

The Illustrated Part List (IPL) contains the illustrations and the parts lists for the different assemblies in the printer. The parts lists give the part numbers, description, and quantity of all the items and the modules in the printer. You can order the items and the modules for which the part numbers are given.

How to Read the IPL

This section describes how the higher assemblies are broken down to their related sub assemblies and other separate parts.

Illustrations

Table 10-1 on page 10-2 shows the symbols used to indicate the different levels of main assemblies in a printer, and the sub assemblies under the main assembly.

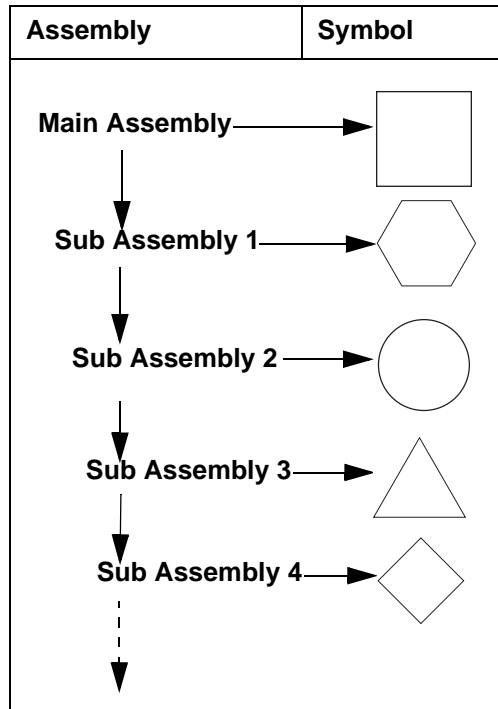


Table 10-1: Symbols Representation - Assemblies

..... ➔ Indicates further explosion.

Alphabets

- An alphabet is assigned to the main assemblies of a printer and each sub assembly under the main assembly. See Figure 10-1 on page 10-3.

For example: If A, B, C and D identify the main assemblies of a printer, then the alphabets E, F, and so on identify the sub assemblies below each main assembly in a sequence.

- The alphabets assigned to main assemblies are used only for one time.
- The alphabets "I" and "O" are not used because they look like the numbers 1 and 0.

Numbers

A natural number (1,2,3.....) is assigned to the stand alone parts (in ascending order) through out the breakdown of main assemblies. See Figure 10-1.

Note: The numbers assigned to main assemblies can be used only for one time.

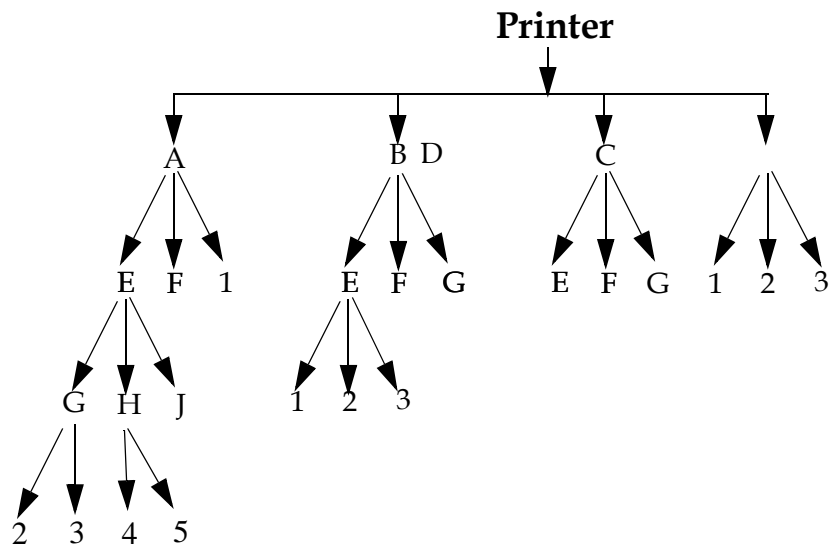


Figure 10-1: Graphical Representation of the Different Subassemblies and Parts

Tables

Figure 10-2 describes the styles used to show the explosion of the main assemblies in parts lists.

	Item Number	P/N	Description	Qty
Main Assembly →	A			
	3			
Subassembly 1 →	E			
	4			
Subassembly 2 →	H			
	5			
Parts under the Subassembly OR Stand-alone Part →	6			
	J			
	7			
	8			

Figure 10-2: Representation of the different Sub-assemblies and parts in the Table

Notes

Notes provide useful information. Some examples for note are as follows:

Note: To order this item, use part number of item 9 in this table.

Note: This screw is a part of Core Module.

Note: This item can be ordered separately.

Willett 620 Printer



Figure 10-3: Main Parts of the Printer

Table 10-2 shows the sub assemblies of the printer.

Item	Descriptions
A	Electronics Compartment
B	Ink Compartment
C	Printhead
D	Cabinet
E	Umbilical

Table 10-2: Willett 620 Printer Assembly

Electronics Compartment

A

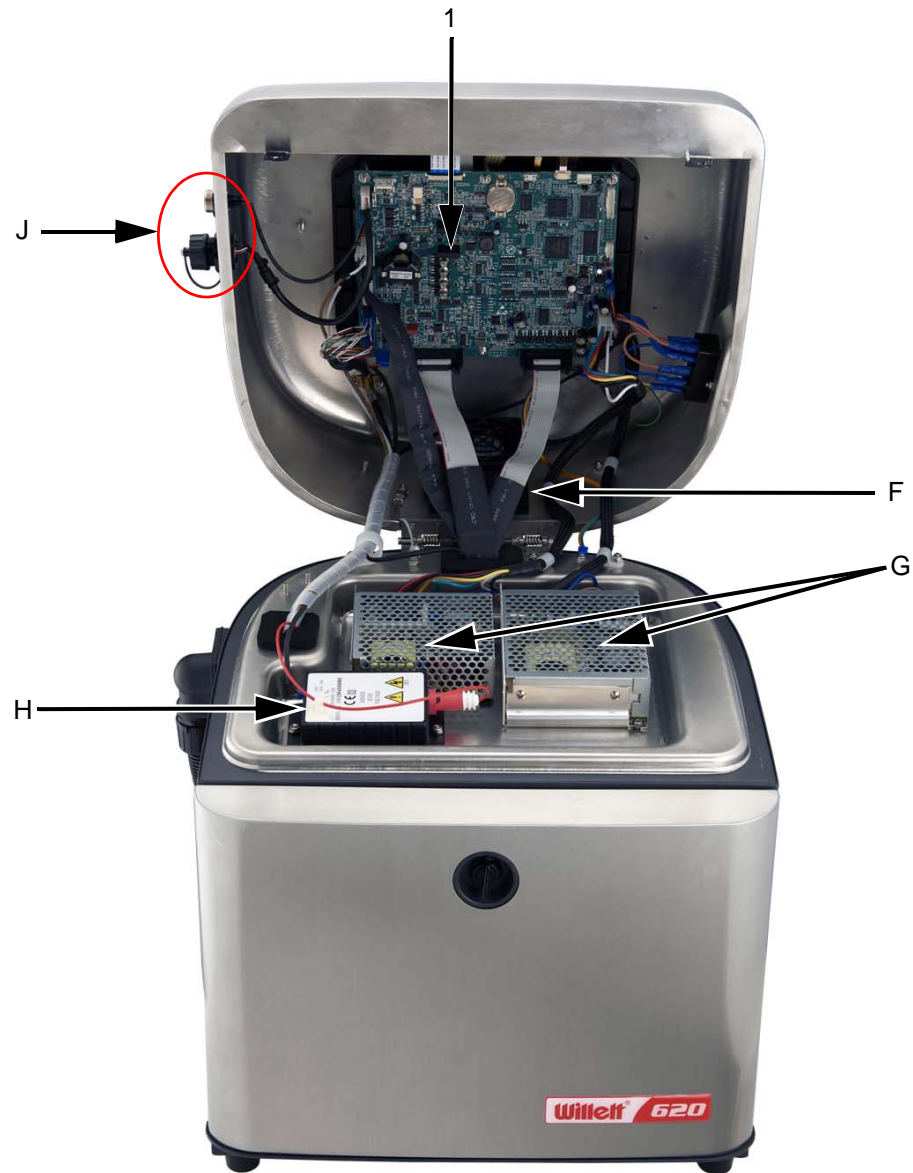


Figure 10-4: Electronics Compartment

Main Control Board (MCB)



Figure 10-5: Main Control Board

LCD

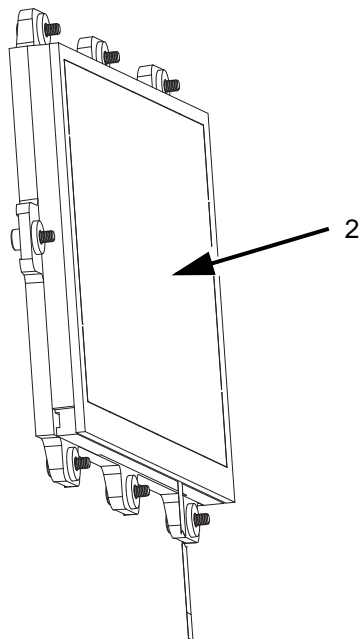


Figure 10-6: LCD

Electronics Fan Assembly

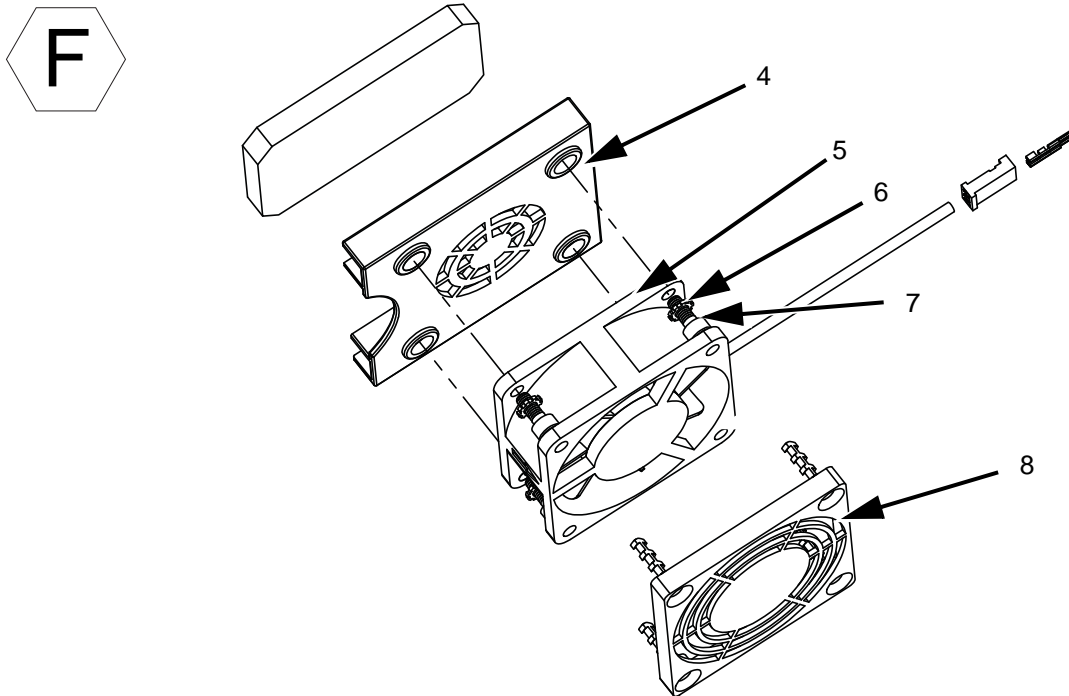


Figure 10-7: Electronics Fan Assembly

Power Supply Unit Assembly

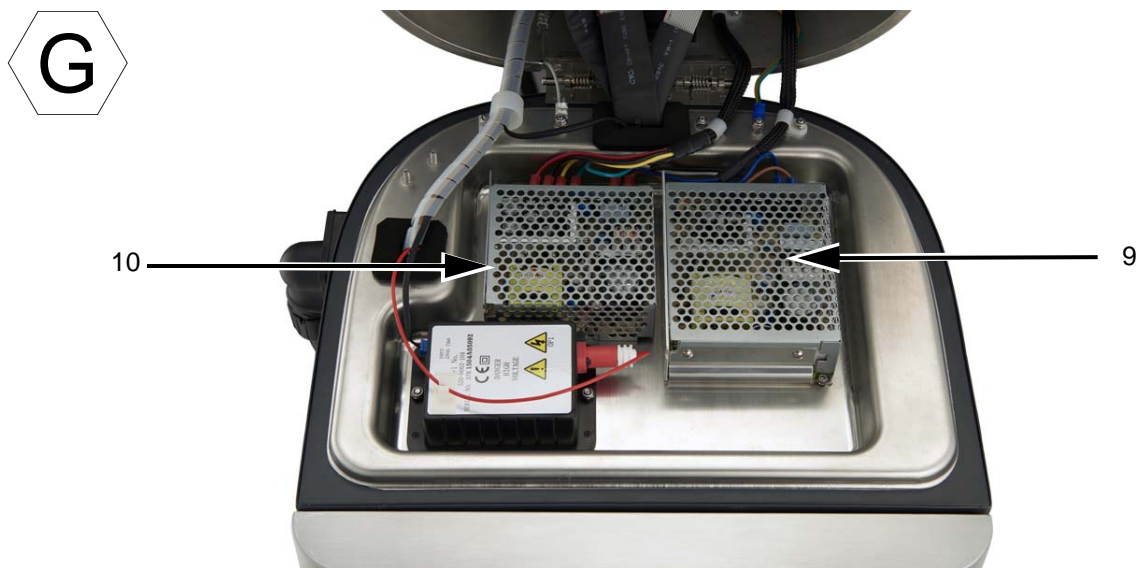


Figure 10-8: Power Supply Unit Assembly

EHT Module

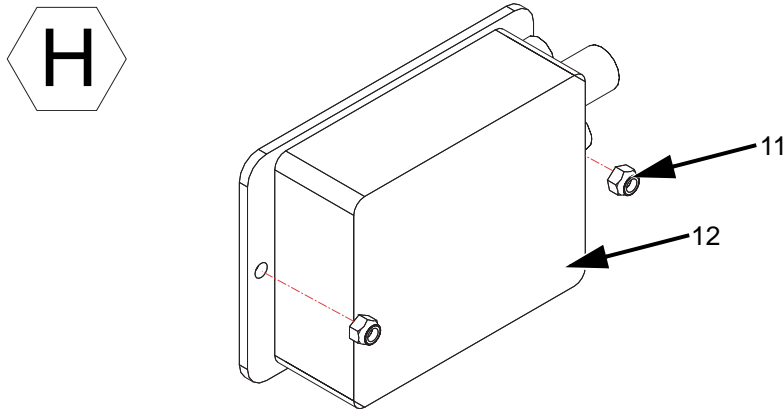


Figure 10-9: EHT Module

Connector Panel

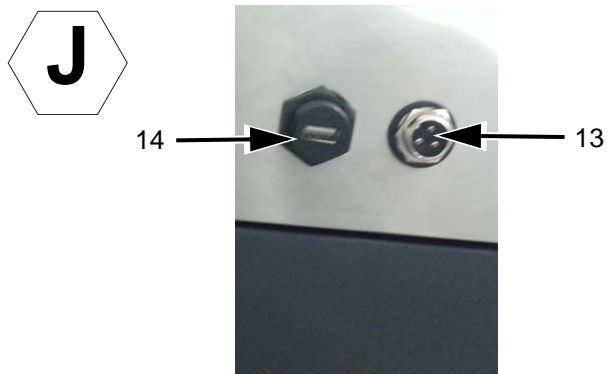


Figure 10-10: Connector Panel

Item Number	P/N	Description	Qty
A		Electronics Compartment	
1	SP383356	Main Control Board	1
2	SP383353	LCD with Touch Panel (Cable included)	1
3*	SP389494	Fuse	1
F	SP383352	Electronics Fan Assembly	
4		Fan Bracket	1
5		Fan, 60 mm	1
6		Washer	4
7		Screw	4
8		Finger guard, 60 mm	1
G		Power Supply Unit (PSU) Assembly with Mount	
9	SP389497	PSU RT-50	1
10	SP389496	PSU RS-75	1
H		EHT Module Assembly	
11		M4 Nyloc Nut	2
12	383124	EHT Module	1
J		Connector Panel	
13		Print Trigger	1
14	383096	USB Connector	1

Table 10-3: Electronics Compartment

Ink Compartment

B

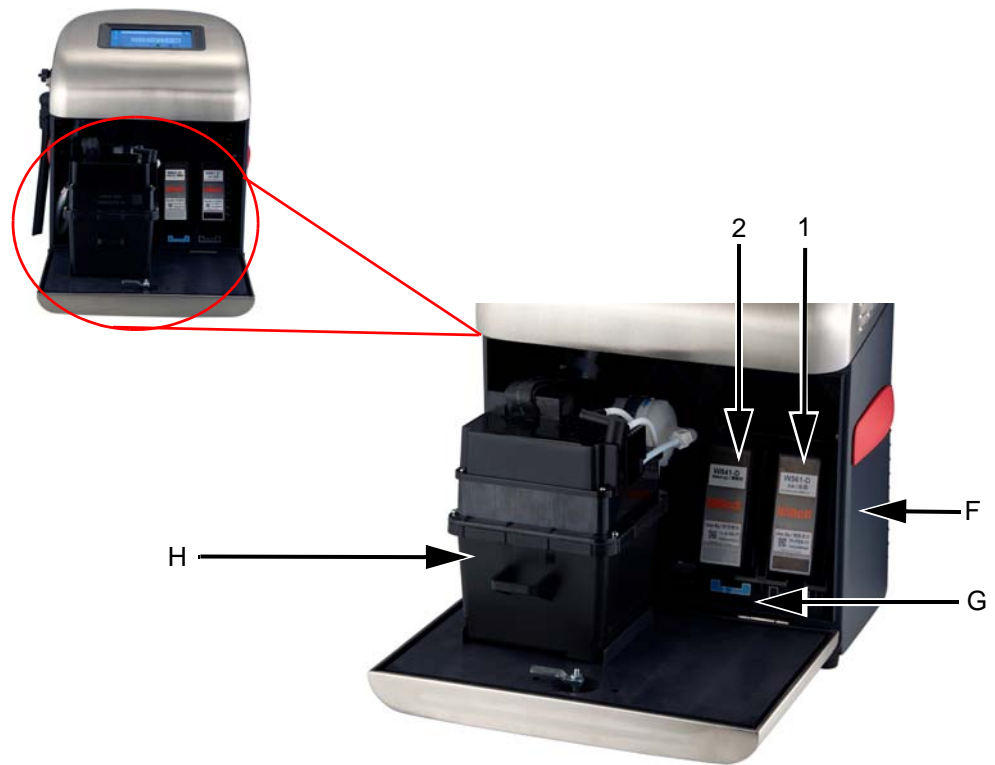


Figure 10-11: Ink System

Ink Cartridge

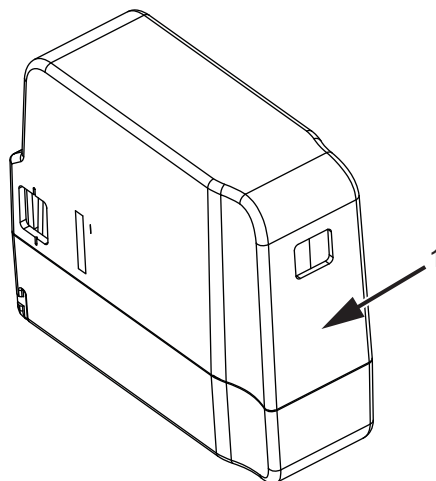


Figure 10-12: Ink Cartridge

Make-up Cartridge

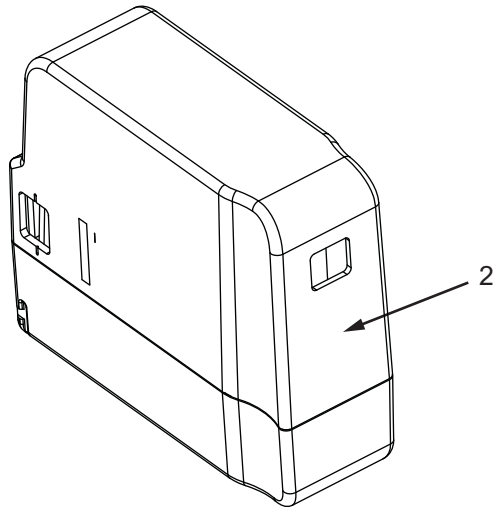


Figure 10-13: Make-up Cartridge

Septum Assembly

F

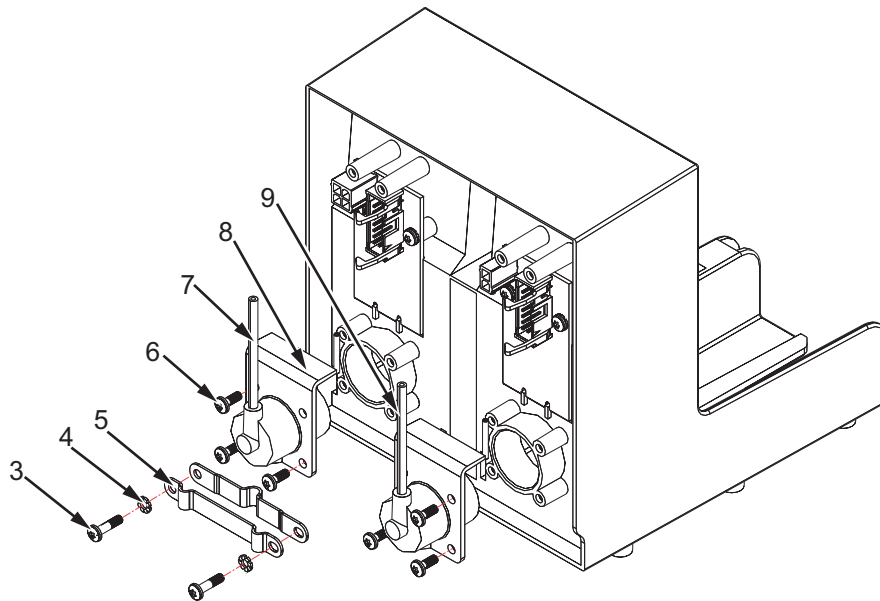


Figure 10-14: Septum Assembly

Ink Core Module Assembly

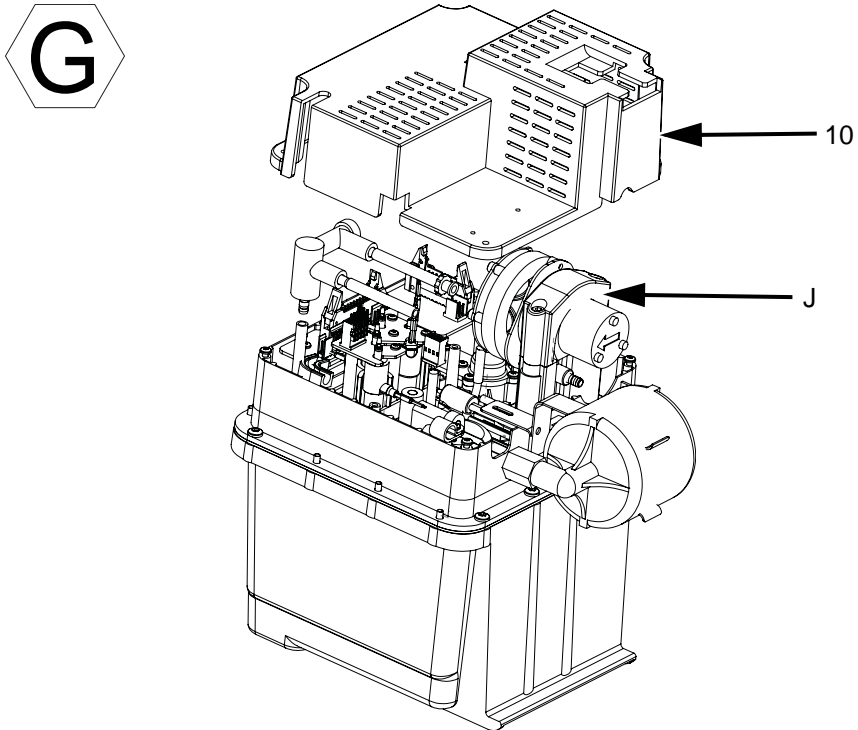


Figure 10-15: Ink Core with Pump

Ink Core Pump

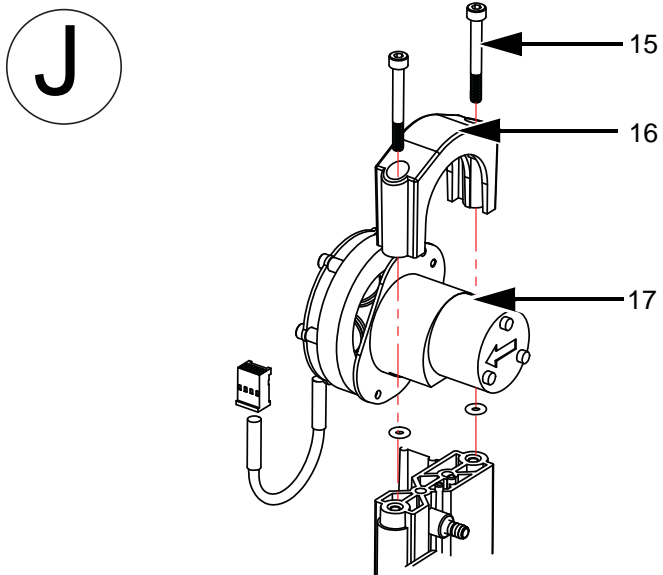


Figure 10-16: Ink Core Pump Assembly

Ink Core Without Pump

K

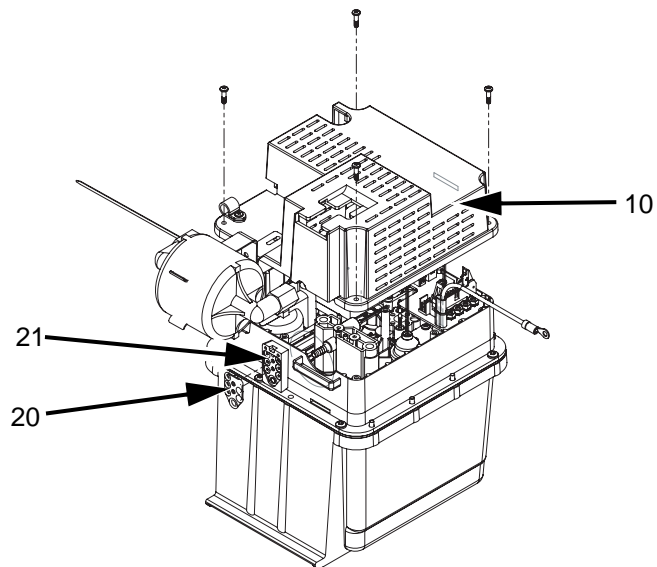


Figure 10-17: Ink Core Module Without Pump

Ink System Fan

H

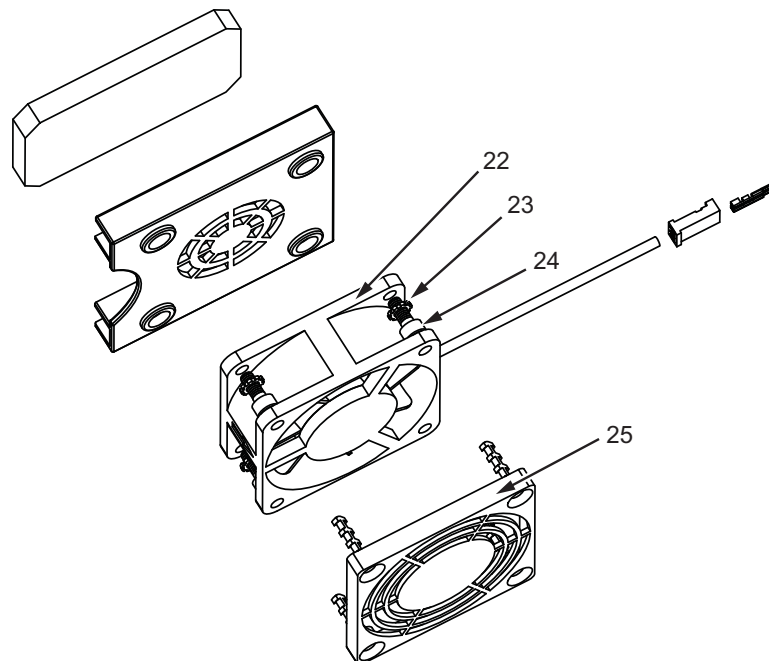


Figure 10-18: Ink System Fan Assembly

Item Number	P/N	Description	Qty
B		Ink Compartment	
1		Ink Cartridge	1
2		Make-up Cartridge	1
F	383107	Septum Assembly	1
3		K30 x 12 Pan-head Torx Screw	2
4		M3 ET Washer	2
5		Tube and Ribbon Cable Clamp	1
6		K30 x 8 Pan-head Torx Screw	6
7		Black Stripe Tube (Ink System)	1
8		Septum	1
9		Green Stripe Tube (Make-up System)	1
G	SP383345	Ink Core with Pump	
10	SP383351	One piece Ink System Cover	1
11*	SP383348	Valve Base Assembly	
12*	SP383349	Flush Valve	
13*	SP383347	5 Micron Filter	1
14*	SP383350	Valve Connector Board (VCB) Assembly	1
J	383119	Micro Pump	
15		M4 x 35 Cap-head Screw	2
16		Saddle Clamp	1
17		Micro Pump	1
K	SP383346	Ink Core without Pump	
18*		M3 x 7 Manifold Screw	2
19*		Ink Core Manifold (Male)	1
20		Ink Core Manifold Gasket	1

Table 10-4: Ink Compartment

Item Number	P/N	Description	Qty
21		Ink Core Manifold (Female)	1
H		Ink System Fan Assembly	
22	SP383352	Fan	1
23		M4 ET Washer	4
24		M4 x 10 Cap-head Screw	4
25		Fan Guard	1
26*	SP231116	Fan Inside Filter	1

Table 10-4: Ink Compartment (Continued)

*- Items are not shown in the figure.

Printhead

C

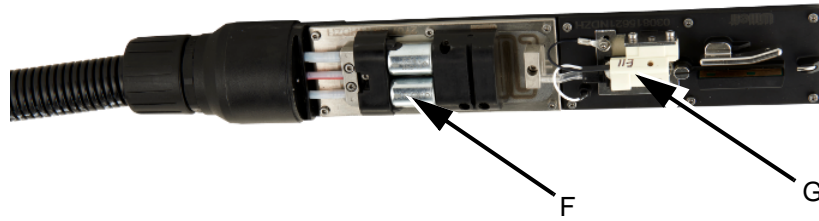


Figure 10-19: Printhead

Printhead Valve Module

F

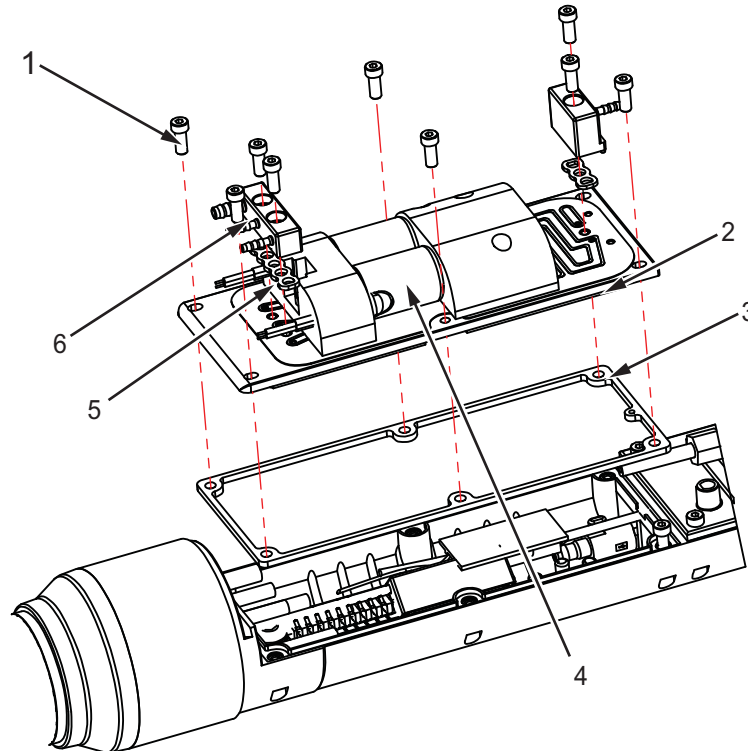


Figure 10-20: Printhead Valve Module

Printhead Engine

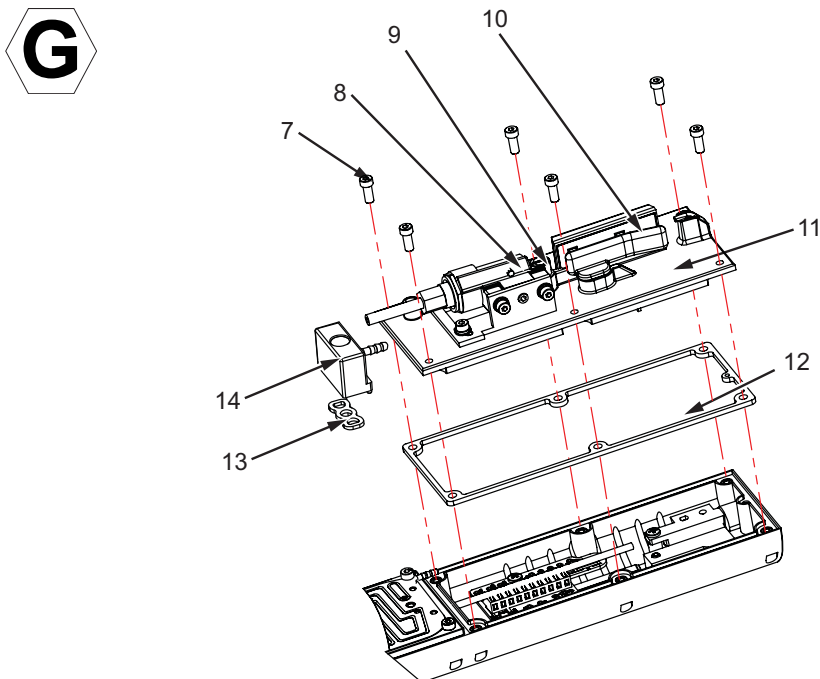


Figure 10-21: Printhead Engine

Item Number	P/N	Description	Qty
C		Printhead	
F	SP383339	Printhead Valve Module	
1		M2 x 6 Cap-head Screw	8
2		Printhead Valve Module Deck	1
3		Printhead Valve Module Gasket	1
4		Feed Valve	1
5		Rear Manifold Gasket	1
6		3-Way Manifold Assembly (Rear Tubing Manifold)	1
G	SP383340	Printhead Engine (60 micron)	
7		M2 x 6 Cap-head Screw	7
8		Nozzle Assembly	1

Table 10-5: Printhead Assembly

Item Number	P/N	Description	Qty
9		Charge Electrode	1
10		Deflector Plate	1
11		Printhead Engine Deck	1
12		Printhead Engine Gasket	1
13		Front Tubing Manifold Gasket	1
14		1-Way Manifold Assembly (Front Tubing Manifold)	1
15*	383099	Printhead Gasket Kit*	
		Gasket, Printhead	10
		Gasket, 3-way Manifold	10
		Gasket, 1-way Manifold	10
		Connection Manifold Gasket	10
		4.47 x 1.78 O-ring	10

Table 10-5: Printhead Assembly (Continued)

*- Item is not shown in the figure.

Cabinet



Left Handle



Figure 10-22: Left Handle

Right Handle



Figure 10-23: Right Handle

Cabinet Foot

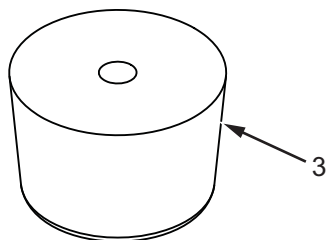


Figure 10-24: Cabinet Foot

Item Number	P/N	Description	Qty
D		Cabinet	
1	SP383554	Left Handle	1
2	SP383555	Right Handle	1
3	392004	Cabinet Foot	4

Table 10-6: Cabinet

Cables

P/N	Description	Qty
SP383101	Ribbon Cable and Heatshrink Assembly Smart Chip and Pump 14 Way	1
383252	20 way Ink System Ribbon Cable Assembly	1
383251	16 way Ink System Ribbon Cable Assembly	1
SP383889	Mains Cable	1
SP383893	IO 3 Way Photocell Cable	1
388090	3 Way Cable MTG Plug	1

Table 10-7: Cables

Optional Accessories

Printhead Stand

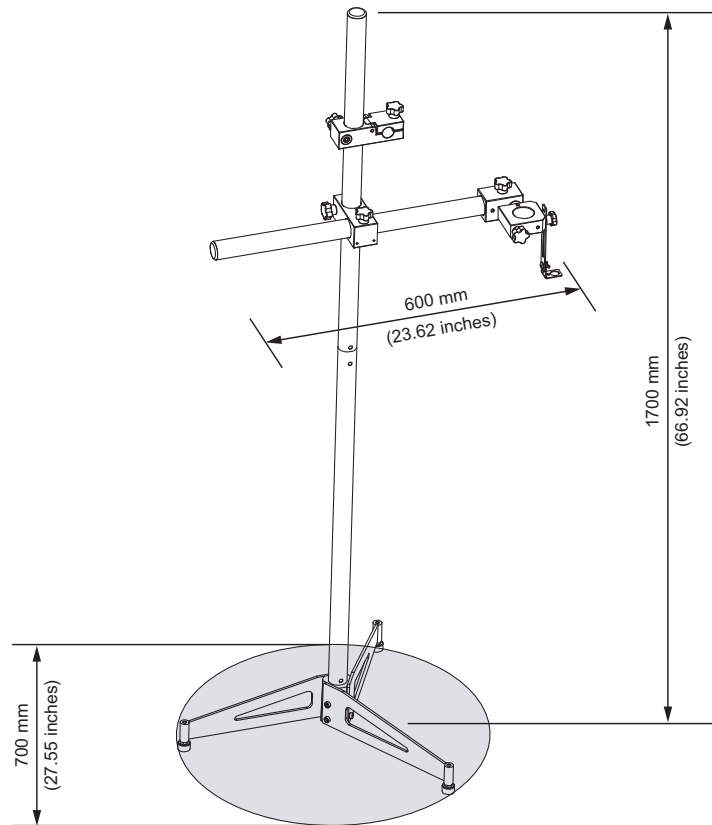


Figure 10-25: Printhead Stand

Din Plugs



Figure 10-26: 3 Way DIN Plug

Accessories

Item Number	P/N	Description	Qty
	383131	Printhead Stand	
1		Clamp Assembly	1
2		Vertical Tube	1
3		Printhead Cross Tube	1
4		Printhead Mount Assembly	1
5		M6 x 8 Grub Screw	2
6		M10 Nut	8
7		M10 Washer	8
8		Stand Base Plate	1
9		M16 x 40 Hex Bolt	1
10		Adjustable Foot	4
11		Anti-vibration Mounting	1
12		Umbilical Clamp Assembly	
13	500-0036-578	3-Way DIN Plug (Photo Cell) for Product Detector and Reverse Printing Input	1

Miscellaneous Accessories

Bottle Holder

Part Number	Description
SP383357	Bottle Holder Assembly

Table 10-8: Connectivity

Hydraulics

Part Number	Description
399072	Tubing Kit Spare

Table 10-9: Printhead and Umbilical

Printhead and Umbilical

Part Number	Description
SP383343	Printhead and Umbilical Complete (2 m) 60 micron
SP383344	Printhead Chassis and Umbilical (2 m)
SP383342	Printhead Cover Assembly
223277	Printhead Screw (Only)

Table 10-10: Printhead and Umbilical