

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.

Assembly	Symbol
Main Assembly	□
Sub Assembly 1	○
Sub Assembly 2	○
Sub Assembly 3	△
Sub Assembly 4	◇
⋮	⋮

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 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.

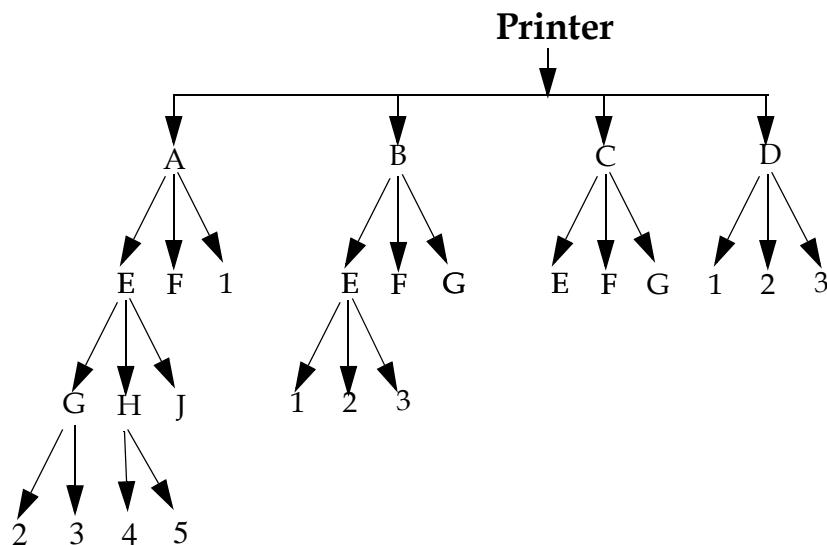


Figure 10-1: Graphical Representation of the Different Subassemblies and Parts

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 Subassemblies 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.

Videojet 1620/1620 UHS Printer

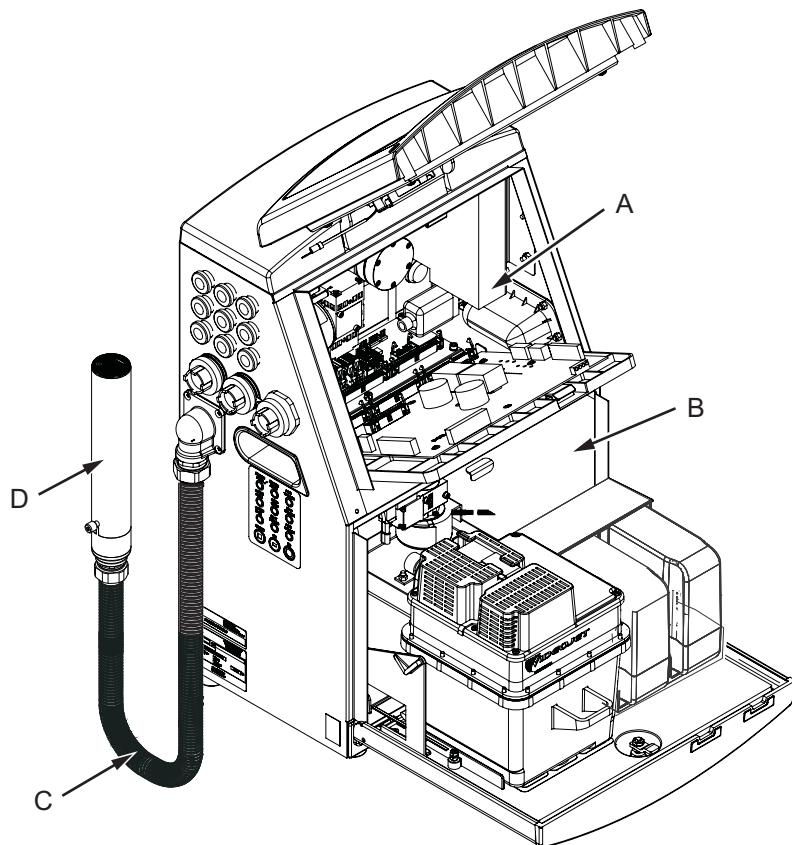


Figure 10-3: Main Parts of the Printer

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

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

Table 10-2: Videojet 1620/1620 UHS Printer Assemblies

Electronics Compartment

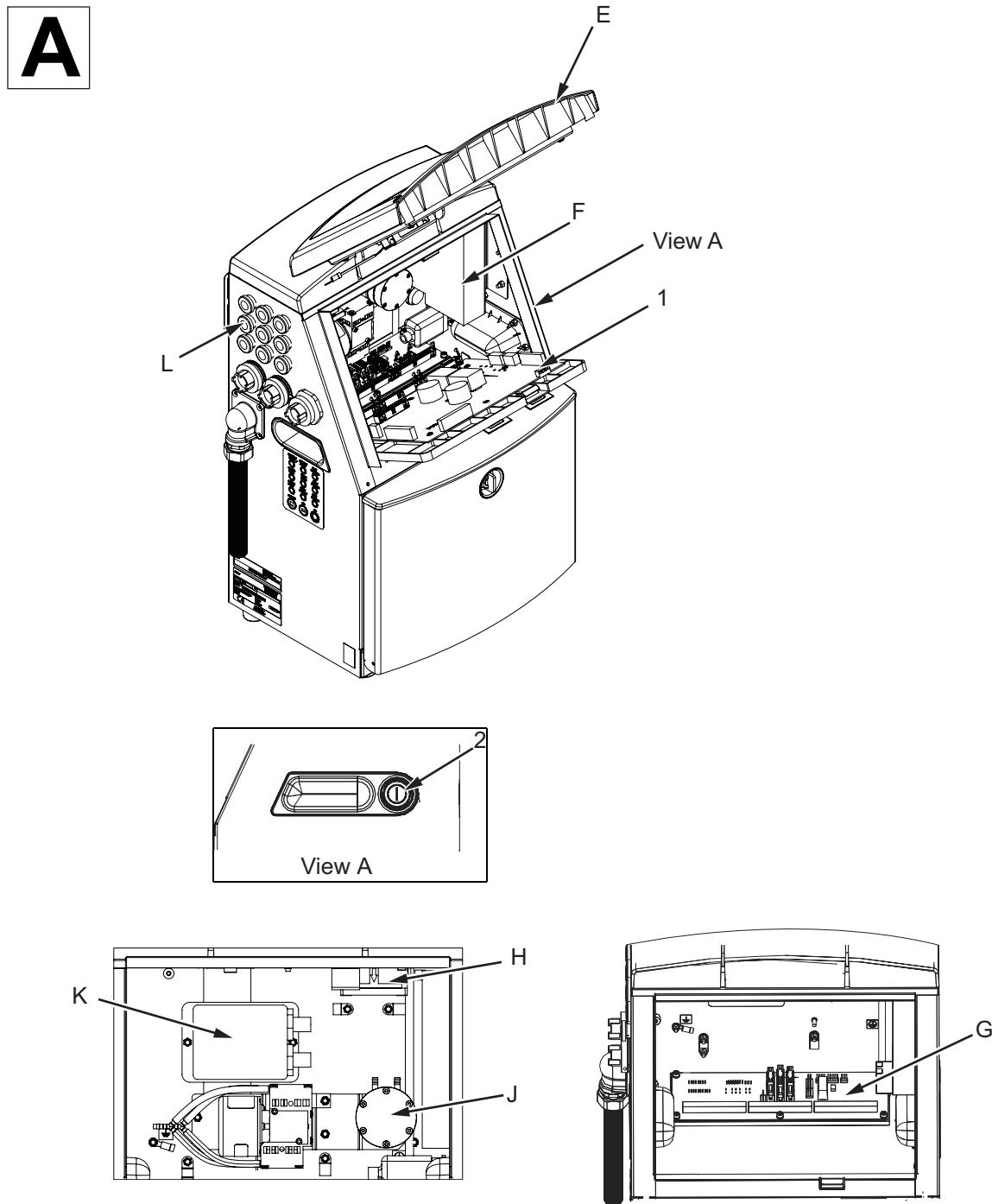


Figure 10-4: Electronics Compartment

Control System Board (CSB) with Back Plate

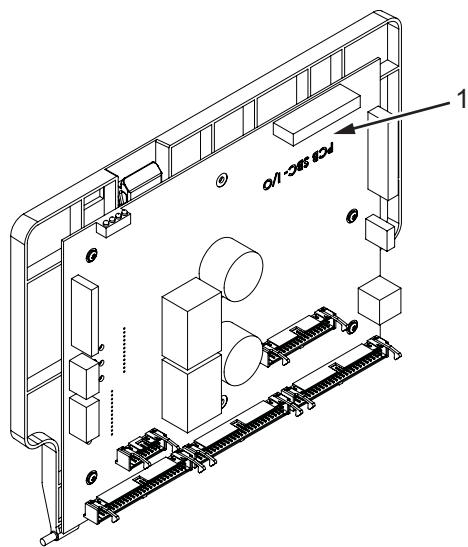


Figure 10-5: Control System Board Assembly with Back Plate

Power Switch

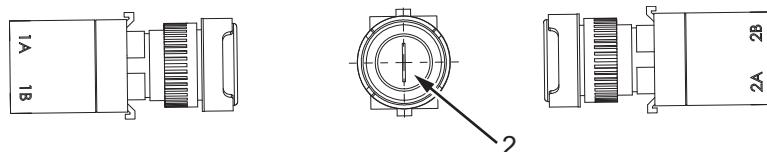


Figure 10-6: Power Switch

Electronics Door Assembly

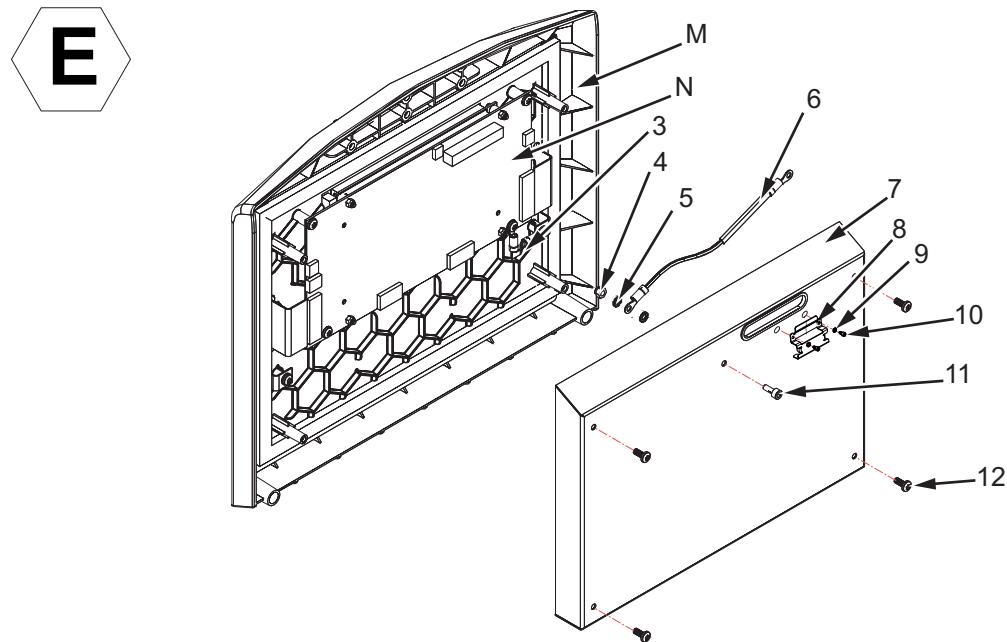


Figure 10-7: Electronics Door Assembly

Display Door

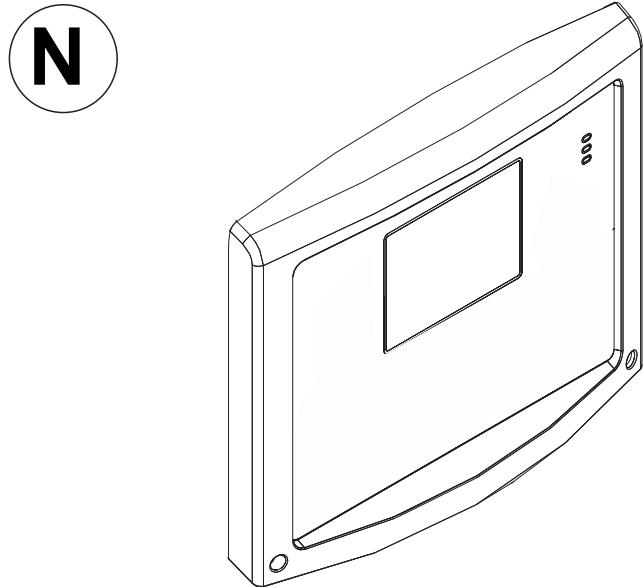


Figure 10-8: Display Door

LCD and FIB Assembly

P

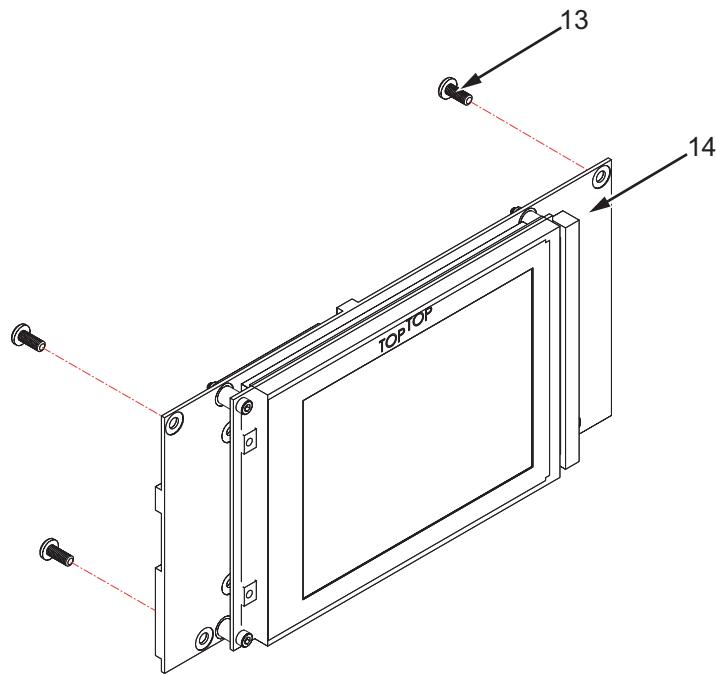


Figure 10-9: LCD and FIB

Power Supply Unit Assembly

F

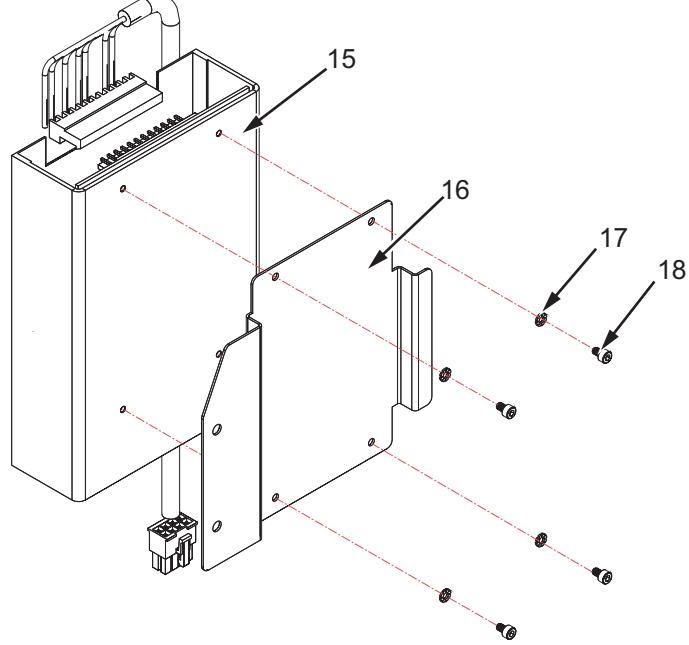


Figure 10-10: Power Supply Unit Assembly

Printer Interface Board Assembly (PIB)

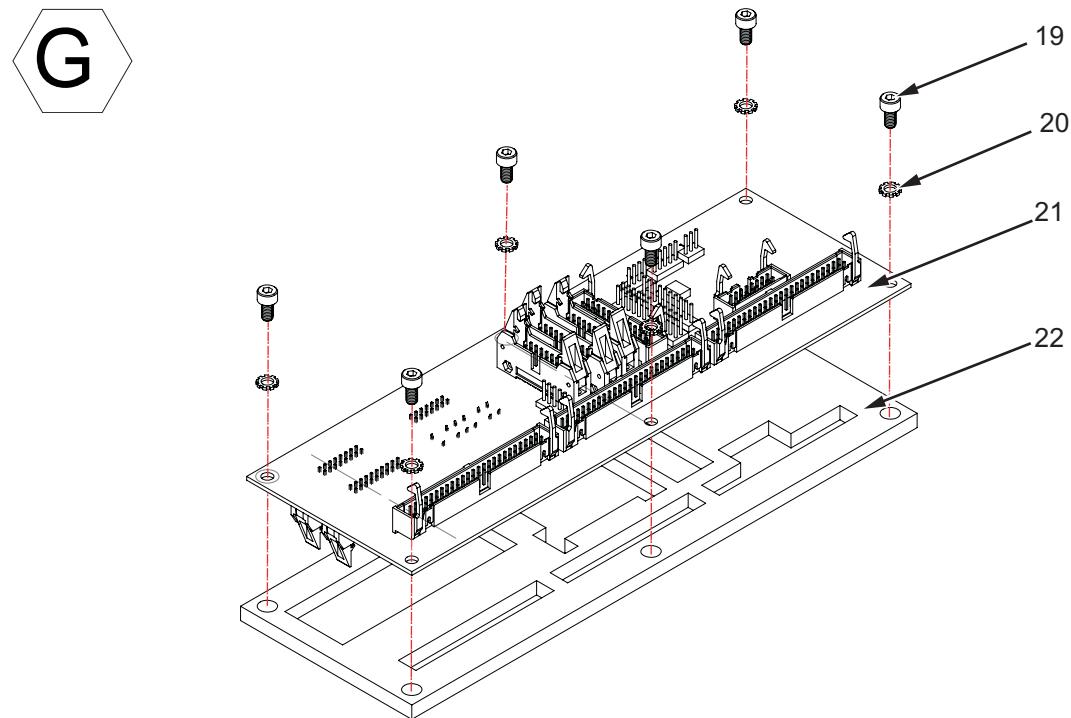


Figure 10-11: Printer Interface Board Assembly

Electronics Fan Assembly

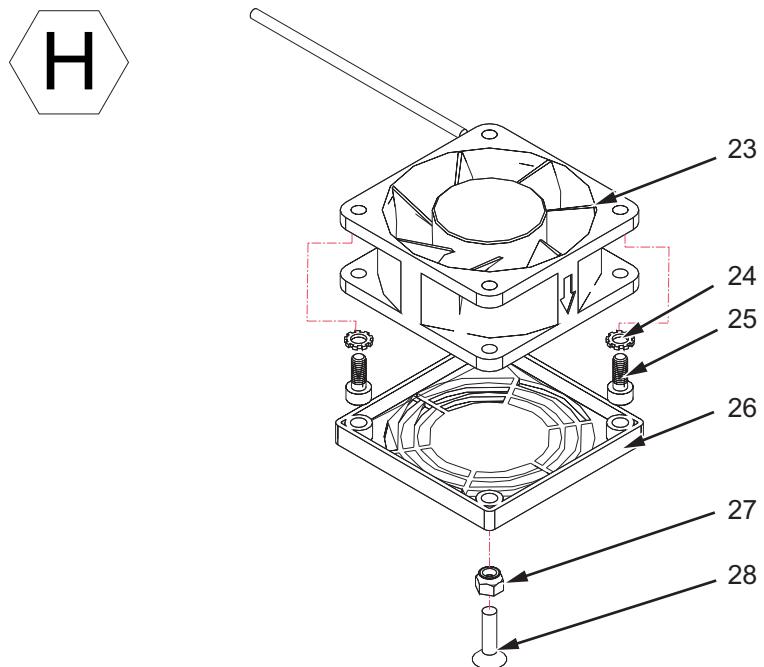


Figure 10-12: Electronics Fan Assembly

Air Pump Assembly

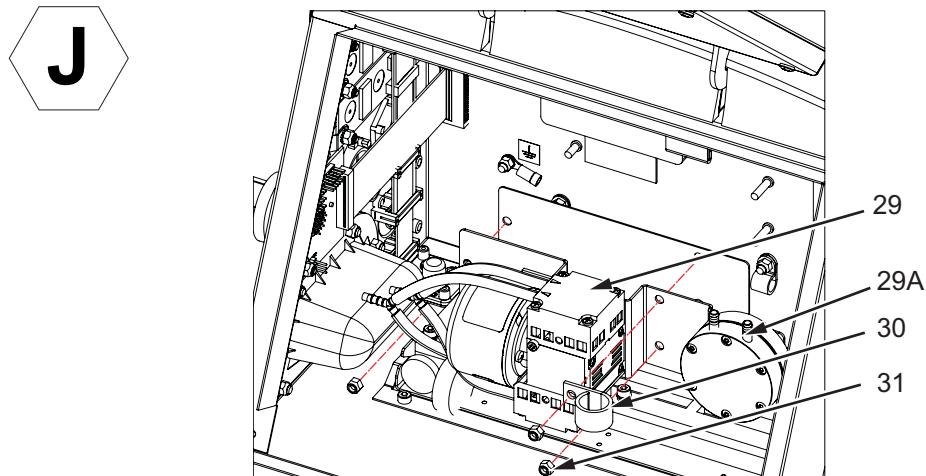


Figure 10-13: Positive Air Pump Assembly

EHT Module

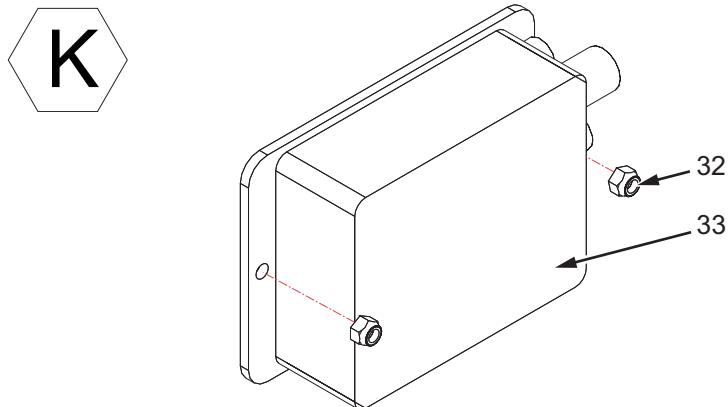


Figure 10-14: EHT Module

Connector Panel

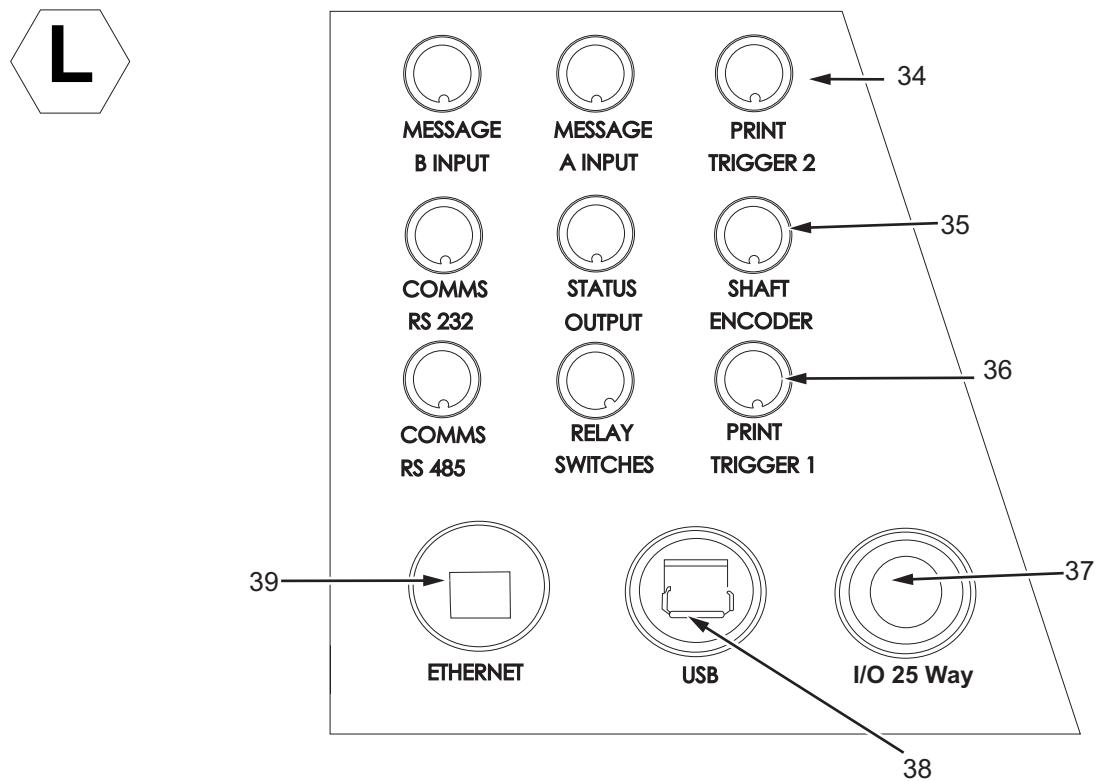


Figure 10-15: Connector Panel

PCB Assembly

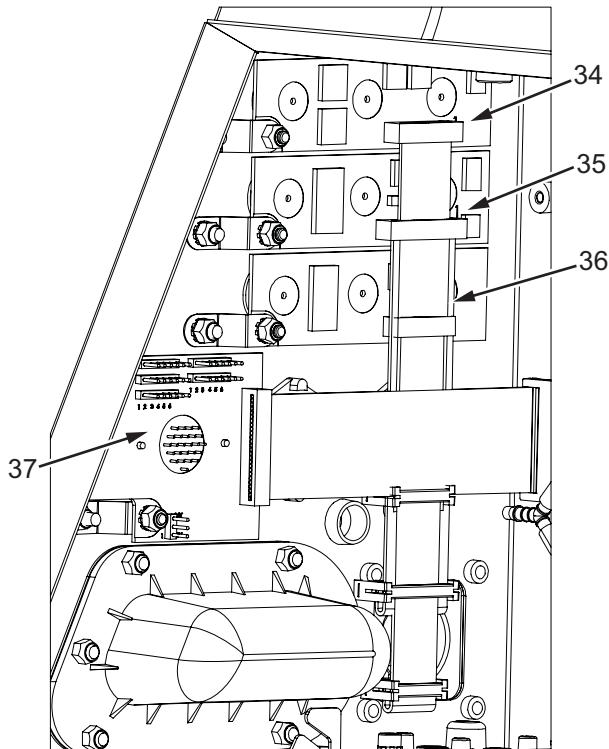


Figure 10-16: PCB 1,2,3 and 4 Assemblies

Item Number	P/N	Description	Qty
A		Electronics Compartment	
1	SP392125	Control System Board (CSB) with Back Plate	1
2	SP219041	Power Switch	1
E		Electronics Door Assembly	
3		Membrane Ground Wire	1
4		M4 Nyloc Nut	1
5		M4 ET Washer	2
6		Display Ground Wire	1
7		Display Rear Cover	1
8		Display Ribbon Connector Clamp	1

Table 10-3: Electronics Compartment

Item Number	P/N	Description	Qty
9		M4 ET Washer	2
10		M4 x 8 Cap-head Screw	2
11		M4 x 10 Cap-head Screw	1
12		K40 x 10 Pan-head Torx Screw	4
N		Display Door with Keypad (See Table 10-4 on page 10-15 for part numbers of different languages)	
P	399091	Liquid Crystal Display and Front Panel Interface Board Assembly	
13		Screw	4
14		LCD and FIB Assembly	1
F	399077	Power Supply Unit (PSU) Assembly with Mount	
15		PSU	1
16		PSU Mounting Plate	1
17		M3 ET Washer	4
18		M3 x 5 Cap-head Screw	4
G	399473	Printer Interface Board (PIB) Assembly	
19		M4 x 8 Cap-head Screw	6
20		M4 ET Washer	6
21		PIB	1
22		PIB Gasket	1
H	399079	Electronics Fan Assembly	
23		Fan, 60 mm	1
24		M4 ET Washer	2
25		M4 x 10 Cap-head Screw	2
26		Finger guard, 60 mm	1
27		M4 Nyloc Nut	2
28		M4 x 16 Counter Sunk Screw	2

Table 10-3: Electronics Compartment (Continued)

Item Number	P/N	Description	Qty
J	SP399399	Double Headed Air Pump Assembly (for single head system) (Single Head Printer)	
29A		Dampener	1
30		P-Clip	1
31		M4 Nyloc Nut	3
K	399081	EHT Module Assembly	
32		M4 Nyloc Nut	2
33		EHT Module	1
L		Connector Panel	
34	SP500096	PCB 3 Assembly	1
35	SP500097	PCB 2 Assembly	1
36	SP500095	PCB 1 Assembly	1
37	399475	PCB 4 Assembly	1
38	399084	USB Connector	1
39	399083	Ethernet Connector	1

Table 10-3: Electronics Compartment (Continued)

Display Door with Keypad in Different Languages

Part Number	Display Door with Keypad (400 Series)	Languages
399116	Display door with keypad English	English (US), English (UK and Ireland), Chinese (Simplified), English (Indian), Philippines (English)
399117	Display door with keypad European	French, German, Spanish, Portuguese (Brazilian), Italian, Dutch, Danish, Portuguese (Portugal), Swiss (German), Swiss (French), Swiss (Italian), Spanish (CALA)
399118	Display door with keypad Chinese	Chinese (Traditional)

Table 10-4: Display Door with Keypad

Part Number	Display Door with Keypad (400 Series)	Languages
399119	Display door with keypad Turkish	Norwegian, Finnish, Swedish, Turkish
399120	Display door with keypad Russian	Russian
399121	Display door with keypad Polish	Polish
399122	Display door with keypad Korean	Korean
399123	Display door with keypad Greek	Greek
399124	Display door with keypad Katakana	Japanese
399125	Display door with keypad Bulgarian	Bulgarian
399126	Display door with keypad Czech	Czech, Hungarian
399127	Display door with keypad Arabic	Arabic
399128	Display door with keypad Hebrew	Hebrew
399542	Display door with keypad Thai	Thai
399544	Display door with keypad Vietnamese	Vietnamese

Table 10-4: Display Door with Keypad

Ink Compartment

B

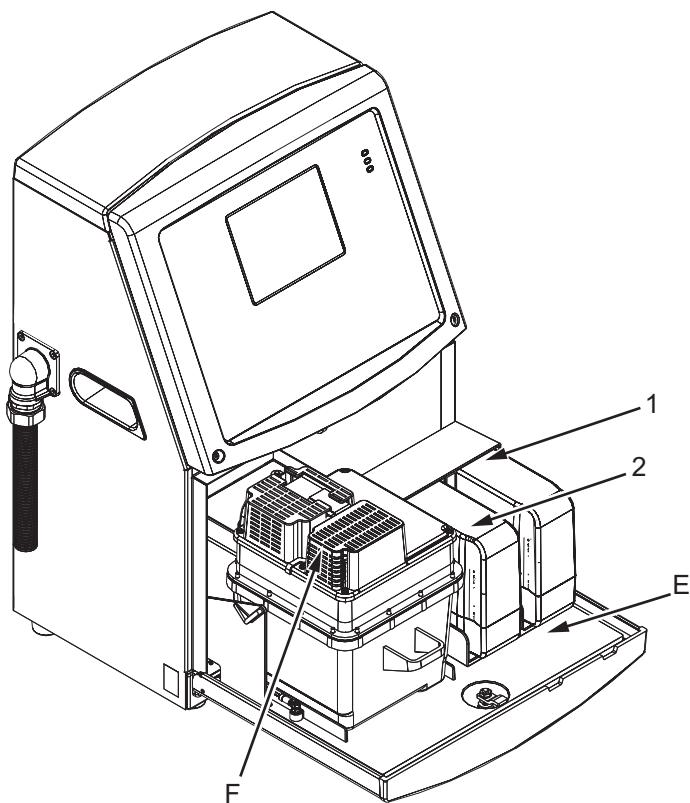


Figure 10-17: Ink System

Ink Cartridge

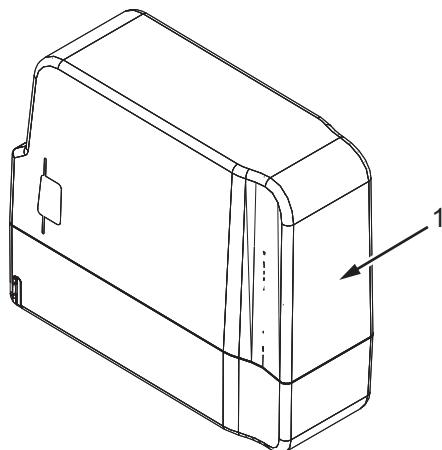


Figure 10-18: Ink Cartridge

Make-up Cartridge

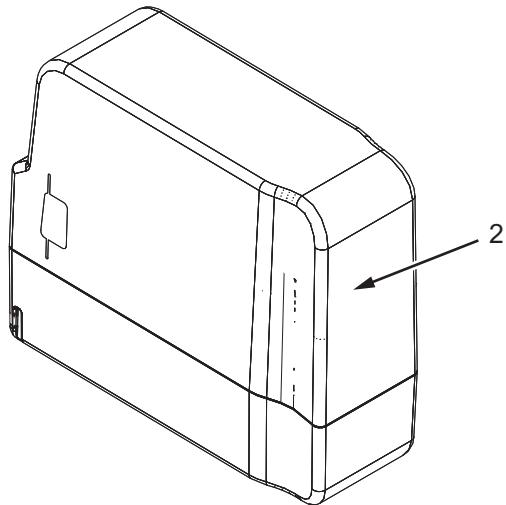


Figure 10-19: Make-up Cartridge

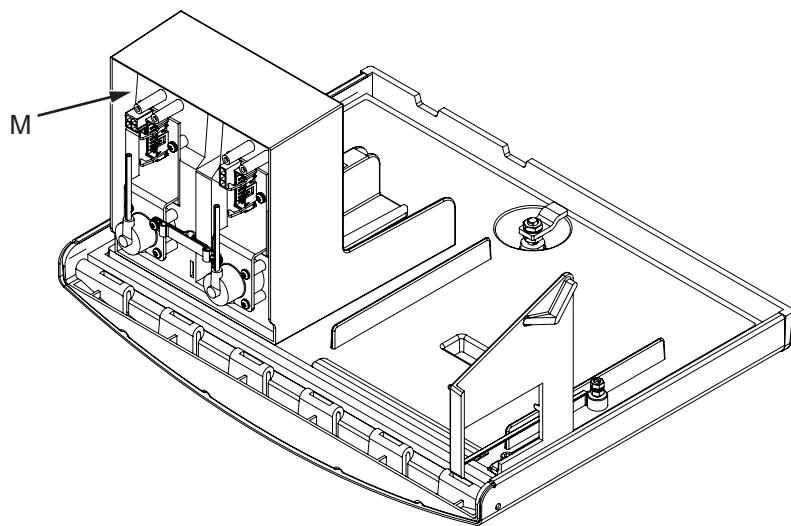


Figure 10-20: Ink Door Assembly

Septum Assembly

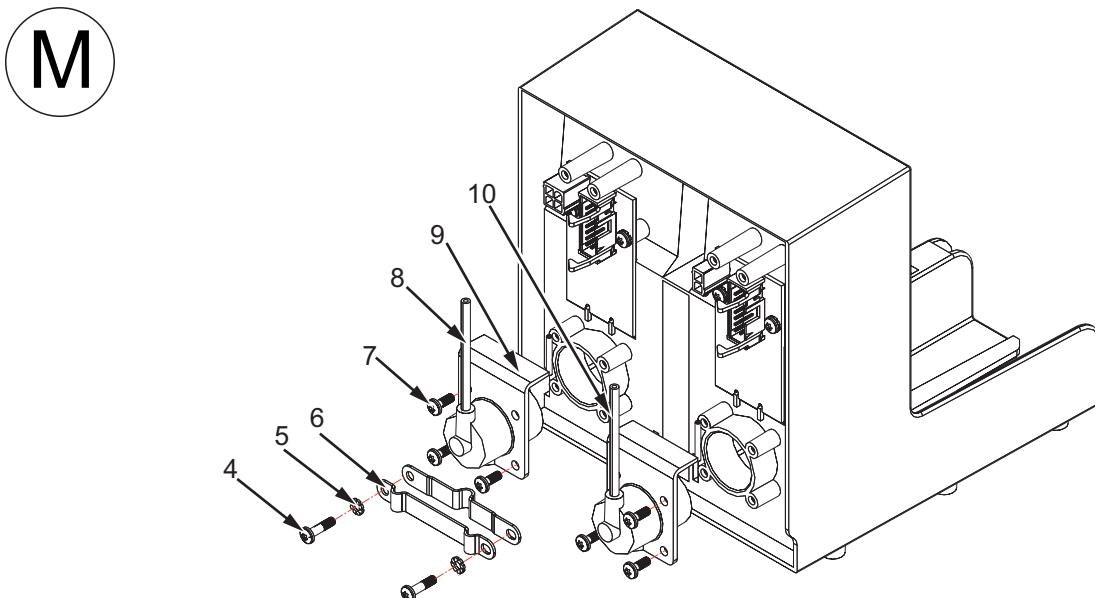


Figure 10-21: Septum Assembly

Ink Core Module Assembly

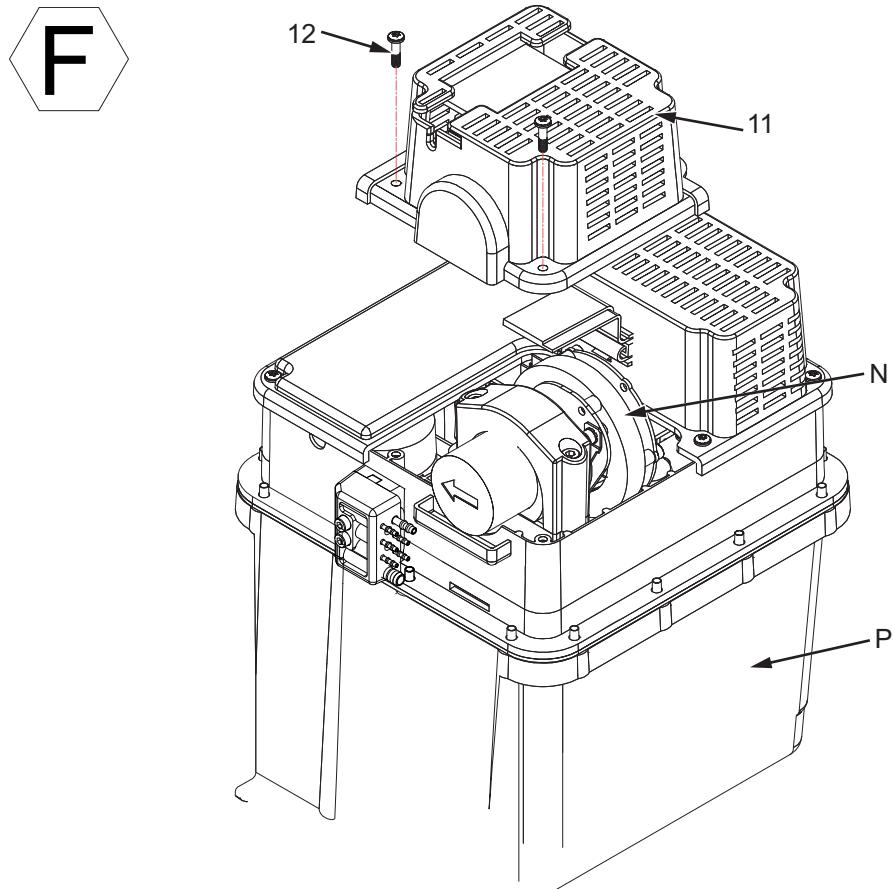


Figure 10-22: Core Module

Ink Core Pump

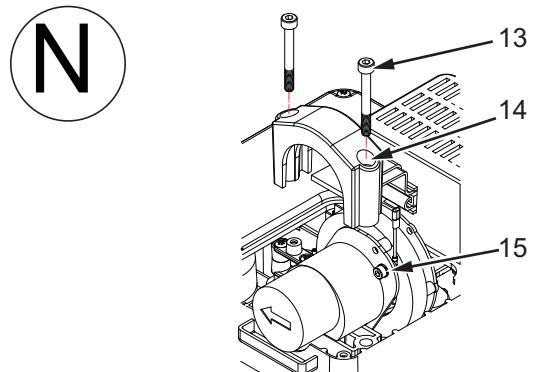


Figure 10-23: Ink Core Pump Assembly

Ink Core Without Pump

P

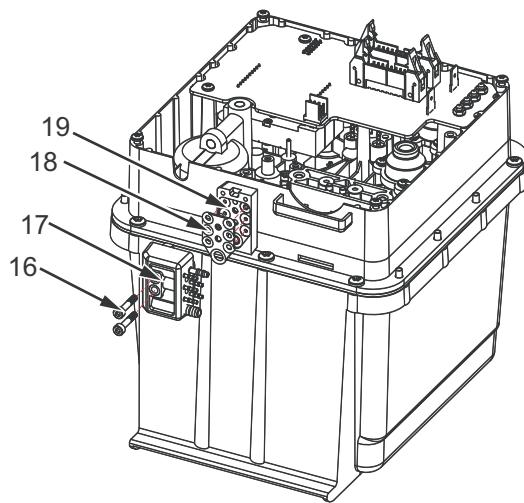
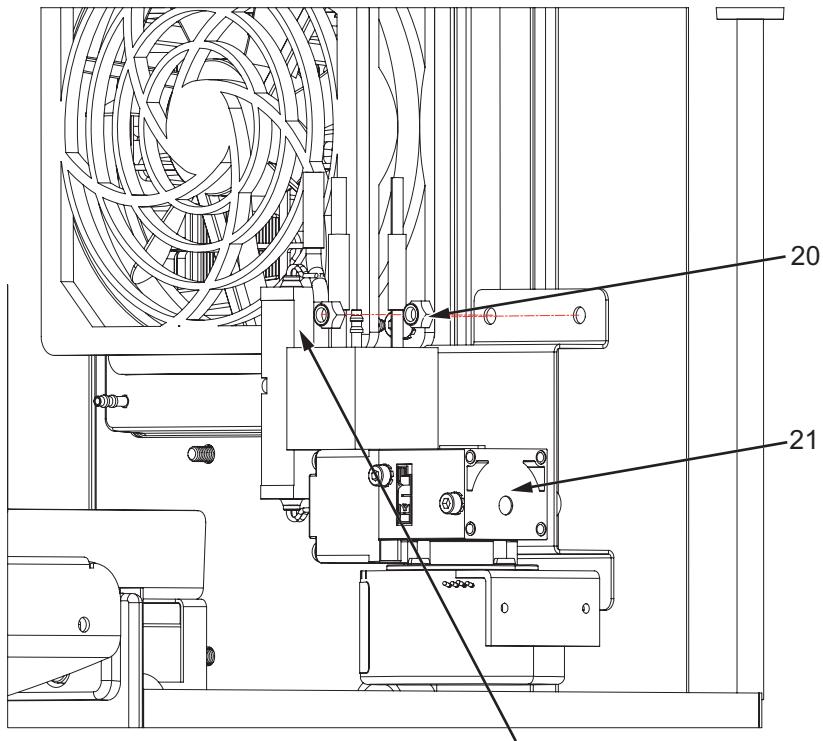


Figure 10-24: Ink Core Module Without Pump

Gutter Pump Assembly

G



22

Figure 10-25: Gutter Pump Assembly

Ink System Fan

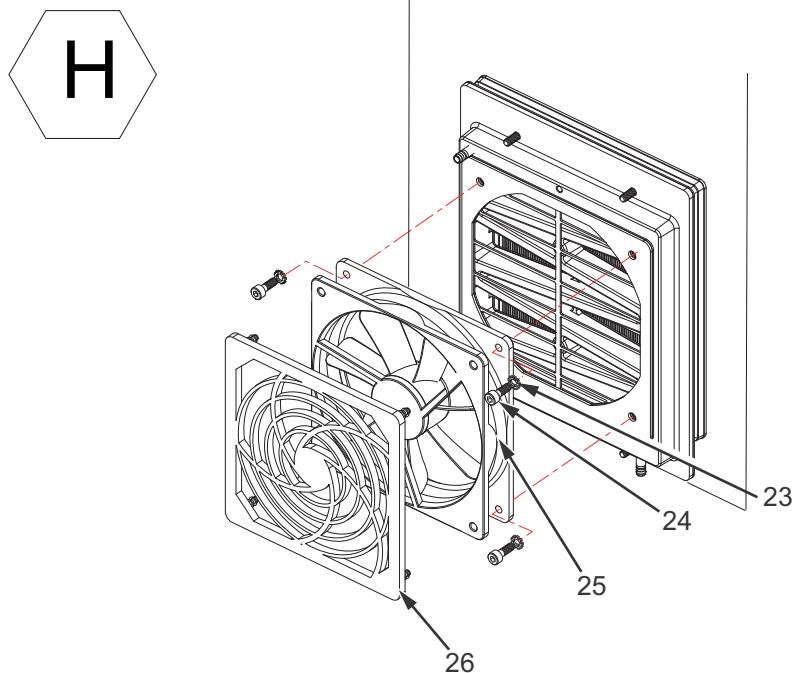


Figure 10-26: Ink System Fan Assembly

Condenser Assembly

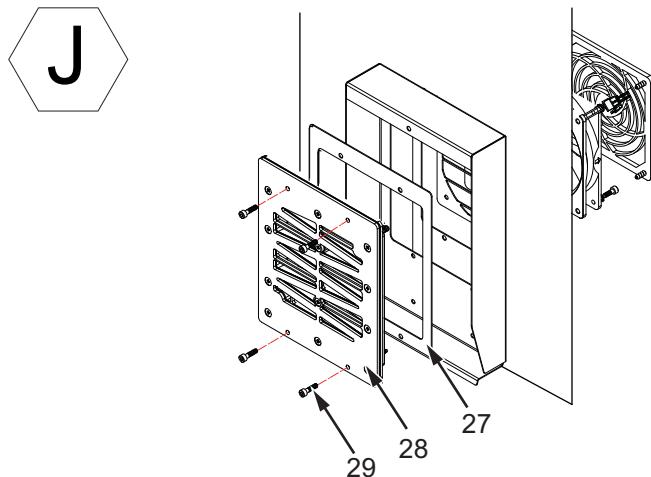


Figure 10-27: Condenser Assembly

Ink System Filter Assembly

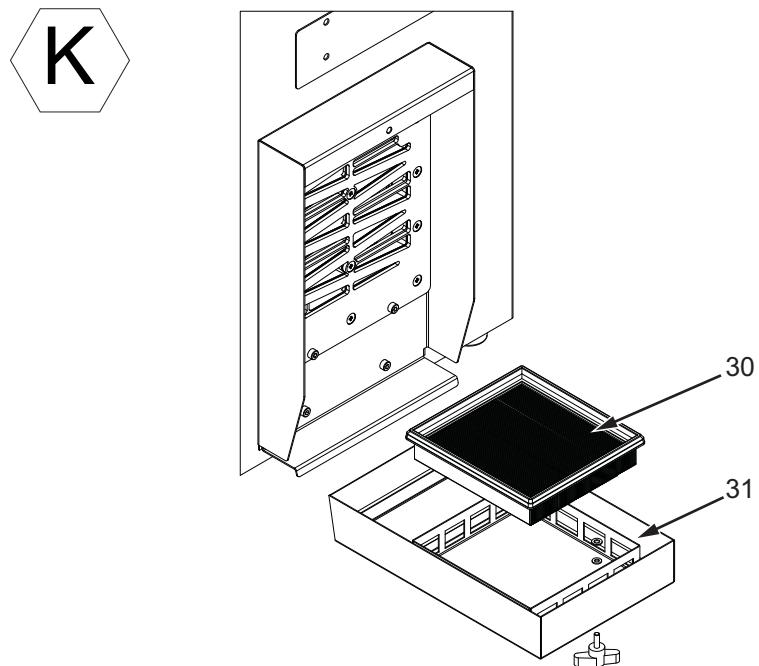


Figure 10-28: Ink System Filter Assembly - IP65

Floor Filter

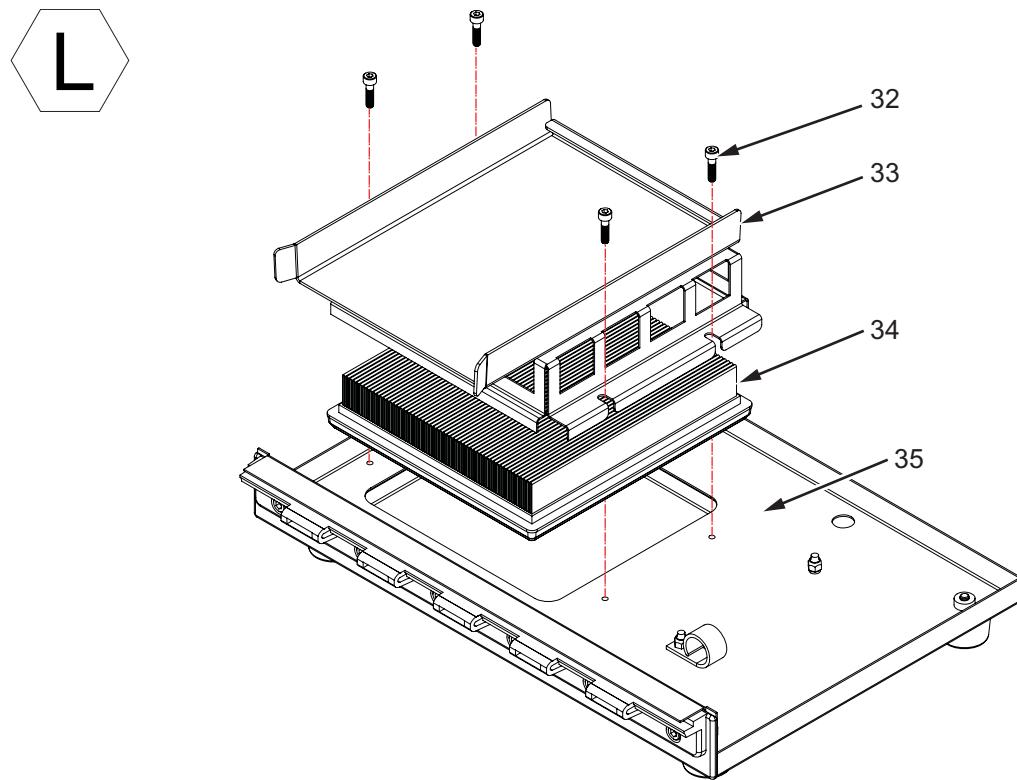


Figure 10-29: Floor Filter IP65

Cabinet Foot

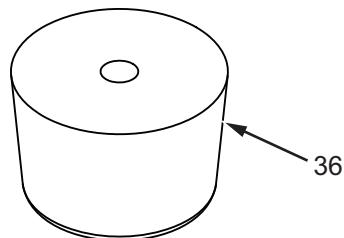


Figure 10-30: Cabinet Foot

Item Number	P/N	Description	Qty
B		Ink Compartment	
1		Ink Cartridge	1

Table 10-5: Ink Compartment

Item Number	P/N	Description	Qty
2		Make-up Cartridge	1
E	399472	Ink Door Assembly	
	399585	Ink Door Assembly FG	
3*		Hinge Pin	1
M	399073	Septum Assembly	
	399391	Septum Assembly Kit FG	
4		K30 x 12 Pan-head Torx Screw	2
5		M3 ET Washer	2
6		Tube and Ribbon Cable Clamp	1
7		K30 x 8 Pan-head Torx Screw	6
8		Black Stripe Tube (Ink System)	1
9		Septum	2
10		Green Stripe Tube (Make-up System)	1
F	SP392128	Ink Core with Pump	
	395964	Ink Core with Pump (UHS)	
	SP392129	Ink Core with pump FG	
	395966	Ink Core with pump FG (UHS)	
11		Ink Core Pump Cover	1
12		K30 x 12 Pan-head Torx Screw	2
N	399076	Ink Core Pump	
	399384	Ink Core Pump FG	
13		M4 x 35 Cap-head Screw	2
14		Saddle Clamp	1
15		Ink Core Pump	1
P	SP392169	Ink Core without Pump	
	395965	Ink Core without Pump (UHS)	

Table 10-5: Ink Compartment

Item Number	P/N	Description	Qty
	SP392170	Ink Core without Pump FG	
	395967	Ink Core without Pump FG (UHS)	
16		M3 x 7 Manifold Screw	2
17		Ink Core Manifold (Male)	1
18		Ink Core Manifold Gasket	1
19		Ink Core Manifold (Female)	1
G	399171	Gutter Pump Assembly	
	399393	Gutter Pump Assembly FG	
20		M4 Nyloc Nut	2
21		Gutter Pump	1
22		3 Way Valve	1
H	399080	Ink System Fan Assembly	
23		M4 ET Washer	4
24		M4 x 12 Cap-head Screw	4
25		Fan	1
26		Fan Guard	1
J	399350	Condenser Assembly	
27		Condenser Body Gasket	1
28		Condenser Assembly	1
29		M4 x 16 Cap-head Screw	4
K		Ink System Filter Assembly	
30	SP234502	Filter Element	1
31	395763	Filter Cover	1
L		Floor Filter Assembly	
32		M4 x 16 Cap-head Screw	4
33		Ink Core Support	1

Table 10-5: Ink Compartment

Item Number	P/N	Description	Qty
34	SP234502	Filter Element	1
35		Filter Cover	1
	392004	Cabinet Feet Kit	
36	234500	Cabinet Foot	4

Table 10-5: Ink Compartment

*- Items are not shown in the figure.

Printhead

D

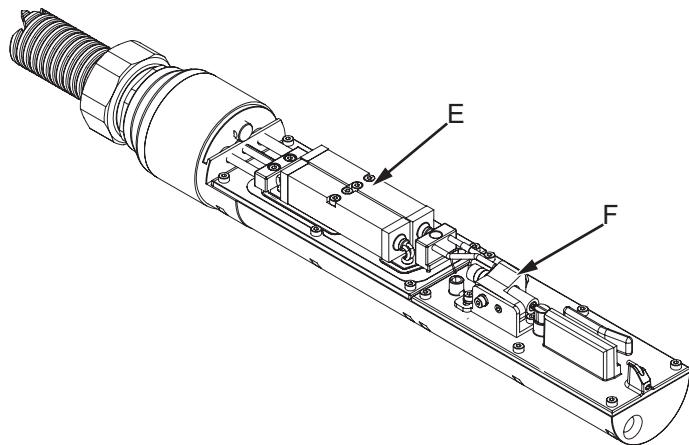


Figure 10-31: Printhead

D

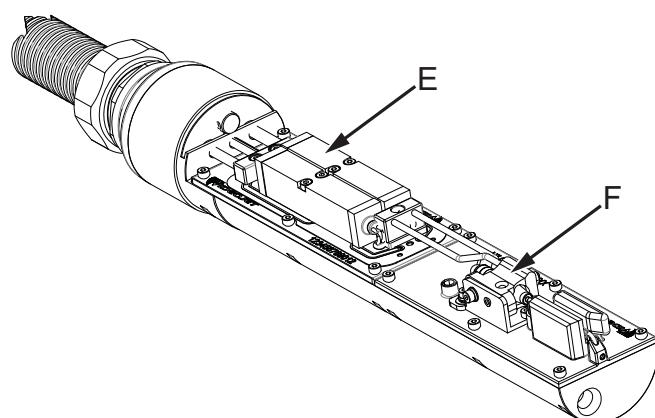


Figure 10-32: Printhead (UHS)

D

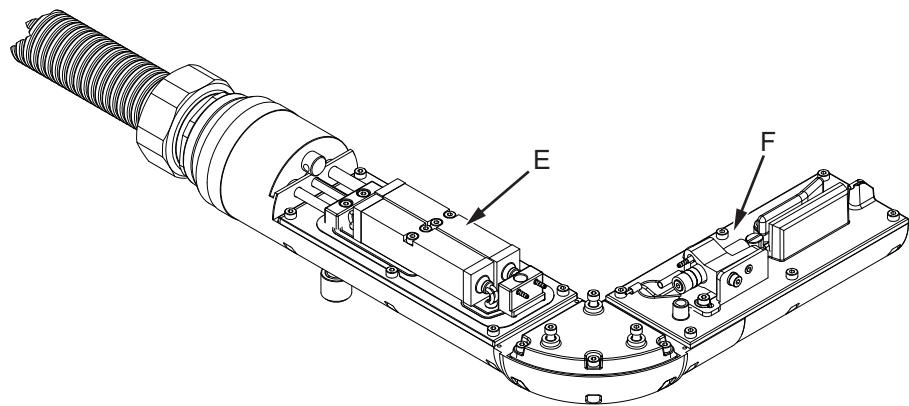


Figure 10-33: 90 Degree Printhead

Printhead Valve Module

E

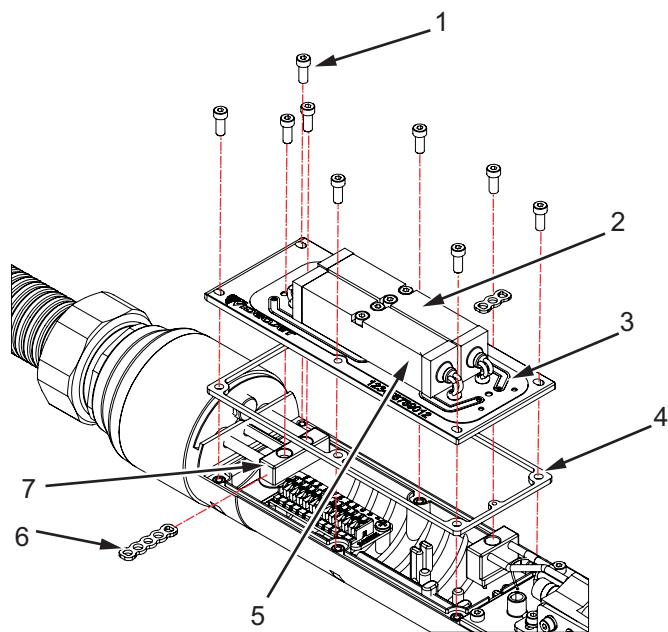


Figure 10-34: Printhead Valve Module

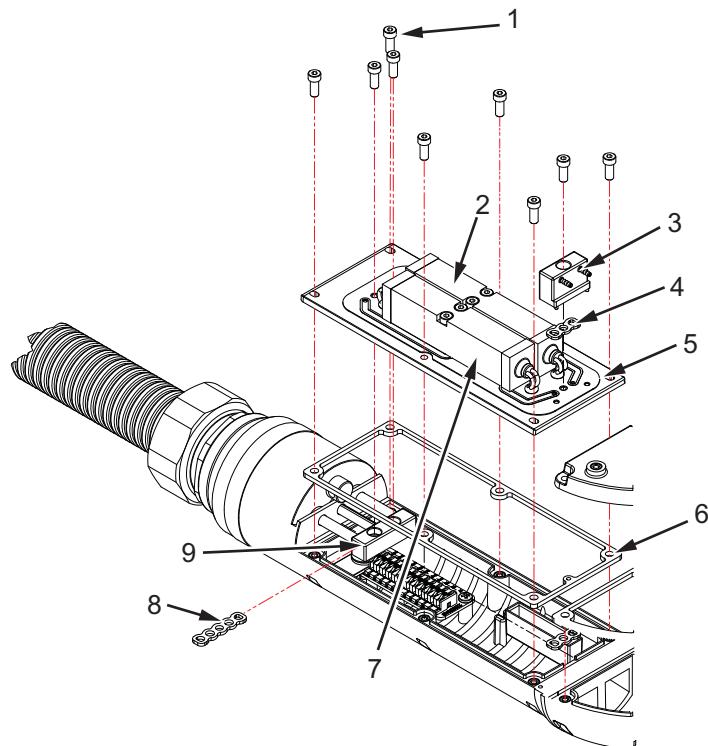


Figure 10-35: 90 Degree Printhead Valve Module

Printhead Engine

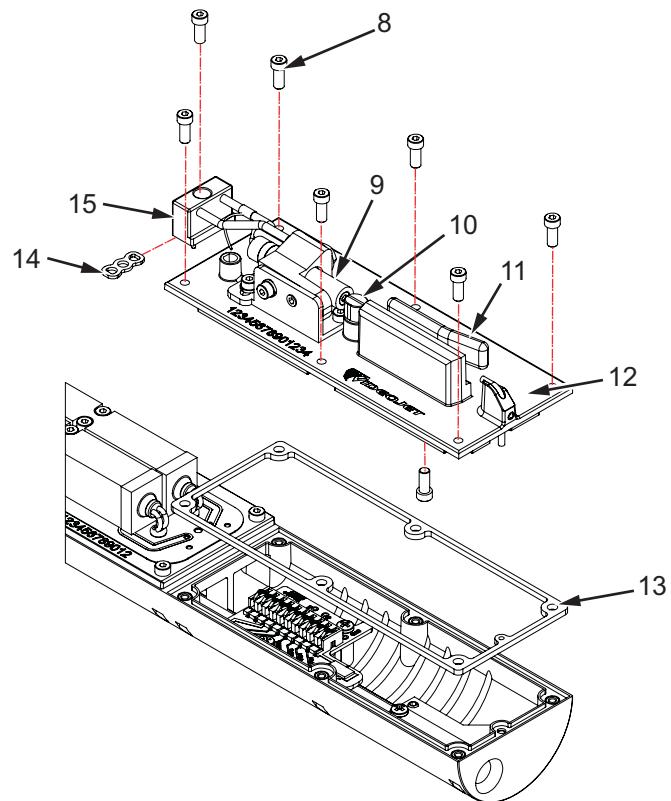
F

Figure 10-36: Printhead Engine

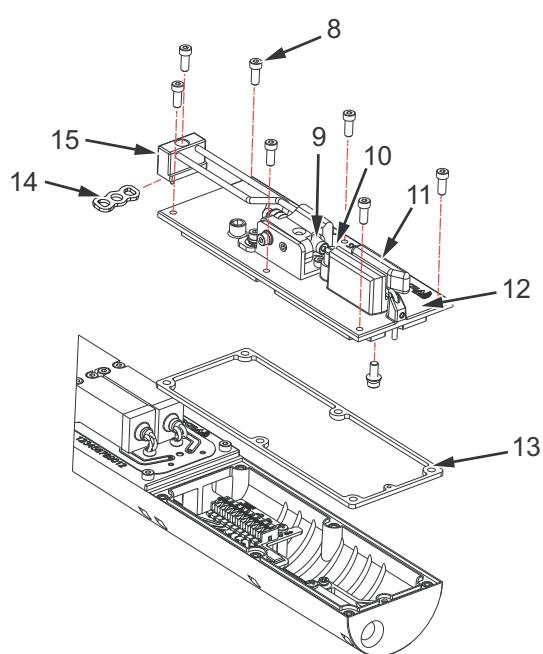
F

Figure 10-37: Printhead Engine (UHS)

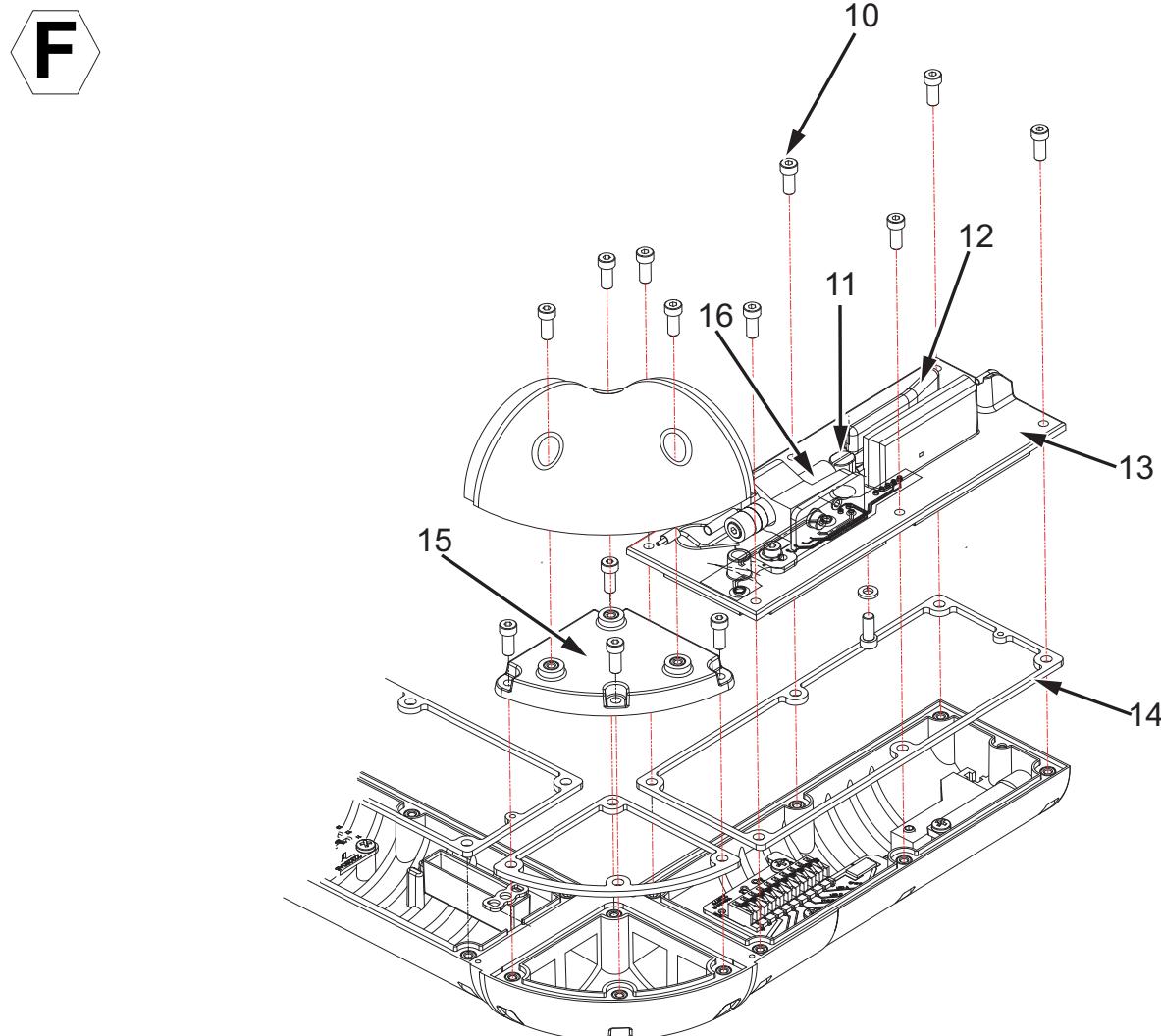


Figure 10-38: 90 Degree Printhead Engine

Printhead

Note: Refer to Table 10-7 on page 10-34 for information on 90 degrees printhead

Item Number	P/N	Description	Qty
D		Printhead	
E	399181	Printhead Valve Module	
	399386	Printhead Valve Module FG	

Table 10-6: Printhead Assembly

Item Number	P/N	Description	Qty
1		M2 x 6 Cap-head Screw	9
2		Gutter Valve	1
3		Printhead Valve Module Deck	1
4	Refer to Item 16	Printhead Valve Module Gasket	1
5		Feed Valve	1
6	Refer to Item 16	Rear Manifold Gasket	1
7		3 Way Manifold Assembly (Rear Tubing Manifold)	1
F	395916	Printhead Engine UHS (50 micron)	
	399422	Printhead Engine (60 micron)	
	399180	Printhead Engine (70 micron)	
	395973	Printhead Engine FG UHS (50 micron)	
	399586	Printhead Engine FG (60 micron)	
	399385	Printhead Engine FG (70 micron)	
8		M2 x 6 Cap-head Screw	8
9		Nozzle Assembly	1
10		Charge Electrode	1
11		Deflector Plate	1
12		Printhead Engine Deck	1
13	Refer to Item 16	Printhead Engine Gasket	1
14	Refer to Item 16	Front Tubing Manifold Gasket	1
15		2 Way Manifold Assembly (Front Tubing Manifold)	1
16	399336	Printhead Gasket Kit	
		Gasket, Printhead	10
		Gasket, 3 way Manifold	10
		Gasket, 2 way Manifold	10
*		Connection Manifold Gasket	10

Table 10-6: Printhead Assembly

Item Number	P/N	Description	Qty
*		4.47 x 1.78 O-ring	10

Table 10-6: Printhead Assembly

90 Degree Printhead

Item Number	P/N	Description	Qty
D		Printhead	
E	399181	Printhead Valve Module	
	399386	Printhead Valve Module FG	
1		M2 x 6 Cap-head Screw	9
2		Gutter Valve	1
3		2 Way Manifold Assembly (Front Tubing Manifold)	1
4	Refer to Item 17	Front Tubing Manifold Gasket	1
5		Printhead Valve Module Deck	1
6	Refer to Item 17	Printhead Valve Module Gasket	1
7		Feed Valve	1
8	Refer to Item 17	Rear Manifold Gasket	1
9		3 Way Manifold Assembly (Rear Tubing Manifold)	1
F	SP399621	90 Degree Printhead Engine (60 micron)	
	SP399622	90 Degree Printhead Engine (70 micron)	
	SP399658	90 Degree Printhead Engine FG (60 micron)	
	SP399659	90 Degree Printhead Engine FG (70 micron)	
10		M2 x 6 Cap-head Screw	14
11		Charge Electrode	1
12		Deflector Plate	1

Table 10-7: 90 Degree Printhead Assembly

Item Number	P/N	Description	Qty
13		Printhead Engine Deck	1
14	Refer to Item 17	Printhead Engine Gasket	1
15		Corner Chassis Cap-Insert Assembly	1
16		Nozzle Assembly	1
17	399660	90 Degree Printhead Gasket Kit	
		Gasket, Printhead	10
		Gasket, 3 way Manifold	10
		Gasket, 2 way Manifold	10
*		Connection Manifold Gasket	10
*		4.47 x 1.78 O-ring	10
		Gasket, Corner	10

Table 10-7: 90 Degree Printhead Assembly

Cables

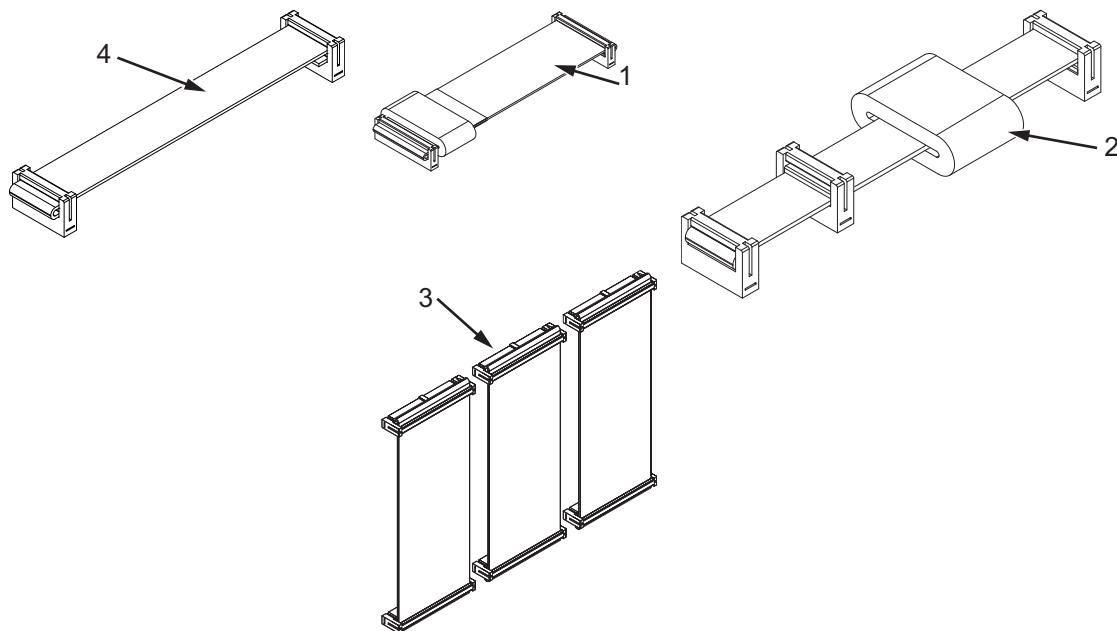


Figure 10-39: Cables