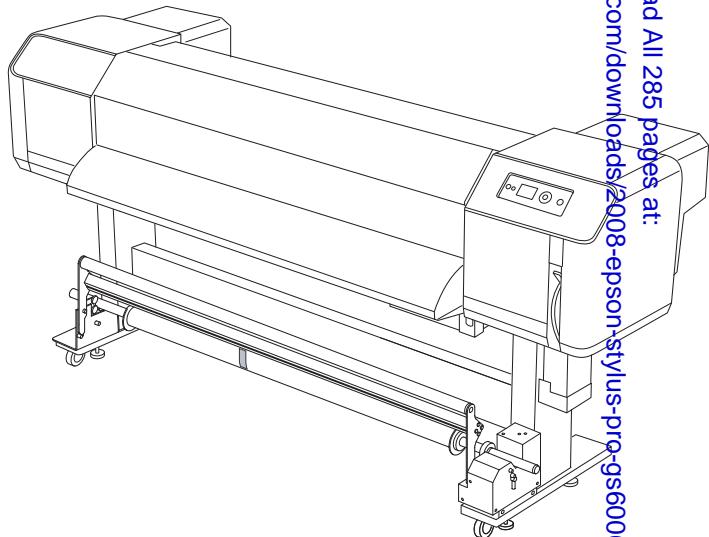


Product: 2008 Epson Stylus Pro GS6000 Large Format Color Inkjet Printer Service Repair Workshop Manual  
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# SERVICE MANUAL



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*Large Format Color Inkjet Printer*

**Epson Stylus Pro GS6000**

**EPSON**  
EXCEED YOUR VISION

# 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 LOWER 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
- ASP List
- Exploded 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	July 18, 2008	First release

Revision	Date of Issue	Description
B	December 12, 2008	<p>Ch1:</p> <ul style="list-style-type: none"> <li>■ <a href="#">1.2.2 Durability (p. 14)</a> Revised contents.</li> <li>■ <a href="#">1.4.2 Panel Settings (p. 22)</a> Added the ROLL PAPER COUNTER menu.</li> <li>■ <a href="#">1.4.3 Maintenance Mode (p. 30)</a> Added the REMAINING PPR SETUP menu.</li> <li>■ <a href="#">1.4.4 Serviceman Mode (p. 31)</a> Added the menu list.</li> </ul> <p>Ch4:</p> <ul style="list-style-type: none"> <li>■ <a href="#">4.1.3 Recommended Tools (p. 64)</a> Added Thread-locker.</li> </ul> <p>Ch5:</p> <ul style="list-style-type: none"> <li>■ <a href="#">5.1.4 Tools for Adjustments (p. 186)</a> Added Thread-locker.</li> <li>■ <a href="#">5.1.5 Service Program Basic Operations (p. 187)</a> Changed the explanation partially.</li> <li>■ <a href="#">5.3.3 CR Height Adjustment (p. 197)</a> Corrected the values indicating the jig's thickness.</li> <li>■ <a href="#">5.4.6 Head Slant and Alignment Adjustment (p. 205)</a> Changed the explanation.</li> <li>■ <a href="#">5.6.1 RTC and USB ID (p. 217)</a> Changed the explanation.</li> <li>■ <a href="#">5.8.3 Electric Components Test (p. 224)</a> Changed the actions of the F COVER and the M COVER when checking partially.</li> </ul> <p>Ch6:</p> <ul style="list-style-type: none"> <li>■ <a href="#">6.4 Cleaning (p. 234)</a> Added the Carriage Rail Cleaner and the Carriage Rail Oil to the Maintenance Kit.</li> <li>■ <a href="#">6.5 Lubrication (p. 241)</a> Added the Part No. of grease.</li> </ul> <p>Ch7:</p> <ul style="list-style-type: none"> <li>■ <a href="#">7.3 Parts List (p. 250)</a> Update the information to the latest.</li> <li>■ <a href="#">7.4 Exploded Diagram (p. 255)</a> Update the information to the latest.</li> </ul>

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CHAPTER

1

PRODUCT DESCRIPTION

## 1.1 Features

Epson Stylus Pro GS6000 is a wide-format color Eco-Solvent ink jet printer that supports 64-inch roll paper. The features of this printer are;

High-speed output

The new type print head achieves high-speed output. It is compatible with paper up to 1,625 mm in width.

Wide variety of compatible paper

The head is adjustable to two levels of height and compatible with paper up to 1.3 mm in thickness.

Vibrant color reproduction

Eight colors of ink are used for printing in order to reproduce sharp and vivid colors. This printer uses 950 ml large-capacity ink cartridges. Use of variable dots can improve color reproduction.

Multi-heater

Heaters are installed at three locations (pre, platen, after) allowing solvent ink to fix better on paper and dry quickly.

Auto Take-Up Reel Unit

This automatically takes up printed paper, keeping it clean and free of creases. It is also convenient for storage and transportation.

Large-capacity (950 ml) ink cartridge

Epson provides the large-capacity (950 ml) ink cartridges for this printer that realize the high productivity required for professional work.

High speed USB 2.0 / Gigabit Ethernet

You can connect to a high-speed network (such as USB 2.0 or Ethernet 100/1000) and that improves the file transfer speed.

Active indicator

The Active indicator flashes when an error has occurred during operation. Since the indicator is big, customers can easily check the operational status of the printer at a distance.

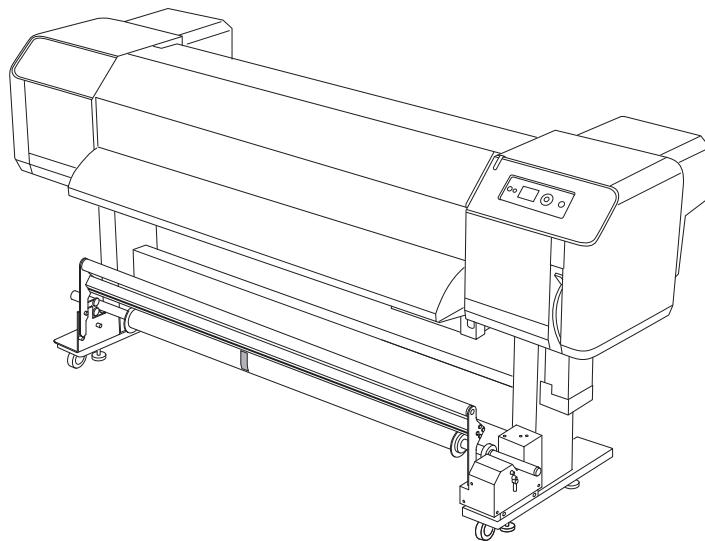


Figure 1-1. External View

## 1.2 Basic Specifications

### 1.2.1 Printer Specifications

Item		Specification		
Printing method		On-demand ink jet		
Nozzle configuration		Black: 180 nozzles per color x 2 <sup>*1</sup>		
		Color: 180 nozzles per color x 2 <sup>*1</sup> (Cyan, Magenta, Light Cyan, Light Magenta, Yellow, Green, Orange)		
Character mode	Character Pitch	10 cpi		
	Printing Column	635		
Raster graphic mode	Horizontal resolution	540 dpi	720 dpi	1440 dpi
	Printable width	1615.0 mm (63.58")		
	Available dots	34,334	45,779	91,559
Resolution		Maximum 1440 x 1440 dpi		
Print direction		Bidirectional		
Control code		ESC/P Raster, ESC/P2		
RAM		256 MB (MAIN) + 64 MB (Network)		
Character tables		PC 437 (US, Standard Europe)		
Character sets		EPSON Courier 10 cpi		
Paper feed method		Friction		
Paper path		Roll paper		

Note \*1: Each color has two lines.

### ELECTRIC SPECIFICATIONS

Item	Specification			
	100-120V Model	220-240V Model		
Rated voltage	AC 100 to 240 V			
Input voltage range	AC 90 to 264 V			
Rated frequency range	50 to 60 Hz			
Input frequency range	49 to 61 Hz			
Rated current	MAIN	11 A		
	HEATER	11 A		
	TAKE-UP REEL	0.4A		
Power consumption (MAIN + HEATER)	Printing	Approx. 680 W		
	Ready mode	Idle heat ON	Approx. 680 W	
		Idle heat OFF	Approx 48 W	Approx 40 W
	Sleep mode		Approx. 24 W	
	Power off:		Approx. 3 W	

## INK CARTRIDGES

Item	Specification	
Colors	Cyan	
	Magenta	
	Yellow	
	Black	
	Light Cyan	
	Light Magenta	
	Green	
	Orange	
	See expiry date on package or cartridge.	
Cartridge life		
Within 6 months after opening package.		
Temperature	Storage (uninstalled)	-20 to 40°C (-4 to 104°F) 1 month at 40°C (104°F)
	Storage (installed)	-10 to 40°C (14 to 104°F) 4 days at 32°C (90°F)
Capacity		950 ml
Dimensions		53.1 mm (W) x 316.1 mm (D) x 146.2 mm (H)

## ENVIRONMENTAL CONDITIONS

Item	Specification	
Temperature	Operation	20 to 32°C (68 to 89.6°F)
	Print Quality Guarantee	22 to 32°C (72 to 89.6°F)
	Storage	-10 to 40°C (14 to 104°F)
		4 days at 32°C (90°F)
Humidity	Operation	40 to 60% RH*
	Print Quality Guarantee	40 to 60% RH*
	Storage	20 to 80% RH*

Note \*: Without condensation

## ROLL PAPER

Item	Specification	
Paper size (width)	300 mm (12") to 1625 mm (64")	
Internal diameter	3 inches	
Outer diameter	Max. 170 mm (6.7")	
Thickness	When Head height adjustment lever is Low	Max 0.3 mm
	When Head height adjustment lever is High	Max 1.3 mm
Weight	Max. 30 kg	

## STANDARDS AND APPROVALS

Item	Specification	
Safety	UL 60950-1	
	CSA No. 60950-1	
	Low Voltage Directive 2006/95/EC	EN 60950-1
EMC	FCC part 15 subpart B class A	
	CAN/CSA-CEI/IEC CISPR 22 Class A	
	AS/NZS CISPR 22 Class A	
	EMC Directive 2004/108/EC	EN 55022 Class A
		EN 55024
		EN 61000-3-2
		EN 61000-3-3

## MECHANISM

Item	Specification	
CR and PF drive method	Servo motor and DC motor are operated by the firmware	
Paper feed method	Loads paper at the rear and ejects paper to the front	
Print Head	180 nozzles x 8 rows Two Print Heads are mounted.	
Ink	Ink supply method	Ink is supplied from the independent ink cartridges through a tubes via the sub tanks.
	Ink type	Eco-Solvent ink
	Ink colors	Black, Cyan, Magenta, Yellow, Light Cyan, Light Magenta, Green, Orange
Waste ink tank	Attachment	Secured to the main unit
	Capacity	2,000 ml
	Full tank detection	Detected by the float sensor
Noise		50dB or lower
Take-Up Reel Unit	Drive method	Driven by DC geared motor

## 1.2.2 Durability

The following lists the parts that need periodical replacement as indicated.

Item	Durability	Panel message display
Head Caps	1 year	None
Wiper	1 year	None
Head & Dumpers	6,000,000,000 dots/nozzle	None
CR Motor	6,220,000 passes	Indicated
PF Motor	30,000 m.	None

## 1.2.3 Paper size/Printable area

### SUPPORTED PAPER SIZE/THICKNESS

The supported paper size and thickness are described below.

Item	Value
Width	300 to 1625 mm
Thickness	When Head height adjustment lever is Low
	When Head height adjustment lever is High

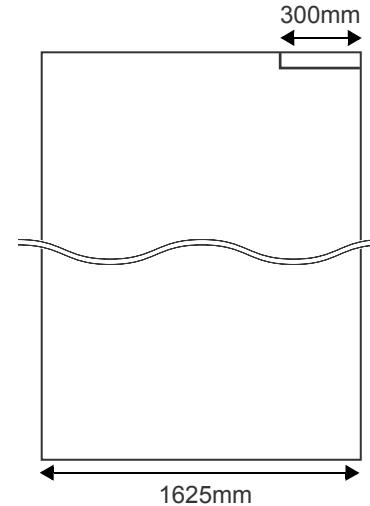
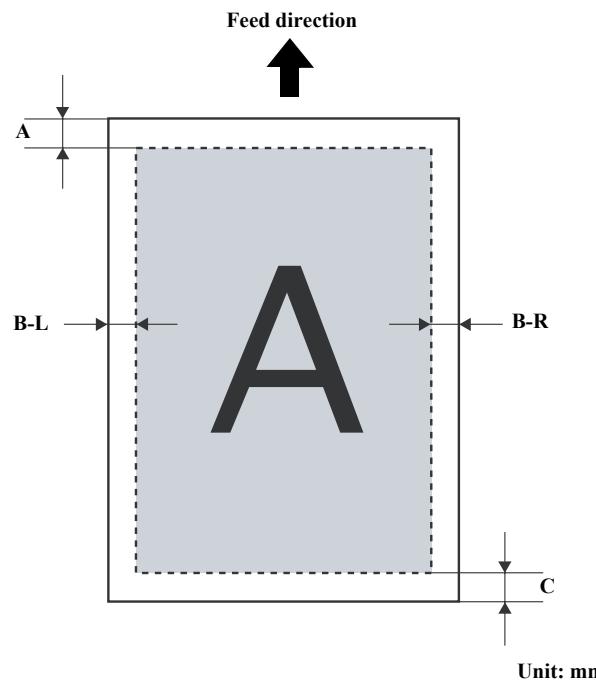


Figure 1-2. Supported Paper Size

**PRINTABLE AREA**

The printable area of this printer is described below.



**Figure 1-3. Printable Area**

Item	Value
A	Min. 5 mm
B-L	5 to 25 mm
B-R	5 to 25 mm
C	Min. 5 mm When end of the roll paper, the margin will be 77.4 mm.

**1.2.4 Print Mode / Print Resolution**

The table below lists the print mode and the resolution.

Media Type	Print quality	Print density (HxV)	Dot size	Pass (CRxPF)	Uni/Bi	Throughput (m <sup>2</sup> /h)
Marking Film	Max Quality	1440x1440dpi	VSD3d-S(320cps)	4x4 pass	Uni-D	1.6
	Quality 1	1440x720dpi	VSD3d-V(320cps)	4x2 pass	Uni-D	3.3
	Quality 2	720x720dpi	VSD3d-V(400cps)	4x2 pass	Uni-D	3.6
	Quality 3	540x720dpi	VSD3d-V(400cps)	3x2 pass	Uni-D	5.5
Banner	Speed 1	540x720dpi	VSD1d-V(400cps)	3x2 pass	Uni-D	5.5
	Speed 2	720x720dpi	VSD1d-V(400cps)	2x2 pass	Uni-D	8.3
	Speed 3	720x360dpi	VSD1d-L(400cps)	2x1 pass	Uni-D	16.6
					Bi-D	25.3

## 1.3 Dimensions and Main Components

This section describes the printer dimensions and the main components.

### 1.3.1 Dimensions and Weight

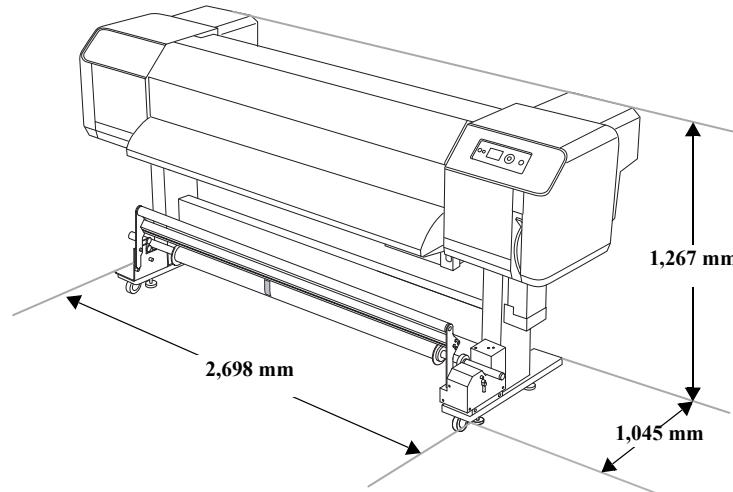


Figure 1-4. Printer Dimensions (standard)

#### □ Dimensions

- Standard (with the Auto Take-up Reel Unit):  
2,698 (W) x 1,045 (D) x 1,267 (H) mm
- Without the Auto Take-up Reel Unit:  
2,698 (W) x 943 (D) x 1,267 (H) mm

#### □ Weight

- Printer main body and the Stand (excludes the ink cartridges and paper):  
Approx. 183 kg
- Printer main body only (excludes the ink cartridges and paper):  
Approx. 150 kg
- Auto Take-up Reel unit: Approx. 19 kg

### 1.3.2 Part Names

FRONT

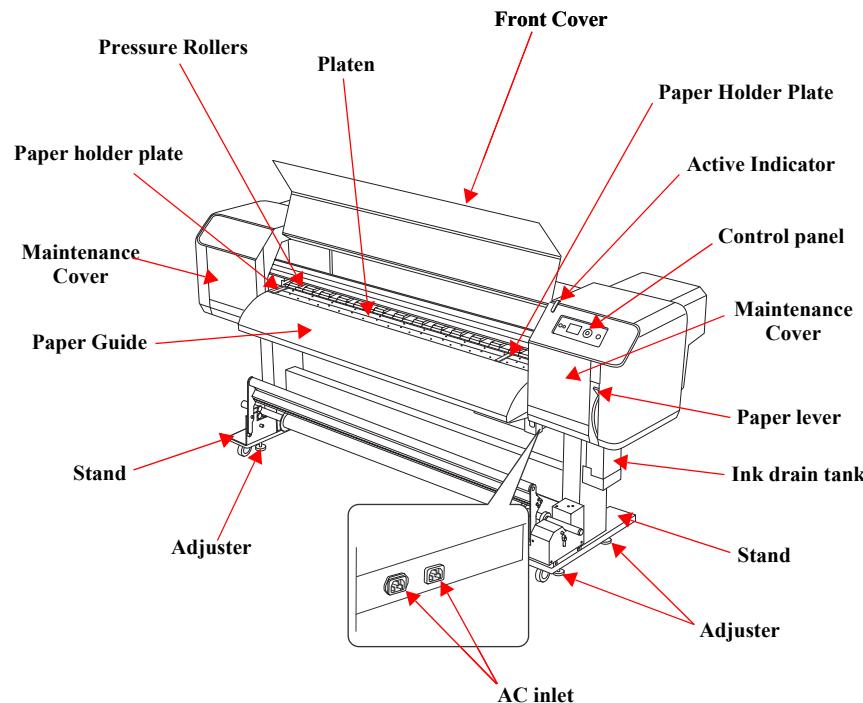


Figure 1-5. Part Name (Front)

REAR

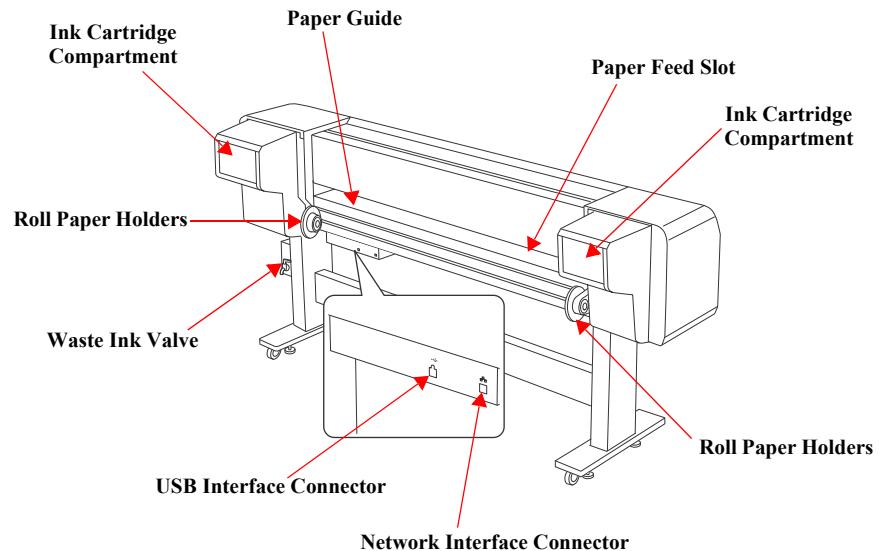


Figure 1-6. Part Name (Rear)

## 1.4 Control Panel

### 1.4.1 Buttons and Indicators

#### BUTTONS

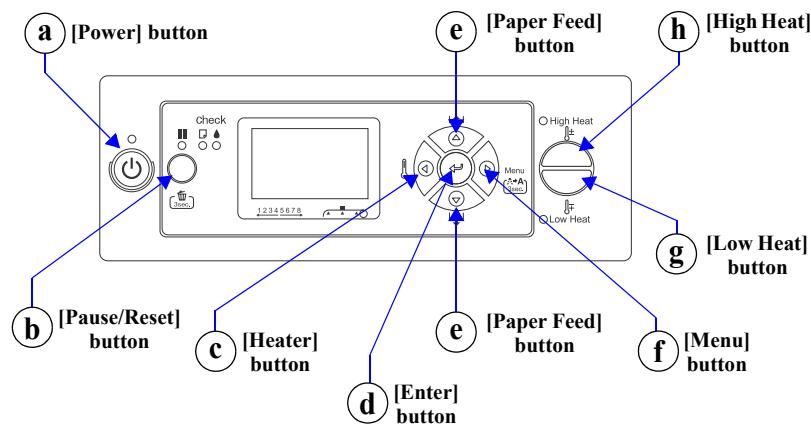
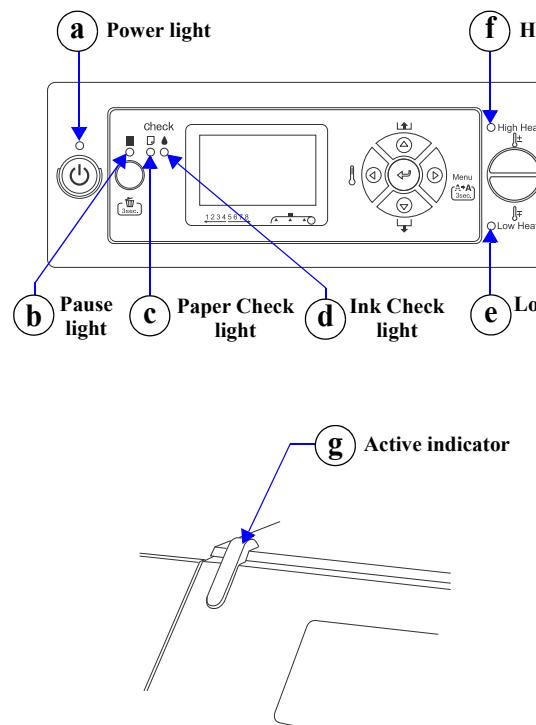


Figure 1-7. Buttons

Button Name		Function
a	[Power]	Turns the printer on or off.
b	[Pause/Reset]	Stops printing temporarily, or restarts printing if pressed when the printer is in the pause mode.
		Clears print data in the printer memory if pressed and held for 3 seconds.
		The printer returns to the READY state when this button is pressed in the Menu mode.
c	[Heater]	Selects a heater type. From the right, Pre Heater, Platen Heater, and After Heater are displayed on the LCD panel. Select a heater type, and then press the [High Heat] button or [Low Heat] button to change the preset temperature.
		Returns to the previous level when pressed in the Menu mode.
d	[Enter]	Sets the selected parameter in the selected item in the Menu mode. Executes the item if the selected item is for execution only.
e	[Paper Feed]	Feeds the roll paper in the forward or reverse direction.*1
		Changes the parameter in the forward or reverse order when selecting a desired parameter in the Menu mode.
		The numeric value is decreased or increased during numerical input.
f	[Menu]	Enters the Menu mode when pressed in the READY state.
		Enters the Printer Status menu if pressed during printing.
		Stops printing temporarily, or restarts When pressed in the Menu mode, a desired menu can be selected.
		Performs Cleaning (Light) to clean the print heads if pressed and held for 3 seconds.
g	[Low Heat]	Decreases the preset temperature of the heater. You can also change the preset temperature while printing.
h	[High Heat]	Increases the preset temperature of the heater. You can also change the preset temperature while printing.

Note \*1: When AUTO TAKE-UP REEL is ON in the Menu mode, the roll paper cannot be fed in the reverse direction.

**LIGHTS (LED)****Figure 1-8. Lights (LED)**

Name		Status	Description	
a	Power light	On	The printer is on.	
		Flashing	The printer is: <ul style="list-style-type: none"><li>analyzing the data</li><li>printing</li><li>cleaning</li><li>in process of turning off</li></ul>	
		Off	The printer is off.	
b	Pause light	On	The printer is in the Menu mode. The printer is in the pause mode.	
		Off	The printer is ready to print data.	
		On	No paper is loaded in the printer.	
c	Paper Check light	Flashing	Paper is jammed. Paper is not loaded straight. Paper is nearly ended. The maintenance call has occurred.	
		Off	The printer is ready to print data.	
		On	The installed ink cartridge is expended. The ink cartridge is not installed. The wrong ink cartridge is installed.	
d	Ink Check light	Flashing	The installed ink cartridge is nearly expended.	
		Off	The printer is ready to print data.	
e	Low Heat light	The status or the meaning is shown by combination of the light. See " <a href="#">Combination of Low and High Heat Lights</a> " (p20).		
f	High Heat light	Flashing	An error has occurred.	
		Off	The printer has no error.	
g	Active indicator	Off		

<Combination of Low and High Heat Lights>

- When the printer is READY

High Heat	Low Heat	Status
On	On	The three heaters have reached preset temperature.
Flashing	Off	One or more of the heaters is/are trying to reach the preset temperature.
Flashing	Flashing	A heater error has occurred.
Off	Off	Heaters are off.

- When selecting a Heater to set the temperature.

High Heat	Low Heat	Status
On	On	You can change the temperature to higher or lower than the current setting.
On	Off	You can change the temperature to higher than the current setting.
Off	On	You can change the temperature to lower than the current setting.

## DISPLAY

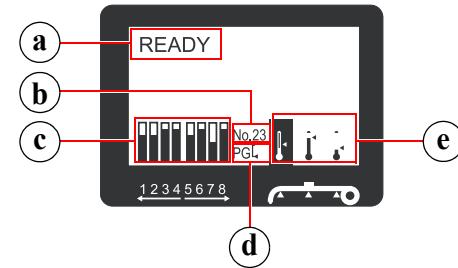


Figure 1-9. Display

Name		Description
a	Messages	Displays the printer status, operation, and error messages.
b	Paper Type	When you select paper type (1 to 30) in the Paper Setup menu, the number you selected appears.
c	Ink cartridge status icon	Displays the remaining amount of ink in each cartridge.
d	Platen Gap icon	Displays the Platen Gap setting that is read by the sensor.
e	Heater icon	Displays the preset temperature and the current temperature of the Pre Heater, Platen Heater, and After Heater.

Ink cartridge status icon

■ Ink cartridges

No.	Ink color
1	Orange (OR)
2	Green (GR)
3	Light Magenta (LM)
4	Light Cyan (LC)
5	Black (BK)
6	Yellow (Y)
7	Magenta (M)
8	Cyan (C)

■ Ink remaining

Icon			Description
			There is enough ink remaining.
			We recommend you prepare a new ink cartridge.
			The icon flashes. The yellow ink cartridge is nearly empty. Prepare a new ink cartridge.
			The ink is expended so you cannot print. Replace the ink cartridge with a new one. This icon indicates the yellow tank.
			Cartridge error or no cartridge.

Platen Gap icon

Icon	Explanation
	High
	Low

Heater icon

Icon	Explanation
	<p>The preset temperature is indicated by the graduation and the numerical value.</p> <p>The current temperature is indicated by the thermometer icon.</p>

## 1.4.2 Panel Settings

This section describes the panel settings that customers can change.

For the map of menu, see “[7.2 Panel Menu Map](#)” (p247).

### MENU LIST

Menu	Item	Parameter (*: Default setting)	Explanation
PRINTER SETUP	SIDE MARGIN	5mm* - 25mm (0.2inch* - 1.00inch)	You can set the margin for left and right side.
	PAPER SIZE CHECK	ON*	You can select whether to check the paper width. <input type="checkbox"/> ON: Check the paper width and top edge of the paper.
		OFF	<input type="checkbox"/> NO: Do not check the paper width and top edge of the paper. The printer continues to print even if the paper width does not match the data width, and the printer may print beyond the paper. Because this soils the inside of the printer, we recommend you select ON. This may result in a wider blank margin at the top of each page.
	PAPER SKEW CHECK	ON*	If the paper is not straight, “PAPER SKEW” appears on the LCD panel and the printer stops printing.
		OFF	A paper align error does not occur even if the printed data is out of range of the paper, and the printer continues to print.
	PRINT NOZZLE PATTERN	OFF*	When you select ON, the printer prints the nozzle check pattern before printing each print job or the 10th sheet, depending on the setting you have set.
		ON: EVERY PAGE	
		ON: EVERY 10 PAGES	
	HEATING TIME	OFF	You can set the length of time to preheat the heaters. When more than the set time has passed after turning on the printer or after printing is finished, each heater turns off.
		10min* - 240min	
	FLUSH ONTO PAPER	YES*	You can set up the flushing operation while printing. <input type="checkbox"/> YES: The printer performs the flushing operation on the page margins. The printing speed improves since the number of times to return to the flushing box is decreased. <input type="checkbox"/> NO: Performs the flushing operation to return to the flushing box every time the print head goes and returns.
		NO	
	FLUSING FREQUENCY	5PASS*	You can set the frequency that the print head returns to the flushing box when setting YES in the FLUSH ONTO PAPER setting. (When you select 5PASS, the print head returns to the flushing box every time the print head goes and returns five times.)
		1PASS - 999PASS	
	PAPER ORIGIN SETUP	0mm* - 800mm	You can set the beginning of printing (origin) of the horizontal direction.

Menu	Item	Parameter (*: Default setting)	Explanation
PRINTER SETUP	AUTO TAKE-UP REEL	ON*	Use this setting when using the Auto Take-Up Reel Unit. When ON is selected, you cannot feed the roll paper in the reverse direction.
		OFF	 When the Auto Take-Up Reel Unit is not installed, do not set to ON. By doing so, the product will be unable to function properly.
	HEAD FAN (COOLING FAN)	ON*	You can set up the head fan operation. If print blurring or dot losses occur, select ON.
		OFF	
	REGULAR CLEANING	OFF	You can set the auto cleaning interval of this printer. When more than the set time has passed since the previous print job, the print head is cleaned automatically to prevent it from clogging.  The timer will be reset at the following timing: <ul style="list-style-type: none"><li>■ when turning on the printer</li><li>■ when changing the interval of the auto cleaning</li><li>■ when performing the cleaning manually</li></ul>
		1h, 2h, 3h, 4h, 5h, 6h*, 9h, 12h, 18h, 24h	
PAPER SETUP	ROLL PAPER COUNTER	OFF*	In this setting, the alert can be set off when the remaining paper falls below 2m. Enter the remaining amount (length) of paper currently set on the printer. This menu is displayed only when the REMAINING PPR SETUP in Maintenance Mode is set to ON.
		5 - 99.5m (15 - 300ft)	
	INITIALIZE SETTINGS	EXECUTE	You can return all setting values you have made in the Printer Setup menu to their factory set value.
	PAPER TYPE	STANDARD*	You can select the paper type to print.
		PAPER No.1 - 30	
PAPER SETUP	PAPER SETUP	STANDARD*	When you select STANDARD, the default settings are used. When you select a number (between 1 to 30), you can register the settings (such as Print Mode, Paper Feed Adjust, Head Alignment, Pre Heater, Platen Heater, After Heater, M/W Adjustment, Paper Suction, Drying Time, Carriage Movement, Print Multiple Layer) or to recall these settings you have made. The number you select here is displayed on the LCD panel. See " <a href="#">Details of PAPER SETUP</a> " (p27).
		PAPER No.1 - 30	

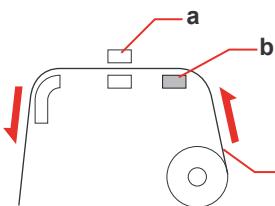
Menu	Item	Parameter (*: Default setting)	Explanation
MAINTENANCE	CLEANING (VERY LIGHT)	EXECUTE	You can perform very light cleaning. It discharges a smaller amount of ink compared to CLEANING (LIGHT).
	CLEANING (LIGHT)	EXECUTE	You can perform normal cleaning. Select this mode normally.
	CLEANING (MEDIUM)	EXECUTE	You can perform strong cleaning. It discharges a larger amount of ink compared to CLEANING (LIGHT). Use this mode when the print head clog situation does not improve by CLEANING (LIGHT).
	CLEANING (HEAVY)	EXECUTE	You can perform stronger cleaning. It discharges a larger amount of ink compared to CLEANING (MEDIUM). Use this mode when the print head clog situation does not improve by CLEANING (MEDIUM).
	HEAD WASHING	EXECUTE	<p>You can perform the head washing.</p> <div style="display: flex; align-items: center;">  <span>Cleaning cartridge (option) is needed to perform head washing.</span> </div>
MAINTENANCE	CARRIAGE MAINTENANCE	EXECUTE	The carriage will move into a position allowing you to clean the cleaning wiper and around the print head.
	CLOCK SETTING	MM/DD/YY HH:MM	You can set year, month, date, hour, and minute.
	CONTRAST ADJUSTMENT	-20 - 0 - +20	You can adjust the contrast of the LCD panel.
TEST PRINT	NOZZLE CHECK	PRINT	You can print a print head nozzle check pattern for each ink cartridge. It also prints the firmware version and the ink usage.
	STATUS SHEET	PRINT	You can print the current printer status.
	NETWORK STATUS SHEET	PRINT	You can print the current network status.
	JOB INFORMATION	PRINT	You can print the job information saved in the printer (up to 10 jobs).
	CUSTOM PAPER	PRINT	You can print custom paper information registered in the Paper Setup menu.

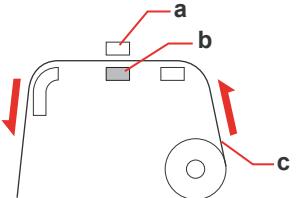
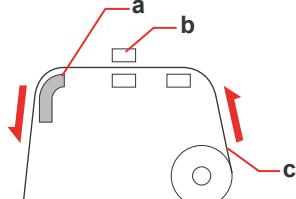
Menu	Item	Parameter (*: Default setting)	Explanation
PRINTER STATUS	VERSION	T0xxxx-xx xx IBCC	You can see the firmware version.
	PRINTABLE PAGES	(ink color) nnnnnn PAGES	You can see the number of pages printable for each ink cartridge.
	INK LEVEL	(ink color) nn%	You can see the status of each ink cartridge.
	USAGE COUNT	INK xxxxx.xml	You can see the ink consumption in milliliters and paper consumption amount in centimeters. Values shown in USAGE COUNT are rough indications.
		PAPER xxxxx.xcm	
	CLEAR USAGE COUNT	INK EXECUTE	You can clear the values set in USAGE COUNT.
		PAPER EXECUTE	
	JOB HISTORY	No. 0-No. 9 INK xxxxx.xml PAPER xxx.x cm <sup>2</sup>	You can see ink consumption (INK) in milliliters and paper size (PAPER) for each print job saved in the printer. The latest job is saved as No. 0.
	TOTAL PRINTS	nnnnnn PAGES	You can see the total amount of pages you have printed.
	EDM STATUS	NOT STARTED, ENABLED, DISABLED	You can see if the EDM is enabled or disabled. If the EDM is enabled, the time that the EDM status was last uploaded is displayed.
		LAST UPLOADED MM/DD/YY HH:MM GMT, (NOT UPLOADED)	

Menu	Item	Parameter (*: Default setting)	Explanation
NETWORK SETUP	NETWORK SETUP	DISABLE	You can configure the network setting of the printer. The following items appear only when ENABLE is selected. After setting the items, press the button in the Network Setup menu, so the network is reset and the network connection is available after 15 seconds. The Network Setup menu does not appear while resetting the network.
		ENABLE	
	IP ADDRESS SETTING	AUTO	You can select the method to set the IP address to the printer. When you select PANEL, IP, SM, DG SETTING appears.
		PANEL	
	IP, SM, DG SETTING	IP ADDRESS 000.000.000.000 - 192.168.192.168* - 255.255.255.255	You can change settings of IP address, subnet mask, and default gateway.
		SUBNET MASK 000.000.000.000 - 255.255.255.000* - 255.255.255.255	
		DEFAULT GATEWAY 000.000.000.000 - 255.255.255.255*	
	BONJOUR	ON	You can enable or disable the Bonjour setting.
		OFF	
	INIT NETWORK SETTING	EXECUTE	You can return the network settings of the printer to the factory default value.

Details of PAPER SETUP

After you have selected the paper number, make the following settings.

Item	Parameter	Explanation
PRINT MODE	MAX QUALITY	You can select the print quality (print mode) according to the usage of print data or print speed.
	QUALITY1	<input type="checkbox"/> MAX QUALITY, QUALITY1, QUALITY2: Performs high-quality printing. Use this mode when printing high quality graphic data that includes photo data. MAX QUALITY provides priority to print quality. QUALITY1 is balanced between quality and efficiency. QUALITY2 provides priority to print efficiency.
	QUALITY2	
	QUALITY3	
	SPEED1	<input type="checkbox"/> QUALITY3: Performs standard printing. Use this mode when printing graphic data.
	SPEED2	<input type="checkbox"/> SPEED1, SPEED2, SPEED3: Performs high-speed printing. Use this mode when printing text or graphics. SPEED1 provides priority to print quality. SPEED2 is balanced between quality and efficiency. SPEED3 provides priority to print efficiency.
	SPEED3	
PAPER FEED ADJUST	LINE FEED ADJUST	You can set the paper feed amount of the printable area. If the paper feed value is too large, white horizontal micro-banding may appear. If the paper feed value is too small, dark horizontal micro-banding may appear.
HEAD ALIGNMENT	BI-D ALL	You can perform print head alignment. Check the pattern and enter the value that has the smallest gaps.
PRE HEATER	OFF	You can set the Pre Heater temperature. The Pre Heater is located under the rear paper guide. Set up to preheat the paper before printing and insulate the temperature change in the printer section.
	30°C to 50°C (86°F to 122°F)	 <p>a. Print head, b. Pre Heater, c. Roll paper</p> <div style="border: 1px solid blue; padding: 2px; display: inline-block;">  CHECK POINT     </div> <p>For appropriate temperatures to set to this function, see the instructions included with the paper, or contact your supplier.</p>

Item	Parameter	Explanation
PLATEN HEATER	OFF 30°C to 50°C (86°F to 122°F)	<p>You can set the Platen Heater temperature. The Platen Heater is located under the print heads. Set this menu to warm up ink and improve print quality.</p>  <p>a. Print head, b. Platen Heater, c. Roll paper</p> <p> For appropriate temperatures to set to this function, see the instructions included with the paper, or contact your supplier.</p>
AFTER HEATER	OFF 30°C to 50°C (86°F to 122°F)	<p>You can set the After Heater temperature. The After Heater is located under the front paper guide. Set this menu to dry printed paper.</p>  <p>a. After Heater, b. Print head, c. Roll paper</p> <p> For appropriate temperatures to set to this function, see the instructions included with the paper, or contact your supplier.</p>

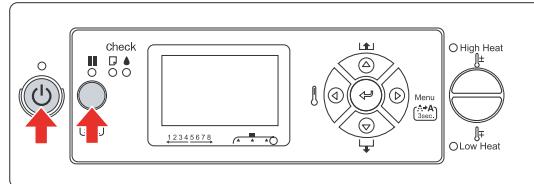
Item	Parameter	Explanation
M/W ADJUSTMENT (Micro Weave Adjustment)	LOW A to B MEDIUM A to D HIGH A to D  EXTRA HIGH A to B	<p>You can improve the print quality by adjusting the print mode you have set.</p> <p><input type="checkbox"/> <b>LOW A, B:</b> The effect of M/W Adjustment function will be minimized. If obvious white lines or uneven print density appear on printed paper in LOW A, set to LOW B.</p> <p><input type="checkbox"/> <b>MEDIUM A, B, C, D:</b> The printing joint between two head passes will have a wave form. If obvious white lines or uneven print density appear on printed paper in MEDIUM A, print samples using the other settings and select the best print result from MEDIUM B to MEDIUM D.</p> <p><input type="checkbox"/> <b>HIGH A, B, C, D:</b> Perform printing at a slow speed compared with “MEDIUM”. Set up this menu when improving the print quality compared with “MEDIUM”. If obvious white lines or uneven print density appear on printed paper in HIGH A, change the setting to the one with the best print result in HIGH B to HIGH D.</p> <p><input type="checkbox"/> <b>EXTRA HIGH A:</b> Performs “MEDIUM” printing using half of the nozzles of the print head. Since only a half of the nozzles is used, printing speed becomes half of MEDIUM A to MEDIUM D. Set up this menu when improving the print quality compared with HIGH A to HIGH D.</p> <p><input type="checkbox"/> <b>EXTRA HIGH B:</b> Performs “MEDIUM” printing using the other half of the nozzles of the print head that is used for EXTRA HIGH A. Since only a half of the nozzles is used, printing speed becomes half of MEDIUM A to MEDIUM D. Set up this menu when improving the print quality compared with HIGH A to HIGH D.</p>
PAPER SUCTION	HIGH LOW	You can set the suction pressure used to feed the printed paper.
DRYING TIME	0.0sec to 10.0sec	<p>You can set the ink drying time for each print head pass. The range is 0 to 10 seconds. Depending on the ink density, paper type or printing speed, the ink does not dry soon. In this case, set the drying time longer.</p> <p> When you set the drying time longer, missing dots might occur in the printing.</p>
CARRIAGE MOVEMENT	DATA WIDTH PRINTER FULL WIDTH	<p>You can set the range that the print head moves while printing.</p> <p><input type="checkbox"/> <b>DATA WIDTH:</b> The print head moves between the print data width. This improves the print speed since decreasing the transferring range of the print head.</p> <p><input type="checkbox"/> <b>PRINTER FULL WIDTH:</b> The print head moves from origin to the maximum paper width. This keeps printing quality the same even though the printing size (width) differs.</p>
PRINT MULTIPLE LAYER	OFF 2 to 8	You can set the overwrite count per line.

### 1.4.3 Maintenance Mode

You can change the language or unit used on the display or return all the setting values to their factory default.

#### HOW TO ENTER & EXIT

1. Turn off the printer by pressing the [Power] button.
2. Turn the printer on while pressing the [Pause/Reset] button.



3. To exit the Maintenance mode, press the [Power] button to turn off the printer.

#### MAINTENANCE MODE LIST

Item	Parameter	Explanation
LANGUAGE	ENGLISH	You can select the language to be displayed on the LCD panel.
	FRENCH	
	ITALIAN	
	GERMAN	
	SPANISH	
	PORTUGUE	
	DUTCH	
	JAPANESE	
LENGTH UNIT	METRIC	You can select a unit of measurement to use to display length.
	FEET/INCH	
THERMOMETER UNIT	°C	You can select a thermometer unit.
	F	

Item	Parameter	Explanation
DEFAULT PANEL	EXECUTE	You can set all setting values you made in the Menu mode to their factory set value.
CUSTOM	0 - 255	Not available currently.
REMAINING PPR SETUP	OFF	ROLL PAPER COUNTER menu is added to the PRINTER SETUP menu when set to ON.
	ON	

#### 1.4.4 Serviceman Mode

This printer has the Serviceman Mode which is provided for serviceman to troubleshoot problems and so on. This section explains how to enter into the Serviceman mode.

See “[7.2 Panel Menu Map](#)” (p247) for explanation about menus provided in the mode.

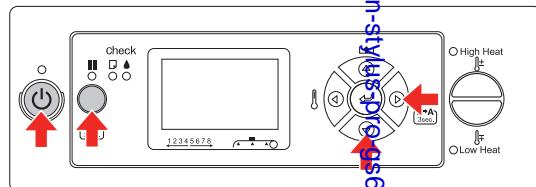


**Do not disclose the Serviceman Mode to the users.**

Sample of manual. Download All 285 pages at:  
<https://www.arepairmanual.com/downloads/2008-epson-stylus-pro-gs6000-large-format-color-inkjet-printer-service-repair-workshop-manual/>

#### HOW TO ENTER THE SERVICEMAN MODE

1. Turn off the printer by pressing the [Power] button.
2. Turn the printer on while pressing the [Pause/Reset], [Paper Feed  $\nabla$ ], and [Menu] buttons.



3. To exit the Serviceman mode, press the [Power] button to turn off the printer.

Product: 2008 Epson Stylus Pro GS6000 Large Format Color Inkjet Printer Service Repair Workshop Manual  
Full Download: <https://www.arepairmanual.com/downloads/2008-epson-stylus-pro-gs6000-large-format-color-inkjet-printer-service-repair-workshop-manual/>