the error and readjust printhead.	03863000-2820	Printhead registration unadjustable	Check the paper on which a pattern is printed for smears. Check the environment for interferences from outside light. Clean the printhead.
Cannot adjust printhead. Press Online to clear the error and readjust printhead.	03863000-2821	LF unadjustable	Check the paper on which a pattern is printed for smears. Check the environment for interferences from outside light. Clean the printhead.
Cannot adjust eccentric. Press Online to clear the error.	03863000-2822	Eccentricity correction disabled	Check to see if paper has not jammed.
Cannot adjust optic axis. Press Online to clear the error.	03863000-2824	Optical axis error	Check the multi sensor. Check the head management sensor.
LFNG XXX XXX XXX XXX press OK key	03863000-2826	Eccentricity correction error	Check to see if paper has not jammed.
CR MOTOR TUNING ERROR :PRESS OK	03863000-282A	Carriage identification process NG Carriage identification process failed. For service mode.	Press the OK button to clear the error. It may essentially be a sensor failure, and the similar error might be repeated.
CR VIBRATION ERROR :PRESS OK	03863000-282B	Carriage abnormal vibration error Carriage vibration was detected when performing carriage identification process. For service mode.	Press the OK button to clear the error. It may essentially be a sensor failure, and the similar error might be repeated.
CRNG XXX XXX XXX XXX press OK key	03863000-2831	Printhead registration unadjustable (when performing CR REG).	Check the paper on which a pattern is printed for smears. Check the environment for interferences from outside light. Clean the printhead.
! Cannot calibrate. Press OK and try calibration again.	03863000-2F34	Color calibration adjustment failure error	Perform calibration again, and if the same error occurs, replace the multisensor.
Error! E02827 Cannot adjust.	03863000-4034	Sensor calibration error	Check the paper on which a pattern is printed for smears. Check the environment for interferences from outside light. Clean the printhead.
PaprWidth Mismatch. Plain Paper ISO A3 Change Paper Print Anyway Stop Printing	03864001-2E45	Roll media width mismatch: after resuming suspended job At start of printing, all of the following conditions have been met GARO PJL command "ROLLWIDTH" was used Roll paper has been loaded PJL-specified standard paper width and the width of loaded roll paper are different [Paper Mismatch Detection] is set to [Stop].	(1) Choose [Print Anyway] to print forcibly. The paper width setting by PJL command will be ignored, and printing is executed using the clip size calculated using the paper width of loaded paper. If borderless printing is specified at the same time, borderless printing status will be continued. At this time, if a borderless printing supported size that is different from the specified roll paper is loaded, it may end up in borders in parts other than the top edge and left edge. (2) Choose [Stop Printing] or press the Stop button to stop printing. (3) Choose [Change Paper] or lift the release lever to change paper.
Wrong paper type.	03864002-2E42	Paper type mismatch	Check the type of paper that can be fed and reload the paper.
! Paper position not suitable for borderless printing Fix Paper Position Print With Border Stop Printing	03864004-2409	Borderless printing disabled (physical): after resuming suspended job At start of printing, all of the following conditions have been met. - Borderless printing data has been received. - Roll paper has been loaded, and the paper edge opposite to HP is shifted from the predefined position relative to the borderless pre-ejection opening by 1mm or more.	(1) Choose [Print With Border] and execute a forced printing. Borderless printing setting will be ignored and printing will be executed with default margins. The default margins vary depending on the specified feeding slot or paper type. (2) Choose [Stop Printing] or press the Stop button to stop printing. (3) Choose [Fix Paper Position] and fix the position according to the guidance.
Borderless printing not possible. Check supported paper. Change Paper Print With Border Stop Printing Cannot cut paper.	03864004-240A	Borderless printing disabled (unsupported size): after resuming suspended job At start of printing, all of the following conditions have been met. - Borderless printing data has been received. - Roll paper not supporting borderless printing has been loaded. Cutting failure	(1) Choose [Print With Border] and execute a forced printing. Borderless printing setting will be ignored and printing will be executed with default margins. The default margins vary depending on the specified feeding slot or paper type. (2) Choose [Stop Printing] or press the Stop button to stop printing. (3) Choose [Change Paper] or lift the release lever to change paper. Cut paper manually.
Lift the release lever and reload the paper.	33070001-2013	Canaling running	Check the cutter.

Display message	Code*	Condition detected	Action
Cannot cut paper. Lift the release lever and reload the paper.	03870001-2019	Cut failure (during jam occurrence)	Check the cutter unit and surrounding parts. Replace the cutter.
Media Take-up error. Check the paper. Press Online to clear error.	03890000-2920	Media take-up unit cannot take up the media.	Check to see if paper has not jammed.
Rewinding error. Check for jam at indicated position. Press Online to clear error.	03890000-2921	Media take-up unit takes up the media continuously.	Check the media take-up paper detection sensor and surrounding parts. Replace the media take-up paper detection sensor.
Unknown file. Check file format.	03900001-4042	MIT data transfer failure.	Verify the validity of MID data before transferring it.
Turn off printer, wait a while, then turn it on again.			
Unknown file. Check file format. Turn off printer, wait a while, then turn it on again.	03900001-4049	ROM data for another model has been transferred.	Check supported models for firmware or maintenance cartridge.

8.4 Sevice Call Table

8.4.1 Service Call Errors

iPF765 / iPF760 / iPF750 / iPF755

 $\ast :$ Codes correspond to the numbers shown on the DISPLAY in the service mode.

Code*	Description	Action
E141-4046	Number of recovery rotations reaching 50,000 or more	Replace the purge unit, and then clear the parts counter in the service mode.
E144-4047	Number of carrriage scan operation is full	Replace the tube unit, and then clear the parts counter in the service mode.
E144-4048	Printhead ink filling failure	Replace the printhead.
E146-4001	Waste ink recovery count error	Replace the platen duct or mist fan or mist filter or suction fan, and then clear the parts counter in the service mode. (Confirm the parts reached to the exchange value by the service mode or PRINT INF.)
E161-403E	Abnormal temperature rise in left printhead	Replace the left printhead.
E161-403F	Abnormal temperature rise in right printhead	Replace the right printhead.
E194-404A	Non-discharging nozzle count error	Replace the head management sensor unit, and then clear the parts counter in the service mode.
E196-4040	Checksum error (when execute the firmware update)	Execute firmware update or replace the main controller PCB.
E196-4041	Flash memory erase error (when execute the firmware update)	Execute firmware update or replace the main controller PCB.
E196-4042	Flash memory write error (when execute the firmware update)	Execute firmware update or replace the main controller PCB.
E196-4043	Memory error (when execute the firmware update)	Execute firmware update or replace the main controller PCB.
E196-4044	Firmware size error (when execute the firmware update)	Execute firmware update or replace the main controller PCB.
E196-4045	EEPROM read/write error (controller part)	Replace the main controller PCB.
E196-4049	Firmware data error (when execute the firmware update)	Execute firmware update or replace the main controller PCB.
E196-404C	Serial number mismatch between main controller PCB and maintenance cartridge ROM PCB.	Execute PCB replacement mode or replace the main controller PCB.
E196-404D	Machine ID mismatch between main controller PCB and maintenance cartridge ROM PCB.	Execute PCB replacement mode or replace the main controller PCB.
E196-404E	EEPROM read/write error (engine part)	Replace the main controller PCB.
E198-401C	RTC error	Replace the lithium battery or replace the main controller PCB.
E198-401D	RTC low battery error	Replace the lithium battery or replace the main controller PCB.
E198-401E	RTC clock stop	Replace the lithium battery or replace the main controller PCB.
E199-404B	Temperature/humidity sensor connector out of position	Check the temperature/humidity sensor connector or replace the sensor.
E602-401A	HDD read/write error (HDD failure)	Replace the HDD unit.
E602-401B	HDD connection error	Check the HDD connector or replace the HDD.
E602-405A	HDD size error	Replace the HDD unit.



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