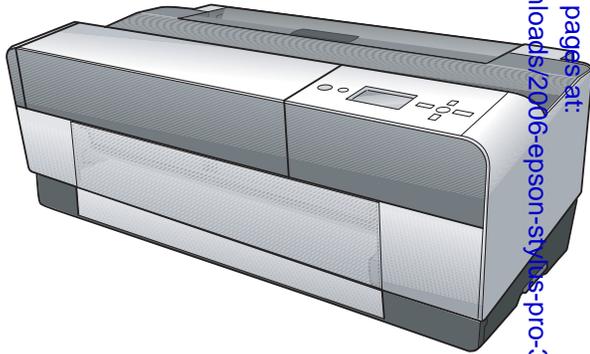


SERVICE MANUAL



Large Format Color Inkjet Printer

EPSON Stylus Pro 3800/3800C/3850

Product: 2006 EPSON Stylus Pro 3800/3800C/3850 Large Format Color Inkjet Printer Service Repair Workshop Manual
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PRECAUTIONS

Precautionary notations throughout the text are categorized relative to 1) Personal injury and 2) Damage to equipment.

DANGER Signals a precaution which, if ignored, could result in serious or fatal personal injury. Great caution should be exercised in performing procedures preceded by DANGER Headings.

WARNING Signals a precaution which, if ignored, could result in damage to equipment.

The precautionary measures itemized below should always be observed when performing repair/maintenance procedures.

DANGER

1. ALWAYS DISCONNECT THE PRODUCT FROM THE POWER SOURCE AND PERIPHERAL DEVICES PERFORMING ANY MAINTENANCE OR REPAIR PROCEDURES.
2. NO WORK SHOULD BE PERFORMED ON THE UNIT BY PERSONS UNFAMILIAR WITH BASIC SAFETY MEASURES AS DICTATED FOR ALL ELECTRONICS TECHNICIANS IN THEIR LINE OF WORK.
3. WHEN PERFORMING TESTING AS DICTATED WITHIN THIS MANUAL, DO NOT CONNECT THE UNIT TO A POWER SOURCE UNTIL INSTRUCTED TO DO SO. WHEN THE POWER SUPPLY CABLE MUST BE CONNECTED, USE EXTREME CAUTION IN WORKING ON POWER SUPPLY AND OTHER ELECTRONIC COMPONENTS.
4. WHEN DISASSEMBLING OR ASSEMBLING A PRODUCT, MAKE SURE TO WEAR GLOVES TO AVOID INJURY FROM METAL PARTS WITH SHARP EDGES.

WARNING

1. REPAIRS ON EPSON PRODUCT SHOULD BE PERFORMED ONLY BY AN EPSON CERTIFIED REPAIR TECHNICIAN.
2. MAKE CERTAIN THAT THE SOURCE VOLTAGES IS THE SAME AS THE RATED VOLTAGE, LISTED ON THE SERIAL NUMBER/RATING PLATE. IF THE EPSON PRODUCT HAS A PRIMARY AC RATING DIFFERENT FROM AVAILABLE POWER SOURCE, DO NOT CONNECT IT TO THE POWER SOURCE.
3. ALWAYS VERIFY THAT THE EPSON PRODUCT HAS BEEN DISCONNECTED FROM THE POWER SOURCE BEFORE REMOVING OR REPLACING PRINTED CIRCUIT BOARDS AND/OR INDIVIDUAL CHIPS.
4. IN ORDER TO PROTECT SENSITIVE MICROPROCESSORS AND CIRCUITRY, USE STATIC DISCHARGE EQUIPMENT, SUCH AS ANTI-STATIC WRIST STRAPS, WHEN ACCESSING INTERNAL COMPONENTS.
5. REPLACE MALFUNCTIONING COMPONENTS ONLY WITH THOSE COMPONENTS BY THE MANUFACTURE; INTRODUCTION OF SECOND-SOURCE ICs OR OTHER NON-APPROVED COMPONENTS MAY DAMAGE THE PRODUCT AND VOID ANY APPLICABLE EPSON WARRANTY.
6. WHEN AIR DUSTER IS USED ON THE REPAIR AND THE MAINTENANCE WORK, THE USE OF THE AIR DUSTER PRODUCTS CONTAINING THE INFLAMMABLE GAS IS PROHIBITED.

About This Manual

This manual describes basic functions, theory of electrical and mechanical operations, maintenance and repair procedures of the printer. The instructions and procedures included herein are intended for the experienced repair technicians, and attention should be given to the precautions on the preceding page.

Manual Configuration

This manual consists of six chapters and Appendix.

CHAPTER 1.PRODUCT DESCRIPTIONS

Provides a general overview and specifications of the product.

CHAPTER 2.OPERATING PRINCIPLES

Describes the theory of electrical and mechanical operations of the product.

CHAPTER 3.TROUBLESHOOTING

Describes the step-by-step procedures for the troubleshooting.

CHAPTER 4.DISASSEMBLY / ASSEMBLY

Describes the step-by-step procedures for disassembling and assembling the product.

CHAPTER 5.ADJUSTMENT

Provides Epson-approved methods for adjustment.

CHAPTER 6.MAINTENANCE

Provides preventive maintenance procedures and the lists of Epson-approved lubricants and adhesives required for servicing the product.

CHAPTER 7.APPENDIX

Provides the following additional information for reference:

- Connectors
- Routing
- ASP List
- Exploded Diagrams
- Circuit Diagrams

Symbols Used in this Manual

Various symbols are used throughout this manual either to provide additional information on a specific topic or to warn of possible danger present during a procedure or an action. Be aware of all symbols when they are used, and always read NOTE, CAUTION, or WARNING messages.



Indicates an operating or maintenance procedure, practice or condition that is necessary to keep the product's quality.



Indicates an operating or maintenance procedure, practice, or condition that, if not strictly observed, could result in damage to, or destruction of, equipment.



May indicate an operating or maintenance procedure, practice or condition that is necessary to accomplish a task efficiently. It may also provide additional information that is related to a specific subject, or comment on the results achieved through a previous action.



Indicates an operating or maintenance procedure, practice or condition that, if not strictly observed, could result in injury or loss of life.



Indicates that a particular task must be carried out according to a certain standard after disassembly and before re-assembly, otherwise the quality of the components in question may be adversely affected.

Revision Status

Revision	Date of Issue	Description
A	November 30, 2006	First release

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CHAPTER

1

PRODUCT DESCRIPTION

1.1 Product Description

EPSON Stylus Pro 3800/3800C/3850 are large size color inkjet printers that support up to A2 (17") sized cut-sheet paper.

- F-Mach (180N x 8-column) print head
- Maximum print resolution (dpi): 2880 x 1440, Minimum dot: 3.5pl MSDT
- Superior color and monochrome reproducibility with eight colors HCD2 + K3 ink system, consisting of 4 basic colors (YMCK) with 2 complementary colors and 2 complementary blacks
- 80ml-size (injection volume) new ink cartridge
- Automatic switching between black ink modes; Photo black and Matte black. Requires no user intervention, and ink used during the conversion is remarkably reduced.
- Two manual paper feeders are provided in addition to the ASF (Auto Sheet Feeder)
 - Rear manual feeder: FA paper
 - Front manual feeder: Board paper (up to 1.5 mm thickness)
- High speed network and communication supported
 - 100BASE-TX/10BASE-T Network Interface
 - USB 2.0 High Speed Interface
- Borderless printing supported
- Clearly arranged buttons and a large LCD offer quick, easy operation

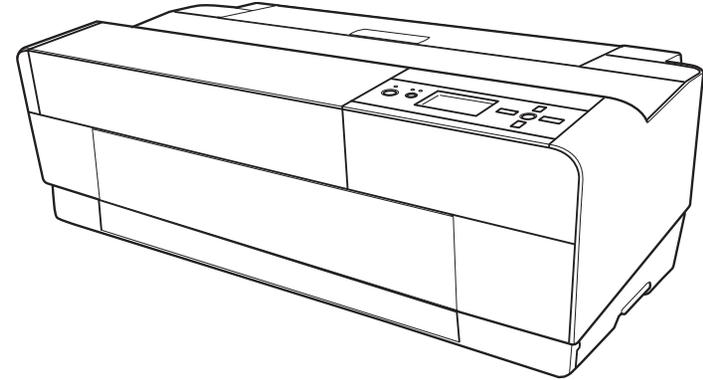


Figure 1-1. External View

1.2 Basic Specifications

1.2.1 Basic Specifications

Item		Specifications
Maximum paper width		17 inch (43 cm)
Printing method		On-demand ink jet method
Printing direction		Two-way shortest distance printing with logical seeking
Print Head	Type	F-Mach
	Number of nozzles	180 Nozzles per color (180 Nozzles x 8 colors)*
Ink	Type	HCD2 + K3 (9 independent ink cartridges)*
	Color of inks	Matte Black*, Photo Black*, Light Black, Light Light Black, Cyan, Magenta, Yellow, Light Cyan, Light Magenta (Refer to Table 1-1 for the alignment sequence of the cartridges)
Maximum print resolution		2880 dpi x 1440 dpi
Smallest dot size		3.5 picoliters
Dot size		Refer to Table 1-2
Printing function		Borderless printing
		Silent paper feeding
		Automatic bottom processing
		L/4 x 6 Photo high-speed printing
Automatic adjustment function		Auto nozzle check
		Auto Bi-d adjustment
Printing speed/area	Alphanumeric characters	Refer to Table 1-3
	Graphic mode	Refer to Table 1-4

Note *: The all 9 ink cartridges can be installed simultaneously. The printer automatically switches between Photo and Matte black depending on the driver selection while utilizing the same physical ink channel.

Table 1-1. Cartridge Alignment Sequence

Row 1	Row 2	Row 3	Row 4	Row 5	Row 6	Row 7	Row 8	Row 9
Matte Black (MK)	Photo Black (PK)	Light Black (LK)	Light Light Black (LLK)	Cyan (C)	Magenta (M)	Light Cyan (Lc)	Light Magenta (Lm)	Yellow (Y)
Switched by an Ink Selector								

Table 1-2. Dot Size

Dot Size	L (pl)	M (pl)	S (pl)
VSD1	22.2	13.8	6.6
VSD2	13.2	5.9	3.5
VSD3	--	--	3.5
Economy	22.2	--	--

Table 1-3. Printing Speed and Area (Alphanumeric Characters)

Item	Specifications
Character quality	Fine
Character pitch	10 CPI
Printing area	167 digits
Printing speed	280 cps

Table 1-4. Printing Speed and Area (Graphic Mode)

Horizontal Resolution (dpi)	Maximum Printing Area*	Printable Dots	Printing Speed
360	441.8 mm (17.39 inch)	6,262	280 cps
720	441.8 mm (17.39 inch)	12,524	280 cps
1440	441.8 mm (17.39 inch)	25,047	280 cps
2880	441.8 mm (17.39 inch)	50,094	280 cps

Note *: Includes margins that bleed off the edges of paper. (max. 5 mm for both home and the opposite sides.)

1.2.2 Electric Specifications

Item	Specification		
	100/120V Model	220/240V Model	
Rated voltage	100 to 120 VAC	220 to 240 VAC	
Input voltage range	90 to 132 VAC	198 to 264 VAC	
Rated frequency	50 to 60Hz		
Input frequency range	49.5 to 60.5Hz		
Rated current	0.6 A	0.3 A	
Power consumption	Operating	Approx. 25 W	Approx. 25 W
	Low-power mode*	Approx. 5 W	Approx. 5.5 W
	S/W turned OFF	Approx. 0.3 W	Approx. 0.4 W
Insulation resistance	10 MΩ or more (between AC line and chassis at 500 VDC)		
Dielectric strength	1.0 kVrms AC for 1 min. or 1.2 kVrms AC for 1 sec. (between AC line and chassis)		
Leak current	0.25 mA or less		
Compliance with regulations	<input type="checkbox"/> Conforms to International Energy Star Program (Category: conforms to the harmonic restraint measure guideline) <input type="checkbox"/> Conforms to VCCI Class B		

Note *: Shifting to low-power mode takes 15 min.

1.2.3 Environmental Characteristics

TEMPERATURE/HUMIDITY

Condition		Temperature* ²	Humidity* ² (non condensation)
Operating		10 to 35 °C	20 to 80 %
Storage* ¹	before unpacking	-20 to 60 °C* ³	5 to 85 %
	after unpacking	-20 to 40 °C* ³	5 to 85 %

Note **1*: Includes condition during transportation.

**2*: The combined temperature and humidity conditions must be within the blue-shaded range shown in Figure 1-2.

**3*: Within 1 month under 40°C, within 120 hours under 60°C.

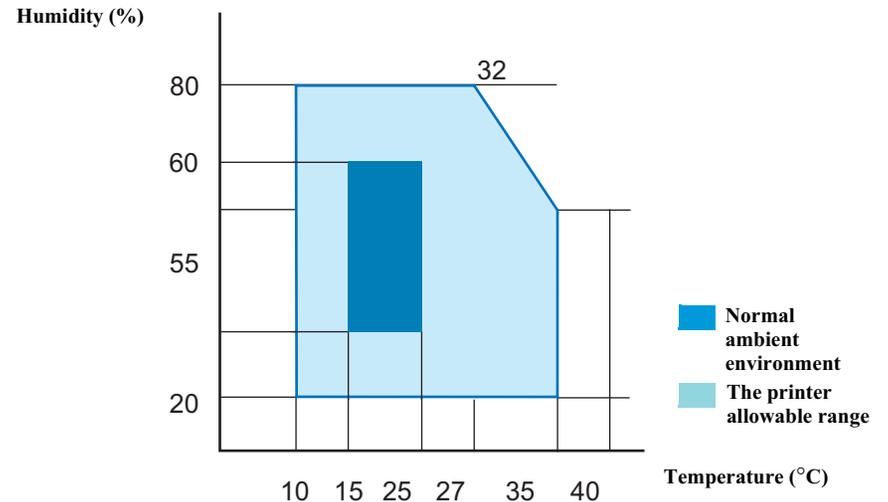


Figure 1-2. Temperature/Humidity Range

RESISTANCE TO VIBRATION/SHOCK

	Vibration	Shock
Operating	0.15G, 10 to 55Hz	1G, within 1ms
Storage	0.50G, 10 to 55Hz	2G, within 2ms

CAUTION



- When transporting the printer, the print head must be capped, and the ink cartridges must be removed.
- If the print head is not capped with the power turned off, turn the printer on with the ink cartridges installed, then turn it off after confirming the print head is capped.

1.2.4 Reliability/Durability

Item	Target
Operating life of the printer	Until any one of the following conditions is met. <ul style="list-style-type: none"> • 12,000 pages (A2 plain paper fine mode) • 1,600,000 paths (carriage movement) • 5 years
MPBF	Black: 300 pages or more ^{*1} Color: 150 pages or more ^{*2}
MTBF	20,000 POH ^{*3} (No faults with electronic parts and fans)
Battery life	5 to 10 years
Extension of normal TCL generation time	4,320 hours (6 months) printing time within 2 hours 360 hours (15 days) printing time over 2 hours
Simultaneous use of CL timer T1 and FL timer Tf	Execution
Periodical flushing	Every 1 hour

Note ^{*1}: A4-sized paper, ECMA Pattern printing

^{*2}: Approx. 5% coverage

^{*3}: Total print time of 850 hours in normal ambient temperature, approx. 10% coverage.
(POH = Power on hours)

1.3 Printing Specifications

1.3.1 Paper Feed Specifications

Item	Specification
Paper feed method	Friction feed
Minimum pitch of paper feed	2.94 μm (1/8640 inch)
Paper feed speed	25.4 mm (1 inch) when line feed: 333 msec (3 inch/sec)

1.3.2 Paper Feeder Specifications

EPSON Stylus Pro 3800/3800C/3850 support three types of paper feeding methods; ASF, Rear Manual Feed, and Front Manual Feed. The paper size and thickness for each of the methods are shown in the table below. For paper type and feeder capacity, refer to "1.3.3 Paper Support" (p15).

Paper Feed Method	Paper Size			Thickness (mm)
	Width (mm)	Length (mm)	Standard paper (mm)	
ASF	89 to 431.8	127 to 950	L/4"x6" to A2/USC	0.08 to 0.27
Rear Manual Feed	210 to 431.8	279.4 to 950	A4/LTR to A2/USC	0.29 to 0.5
Front Manual Feed	210 to 420	279.4 to 594	A4/LTR to A2	1.2 to 1.5

1.3.3 Paper Support

Media Name	Size (mm)	Feeder (capacity*1)	Borderless print*2	Black Ink*3	EAI	EU	Asia
Premium Glossy Photo Paper	L (3R) (89 x 127)	ASF (20)	√	P			√
	5" x 7" (127 x 178)	ASF (20)	√	P	√	√	
	16:9 wide (102 x 148)	ASF (20)	√	P	√	√	√
	8" x 10" (203 x 254)	ASF (20)	√	P	√		
	4" x 6" (102 x 152)	ASF (20)	√	P	√	√	√
	11" x 14" (279 x 356)	ASF (10)	√	P	√		
	Letter (216 x 279)	ASF (20)	√	P	√		
	A4 (210 x 297)	ASF (20)	√	P		√	√
	A3 (297 x 420)	ASF (10)	√	P	√	√	√
	S-B/A3+ (329 x 483)	ASF (10)	√	P	√	√	√
Premium Semigloss Photo Paper	A2 (420 x 594)	ASF (1)	√	P		√	√
	USC (432 x 559)	ASF (1)	√	P	√		
	4" x 6" (102 x 152)	ASF (20)	√	P	√	√	
	Letter (216 x 279)	ASF (20)	√	P	√		
	A4 (210 x 297)	ASF (20)	√	P		√	√
	A3 (297 x 420)	ASF (10)	√	P	√	√	√
Premium Luster Photo Paper	S-B/A3+ (329 x 483)	ASF (10)	√	P	√	√	√
	A2 (420 x 594)	ASF (1)	√	P		√	√
	USC (432 x 559)	ASF (1)	√	P	√	√	√
	Letter (216 x 279)	ASF (20)	√	P	√		
Singleweight Matte Paper	A3 (297 x 420)	ASF (10)	√	P	√		
	S-B/A3+ (329 x 483)	ASF (50)	NA	M	√	√	√
Photo Quality Ink Jet Paper (KANZAN for EU A4 only, ESF for others)	A4 (210 x 297)	ASF (100)	NA	P/M		√	√
	Letter (216 x 279)	ASF (100)	NA	P/M	√		
	Legal (216 x 358)	ASF (50)	NA	P/M	√	√	√
	USB (279 x 432)	ASF (50)	NA	P/M	√		
Proofing Paper Semimatte (Commercial Semimatte)	S-B/A3+ (329x483)	ASF (1)	NA	P	√	√	√

Media Name	Size (mm)	Feeder (capacity*1)	Borderless print*2	Black Ink*3	EAI	EU	Asia
Enhanced Matte Paper (EAI)/Archival Matte Paper (EU, Asia)	Letter (216x279)	ASF (20)	√	M	√		
	A4 (210x297)	ASF (20)	√	M		√	√
	A3 (297x420)	ASF (10)	√	M	√	√	√
	S-B/A3+ (329x483)	ASF (10)	√	M	√	√	√
	A2 (420x594)	ASF (1)	√	M		√	√
	USC (432x559)	ASF (1)	√	M	√		
Watercolor Paper-Radiant White	S-B/A3+ (329x483)	R.Manual (1)	√	M		√	√
UltraSmooth Fine Art Paper	A3+ (329x483)	R.Manual (1)	√	M	√	√	√
	A2 (420x594)	R.Manual (1)	√	M		√	√
	USC (432x559)	R.Manual (1)	√	M	√		
	Letter (216x279)	R.Manual (1)	√	M	√		
Velvet Fine Art Paper	S-B/A3+ (329x483)	R.Manual (1)	√	M	√	√	√
	A2 (420x594)	R.Manual (1)	√	M		√	√
	USC (432x559)	R.Manual (1)	√	M	√		
	Letter (216x279)	R.Manual (1)	√	M	√		
	S-B/A3+ (329x483)	R.Manual (1)	√	M	√	√	√

Note **1": ASF = Auto Sheet Feeder

R.Manual = Rear Manual Feed

Front Manual Feed supports thicker paper (1.2 to 1.5mm thickness).

Paper loading capacity for both Rear and Front Manual Feed is one sheet.

**2": User-defined sized paper (89 x 127mm to 432 x 950mm) is not available for borderless printing.

**3": Shows the supported black ink type

P: Photo Black

M: Matte Black

P/M: Both Photo and Matte Black are supported

1.3.4 Printable Area

Item	Dimension
PW (paper width)	89mm to 431.8mm
PL (paper length)	127mm to 950mm
TM (top margin)	0mm/3mm/20mm*
BM (bottom margin)	0mm/3mm/20mm*
LM (left margin)	0mm/3mm
RM (right margin)	0mm/3mm

Note *: TM and BM are fixed to 20 mm in front manual feeding.

- The printer detects the paper width when paper is set. (If the paper width detection setting is OFF, the printer does not detect the paper width.)
- The printer does not print the image exceeding the detected paper width and the printable area that is specified in the paper setting. (If the paper width detection setting is OFF, the printer may print on the platen.)
- The top/bottom/left/right margins (TM, BM, LM, RM) can be set to zero under special conditions.
- Because the printer detects tilt of loaded paper in a range of 3 mm at both left and right sides, an image bleeds off both left and right edges of paper by 3 mm each at borderless printing. However, if the distance between the paper edges and the platen (sponge width) is less than 3 mm, the bleeding margins are adjusted to less than 3 mm (within the range of 0 mm ~ 3 mm) not to directly print on the platen. (Refer to "1.4.2 Borderless Printing" (p17), for the borderless print specification.)

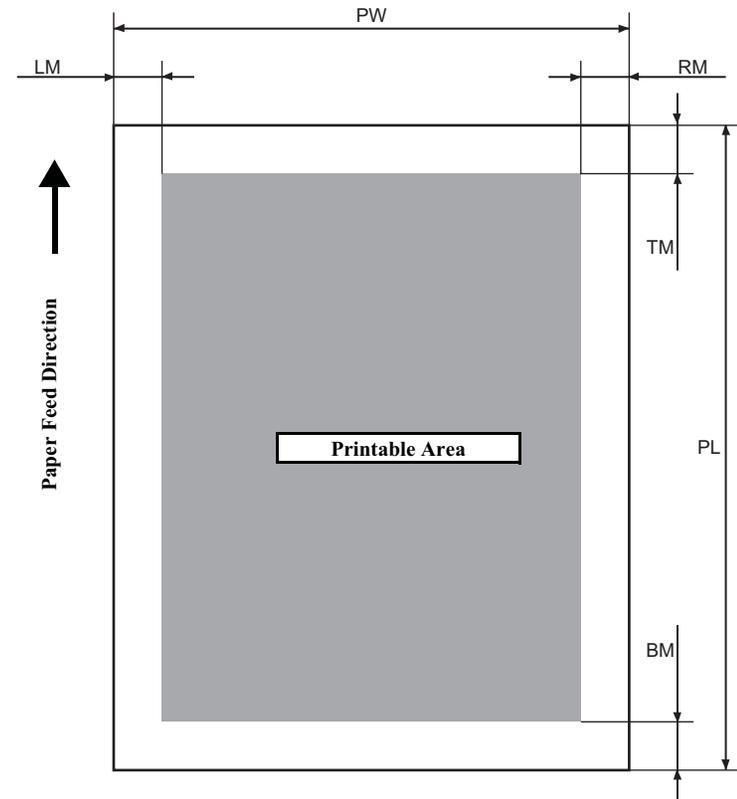


Figure 1-3. Printable Area

1.4 Print Mode

This section provides specifications of the print mode and borderless printing.

1.4.1 Print Mode

Media Type	Print Quality	Print Density (H x V)	Dot Size
Plain Paper	Draft	360 x 360 dpi	VSD1_Eco (280cps)
	Normal (360 dpi)	720 x 360 dpi	VSD1 (280cps)
Inkjet Paper	Normal (360 dpi)	720 x 360 dpi	VSD1 (280cps)
	Fine (720 dpi)	720 x 720 dpi	VSD1 (280cps)
	Super Fine (1440 dpi)	1440 x 720 dpi	VSD2 (280cps)
	Super Photo (2880 dpi)	2880 x 1440 dpi	VSD3 (280cps)
--	ISV Square Resolution Mode	1440 x 1440 dpi	VSD2 (280cps)* ¹
		2880 x 2880 dpi	VSD3 (280cps)* ²

Note *¹: Driver not supported

*²: Driver not supported (supports Out_bit_1 only)

1.4.2 Borderless Printing

AVAILABLE PAPER SIZE

The following table lists paper sizes in the order shown by the printer driver, and shows the borderless printing availability.

Table 1-5. Borderless Printing Available Paper Sizes

Paper Size Displayed by Driver	Borderless Print
Letter (8 2/1 x 11 in)	Available
Legal (8 2/1 x 14 in)	NA
Half Letter (5 2/1 x 8 2/1 in)	NA
US B (11 x 17 in)	Available
US C (17 x 22 in)	Available
A6 (105 x 148 mm)	NA
A5 (148 x 210 mm)	NA

Table 1-5. Borderless Printing Available Paper Sizes

Paper Size Displayed by Driver	Borderless Print
A4 (210 x 297 mm)	Available
A3 (297 x 420 mm)	Available
Super A3 (329 x 483 mm)	Available
A2 (420 x 594 mm)	Available
B5 (182 x 257 mm)	NA
B4 (257 x 364 mm)	NA
B3 (364 x 514 mm)	NA
89 x 127 mm (3.5 x 5 in)	Available
102 x 152 mm (4 x 6 in)	Available
127 x 178 mm (5 x 7 in)	Available
16:9 wide (102 x 181 mm)	Available
203 x 254 mm (8 x 10 in)	Available
254 x 305 mm (10 x 12 in)	Available
279 x 356 mm (11 x 14 in)	Available
305 x 305 mm (12 x 12 in)	NA
406 x 508 mm (16 x 20 in)	Available
User Defined*	NA

Note *: The minimum user defined size is 3.5 x 5 in (89 x 127 mm), and the maximum size is 17 x 37.4 in (432 x 950 mm).

AUTOMATIC EXPANSION SPECIFICATION

The driver automatically changes margins that bleed off the edges of paper according to the paper size.

Table 1-6. Borderless Printing Margins (Bleed)

	L/4" x 6"	16:9 Wide 5" x 7" 8" x 10" A4 / Letter	11" x 14" A3/A3+	A2/USC
Top	1.34mm (19dot)	2.96mm (42dot)		3.32mm (47dot)
Left/Right	2.54mm (36dot)		3.46mm (49dot)	4.52mm (64dot)
Bottom	2.54mm (36dot)	4.02mm (57dot)	4.52mm (64dot)	5.01mm (71dot)

Note : The number of dots are based on 360 dpi.

PRINTABLE AREA

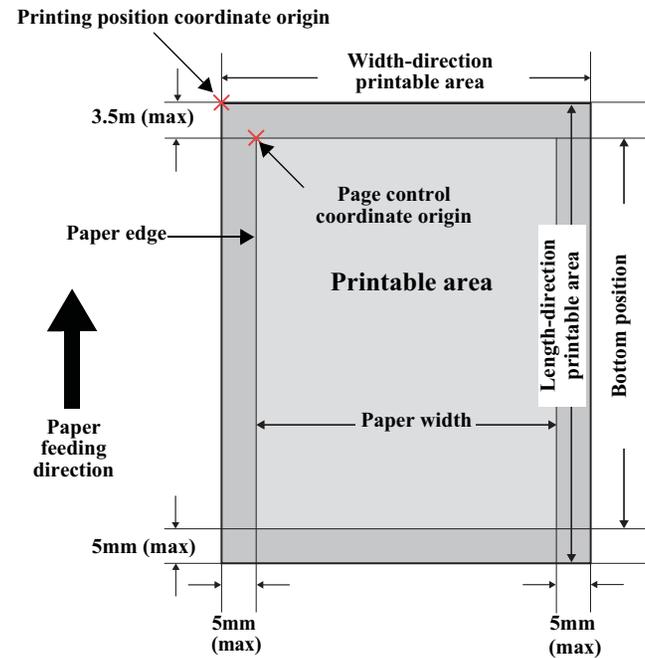


Figure 1-4. Printable Area

Note : Print start position can be shifted toward the home position by 8 m by changing the appropriate setting.

1.5 Appearance Specifications

This section describes external dimensions and parts names.

1.5.1 Dimensions/Weight

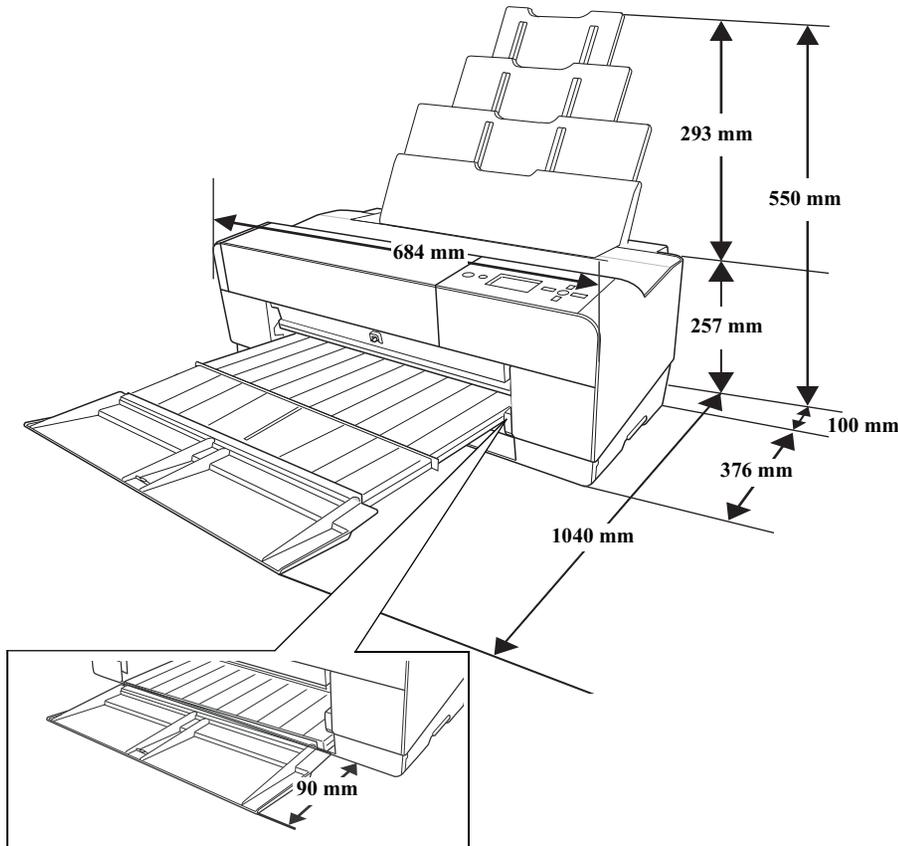


Figure 1-5. External Dimensions

- Dimensions
 - Storage: 684 (W) x 376 (H) x 257 (D) mm
 - Printing: 684 (W) x 1040 (H) x 550 (D) mm
- Weight
 - 18.5 kg (excluding ink cartridges, including Maintenance cartridge)
 - 19.8 kg (including ink cartridges)

1.5.2 Part Names

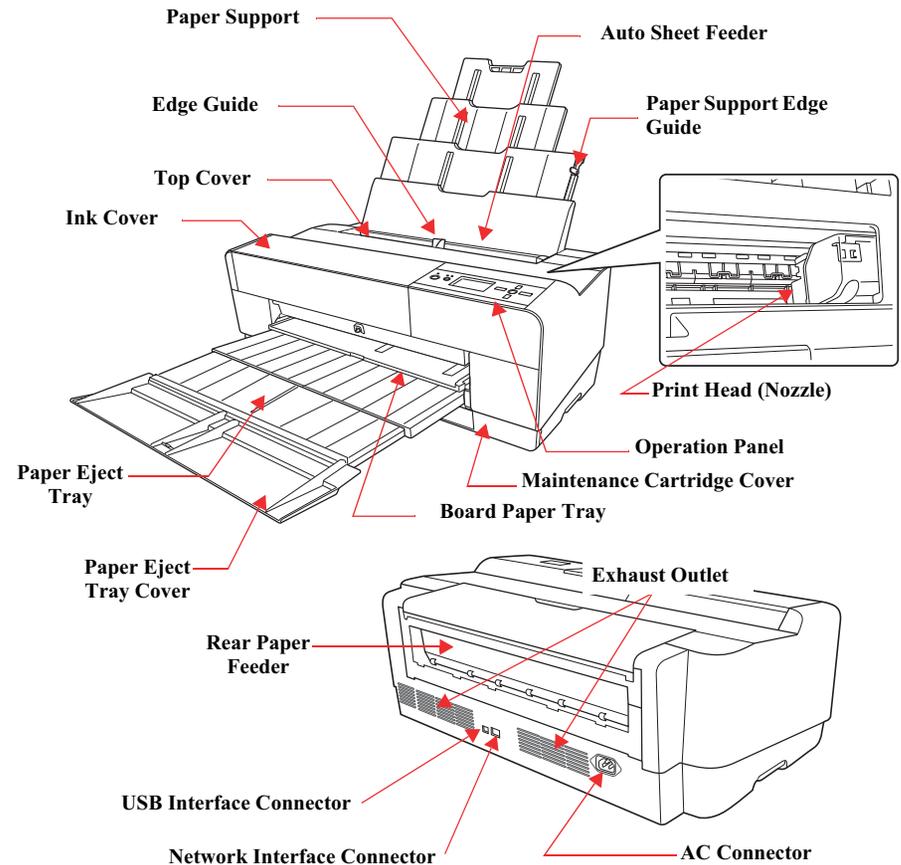


Figure 1-6. Parts Names

1.6 Operation Panel

1.6.1 Buttons and Functions

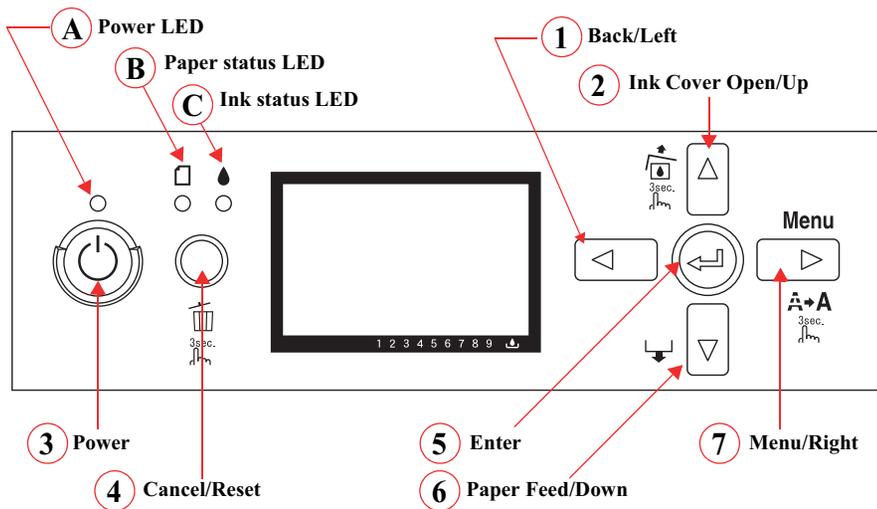


Figure 1-7. Operation Panel

1.6.2 Buttons

Button	Functions		
	Normal One Press	Hold Down for 3 Seconds	Function at the Panel Setting
1 Power	Turns the power ON or OFF*1	--	Power OFF
2 Cancel/Reset*2	<ul style="list-style-type: none"> Clears error Opens I/H Cover (When the printer runs out of ink) 	Cancels the job	Interrupts panel setting
3 Menu/Right	<ul style="list-style-type: none"> During printing Changes the panel display to the Printer Status Menu When not printing Shifts the printer into the Panel Setting Mode 	Runs a head cleaning*3	Moves to the next menu item (Descent)
4 Back/Left	--	--	Moves to the previous menu item (Ascent)
5 Ink Cover Open/Up	--	Unlocks the Ink Cover	Set Value +

Button	Functions		
	Normal One Press	Hold Down for 3 Seconds	Function at the Panel Setting
6 Paper Feed/Down	<ul style="list-style-type: none"> When paper is set ASF: Ejects the paper Manual-Rear: Backfeeds the paper Manual-Front: Ejects the paper When paper is not set ASF starts paper feeding When Manual-Front Tray Cover is opened. Manual-Front starts paper feeding 	--	Set Value -
7 Enter	--	--	<ul style="list-style-type: none"> Accepts the change of setting Executes the selected operation Saves the setting

Note **1": The printer is always turned OFF regardless of operation status.

**2": When turning the power ON while holding down the Cancel button, the maintenance mode becomes activated. (Refer to "1.6.7 Maintenance Mode" (p28) for details.)

**3": Deactivated during printing.

1.6.3 LED

LED	Color	Displays	Status
A Power	Green	ON	The power is ON.
		Flashing*	Receiving data, during printing, or executing power off sequence.
		OFF	The power is OFF.
B Paper status	Red	ON	Impossible to make a print due to the paper status.
		Flashing*	<ul style="list-style-type: none"> A paper feeding or ejecting error is occurring. A maintenance call error is occurring.
		OFF	The papers are in normal condition without an error or warning.
C Ink status	Red	ON	An ink-related error is occurring.
		Flashing*	An ink-related warning is occurring.
		OFF	The inks are in normal condition without an error or warning.

Note *: Alternately turns On and Off every 500 ms. In the case of maintenance call error, they light for 100 ms at intervals of five seconds.

Note : When a service call error occurs, all the LEDs flash.

1.6.4 Panel Display

- Normal indication

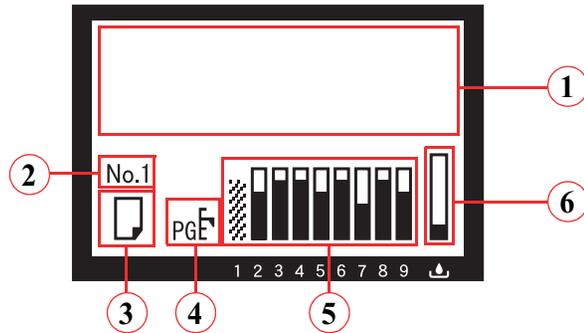


Figure 1-8. Panel Display (Normal indication)

No.	Item	Description
1	Messages	Printer status, operation status, and error messages are displayed.
2	User-defined paper No.	The user-defined paper setting number created by the CUSTOM PAPER function in the panel setting menu is displayed.
3	Paper type (For Cut-sheet only)	This icon is displayed when the number of paper, except STANDARD paper, created by the CUSTOM PAPER function in the panel setting is selected.
4	Platen Gap	The platen gap setting made by the PLATEN GAP function in the panel setting menu is indicated.
5	Ink Cartridge Status	The remaining amount of ink in each cartridge is displayed.
6	Remaining Maintenance Cartridge Status	Free space of the Maintenance Cartridge is displayed.

- Error indication



Figure 1-9. Panel Display (Error indication)

No.	Item	Description
1	Error name	Error name is highlighted.
2	Error icon	Error icon is displayed.
3	Remedy	Describes the cause of error and gives instructions to clear the error.

Note : When multiple errors occur simultaneously, they are displayed in the order of precedence. The next error indication appears when previous one is cleared.

- Error indication (Displayed with an illustration)

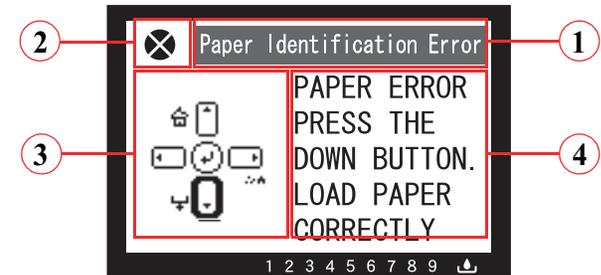


Figure 1-10. Panel Display (Error indication: Displayed with an illustration)

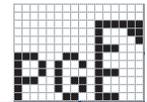
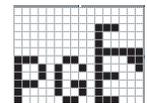
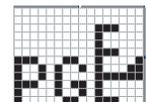
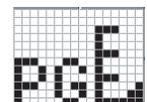
No	Item	Description
1	Error name	Error name is highlighted.
2	Error icon	Error icon is displayed
3	Illustration	Describes the cause of the error and gives instructions to clear the error using a illustration.
4	Remedy	Describes the cause of the error and gives instructions to clear the error.

Note : When multiple errors occur simultaneously, they are displayed in the order of precedence. The next error indication appears when previous one is cleared.

1.6.5 Icons on the LCD

PLATEN GAP SETTING

The platen gap specified in PRINTER SETUP and CUSTOM PAPER menus is indicated with icons as shown below.

Icons	Status
--	STANDARD is selected.
	NARROW is selected.
	WIDE is selected.
	WIDER is selected.
	WIDEST is selected.

INK CARTRIDGE STATUS

Ink Counter

The remaining amount of ink in each cartridge is indicated on the panel as shown below.

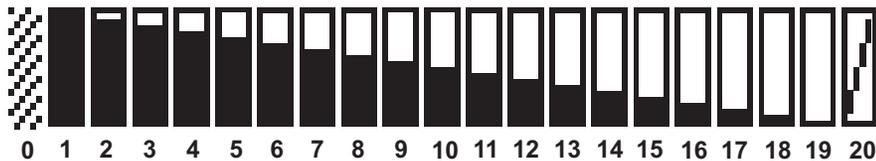


Figure 1-11. Ink Counter

Table 1-7. Relation between Counters and Remaining Ink

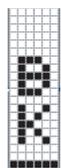
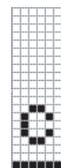
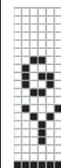
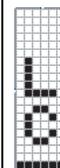
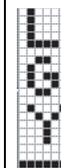
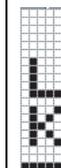
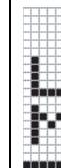
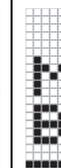
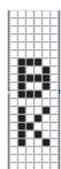
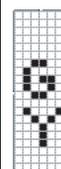
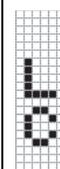
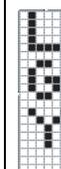
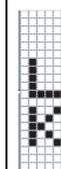
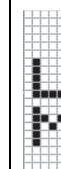
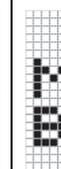
No.	Remaining Ink (%)	No.	Remaining Ink (%)	No.	Remaining Ink (%)	No.	Remaining Ink (%)
0*1	Not selected K	6	67-72	11	39-44	16	12-16
1	95-100	7	62-66	12	34-38	17	6-11
2	89-94	8	56-61	13	28-33	18	1-5
3	84-88	9	51-55	14	23-27	19*2	Ink Out
4	78-83	10	45-50	15	17-22	20	Ink Cartridge Error
5	73-77						

Note *1*: Displays either Matte BK or Photo BK that is not in use when printing.

2: Counter No.19 is displayed when non-genuine ink cartridge(s) is used.

Ink Low/Ink Out Indicator

The indicators below is displayed when Ink becomes Low or Out.

No.	1	2	3	4	5	6	7	8	9
Icon (Ink Low)									
Icon (Ink Out)									
Colors	PK	C	LK	Lc	LLK	Lm	M	MK	Y

MAINTENANCE CARTRIDGE STATUS

Maintenance Cartridge Counter

The free space of the Maintenance Cartridge is indicated as shown below.

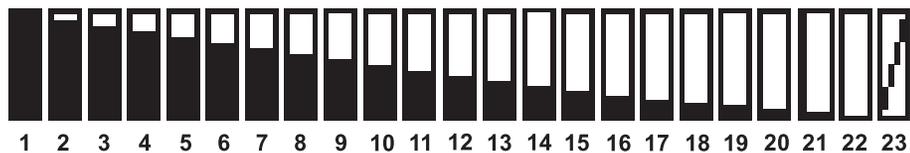


Figure 1-12. Maintenance Cartridge Status

Table 1-8. Relation between Counters and Remaining Ink

No.	Free Space (%)	No.	Free Space (%)	No.	Free Space (%)
1	96-100	9	58-61	17	20-23
2	91-95	10	53-57	18	15-19
3	86-90	11	48-52	19	10-14
4	81-85	12	43-47	20	5-9
5	77-80	13	39-42	21	1-4
6	72-76	14	34-38	22	0
7	67-71	15	29-33	23	Full
8	62-66	16	24-28		

1.6.6 Menu Settings

Table 1-9. List of Menu Settings

Top Menu	Menu Items	Settings (bold = default)	Explanation
PRINTER SETUP	PLATEN GAP	NARROW	Adjusts the gap between the print head and the platen. The set value is returned to the default at every power-on. When the PAPER TYPE in the CUSTOM PAPER menu is set to other than the default, the PLATEN GAP setting in the menu takes priority over this setting. (see "PG settings list" (p27))
		STANDARD	
		WIDE	
		WIDER	
		WIDEST	
	PAPER SIZE CHECK	ON	Setting to OFF deactivates the sensor that detects paper width when paper is loaded. This enables to print on paper whose width is out of the sensor's detectable range, however, the user should know that if he/she prints an image larger than the paper size, the image extended off the edges of the paper is printed directly on the platen.
OFF			
INITIALIZE SETTINGS	EXECUTE	All settings made using the control panel are returned to their default.	
TEST PRINT	NOZZLE CHECK	MANUAL	Prints a nozzle check pattern, firmware version, usage count of paper and ink, and free space in the maintenance cartridge. Visually check the printed check pattern, and decide whether cleaning is required or not.
		AUTO	Prints a nozzle check pattern, firmware version, usage count of paper and ink, and free space in the maintenance cartridge. The ink mark sensor scans the printed check pattern and cleaning is automatically carried out if it is judged necessary.
	STATUS SHEET	PRINT	Prints information on the printer status.
	NETWORK STATUS SHEET	PRINT	Prints information on the network status.
	JOB INFORMATION	PRINT	Prints information on print jobs stored in the printer up to 10 jobs.
	CUSTOM PAPER	PRINT	Prints setting values set in the CUSTOM PAPER menu.
PRINTER STATUS	VERSION	o0XXXX-XX.XX.ICBS	Displays the firmware version installed on the printer. (see "Firmware version indication" (p27))
	PRINTABLE PAGES	(Ink color) nnnnnnn PAGES	Displays the number of pages that can be printed with the installed ink cartridge.
	INK LEVEL	(Ink color) nn%	Displays the percentage of ink level in each installed cartridge.
	MAINTENANCE TANK	(MAINTENANCE TANK) nn%	Displays the percentage of free space in the maintenance cartridge.
	USAGE COUNT	INK xxxxx.xml	Displays ink amount consumed in ml units.
	JOB HISTORY	No.0 to No.9 INK xxxxx.xml PAPER xxxx.x cm ²	<input type="checkbox"/> JOB NO. Displays the job number assigned by the printer. The No.0 is the latest job. <input type="checkbox"/> INK LEVEL Displays ink amount consumed for each job. <input type="checkbox"/> PAPER SIZE Displays the number of pages of each job.
	TOTAL PRINTS	nnnnnn PAGES	Displays the gross number of printed pages in decimal up to six digits.

Table 1-9. List of Menu Settings

Top Menu	Menu Items	Settings (Bold = default)	Explanation
CUSTOM PAPER	PAPER NUMBER (1-10)	STANDARD	Paper type and relating settings can be saved and easily retrieved by assigning a number to them. Up to 10 groups of settings can be stored. When EPSON genuine paper is used, STANDARD should be selected.
		PAPER NO.1-10	
	PAPER TYPE	MATTE THICK	Selects a paper type corresponds to the paper.
		MATTE THIN	
		PHOTO PLAIN	
		FINE ART PAPER	
		REMOTE PANEL PAPER	
	PLATEN GAP	NARROW	Adjusts the platen gap according to the selected paper type.
		STANDARD	
		WIDE	
		WIDER	
THICKNESS PATTERN	PRINT	Prints a pattern to detect the thickness of loaded paper. (When STANDARD is selected in the PAPER NUMBER, this menu is not displayed.)	
PAPER FEED ADJUST A	0.00%	Sets paper feed amount for the printable area. The amount increases/decreases by the selected percentage of one meter.	
	-0.7% to 0.7%		
PAPER FEED ADJUST B	0.00%	Sets paper feed amount for the bottom area (out of the printable area). The amount increases/decreases by the selected percentage of one meter.	
	-0.7% to 0.7%		
DRYING TIME	0.0 SEC	Sets a time period to stop the print head movement for drying ink.	
	0.0 SEC to 10.0 SEC		
MAINTENANCE	BLACK INK CHANGE	EXECUTE	Switches the black ink between Matte and Photo.
	POWER CLEANING	EXECUTE	Performs a power cleaning.
	CLOCK SETTING	YY/MM/DD HH:MM	Sets date and time of the internal clock.
	CONTRAST ADJUSTMENT	0	Adjusts the contrast of the control panel display.
-20 - 0 - +20 (dec)			
HEAD ALIGNMENT	AUTO	PREM.GLOSSY/LUSTER	Selects a paper type to be used for the gap adjustment.
		PQ INK JET PAPER	
		ENHANCED MATTE PAPER	
	MANUAL	0.1 mm	Selects a gap to be adjusted manually.
		0.2 mm	
		0.3 mm	
		0.4 mm	
	0.5 mm		

Table 1-9. List of Menu Settings

Top Menu	Menu Items	Settings (Underline = default)	Explanation
NETWORK SETUP	NETWORK SETUP	<u>DISABLE</u>	Disables or enables a network connection. The other NETWORK SETUP menu items appear only when ENABLE has been selected. Under the following conditions, this setting is automatically changed to DISABLE. <ul style="list-style-type: none"> • Every power-on (always returns to the default: DISABLE) • When the network setup initialization is performed. • When the PANEL DEFAULT in the maintenance mode is performed.
		ENABLE	
	IP ADDRESS SETTING	<u>AUTO</u>	Select the settings for the IP address to use. When [PANEL] is selected, the settings in [IP, SN, DG SETTING] are enabled.
		PANEL	
		PING	
	IP, SN, DG SETTING	---	Set the IP address, Subnet mask, and default gateway.
	APPLE TALK	<u>ON</u>	Enables (ON)/disables (OFF) AppleTalk.
		OFF	
	MS NETWORK	<u>ON</u>	Enables (ON)/disables (OFF) MS NETWORK.
		OFF	
BONJOUR	<u>ON</u>	Enables (ON)/disables (OFF) BONJOUR.	
	OFF		
INIT NETWORK SETTING	EXECUTE	Returns the network I/F related settings to their default.	

❑ PG settings list

The table below lists the platen gap amounts settable with the printer driver, control panel, and media table.

Table 1-10. PG Setting List

Printer Driver Paper Thickness setting	Control Panel Setting	Media Table or Printer Driver PG Setting	PG amount (mm)
No setting 0.0 to 0.8mm	NARROW	Minimum	0.9
		Small	0.9
		Middle	1.2
		Large	1.5
	STANDARD	Minimum	0.9
		Small	1.2
		Middle	1.5
		Large	2.1
	WIDE	Minimum	1.2
		Small	1.5
		Middle	2.1
		Large	2.1
	WIDER	Minimum	1.5
		Small	2.1
		Middle	2.1
		Large	2.1
WIDEST	Minimum	2.1	
	Small	2.1	
	Middle	2.1	
	Large	2.1	
0.9mm to 1.5mm	--	--	3.5

❑ Firmware version indication

The table below explains the meaning of the “o0XXXX-xx.xx.IBC” (firmware version).

Table 1-11. Firmware Version Indication

Item	Explanation
o0	A code assigned to each printer. Special version is assigned to “0” (zero).
XXXX	The version of the firmware installed on the printer.
xx.xx	The version of the network firmware.
I	A code assigned by product. The code of the printer is “8”.
B	When the business system functions are enabled, the printer settings are indicated in hexadecimal (1 to F). bit0: Graphic printing control function. 0: Disabled 1: Enabled bit1: Credit function 0: Disabled bit2: Credit counter 0: The credit function is disabled or the counter is “0” (zero). 1: The credit function is enabled and the counter is 1 or more. bit3: Reserved
C	Shows the custom number when the custom operation has been set using the special setting menu. “0” appears when such operation is not set.

1.6.7 Maintenance Mode

HOW TO START & QUIT

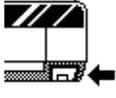
- Starting Method
Turn the printer On while holding down the Cancel/Reset button.
- Quitting Method
Turn the printer Off.

MAINTENANCE MODE MENU LIST

Menu Item	Settings (Bold = default)	Explanation
LANGUAGE	ENGLISH	Select the language to be displayed on the LCD panel.
	JAPANESE	
	FRENCH	
	GERMAN	
	ITALIAN	
	PORTUGUE	
	SPANISH	
	DUTCH	
UNIT	METRIC	Select a unit of length to be used for various length information.
	FEET/INCH	
DEFAULT PANEL	EXECUTE	All settings made in the following menus are returned to their default. <ul style="list-style-type: none"> ■ PRINTER SETUP menu ■ PRINTER STATUS menu ■ CUSTOM PAPER menu ■ HEAD ALIGNMENT menu ■ NETWORK SETUP menu

1.6.8 Error/Warning Statuses Displayed/Indicated on/by LCD/LED

No	Error/Warning Status	Error or Warning	Illustration on LCD	Message on LCD	LED		
					Power	Paper Status	Ink Status
1	FATAL ERROR (Service Call No. is displayed)	Error	--	SERVICE CALL ERROR NNNN PLEASE CONTACT TO THE REPAIR CENTER	Light	Blink	Blink
2	FATAL ERROR (1st time: Restart Request is displayed/ 2nd time and later: Service Call No. is displayed.)	Error	--	PRINTER ERROR RESTART THE PRINTER	Light	Blink	Blink
3	FATAL ERROR (Always Restart Request is displayed.)	Error	--	PRINTER ERROR RESTART THE PRINTER	Light	Blink	Blink
4	FATAL ERROR (CR locked)	Error	--	CARRIAGE LOCKED RELEASE THE CARRIAGE LOCK	Light	Blink	Blink
5	PAPER JAM (Fatal Error)	Error	--	PAPER JAM CLEAR JAMMED PAPER SEE PRINTER GUIDE FOR INSTRUCTIONS	Light	Blink	Blink
6	Timer IC Reset/Clearing NVRAM (Please wait)	--	--	PLEASE WAIT	Light	Light	Light
7	Updating F/W (at normal startup)	--	--	UPDATING FIRMWARE	Blink	Off	Off
8	Canceling (including Job Cancel)	--	--	RESETTING PLEASE WAIT	Light	Light	Light
9	No Maintenance Cartridge	Error		NO MAINTENANCE CART. INSTALL THE MAINTENANCE CARTRIDGE.	Light	Off	Light
10	Maintenance Cartridge Cover Open	Error		MAINTENANCE COVER OPEN CLOSE THE MAINTENANCE COVER	Light	Off	Light
11	Paper Feed Failed Reset	Error	--	PAPER FEED ERROR REMOVE PAPER AND LOAD PAPER CORRECTLY	Light	Light	Off
12	Board Paper Feed Failed Reset	Error	--	PAPER FEED ERROR LOAD PAPER CORRECTLY AND PRESS PAPER/FEED BUTTON	Light	Light	Off

No	Error/Warning Status	Error or Warning	Illustration on LCD	Message on LCD	LED		
					Power	Paper Status	Ink Status
13	Paper Jam Discharge Failed Remove Paper	Error	--	PAPER JAM REMOVE PAPER	Light	Light	Off
14	Waiting Cartridge Cover open	--	--	RELEASING THE INK COVER LOCK	Blink	Off	Off
15	Cartridge Cover Cannot Be Opened	Error	--	CANNOT OPEN COVER IS THERE ANYTHING ON THE PRINTER? PRESS THE UP BUTTON	Light	Off	Blink
16	Detecting Ink Cartridge (Cover close -> REED)	--	--	PLEASE WAIT	Light	Off	Off
17	Maintenance Cartridge Insufficient	Error		MAINTENANCE CARTRIDGE NEARLY FULL REPLACE THE CARTRIDGE	Light	Off	Light
18	Ink Cartridge Insufficient	Error	--	NOT ENOUGH INK REPLACE INK CARTRIDGE WITH A NEW ONE	Light	Off	Light
19	Maintenance Cartridge CSIC Read/Write Error	Error		MAINTENANCE CARTRIDGE ERROR REPLACE THE CARTRIDGE	Light	Off	Light
20	Not GENUINE maintenance cartridge error	Error	--	MAINTENANCE PLEASE USE GENUINE EPSON CARTRIDGES	Light	Off	Light
21	Not GENUINE maintenance cartridge error (Confirmation 1)	Error	--	MAINTENANCE NON-GENUINE CARTRIDGE! MAY NOT PERFORM AT OPTIMUM. CONTINUE? <YES NO>	Light	Off	Light
22	Not GENUINE maintenance cartridge error (Confirmation 2)	Error	--	MAINTENANCE THIS MAY VOID EPSON'S WARRANTY. DO YOU ACCEPT THIS? <ACCEPT DECLINE>	Light	Off	Light
23	Maintenance Cartridge End	Error		MAINTENANCE CARTRIDGE FULL REPLACE THE CARTRIDGE	Light	Off	Light

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