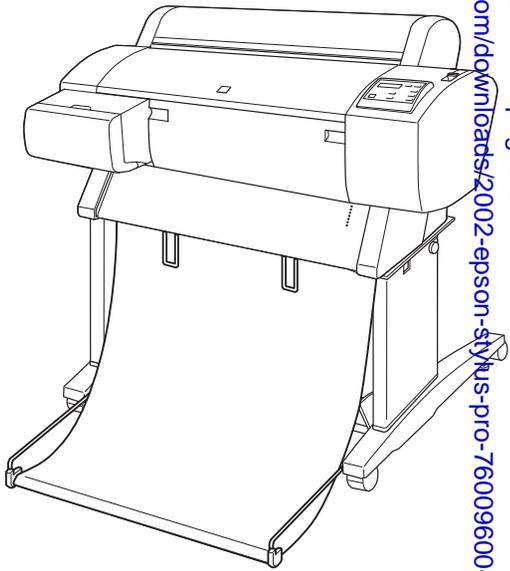


SERVICE MANUAL



Color Large Format Inkjet Printer

EPSON Stylus Pro 7600/9600



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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.

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.

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.

APPENDIX Provides the following additional information for reference:

- Connector pin assignments
- Electric circuit boards components layout
- Electrical circuit boards schematics
- Exploded diagram & Parts List

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.

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Contents

Chapter 1 Product Description

1.1 Product Description	12	1.2.11.2 Accessories and Options for Stylus Pro 9600	29
1.1.1 Features	12	1.3 External View and Parts Names	30
1.1.2 Differences between Stylus Pro 7600 and Stylus Pro 9600	13	1.4 Operating Panel	31
1.2 Basic Specifications	14	1.4.1 Buttons and Functions	31
1.2.1 Print Specifications	14	1.4.1.1 Functions of Buttons	31
1.2.2 Character Specification	14	1.4.1.2 LEDs	32
1.2.3 Control Code	14	1.4.2 Indications on the Panel	33
1.2.4 Paper Feed	14	1.4.2.1 LED Indications in Normal Mode	33
1.2.5 Paper Specifications	15	1.4.2.2 LCD Indications in Normal Mode	34
1.2.5.1 Roll Paper	15	1.4.3 SelecType	35
1.2.5.2 Sheet	16	1.4.3.1 Outline	35
1.2.5.3 Special Paper	18	1.4.3.2 Panel Setting Menu Item	36
1.2.6 Mechanism Specifications	21	1.4.3.3 PG Setting	40
1.2.6.1 Printable Area	21	1.4.3.4 Page Lines	41
1.2.6.2 Paper Set Lever	22	1.4.3.5 Interface Select	41
1.2.6.3 Cutting Specification	22	1.4.3.6 Code Page Switching	41
1.2.6.4 Acoustic Noise	23	1.4.3.7 Roll Paper Margin	41
1.2.7 Electrical Specifications (TBD)	23	1.4.3.8 Detect Paper Width	42
1.2.8 Reliability	23	1.4.3.9 Detect Skew Error	42
1.2.8.1 Total Print Volume	23	1.4.3.10 Job Timeout Setting	42
1.2.8.2 Print Head Life	23	1.4.3.11 No margin print setting	43
1.2.8.3 Maintenance Tank Life	23	1.4.3.12 Cutter position adjustment	44
1.2.8.4 Cutter Life average	23	1.4.3.13 Auto margin refresh	44
1.2.8.5 Maintenance Parts (TBD)	23	1.4.3.14 Panel Setup Value Initialization	45
1.2.9 Ambient Conditions	24	1.4.3.15 Nozzle Check Pattern Printing	45
1.2.9.1 Temperature/Humidity	24	1.4.3.16 Status Printing	46
1.2.9.2 Vibration	24	1.4.3.17 Job Information Print	48
1.2.9.3 Shock	24	1.4.3.18 Firmware version	49
1.2.9.4 Surrounding Space	25	1.4.3.19 Printable pages of each ink cartridge	49
1.2.10 Overall Dimensions	26	1.4.3.20 Ink remaining	49
1.2.11 Accessories	28	1.4.3.21 Maintenance tank count	49
1.2.11.1 Accessories and Options for Stylus Pro 7600	28	1.4.3.22 Use counter	50
		1.4.3.23 Clear use counter	50
		1.4.3.24 Job history display	50

1.4.3.25 Job history clear	50
1.4.3.26 Total prints	50
1.4.3.27 Consumables life	51
1.4.3.28 Suction adjustment for paper setting and indicator display	53
1.4.3.29 Ink remaining indicator display	54
1.4.3.30 Job information	55
1.4.3.31 User Paper Setting	56
1.4.3.32 Power cleaning	60
1.4.3.33 Cutter Blade Replacement	60
1.4.3.34 Gap Adjustment (Bi-D Adjustment, Uni-D Adjustment)	60
1.4.3.35 BK ink cartridge replacement	64
1.4.4 Maintenance Mode 1	66
1.4.5 Maintenance Mode 2	70
1.4.6 Paper feeding adjustment conversion table	84
1.4.7 Firmware Reload	85
1.4.7.1 Reload from ROM-DIMM	85
1.4.7.2 Reload with F/W DOWNLOAD mode	85
1.4.7.3 Installation with service utility (F/W Update function)	85
1.4.7.4 Compulsory start F/W DOWNLOAD mode	85
1.4.8 Function to prevent irregular printing	86
1.4.9 Initialization	86
1.4.9.1 Hardware initialization	86
1.4.9.2 Software initialization	86
1.4.9.3 Panel initialization	86
1.4.10 Default Setup Values	87
1.4.10.1 Initial Setting for Operation	87
1.4.10.2 Ink Type Setting	87
1.4.10.3 MW Printing Adjustment / Setting Values and Printing Modes	88
1.4.10.4 Printing Mode Combination Table	89
1.5 Controller	90
1.6 Interfaces	91
1.6.1 Parallel Interface	91
1.6.1.1 Compatibility Mode	91
1.6.1.2 Nibble Mode	93
1.6.1.3 ECP Mode	94
1.6.2 USB interface	95
1.6.3 Optional Interface	96
1.6.4 Supplements	97
1.7 Optional Units and Consumables	98

1.7.1 Ink Cartridge	98
1.7.2 Cleaning cartridge	99
1.7.3 Draining cartridge	99
1.7.4 Maintenance Tank	99

Chapter 2 Operating Principles

2.1 Overview	101
2.2 Print Mechanism Components	102
2.2.1 Carriage (CR) Mechanism	103
2.2.2 Paper Feed Assembly	113
2.2.3 Cleaning Mechanism	115
2.2.4 Ink Supply Mechanism	117
2.2.5 Others	118
2.3 Outline of Control Circuit Board	119
2.4 Outline of Power Supply Circuit Board	120

Chapter 3 Troubleshooting

3.1 Outline	122
3.1.1 Introduction	122
3.2 Error Display	123
3.2.1 Errors	123
3.2.1.1 Error Indications on LCD	123
3.2.1.2 Warning Indications on LCD	124
3.2.1.3 Service Call (Fatal) Errors	125
3.2.2 Errors	126
3.2.2.1 Paper End/End of roll	126
3.2.2.2 Wrong paper source is selected on panel	126
3.2.2.3 Paper set lever is released during operation	126
3.2.2.4 Paper set lever is released	127
3.2.2.5 Paper Jam	127
3.2.2.6 Front Cover Open	127
3.2.2.7 Type-B I/F error	128
3.2.2.8 Paper cutting error	128
3.2.2.9 Paper Not Straight	128
3.2.2.10 Paper check error/Paper eject error (sheet)	129
3.2.2.11 Paper is too thick for cleaning	129
3.2.2.12 Not enough ink for cleaning	129

3.2.2.13 Ink-related Errors	130	3.2.4.28 PF ASIC ECU error (0001002B)	144
3.2.2.14 Defective ink cartridge	130	3.2.4.29 NVRAM error (00020000)	144
3.2.2.15 Ink lever released	130	3.2.4.30 SDRAM error (00020002)	145
3.2.2.16 Illegal ink cartridge	131	3.2.4.31 BOOT program SUM error (00020003)	145
3.2.2.17 Maintenance tank full	131	3.2.4.32 Flash memory SUM error (00020009)	145
3.2.2.18 No Maintenance tank	131	3.2.4.33 Program load error (0002000A)	145
3.2.2.19 Wrong IK designation	131	3.2.4.34 Internal memory shortage error (0002000B)	145
3.2.2.20 Fatal Error	131	3.2.4.35 Review error (0002000C)	146
3.2.3 Troubleshooting for Warning	132	3.2.4.36 CPU address error (load misalignment) (100000E0)	146
3.2.3.1 Ink Low	132	3.2.4.37 CPU address error (storage misalignment) (10000100)	146
3.2.3.2 Maintenance tank full warning	132	3.2.4.38 CPU reserve command code exception error (10000180)	146
3.2.3.3 Maintenance request	132	3.2.4.39 CPU slot illegal command exception error (100001A0)	146
3.2.4 Troubleshooting for Service Call Errors	134	3.2.4.40 CPU DMA address error (100005C0)	146
3.2.4.1 CR motor life (00000101)	134	3.2.4.41 CPU error (10000xxx)	146
3.2.4.2 PF motor encoder check error (00010000)	135	3.3 Troubleshooting Based on Your Printout	147
3.2.4.3 PF Motor out of step (00010001)	135	3.3.1 Dot Missing	147
3.2.4.4 PF motor overcurrent (00010002)	136	3.3.2 Uneven Printing/Poor Resolution	148
3.2.4.5 PF motor in-position time out (00010003)	136	3.3.3 Smudged or Marred Printout (Front)	148
3.2.4.6 CR motor encoder check error (00010004)	137	3.3.4 Smudged or Marred Printout (Reverse side)	149
3.2.4.7 CR motor out of step (00010005)	137	3.3.5 White or Black Banding in the carriage running direction	149
3.2.4.8 CR motor overcurrent (00010006)	138	3.3.6 Banding in the paper feed direction	150
3.2.4.9 CR motor in-position time-out (00010007)	138		
3.2.4.10 Servo interrupt watchdog time-out (00010008)	139		
3.2.4.11 System interrupt watchdog time-out (00010009)	139		
3.2.4.12 CR home position sensor error (0001000A)	139		
3.2.4.13 PF home position sensor error (0001000B)	139		
3.2.4.14 Head slide (PG) home position sensor error (0001000C)	140		
3.2.4.15 CR motor PWM output faulty (0001000F)	140		
3.2.4.16 PF motor PWM output faulty (00010010)	141		
3.2.4.17 Head driver (TG) temperature error (0001001B)	141		
3.2.4.18 CR servo parameter error (0001001D)	142		
3.2.4.19 PF servo parameter error (0001001E)	142		
3.2.4.20 CSIC reed/right error (00010020)	143		
3.2.4.21 Ink type error (setting on printer body side) (00010022)	143		
3.2.4.22 RTC analysis error (00010023)	143		
3.2.4.23 CSIC ROM communication error (00010025)	144		
3.2.4.24 RTC communication error (00010026)	144		
3.2.4.25 Head error (00010028)	144		
3.2.4.26 Unidentified NMI (00010029)	144		
3.2.4.27 CR ASIC ECU error (0001002A)	144		
		Chapter 4 Disassembly & Assembly	
		4.1 Summary	152
		4.1.1 Precautions	152
		4.1.2 Tools	155
		4.1.3 Screw List	155
		4.1.4 Disassembly Flow	156
		4.2 Removing the Panel Unit and Housing	158
		4.2.1 Panel Unit	159
		4.2.2 R Side Cover	160
		4.2.3 L Side Cover	163
		4.2.4 I/H Cover	164
		4.2.5 H Top Cover	165
		4.2.6 Rear Cover	166
		4.2.7 Paper Guide L2	168
		4.2.8 Roll Paper Cover	169
		4.2.9 Front Cover	170

4.3 Disassembly and Assembly of Carriage (CR) Mechanism	171
4.3.1 Print Head	171
4.3.2 Damper ASSY	173
4.3.3 CR Board ASSY	174
4.3.4 Cutter Section	175
4.3.4.1 Cutter Holder ASSY	175
4.3.4.2 Cutter Solenoid	177
4.3.5 CR Encoder Sensor ASSY	178
4.3.6 P_EGDE Sensor ASSY	179
4.3.7 CR Motor ASSY	180
4.3.8 HEAD_SLIDE Sensor ASSY	182
4.3.9 CR_HP Sensor ASSY	183
4.3.10 CR Encoder Scale (Timing Fence)	184
4.4 Disassembly and Assembly of Paper Feed Mechanism	185
4.4.1 PF Motor	185
4.4.2 PF Encoder Sensor ASSY	186
4.4.3 Cautions when replacing the PF Loop Scale	187
4.4.3.1 Assembly Procedure for the PF Loop Scale ASSY	187
4.4.3.2 PF Loop Scale ASSY Affixing Procedure	188
4.4.4 Suction Fans	189
4.4.5 P_THICK Sensor/P_THICK Sensor_0.3 ASSY	190
4.4.6 P_REAR Sensor ASSY	191
4.5 Disassembly and Assembly of Ink Supply Mechanism	192
4.5.1 C472_SUB-B Board	192
4.5.2 I/H (Ink Holder) ASSY	193
4.5.3 Cover Sensor ASSY	197
4.6 Disassembly and Assembly of Cleaning Mechanism	198
4.6.1 Maintenance ASSY Removal	199
4.6.2 Pump Motor ASSY	200
4.6.3 Cap ASSY	200
4.6.4 Pump ASSY	201
4.6.5 Cleaner Head (Wiper)	203
4.6.6 Flushing Box ASSY	204
4.7 Disassembly and Assembly of Circuit Boards	205
4.7.1 Power Supply Board	205
4.7.2 AC Inlet	206
4.7.3 MAIN Board (C472 MAIN)	207
4.7.4 DIP Switch and Jumper Setting at Factory before Shipment	209

Chapter 5 Adjustment

5.1 Overview	211
5.1.1 Cautions	211
5.1.2 Adjustment Tools	211
5.1.3 Procedure for Adjustment Work	212
5.1.4 Adjustment Items	212
5.1.4.1 Print Head Adjustment	212
5.1.4.2 Main Board Adjustment	213
5.1.4.3 CR Motor Adjustment	214
5.1.4.4 PF Motor Adjustment	214
5.1.4.5 P_EDGE Sensor ASSY Adjustment	215
5.1.4.6 P_REAR Sensor ASSY Adjustment	215
5.1.4.7 P_THICK/P_THICK_0.3 Sensor ASSY Adjustment	215
5.1.4.8 CR Encoder Sensor ASSY Adjustment	215
5.1.4.9 Cover Sensor ASSY Adjustment	216
5.1.4.10 PF Encoder Sensor ASSY Adjustment	216
5.1.4.11 Cutter Solenoid ASSY or Paper Guide L Adjustment	217
5.1.4.12 Damper ASSY Adjustment	217
5.1.4.13 Release Sensor (I/H Lever) Adjustment	217
5.1.4.14 Battery	217
5.1.5 Parameter Backup	218
5.1.5.1 Parameter Backup Procedure	218
5.1.5.2 Work Procedure	218
5.1.5.3 Others	218
5.1.6 Firmware Reinstallation	219
5.1.6.1 Firmware Installation through ROM-DIMM	219
5.1.6.2 Firmware Installation through Interface	219
5.2 Self-diagnostic Function	220
5.2.1 Overview	220
5.2.1.1 How to Start Self-diagnostic Function	220
5.2.1.2 Functions of Keys during Self-diagnosis	220
5.2.1.3 Top Menu	221
5.2.2 Test	222
5.2.2.1 Version	223
5.2.2.2 Control Panel	223
5.2.2.3 Sensors	224
5.2.2.4 Encoder	225
5.2.2.5 Fan	225
5.2.2.6 Record	226

5.2.2.7 CSIC	227
5.2.2.8 Actuator	229
5.2.2.9 Actuator 2	229
5.2.3 Adjustment	230
5.2.3.1 Rear AD Adjustment	231
5.2.3.2 Edge AD Adjustment	232
5.2.3.3 Input Rank	233
5.2.3.4 Write D/A Value	236
5.2.3.5 Check Nozzle	237
5.2.3.6 Check Skew	238
5.2.3.7 Feed Correction + T&B Adjustment	239
5.2.3.8 Top & Bottom Adjustment	242
5.2.3.9 Rear Sensor Position	243
5.2.3.10 Platen Position (Sponge Position) Adjustment	244
5.2.3.11 Platen Position Checking	245
5.2.3.12 Head Slant Checking	246
5.2.3.13 Round Trip Print Position Adjustment (Bi-D Adjustment)	248
5.2.3.14 Parameter Copying	251
5.2.3.15 Bi-D2 Adjustment (PG=0.7mm)	251
5.2.3.16 Bi-D3 Adjustment (PG=2.1mm)	251
5.2.3.17 Round Trip Print Position (Bi-D Adjustment) Checking	252
5.2.3.18 Head Gap Adjustment (Uni-D Adjustment)	253
5.2.3.19 Test Pattern Printing	255
5.2.3.20 Clean Head	256
5.2.3.21 Counter Clear	257
5.2.4 Cleaning	259
5.2.5 Print	259
5.2.6 Parameter	260
5.2.6.1 Parameter Initialize	261
5.3 Mechanism Adjustment	263
5.3.1 Overview	263
5.3.2 CR Timing Belt Tension Adjustment	263
5.3.3 PF Timing Belt Tension Adjustment	264
5.3.4 P_THICK_0.3/P_THICK Sensor Mounting Plate Position Adjustment	265
5.3.5 Cover Sensor ASSY Mounting Position Adjustment	267
5.3.6 CR Encoder Sensor Mounting Position Adjustment	268
5.3.7 Cutter Positioning Adjustment	269
5.3.7.1 Paper Cutting Position Check	271
5.3.8 PF Encoder Sensor Installation Position Adjustment	272
5.3.9 USB ID Writing	273

Chapter 6 Maintenance

6.1 Overview	275
6.1.1 Periodic Maintenance Items and Product Life Information	276
6.1.2 Important Maintenance Items During Service Operations	279
6.2 Lubrication and Glue	280
6.2.1 Lubricating the CR Guide Rail	280

Chapter 7 Appendix

7.1 Connectors	282
7.2 Component Layout	285
7.3 Circuit Diagrams	286
7.4 Exploded Diagrams	292
7.5 ASP List (Parts List)	317
7.5.1 ASP List for Stylus Pro 7600	317
7.5.2 ASP List for Stylus Pro 9600	320

CHAPTER

1

PRODUCT DESCRIPTION

1.1 Product Description

1.1.1 Features

- Large Format
 - Stylus Pro 7600: Max. 24 inch paper width, A1+ size supported
 - Stylus Pro 9600: Max. 44 inch paper width, B0+ size supported
- Pigment ink / Dye ink
 - Pigment ink:
 - Users can select following blackish ink combinations.
 - Photo Black + Light Black
 - Matte Black + Light Black
 - Matte Black × 2
 - Dye ink:
 - 2 black ink cartridges are installed.
- High-speed Throughput
 - Stylus Pro 7600

Table 1-1. Throughput (Stylus Pro 7600)

EPSON media	Quality	Resolution (dpi)	Mode	Throughput (A1 printing time)
Plain Paper	Draft*1	360 × 180	Pseudo 4-color	2 min.
	Speed	360 × 360	Bi-D MF 240 cps	3/2 (BK×2*2) min.
Doubleweight Matte Paper	Speed	360 × 360	Bi-D M/W(POL) 240 cps	5 min.
	Quality	720 × 360	Bi-DFOL(POL)	9 min
Glossy Photo Paper Glossy Paper- Heavy Weight	Speed	720 × 360	Bi-D 22POL 240 cps	8 min.
	Quality	720 × 720	Bi-D 14POL 240 cps	13 min.
	Adv.Photo	1440 × 720	Bi-D 4-pass 240 cps	25 min
	Photo 2880	2880 × 1440	Bi-D 4-pass 190 cps	55 min

- Note *1: Color high-speed 360×180dpi mode (for POP, for all ink combinations of pigment/dye)
- *2: Black double-speed mode (for CAD, supported with FW),
(It is switched automatically with 2 BK ink cartridge installation (dye/PPI) + M/W OFF)

■ Stylus Pro 9600

Table 1-2. Throughput (Stylus Pro 9600)

EPSON media	Quality	Resolution (dpi)	Mode	Throughput (A1 printing time)
Plain Paper	Draft*1	360 × 180	Pseudo 4-color	3.5 min
	Speed	360 × 360	Bi-D MF 240 cps	6/3.5 (BK×2*2) min.
Doubleweight Matte Paper	Speed	360 × 360	Bi-D M/W(POL) 240 cps	9 min.
	Quality	720 × 360	Bi-DFOL(POL)	17 min
Glossy Photo Paper Glossy Paper- Heavy Weight	Speed	720 × 360	Bi-D 22POL 240 cps	14 min
	Quality	720 × 720	Bi-D 14POL 240 cps	24 min
	Adv.Photo	1440 × 720	Bi-D 4-pass 240 cps	46 min
	Photo 2880	2880 × 1440	Bi-D 4-pass 190 cps	102 min

- Note *1: Color high-speed 360×180dpi mode (for POP, for all ink combinations of pigment/dye)
- *2: Black double-speed mode (for CAD, supported with FW),
(It is switched automatically with 2 BK ink cartridge installation (dye/PPI) + M/W OFF)

- Super High Quality
 - High image quality with 7-color ink, 2880×1440 dpi, and minimum 4pl various layers.
- Low Running Cost
 - Independent for each color and 110 ml ink cartridge
 - Large capacity 220 ml ink cartridge as an option
- Paper Handling
 - Support various media.
 - Automatic roll paper cutter, manual cutter
 - Automatic loading (cut sheet)
 - Borderless print for right and left
- Compatibility with other LFPs
 - Commands are upper compatible with Stylus Pro 10000, Stylus Pro 10000CF, Stylus Pro 9000, Stylus Pro 9500, Stylus Pro 7000, and Stylus Pro 7500.
- The latest RIP technology
 - CPSI Pro software RIP

1.1.2 Differences between Stylus Pro 7600 and Stylus Pro 9600

Table 1-3. Differences between Stylus Pro 7600 and Stylus Pro 9600

	Item	Stylus Pro 7600	Stylus Pro 9600
Product Specifications	Maximum paper width	610mm (About 24 inches / A1+size supported)	1118m (About 44 inches / B0+size supported)
	RAM capacity	32MB (16Mbit×2) (IC600/601 = not mounted)	64MB (16Mbit×4)
Option	Take-up Reel Unit	Not supported (CN30 = not mounted)	Supported
	220 ml ink cartridge	Not supported	Supported

1.2 Basic Specifications

1.2.1 Print Specifications

- Printing: On-demand ink-jet
- Nozzle configuration:
 - Black: 192 nozzles (Black1, Black2, 96 nozzles each)
 - Color: 480 nozzles (cyan, magenta, light cyan, light magenta, yellow, 96 nozzles each)
 - Nozzle pitch: 0.141mm (1/180 inch) for each color
- Printing direction: Bi-direction with logic seeking (high-speed return, high-speed skip only)
- Printing speed and printable area
 - Character mode
 - Character quality: high quality
 - Character pitch: 10 cpi
 - Printable area:
 - Stylus Pro 7600: 237 characters (at 10 cpi) / 8,561 dots (360dpi)
 - Stylus Pro 9600: 437 characters (at 10 cpi) / 15,840 dots (360dpi)
 - Printing speed: 240 cps max.
 - Graphic Mode

Table 1-4. Graphics Modes (Stylus Pro 7600)

Horizontal resolution (dpi)	Printable area	Maximum number of printable dots	Printing speed
360	604 mm (24.16 inches)	8698	240 cps
720	604 mm (24.16 inches)	17395	240 cps
1440	604 mm (24.16 inches)	34790	240 cps
2880	604 mm (24.16 inches)	69581	190 cps

Table 1-5. Graphics Modes (Stylus Pro 9600)

Horizontal resolution (dpi)	Printable area	Maximum number of printable dots	Printing speed
360	1112 mm (43.78 inches)	15762	240 cps
720	1112 mm (43.78 inches)	31524	240 cps
1440	1112 mm (43.78 inches)	63048	240 cps
2880	1112 mm (43.78 inches)	126087	190 cps

1.2.2 Character Specification

- Character tables: 2 international character sets
 - PC 437 (US, Standard Europe)
 - PC 850 (Multilingual)

NOTE: This specification is not described in the user's manual.

- Typeface:
 - Bit map LQ font: EPSON Courier 10 cpi

NOTE: This specifications is not described in the user's manual.

1.2.3 Control Code

- Control code:
 - ESC/P Raster
 - ESC/P3

NOTE: This specifications is not described in the user's manual.

1.2.4 Paper Feed

- Paper feeding: Friction feed
- Line spacing: 1/6 inch or programmable at 1440 inch
- Paper path: Roll paper/manual
- Feed speed: 6.35 mm paper feed: 215 ± 10 msec (except front rush, back rush, and hold time)

1.2.5 Paper Specifications

1.2.5.1 Roll Paper

ACCEPTABLE PAPER

The printer accepts following plain paper and EPSON special paper. With any other paper, proper paper feeding and satisfactory print quality are not ensured.

- Paper Size

Table 1-6. Acceptable Roll Paper Sizes (Acceptable Paper)

Core	Model	Paper Size
2-inch core	Stylus Pro 7600	203mm ~ 610 mm (W) × ~ 45 m (H) *
	Stylus Pro 9600	203 mm ~ 1118 mm (W) × ~ 45 m (H) *
3-inch core	Stylus Pro 7600	203 mm ~ 610 mm (W) × ~ 202 m (H) *
	Stylus Pro 9600	203 mm ~ 1118 mm (W) × ~ 202 m (H) *

Note "*": Within roll size

- Roll Size
 - 2-inch core: 103 mm ext. diameter maximum for 1 roll setting
 - 3-inch core: 150 mm ext. diameter maximum for 1 roll setting
- Thickness: 0.08 mm ~ 0.50 mm

PLAIN PAPER

Trouble-free paper feeding is ensured only in the following specifications.

- Paper Size

Table 1-7. Acceptable Roll Paper Sizes (Plain Paper)

Core	Model	Paper Size
2-inch core	Stylus Pro 7600	203 mm ~ 610 mm (W) × ~ 45m (H) *
	Stylus Pro 9600	203 mm ~ 1118 mm (W) × ~ 45m (H) *
3-inch core	Stylus Pro 7600	203 mm ~ 610 mm (W) × ~ 202m (H) *
	Stylus Pro 9600	203 mm ~ 1118 mm (W) × ~ 202m (H) *

Note "*": Within roll size

- Roll Size
 - 2-inch core: 103 mm ext. diameter maximum for 1 roll setting
 - 3-inch core: 150 mm ext. diameter maximum for 1 roll setting
- Thickness: 0.08 ~ 0.11 mm
- Weight: 64 ~ 90gf/m²
- Type: Plain paper, Recycle paper

BORDERLESS PRINT ROLL PAPER

Borderless print for right and left is ensured for roll paper with any of the paper widths as specified in Figure 1-9 below.

NOTE: 300 mm, 400 mm, 500 mm and 600 mm are supported for Europe.

- Paper width

Table 1-8.

Stylus Pro 7600														
Stylus Pro 9600														
Japan	8"	210 mm	10"	-	12"	14"	-	16"	-	20"	-	24"	36"	44"
USA/Europe	8"	210 mm	10"	300 mm	12"	14"	400 mm	16"	500 mm	20"	600 mm	24"	36"	44"

- Note 1: Paper should have no wrinkles, tears, or folds and the surface should be smooth.
- 2: The force to remove the end of the roll paper from the core should be between 300 gf and 2000 gf
- 3: If core is used, a product-exclusive option (roll paper spindle 3 inch) is necessary.
- 4: It is used under normal conditions. (temperature 15°C ~ 25°C, humidity 40 ~ 60%RH)
- 5: Roll paper can be printed before paper comes out of the core.
(Reference: Remaining paper length is 30cm approx. when roll paper come out of the core.)
- 6: The mechanism clips print data out of over-printable area for borderless printing.

1.2.5.2 Sheet

ACCEPTABLE PAPER

The printer accepts following plain paper and special paper. With any other paper, proper paper feeding and satisfactory print quality are not ensured.

- Paper Size (The sizes indicated in bold italic are only for Stylus Pro 9600.)

Table 1-9. Acceptable Sheet Sizes (Acceptable Paper)

Paper Size	Size (W × H)	Paper Size	Size (W × H)
B0+*	1118 mm × 1580 mm	A4	210 mm × 297 mm
B0 *	1030 mm × 1456 mm	US E	34 × 44 in
B1 *	728 mm × 1030 mm	US D	22 × 34 in
B2	515 mm × 728 mm	US C	17 × 22 in
B3	364 mm × 515 mm	US B	11 × 17 in
B4	257 mm × 364 mm	44 × 36 in *	44 × 36 in
A0+ *	914 mm × 1292 mm	30 × 24 in	30 × 24 in
A0 *	841 mm × 1189 mm	Letter	8.5 × 11 in
A1+	24 × 36 in	B1 (wide) *	1030 × 728 mm
A1	594mm × 841 mm	8 × 10 in	8 × 10 in
A2	420 mm × 594 mm	30 cm × 45 cm	30 cm × 45 cm
A3+	329 mm × 483 mm	60 cm × 90 cm	60 cm × 90 cm
A3	297 mm × 420 mm		

Note " *": Only for Stylus Pro 9600

- Thickness
 - 0.08 ~ 1.5 mm (paper length: 279 mm ~ 728 mm)
 - 0.08 ~ 0.5 mm (paper length: 728 mm ~ 1580 mm)

- NOTE 1:** Paper should have no wrinkles, tears, or folds and the surface should be smooth.
- 2:** 0.08 ~ 1.50 mm paper thickness is supported for long-edge insertion.
- 3:** The sizes indicated in bold italic are only for Stylus Pro 9600.

PLAIN PAPER

Proper feeding is ensured only in the following specifications.

- Paper Size: Same as above list
- Thickness: 0.08 ~ 0.11 mm
- Weight: 64 ~ 90 gf/m²
- Type: Plain paper, Recycle paper

- NOTE 1:** Paper is fed short-edge first.
- 2:** Paper should have no wrinkles, tears, or folds and the surface should be smooth.
- 3:** It is used under normal conditions (temperature 15 ~ 25°C, humidity 40 ~ 60%RH)
- 4:** 300mm, 400mm, 500mm, 600mm are supported for Europe.
- 5:** Mechanism clips print data out of over-printable area for borderless print.

BORDERLESS PRINT WIDTH

Borderless print for right and left is assured with following paper width. *4

- Paper width

Table 1-10.

Stylus Pro 7600														
Stylus Pro 9600														
Japan	8"	210 mm	10"	-	12"	14"	-	16"	-	20"	-	24"	36"	44"
USA/Europe	8"	210 mm	10"	300 mm	12"	14"	400 mm	16"	500 mm	20"	600 mm	24"	36"	44"



Description of units of measure	
cpi:	characters per inch
dpi:	dots per inch
cps:	characters printed per second (at 10 cpi)
	1 cps = 2.54 mm/s
ips:	travel in inches per second
	1 ips = 25.4 mm/s
G:	Gravity
General ambient conditions:	
	Temperature 15°C ~ 25°C
	Humidity 40% ~ 60%

1.2.5.3 Special Paper

□ Roll (pigment)

Table 1-11. Availability with Special Paper (Pigment)

Roll / Pigment			Characteristic					Media Size															
			Black INK			core [™] spindle	Paper thickness (mm)	Auto cut	Borde rless	8"	210 mm	10"	30 cm	12"	14"	40 cm	16"	50 cm	20"	22"	60 cm	24"	36"
Name	Japan	USA/ Europe /Asia	MK ×2	MK +LK	PK +LK							203	210	254	300	305	356	400	406	500	508	560	600
Doubleweight Matte Paper	○	○	●	●	○	2	0.21	⊙		-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Glossy Paper - Photo Weight	○	○			○	2	0.22	⊙		-	-	-	-	-	-	-	-	-	⊙	-	-	⊙	⊙
Glossy Film	○	○			○	2	0.13	⊙		-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Premium Glossy Photo Paper	○	○			○	2	0.18	⊙		-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Premium Semigloss Photo Paper	○	○			○	2	0.18	⊙		-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Photo Glossy Paper / Photo Grade Glossy Paper	○	○			○	2	0.17	⊙		-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Photo Semigloss Paper / Photo Grade Semigloss Paper	○	○			○	2	0.18	⊙		-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Premium Glossy Photo Paper (250)	○	○			○	3	0.26	⊙	⊙	-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Premium Semigloss Photo Paper (250)	○	○			○	3	0.26	⊙	⊙	-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Premium Semimatte Photo Paper (250)	○	○			○	3	0.26	⊙	⊙	-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Premium Luster Photo Paper	○	○			○	3	0.26	⊙	⊙	-	-	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Watercolor Paper - Radiant White	○	○		○	○	3H	0.29	⊙		-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Smooth Fine Art Paper (Roll)		○		○	○	3H	0.37			-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Textured Fine Art Paper (Roll)	○	○		○	○	3H	0.37			-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Canvas		○		○	○	2	0.46			-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Backlight Film	○				○	2	0.13	⊙		-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Backlight Film (USA / Europe)		○			○	2	0.18			-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Heavyweight Polyester Banner	○	○		●	○	2	0.28			-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Enhanced Synthetic Paper	○	○	●	●	○	2H	0.12	⊙		-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Adhesive Enhanced Synthetic Paper	○	○	●	●	○	2H	0.17	⊙		-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Tyvek Brillion		○	●	●	○	2	0.24	⊙		-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Adhesive Vinyl		○	●	●	○	2	0.33			-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Enhanced Matte Paper	○	○		○	○	3	0.25	⊙		-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Semiglossy 2	TBD	TBD			○	2	TBD	⊙		-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	-
Semiglossy 4		○			○	2	TBD	⊙		-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	-
Dupont / EPSON Semi - Gloss Proofing Paper - A		○			○	2	0.20			-	-	-	-	-	-	-	-	-	-	-	⊙	⊙	-

Note : Symbol ⊙: Assured, ○: Supported, ●: Supported conditionally, ×: Not supported, 2H/3H: High tension spindle

□ Roll (dye)

Table 1-12. Availability with Special Paper (Dye)

Roll / Dye			Characteristic				Media Size													
			core" spindle	Paper thickness (mm)	Auto cut	Borderless	8"	210 mm	10"	30cm	12"	14"	40cm	16"	50cm	20"	22"	60cm	24"	36"
Name	Japan	USA/ Europe/ Asia					203	210	254	300	305	356	400	406	500	508	560	600	610	914
Presentation Matte Paper			○	○	2	0.20	○		-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Semigloss Photo Paper (Asia / Europe) Semi Gloss Paper - Heavy Weight (US)			○	○	2	0.21	○		-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Glossy Photo Paper (Asia / Europe) Glossy Paper - Heavy Weight (US)			○	○	2	0.23	○		-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Doubleweight Matte Paper				○	2	0.21	○		-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Glossy Film			○	○	2	0.13	○		-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Photo Grade Glossy Paper (Asia / Europe) Photo Glossy Paper (US)				○	2	0.17	○		-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Photo Grade Semigloss Paper (Asia / Europe) Photo Semigloss Paper (US)				○	2	0.18	○		-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Heavyweight Polyester Banner			○	○	2	0.28			-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
RC 10mil Glossy Paper (TBD)			TBD	○	3	0.26	○		-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
RC 10mil Semigloss Paper (TBD)			TBD	○	3	0.26	○		-	-	-	-	-	-	-	-	-	⊙	⊙	⊙
Premium Luster Photo Paper			TBD	○	3	0.26	○	⊙	-	-	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Dupont / EPSON Commercial Proofing Paper				○	2	0.21	○		-	-	-	-	-	-	-	-	-	⊙	⊙	-
Dupont / EPSON Commercial Matte Proofing Paper				○	2	0.24	○		-	-	-	-	-	-	-	-	-	⊙	⊙	-
Dupont / EPSON Publication Proofing Paper				○	2	0.24	○		-	-	-	-	-	-	-	-	-	⊙	⊙	-

Note : Symbol ⊙: Assured, ○: Supported, ●: Supported conditionally, ×: Not supported, 2H/3H: High tension spindle

Note *1: Assured with Uni-D print.

*2: Paper is fed short-edge first.

*3: Paper should have no wrinkles, tears, or folds and the surface should be smooth.

*4: It is used under normal conditions (temperature 15°C ~ 25°C, humidity 40% ~ 60%RH)

*5: Paper feeding and print quality with borderless print is not assured on paper which is not assured for borderless print.

*6: Borderless print is not assured with sheet.

□ Sheet (pigment)

Table 1-13. Availability with Sheets (Pigment)

Sheet / Pigment			Characteristic				Media size											
			Black INK			Paper thickness (mm)	A4	LTR	A3	B	Super A3/B	A2	C	B2	A1	D	24"×30"	30"×40"
Name	Japan	USA/ Europe/ Asia	MK ×2	MK +LK	PK +LK		210×297	216×279	297×420	279×432	329×483	420×594	432×559	515×728	728×1030	559×864	610×762	762×1016
Glossy Paper - Photo Weight	○	○			○	⊙	⊙	⊙	⊙	⊙	-	-	-	-	-	-	-	-
Watercolor Paper - Radiant White	○	○		○	○	-	-	-	-	⊙	-	-	-	-	-	-	-	-
Smooth Fine Art Paper		○		○	○	0.67	-	-	-	-	-	-	-	-	-	⊙	-	⊙
Textured Fine Art Paper	TBD	○		○	○	0.67	-	-	-	-	-	-	-	-	-	⊙	-	⊙
Enhanced Matte - Poster Board	○	○		○	○	1.3			-	-	-	-	-	-	-	⊙	⊙	-

Note : Symbol ⊙: Assured, ○: Supported, ●: Supported conditionally, ×: Not supported, 2H/3H: High tension spindle

□ Sheet (dye)

Table 1-14. Availability with Sheets (Dye)

Sheet / Dye			Characteristic	Media size										
				Paper thickness	A4	LTR	A3	B	Super A3/B	A2	C	B2	A1	D
Name	Japan	USA/Europe /Asia			210×297	216×279	297×420	279×432	329×483	420×594	432×559	515×728	728×1030	559×864
Glossy Photo paper	○	○		⊙	⊙	⊙	⊙	⊙	-	-	-	-	-	-
Photo Quality Inkjet Paper	○	○		⊙	⊙	⊙	⊙	⊙	⊙	⊙	-	-	-	-
Glossy Film	○	○		⊙	⊙	⊙	⊙	⊙	-	-	-	-	-	-
Semigloss Paper - Poster Board		○		-	-	-	-	-	-	-	⊙	-	-	⊙

Note : Symbol ⊙: Assured, ○: Supported, ●: Supported conditionally, ×: Not supported, 2H/3H: High tension spindle

Note *1: Assured with Uni-D print.

*2: Paper is fed short-edge first.

*3: Paper should have no wrinkles, tears, or folds and the surface should be smooth.

*4: It is used under normal conditions (temperature 15°C~25°C, humidity 40%~60%RH)

1.2.6 Mechanism Specifications

1.2.6.1 Printable Area

Table 1-15. Printable Area

Item	Roll paper /Sheet	Model	Dimension
PW (Paper width)	Roll paper	Stylus Pro 7600	203 mm ~ 610 mm
		Stylus Pro 9600	203 mm ~ 1118 mm
	Sheet	Stylus Pro 7600	203 mm ~ 610 mm
		Stylus Pro 9600	203 mm ~ 1118 mm
PL (Paper length)	Roll paper	Stylus Pro 7600/Stylus Pro 9600	Max. 202m
	Sheet	Stylus Pro 7600/Stylus Pro 9600	279 mm ~ 1580 mm
TM (Top margin)	Roll paper	Stylus Pro 7600/Stylus Pro 9600	3 mm/15 mm
	Sheet	Stylus Pro 7600/Stylus Pro 9600	3 mm
BM (Bottom margin)	Roll paper	Stylus Pro 7600/Stylus Pro 9600	3 mm/15 mm
	Sheet	Stylus Pro 7600/Stylus Pro 9600	14 mm
LM (Left margin)	Roll paper	Stylus Pro 7600/Stylus Pro 9600	0 mm/3 mm/15 mm
	Sheet	Stylus Pro 7600/Stylus Pro 9600	0 mm/3 mm
RM (Right margin)	Roll paper	Stylus Pro 7600/Stylus Pro 9600	0 mm/3 mm/15 mm
	Sheet	Stylus Pro 7600/Stylus Pro 9600	0 mm/3 mm

- The printer detects paper width when paper is set. (If paper width detection setting is OFF, it does not detect paper width.)
- It does not print the image beyond the detected paper width or the printable area specified by paper size setting. (It may print on the platen if paper width detection setting is OFF.)
- Margins of roll paper can be changed on the panel as follows;
 Top/bottom 15 mm, left/right 3 mm
 Top/bottom/left/right 3 mm
 Top/bottom/left/right 15 mm

NOTE: Under special conditions, it is possible to set right and left margin (LM, RM) to 0.

- For borderless print, right and left margins are 3mm each because skew detection limit is 3mm. If the distance from the paper edge to the platen (sponge width) is less than 3mm, the maximum surplus print quantity without ink discharge onto the platen (0mm~3mm) is printable area.

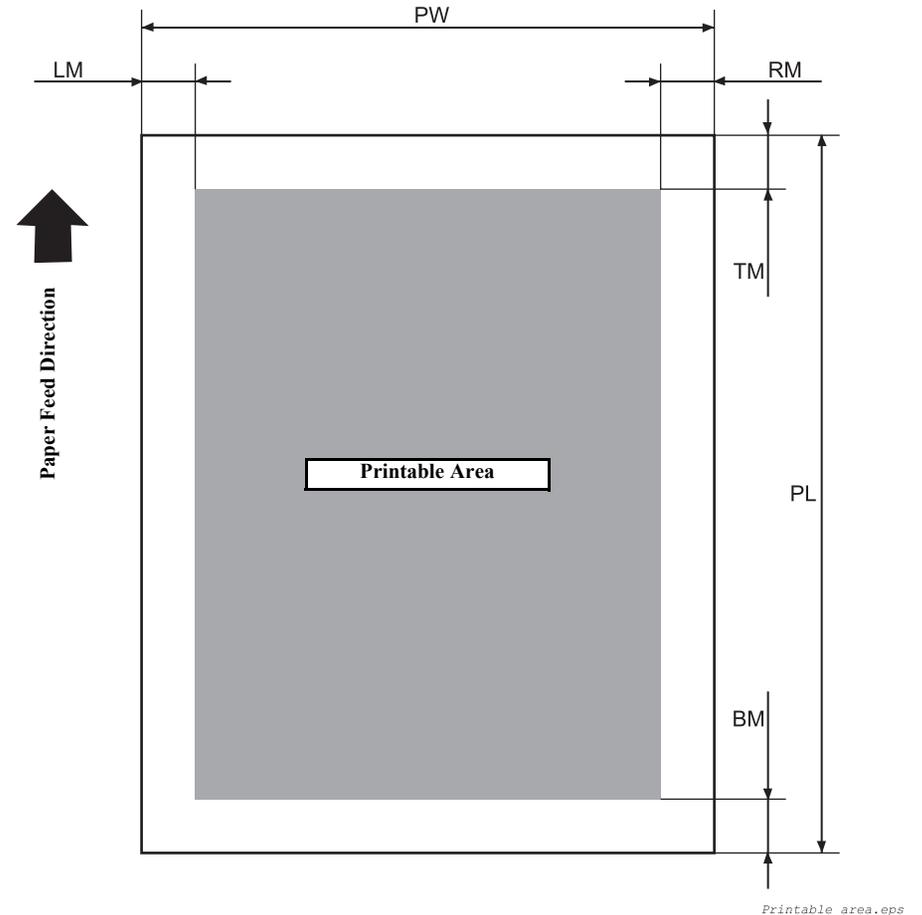


Figure 1-1. Printable Area

1.2.6.2 Paper Set Lever

Table 1-16. Paper Set Lever

Lever Position	Description
In the rear	Position for paper setting (You can set paper.)
In the front	Ready-to-print position (Paper is held with the paper holder.)

1.2.6.3 Cutting Specification

There are two methods to cut roll paper, automatic and manual cutting.



Do not use the auto cutting function with any paper for which auto cutting is prohibited; otherwise, the head would be damaged.

AUTOMATIC CUTTING OF ROLL MEDIA

Automatic cutting under the following conditions can only be performed on the approved media.

- Mechanical conditions
 - Distance between cut position and paper setting position: L0=167mm
 - Distance between cut position and cutter mark: L1= 44mm
 - Minimum cut length (same as paper edge waiting position): L2=030mm

Table 1-17. Cutting Conditions and Cutting Methods

Cut condition	Cut method
Initial cut (Cut with pushing “Cut/Eject” button after paper is set, and set lever is pushed down.)	Paper is fed for L1 length and cut in 4 steps. (50cps)
Cut after print completed by driver	4-step cut (200cps) When paper is shorter than L2, it is cut after feeding L2.
Initial cut during printing	Cut during printing is not allowed with this printer. (Product specification)
Initial cut during normal waiting status	Paper is fed for L1 length and cut in 4 steps. (50cps)
Initial cut with Auto cut ON after print with Auto cut OFF.	4-step cut (200cps), when paper is longer than L2. 4-step cut (50cps) after feeding L2, when paper is shorter than L2.
Cut with Paper width detection OFF	3-step cut always (100cps fixed)

Note : Cutting pressure at high speed can be changed.
 Cutting pressure at low speed is “Duty: 45%” fixed.
 Paper edge waiting position is fed L2 for initial cut.

MANUAL CUTTING OF ROLL PAPER

Manual cutting is performed by the following procedure.

1. Select “Roll Cutter Off” on the panel.
2. Press “Cut/ Eject” button.
3. Paper is automatically fed toward the cutter guide, and printer becomes Off-line. “Pause” is indicated on the LCD panel.
4. Adjust cutting position with “Paper Feed +/-” button if necessary.
5. Slide the cutter along the cutter guide to cut the paper.
6. After cutting, release the printer from the pause status by pressing the “Pause” button. Then paper is fed backward and printer enters on-line.



For manual cutting of roll paper, use the manual cutter available as an option.

1.2.6.4 Acoustic Noise

- Level: Approx. 50dB(A) (According to ISO 7779)

1.2.7 Electrical Specifications (TBD)

- Rated voltage: AC 100 ~ 240V
- Input voltage range: AC 90 ~ 264V
- Rated frequency range: 50 ~ 60Hz
- Input frequency range: 49 ~ 61Hz
- Rated current:
 - Stylus Pro 7600: 1.0A/100-120v, 0.5A/220-240v
 - Stylus Pro 9600: 1.0A/100-120v, 0.5A/220-240v
- Power consumption:
 - Operation status: Stylus Pro 7600 50W
Stylus Pro 9600 55W
 - Waiting status: Less than 15W (shifting time: 15 minutes)
 - Power OFF: Less than 0.7W
- Insulation resistance: More than 10M ohms
(between AC line and chassis, DC 500V)
- Dielectric strength: AC 1.0kV rms 1min.
AC1.2kV rms 1 sec.
(between AC line and chassis)
- Leakage: Less than 0.25mA
- International Energy Star Program Compliant:
(Complies with the power supply harmonic control guideline)

1.2.8 Reliability

1.2.8.1 Total Print Volume

- Stylus Pro 7600: 50,000 pages, 6.5million pass approx. (A1, 360×360 M/F, Bi-D)
- Stylus Pro 9600: 20,000 pages, 5million pass approx. (B0, 360×360 M/F, Bi-D)

1.2.8.2 Print Head Life

- Monochrome: 28billion shot / nozzle
- Color: 28billion shot / nozzle

1.2.8.3 Maintenance Tank Life

- Stylus Pro 7600: 11,000 pages approx.
(A1, plain paper, Speed mode, continuous print)
- Stylus Pro 9600: 5,000 pages approx.
(B0, plain paper, Speed mode, continuous print)

1.2.8.4 Cutter Life average

Table 1-18. Cutter life average

Paper Type	Stylus Pro 7600 For 24-inch standard roll paper, 3-step cutting	Stylus Pro 9600 For 44-inch standard roll paper, 3-step cutting
Coated paper	Approx. 2000 sheets	Approx. 2000 sheets
Film	Approx. 1000 sheets	Approx. 1000 sheets

1.2.8.5 Maintenance Parts (TBD)

- RTC backup battery: (TBD)
- Cleaning unit life average
(Cap assembly, Pomp assembly, Flushing box, Wiper)
 - Stylus Pro 7600: 18,000 pages approx.
(A1, plain paper, Speed mode, continuous print)
 - Stylus Pro 9600: 8,000 pages approx.
(B0, plain paper, Speed mode, continuous print)
- Ink absorbent sponge for right/left borderless print: (TBD)

1.2.9 Ambient Conditions

1.2.9.1 Temperature/Humidity

Table 1-19. Temperature/Humidity

Condition	Temperature*1	Humidity*2
During operation	10 ~ 35°C	20 ~ 80%
During storage	-20 ~ 40°C	20 ~ 85%
During transport	-20 ~ 60°C	5 ~ 85%

Note *1: 120 hours max. at 60°C, one month max. at 40°C

*2: No condensation. These values are applicable only within the range as shown below.

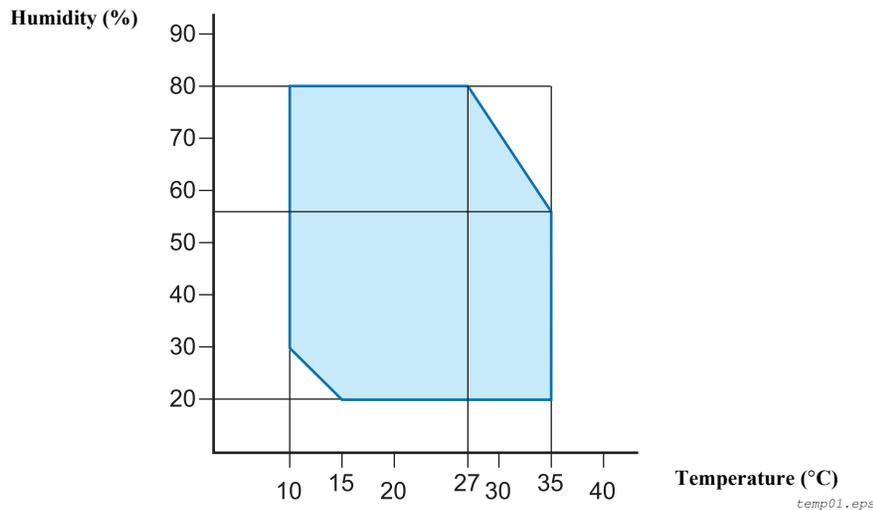


Figure 1-2. Environmental Conditions: Temperature/Humidity

1.2.9.2 Vibration

- During operation: 0.15G, 10 ~ 55Hz X,Y and Z directions
- During storage: 0.50G, 10 ~ 55Hz X,Y and Z directions

1.2.9.3 Shock

- During operation: 1G, 1ms max. X,Y and Z directions
- During storage: 2G, 2ms max. X,Y and Z directions

- NOTE**
- 1: For storage, check that the print head is capped.
 - 2: Before transportation, check that the print head is capped, remove the ink cartridges, and close the ink cartridge cover.
 - 3: If the power to the printer is OFF with the printer head uncapped, turn the power ON with the ink cartridges installed. Then wait until capping is completed, and turn the power OFF.
 - 4: If the printer is left standing at temperature of -15°C or below, the ink in the print head and ink cartridges will freeze. If the ink is frozen, leave the printer standing at temperature of 25°C for more than three hours before its use.

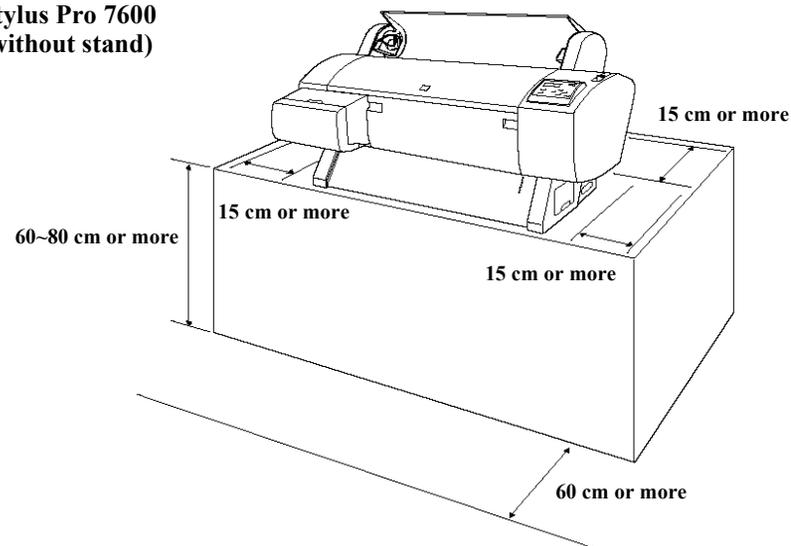
1.2.9.4 Surrounding Space

Provide the printer with an enough surrounding space to ensure proper installation of accessories and replacement of consumables and easy work for daily maintenance.

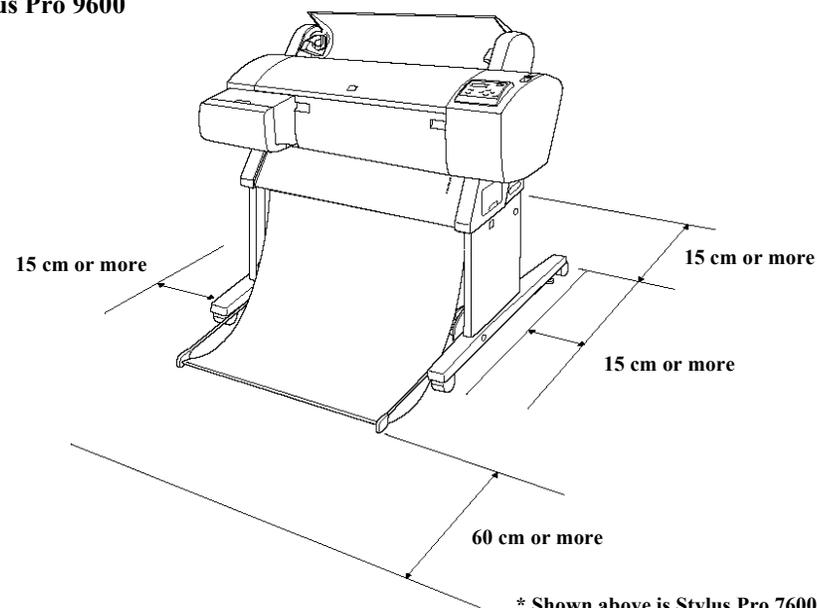
- From the front of the printer: 60 cm or more
- From the rear and both sides of the printer: 15 cm or more

- When Stylus Pro 7600 is not equipped with the dedicated stand:
 Stylus Pro 7600 ejects paper downward. To prevent the ejected paper from being obstructed, install the printer on a table or desk 60 to 80 cm high above the floor and provide the printer with a 60 cm or more space in front. In doing so, locate the front rubber feet of the printer close to the front end of the table or the desk.

**Stylus Pro 7600
(without stand)**



**Stylus Pro 7600 (with stand)/
Stylus Pro 9600**



* Shown above is Stylus Pro 7600

Figure 1-3. Surrounding Space

1.2.10 Overall Dimensions

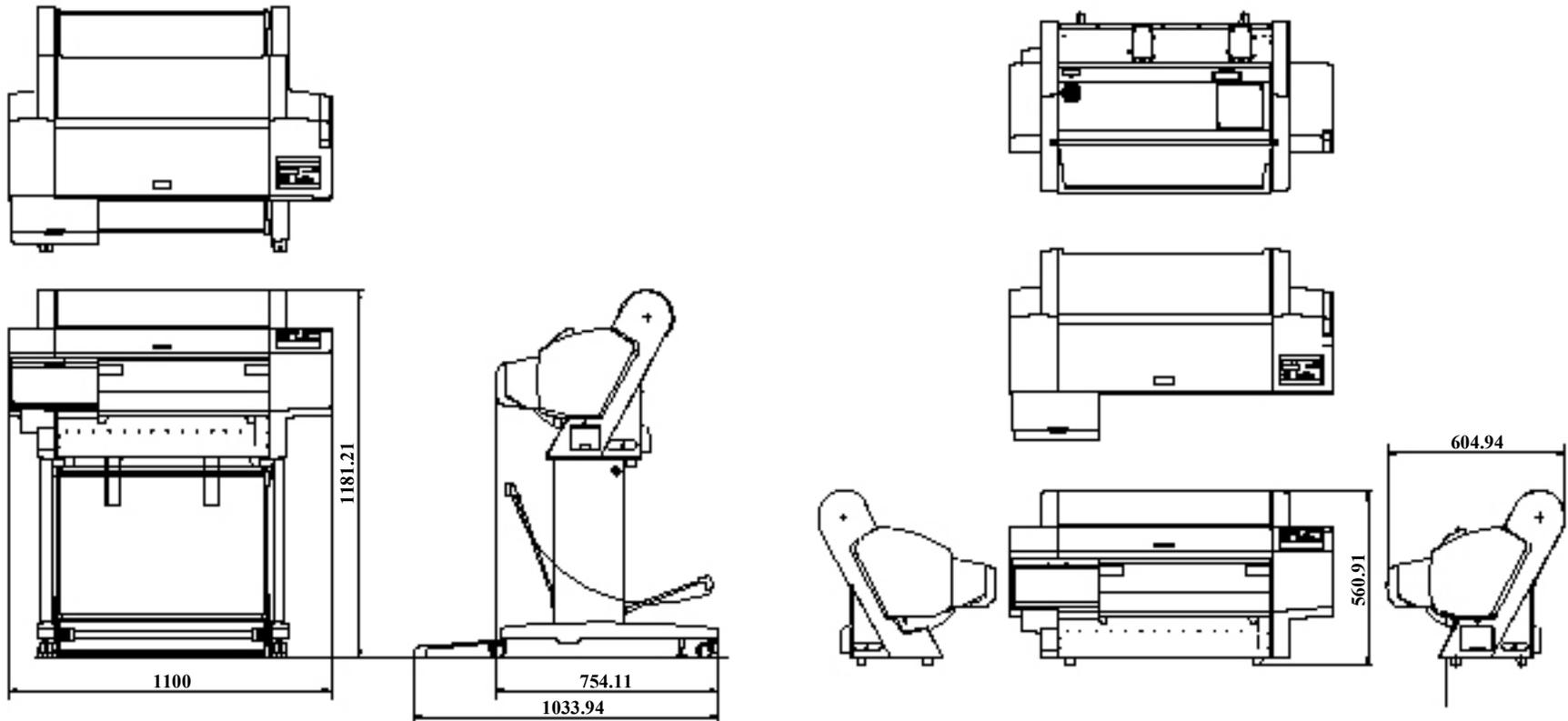


Figure 1-4. Overall Dimensions of Stylus Pro 7600

□ Dimensions of Unit

Model	Condition	Width (W) × Depth (D) × Height (H) (mm)
Stylus Pro 7600	Printer body	1100 × 805 × 561
	Rearward paper eject	1100 × 754 × 1181
	Frontward paper eject	1100 × 1034 × 1181
Stylus Pro 9600	Frontward paper eject	1624 × 691 × 1178
	Rearward paper eject	1624 × 697 × 1178
	Frontward paper eject	1624 × 1076 × 1178

- Note 1: For “rearward paper eject”, the paper exit tray is brought down toward the rear.
 Note 2: For “frontward paper eject”, the paper exit tray is brought down toward the front.

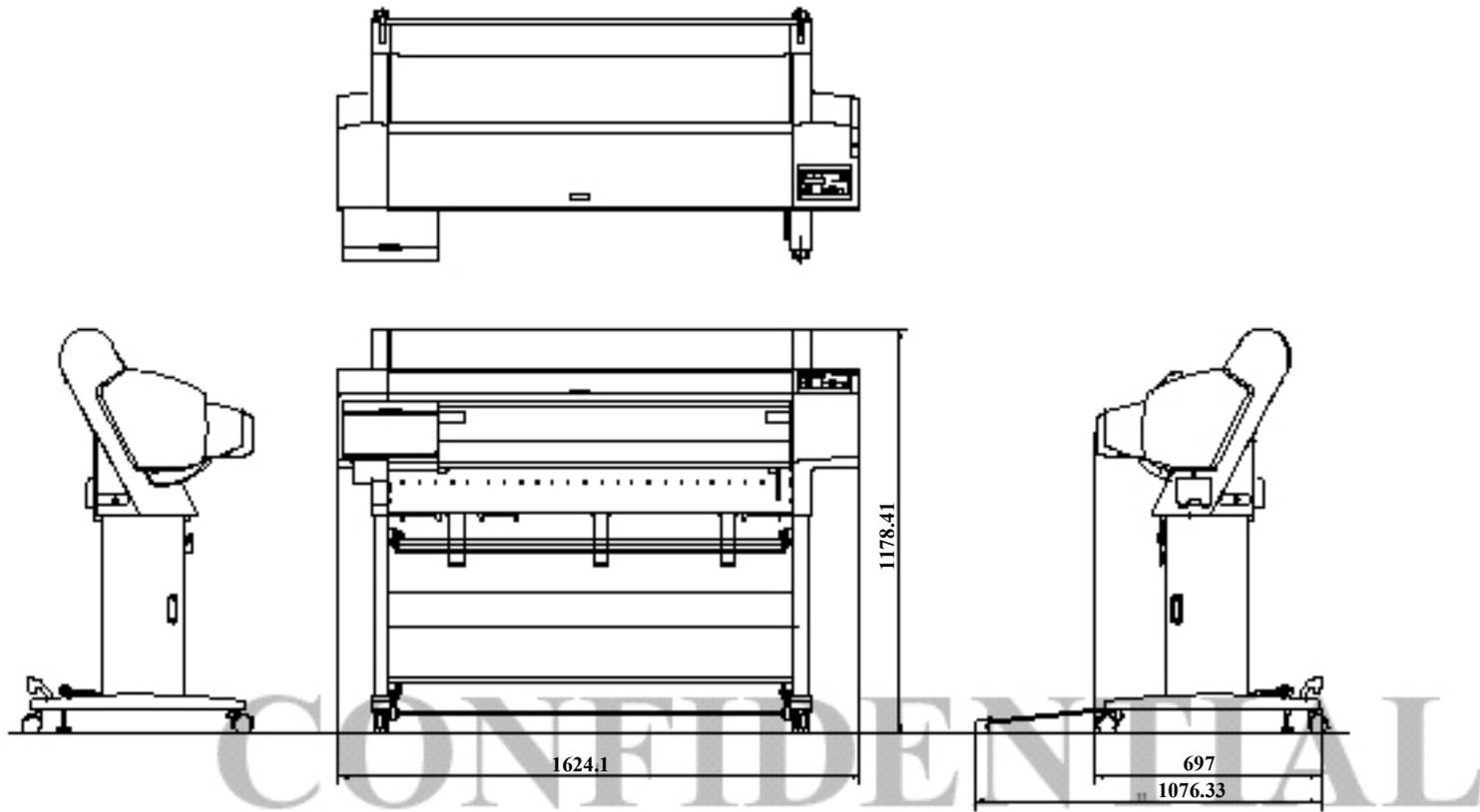


Figure 1-5. Overall Dimensions of Stylus Pro 9600

□ Weight

Model	Condition	Weight
Stylus Pro 7600	Printer body (without feet mounted) *	About 43.5 kg
	Feet	About 10.5 kg
Stylus Pro 9600	Printer body (without feet mounted) *	About 62.0 kg
	Feet	About 22.5 kg

Note "*": Excluding the ink cartridges

1.2.11 Accessories

This section describes the accessories and options for Stylus Pro 7600 and Stylus Pro 9600.

1.2.11.1 Accessories and Options for Stylus Pro 7600

- Standard Accessories
 - AC Cable
 - Change Plug Adapter 3pin to 2pin
 - 24 (2/3) inch roll paper spindle
 - Roll paper sample
 - Roll paper belt
 - Ink cartridges (110ml PK, MK, LK, C, M, LC, LM, Y)
 - Maintenance Tank
 - User's Manual
 - Driver & User's Manual
 - EPSON GrayBalancer & EPSON Printer Service Utility
 - Utility Software
 - Guarantee Card
 - Card holder
 - Carton Box
- Special Options
 - Special stand (PX70MCU)
 - Manual cutter unit 24" (PX70MCU)
 - Normal tension spindle 24" <2"/3"> (PX70RPSD)
 - Black ink replacement kit (Draining cartridge, Cleaning cartridge)

- Special Consumables
 - Ink cartridge (110ml)

Name	Model Number
	110 ml (Standard Product)
Photo Black	ICBK24
Matte Black	ICMB24
Light Black	ICGY24
Cyan	ICC24
Magenta	ICLC24
Light Cyan	ICM24
Light Magenta	ICLM24
Yellow	ICY24

Note : The 220 ml ink cartridges are supported only by Stylus Pro 9600.

- Special paper (Refer to “[1.2.5 Paper Specifications \(p.15\)](#)” for paper type and size)
- Maintenance tank
- Options Common to Other Printers
 - Auto cutter blade (PM90SPB)
 - Leo 2.13 (PRIFNW3S)
 - Fairbanks (PRIF14)

1.2.11.2 Accessories and Options for Stylus Pro 9600

- Standard accessories
 - AC Cable
 - Change Plug Adapter 3pin to 2pin
 - Special stand
 - 44 (2/3) inch roll paper spindle
 - Roll paper sample
 - Roll paper belt
 - Ink cartridges (110ml PK, MK, LK, C, M, LC, LM, Y)
 - Maintenance Tank
 - User's Manual
 - Driver & User's Manual
 - EPSON GrayBalancer & EPSON Printer Service Utility
 - Utility Software
 - Guarantee Card
 - Card holder
 - Carton Box
- Special Options
 - Manual cutter unit 44”(PX90MCU)
 - Normal tension spindle 44”<2”/3”> (PX90RPSD)
 - High tension spindle 44”<2”/3”> (PX90HSD)
 - Black ink replacement kit (Draining cartridge, Cleaning cartridge)

- Special Consumables
 - Ink cartridge (110 ml/220 ml (only for pigment))

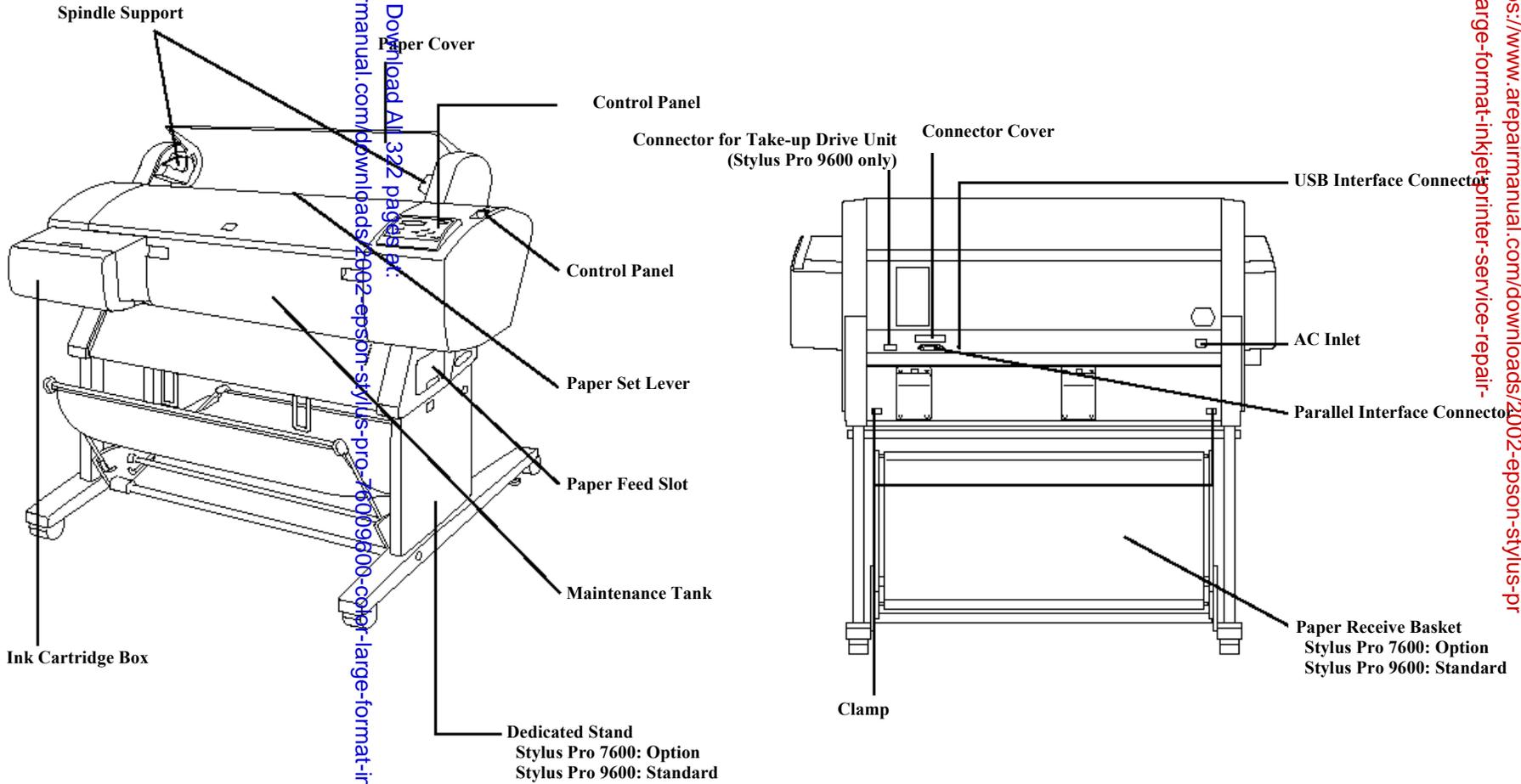
Name	Model Number	
	110 ml (Standard Product)	220ml (Option)*
Photo Black	ICBK24	ICBK25
Matte Black	ICMB24	ICMB25
Light Black	ICGY24	ICGY25
Cyan	ICC24	ICC25
Magenta	ICLC24	ICLC25
Light Cyan	ICM24	ICM25
Light Magenta	ICLM24	ICLM25
Yellow	ICY24	ICY25

Note : The 220 ml ink cartridges are supported only by Stylus Pro 9600.

- Special paper (Refer to “[1.2.5 Paper Specifications \(p.15\)](#)” for paper type and size)
- Maintenance tank
- Options common to other printers
 - Auto cutter blade (PM90SPB)
 - Take-up roller (PMARFU1)
 - Leo 2.13 (PRIFNW3S)
 - Fairbanks (PRIF14)

1.3 External View and Parts Names

EXTERNAL VIEW



Note : Shown above is Stylus Pro 7600

Figure 1-6. External View and Parts Names

Product: 2002 EPSON Stylus Pro 7600/9600 Color Large Format Inkjet Printer Service Repair Workshop Manual
 Full Download: <https://www.arepairmanual.com/downloads/2002-epson-stylus-pro-7600-9600-color-large-format-inkjet-printer-service-repair-workshop-manual/>