Illustrated Parts List

10

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 shows the symbols used to indicate the different levels of main assemblies in a printer, and the sub assemblies under the main assembly.
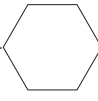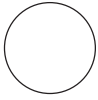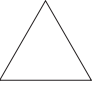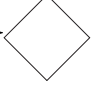
Assembly	Symbol
Main Assembly	
Sub Assembly 1	
Sub Assembly 2	
Sub Assembly 3	
Sub Assembly 4	

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.

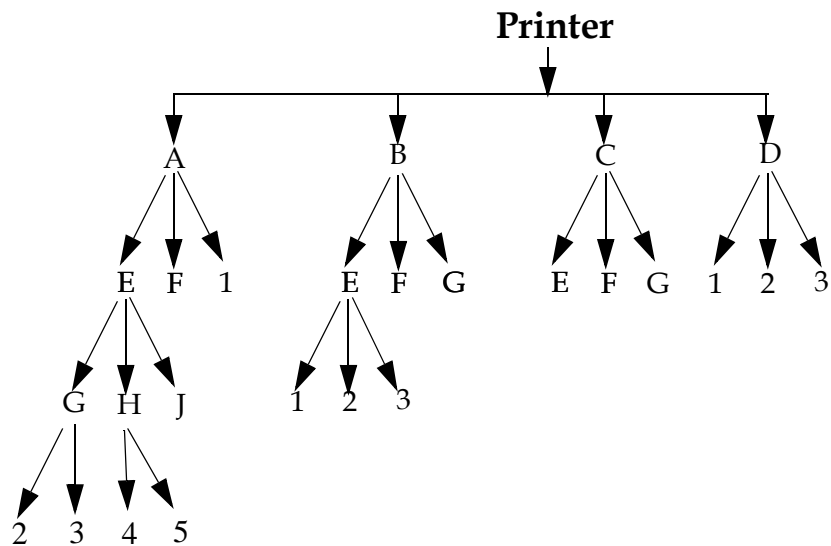*Note:* *The numbers assigned to main assemblies can be used only for one time.*

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
A			
3			
E			
4			
H			
5			
6			
J			
7			
8			

Main Assembly → A

Subassembly 1 → E

Subassembly 2 → H

Parts under the Subassembly **OR** Stand-alone Part → 6

Figure 10-2: Representation of Subassemblies 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.

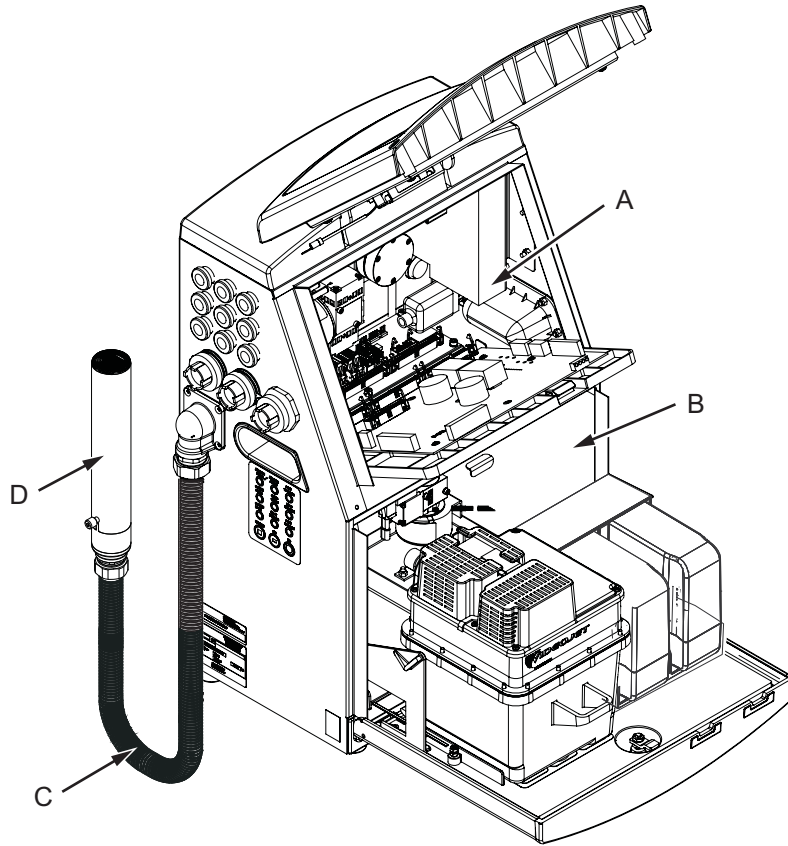*Note: This item can be ordered separately.*

Videojet 1660 Printer

Figure 10-3: Main Parts of the Printer

Table 10-2 shows the subassemblies of the printer.

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

Table 10-2: Videojet 1660 Printer Assemblies
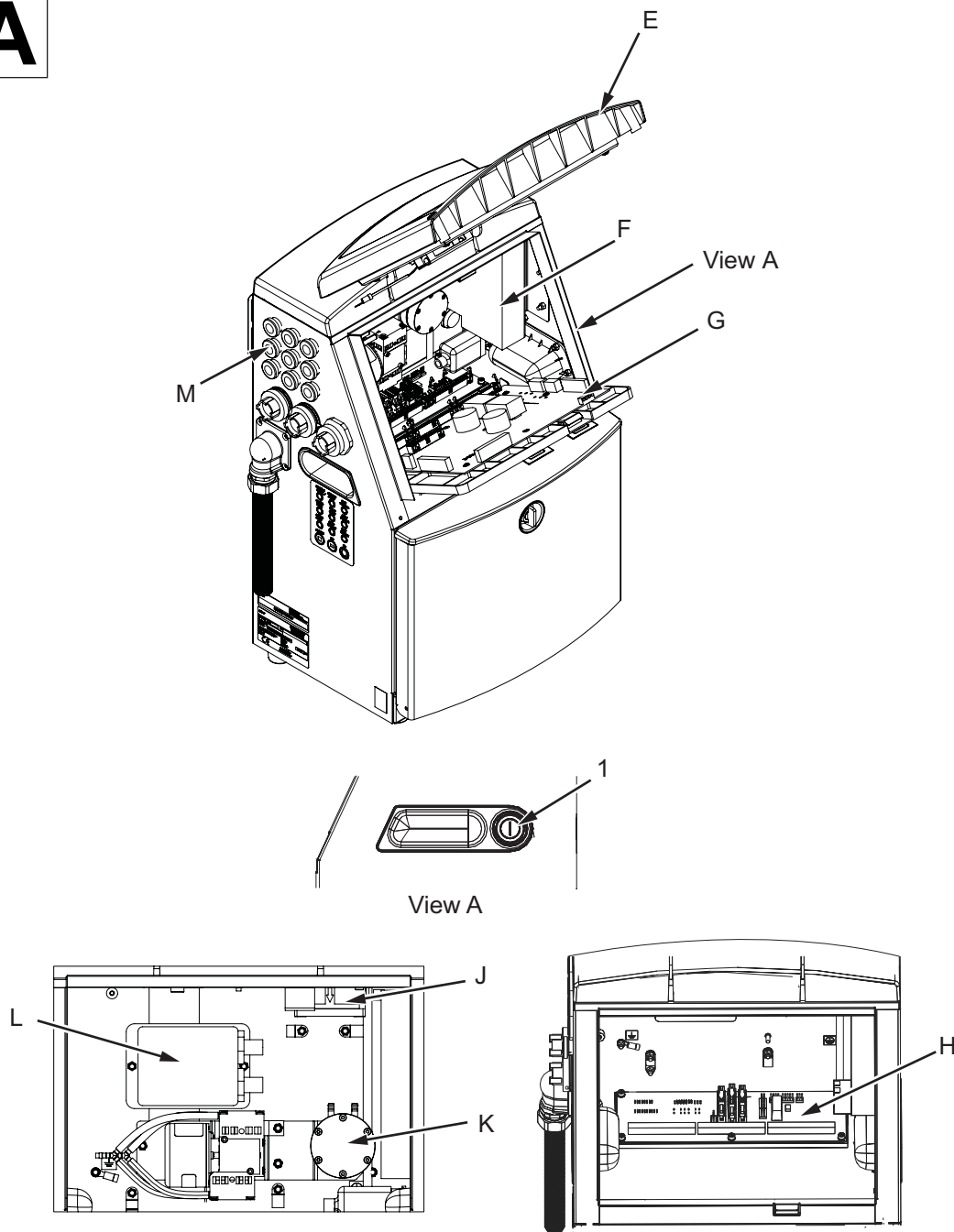
Electronics Compartment

Figure 10-4: Electronics Compartment
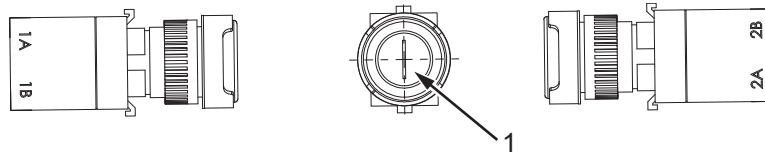
Power Switch
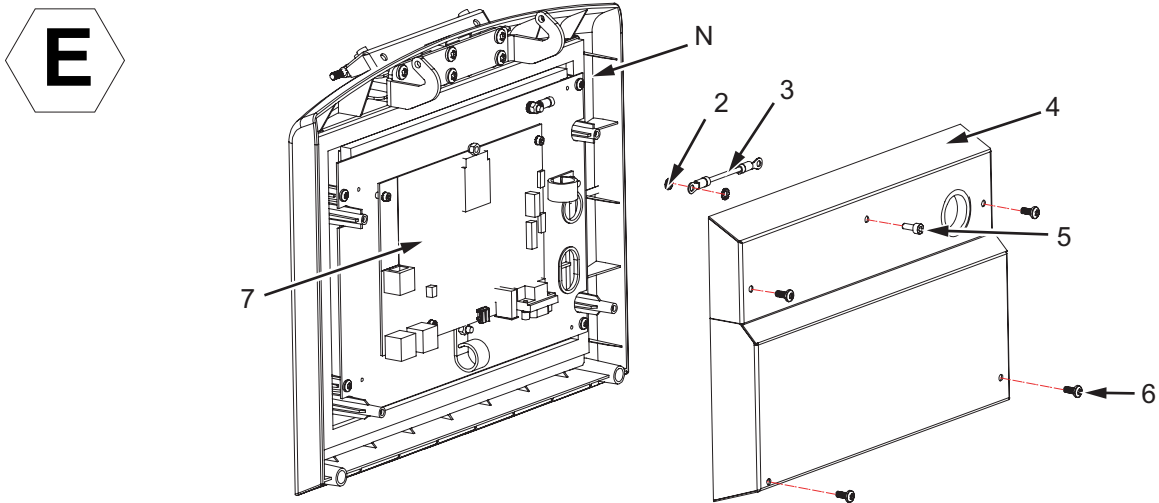

Figure 10-5: Power Switch

Electronics Door Assembly

Figure 10-6: Electronics Door Assembly
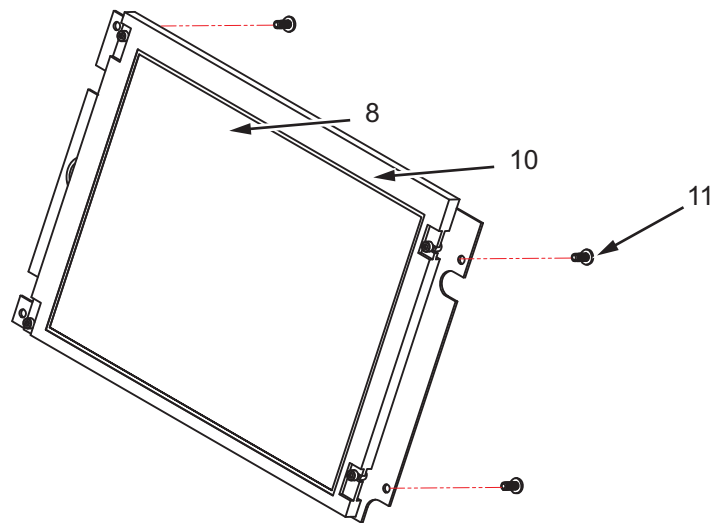
Retrofit Touch Screen

Figure 10-7: LCD and FIB
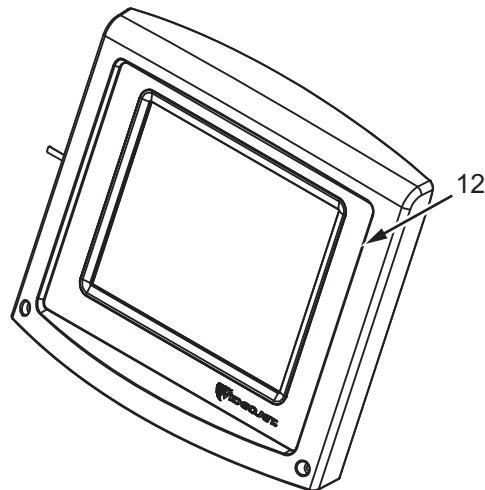
Display Door

Figure 10-8: Display Door

Power Supply Unit Assembly
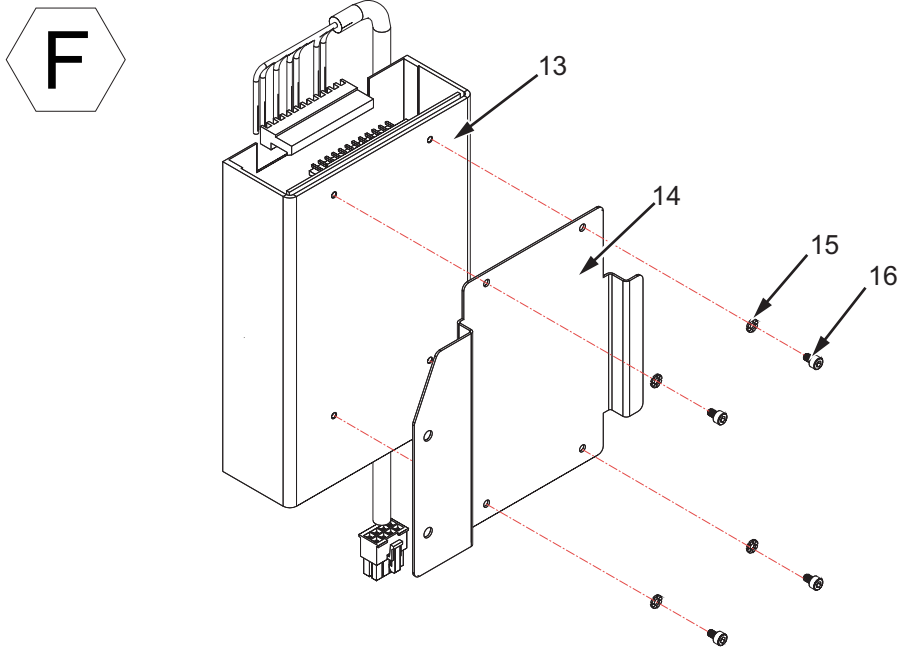

Figure 10-9: Power Supply Unit Assembly

Control System Board (CSB) with Back Plate
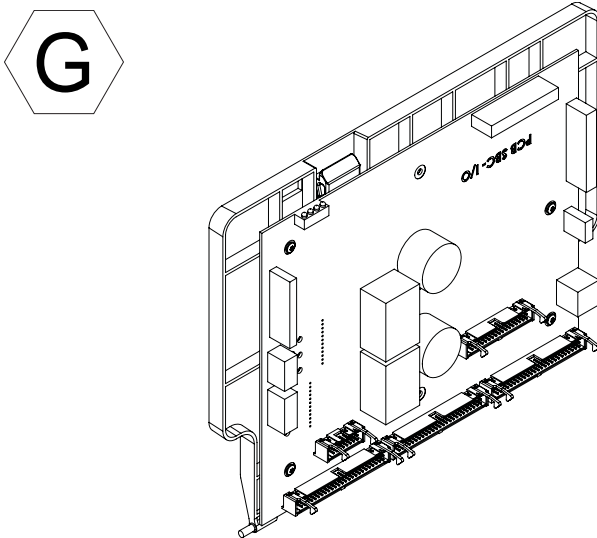
Figure 10-10: Control System Board Assembly with Back Plate (CSB 4)
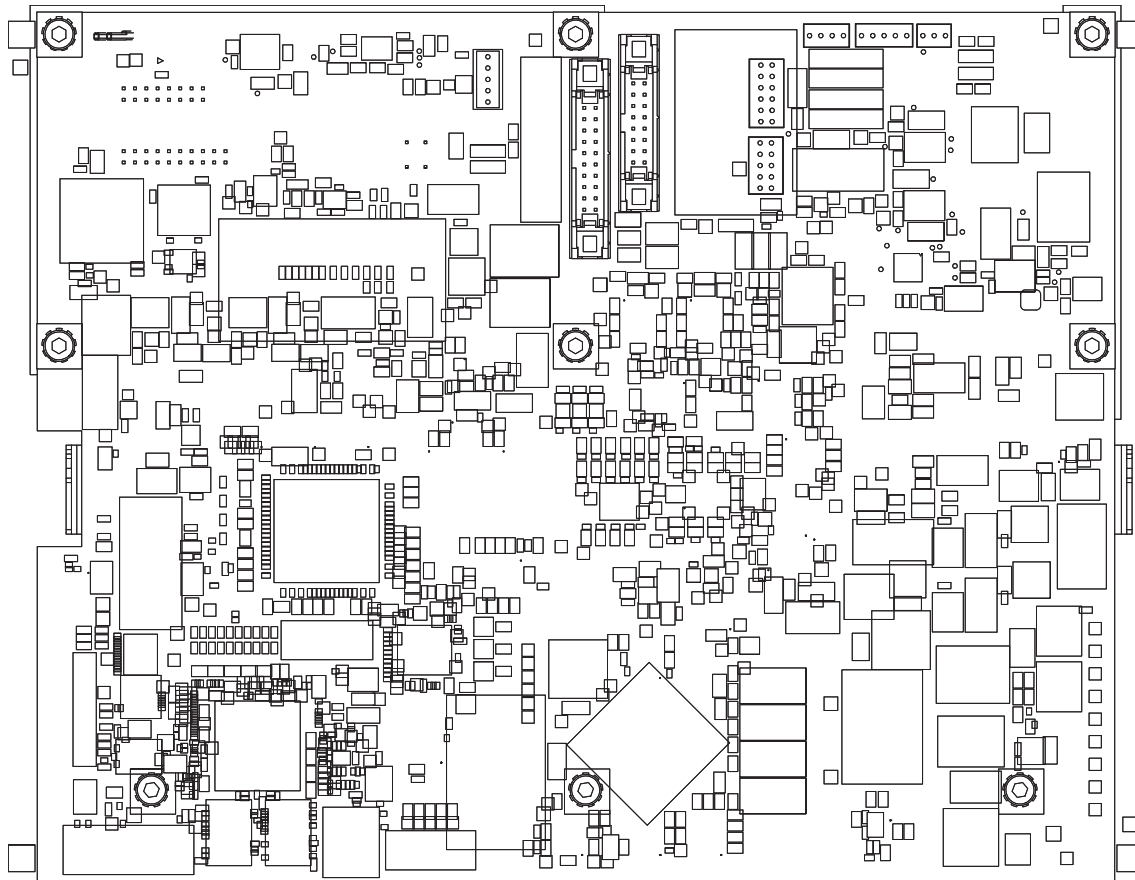
Figure 10-11: Control System Board (CSB 5/PIB)
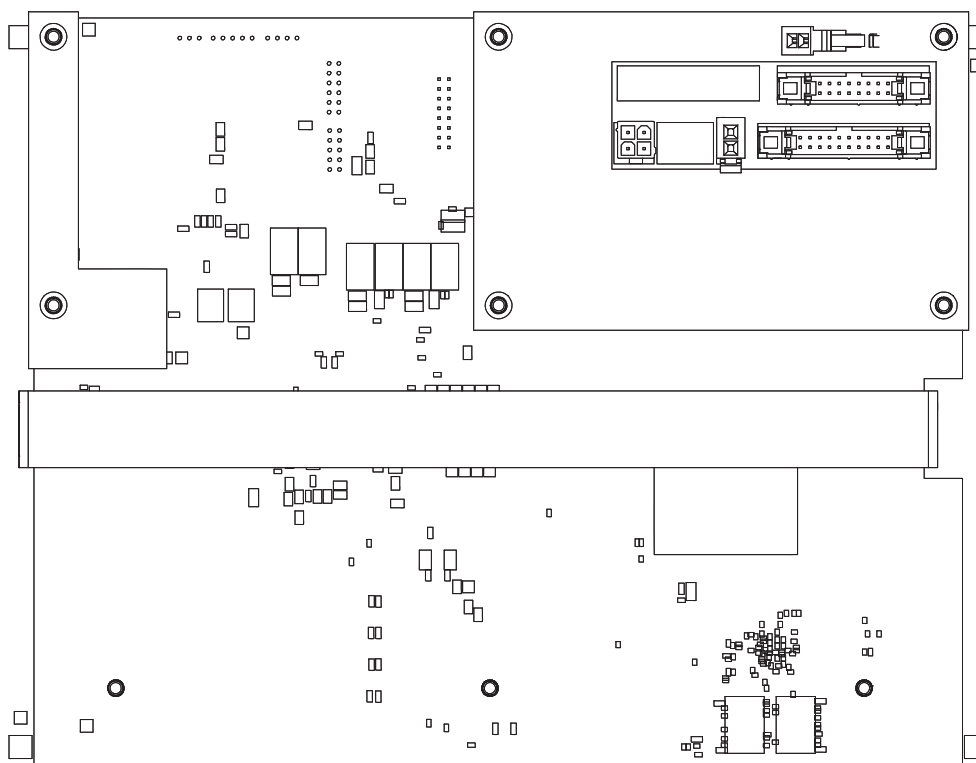
Figure 10-12: Control System Board (CSB 5/PIB) - Rear View

Printer Interface Board Assembly (PIB) - For Separate PIB Only
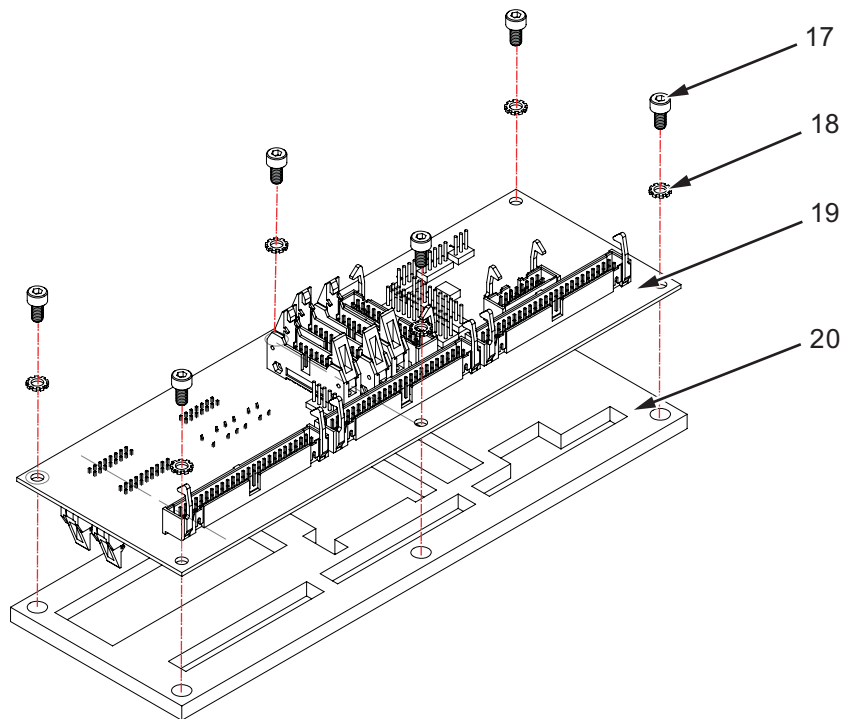
Figure 10-13: Printer Interface Board Assembly

Electronics Fan Assembly
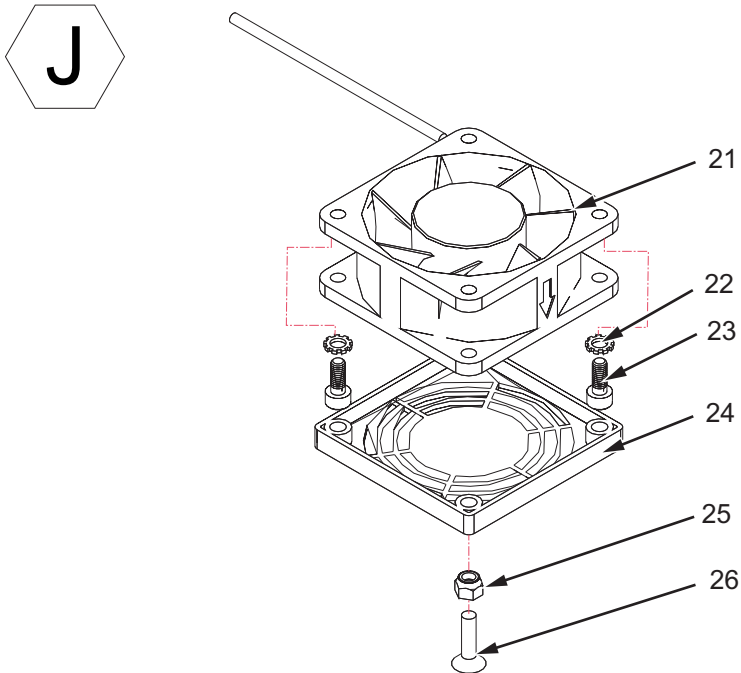
Figure 10-14: Electronics Fan Assembly

Air Pump Assembly
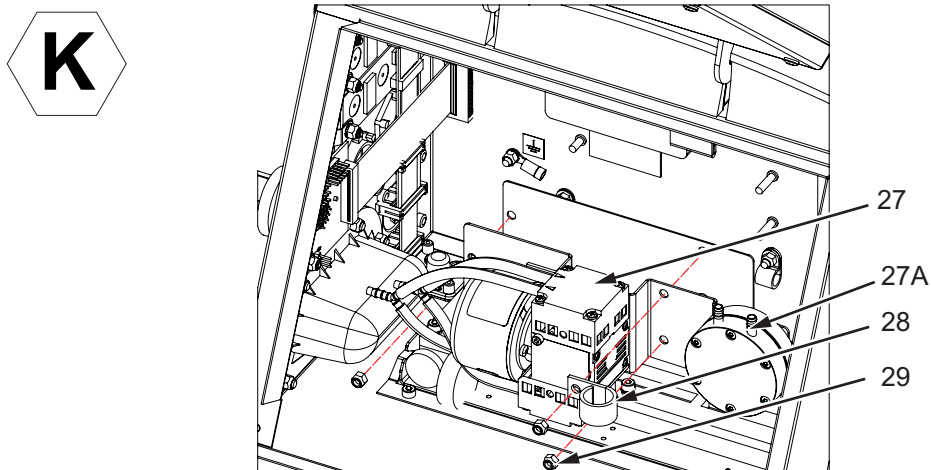
Figure 10-15: Positive Air Pump Assembly

EHT/HV Module
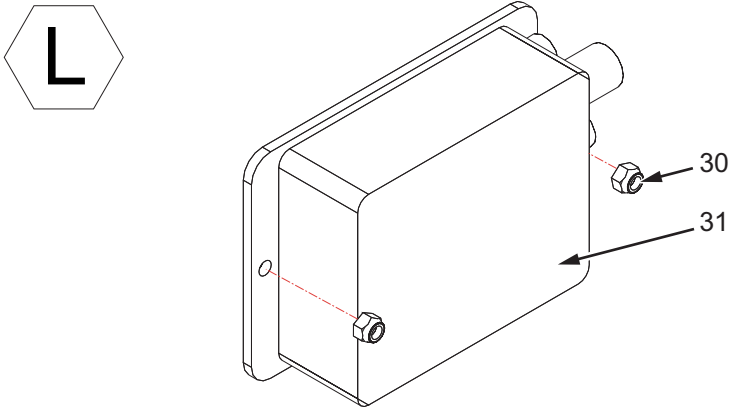
Figure 10-16: EHT/HV Module

Connector Panel
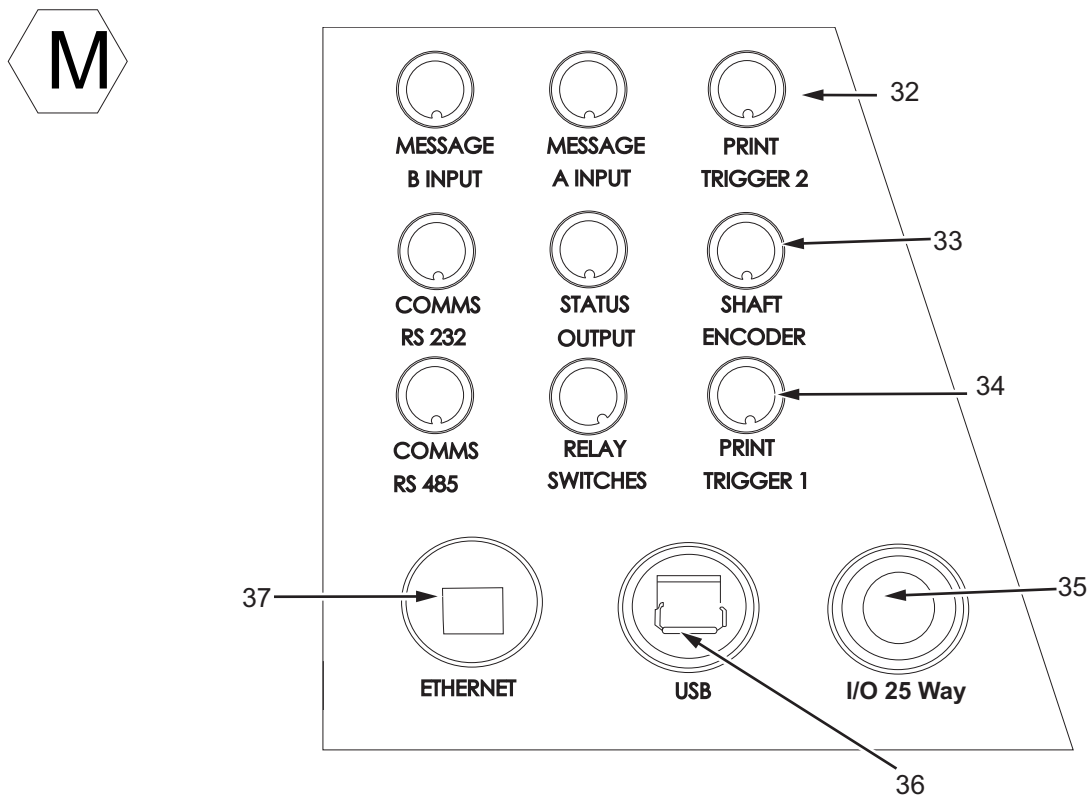
Figure 10-17: Connector Panel

PCB Assembly
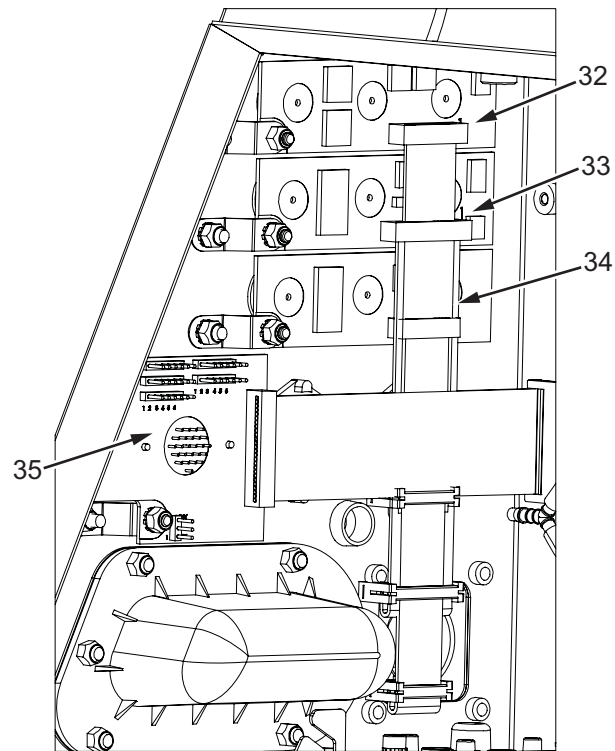
Figure 10-18: PCB 1,2,3 and 4 Assemblies

| Item Number	P/N	Description	Qty
A		**Electronics Compartment**	
1	SP219041	**Power Switch**	1
E		**Electronics Door Assembly**	
N	395795	**RETROFIT, TOUCH SCREEN**	
2		**M4 ET Washer**	2
3		**Display Ground Wire**	1
4		**Display Rear Cover**	1
5		**M4 x 10 Cap-head Screw**	1
6		**K40 x 10 Pan-head Torx Screw**	4
7	395791	**CLARiTY PCB (FIB) Spare**	

Table 3: Electronics Compartment

Item Number	P/N	Description	Qty
8	395790	Touch Screen (LCD) Spare	
9*	395893	SD CARD Spare	
10		LCD and FIB Assembly	1
11		Screw	4
12	395889	Display Door Surround Spare	
F	395897	Power Supply Unit (PSU) Assembly with Mount	
13		PSU	1
14		PSU Mounting Plate	1
15		M3 ET Washer	4
16		M3 x 5 Cap-head Screw	4
G	397556	Control System Board (CSB) with Back Plate	1
	SP392439	CSB/PIB Combined	1
H	399473	Printer Interface Board (PIB) Assembly (For Separate PIB Only)	
17		M4 x 8 Cap-head Screw	6
18		M4 ET Washer	6
19		PIB	1
20		PIB Gasket	1
J	399079	Electronics Fan Assembly	
21		Fan, 60 mm	1
22		M4 ET Washer	2
23		M4 x 10 Cap-head Screw	2
24		Finger guard, 60 mm	1
25		M4 Nyloc Nut	2
26		M4 x 16 Counter Sunk Screw	2
K	SP399399	Double Headed Air Pump Assembly (for single head system (Single Head Printer)	

Table 3: Electronics Compartment (Continued)

Item Number	P/N	Description	Qty
27A		Dampener	1
28		P-Clip	1
29		M4 Nyloc Nut	3
L	399081	EHT Module Assembly	
30		M4 Nyloc Nut	2
31		EHT Module	1
M		Connector Panel	
32	SP500096	PCB 3 Assembly	1
33	SP500097	PCB 2 Assembly	1
34	SP500095	PCB 1 Assembly	1
35	399475	PCB 4 Assembly	1
36	395898	USB A-B BULKHEAD	1
37	395899	ETHERNET BULKHEAD	1

Table 3: Electronics Compartment (Continued)

Ink Compartment

B

Figure 10-19: Ink System

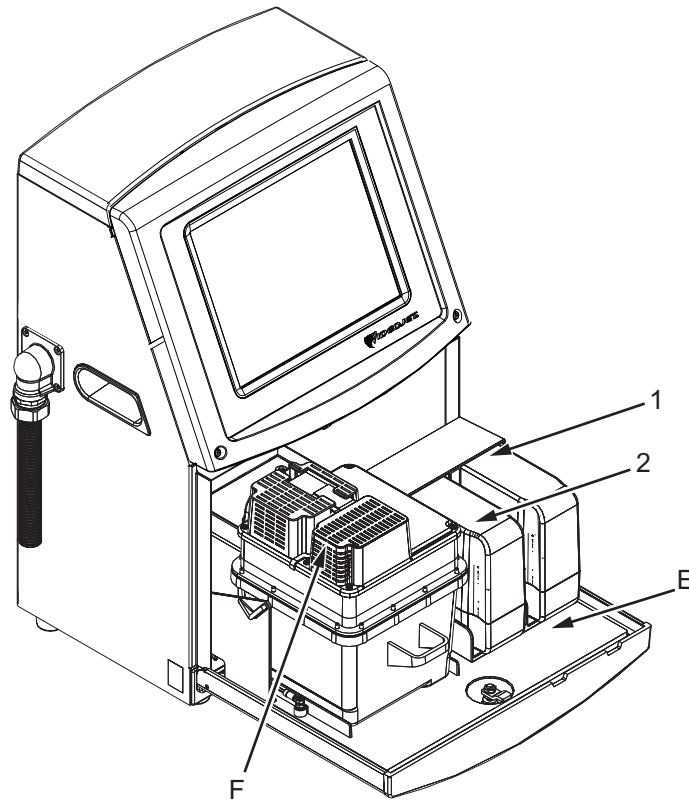## Ink Cartridge
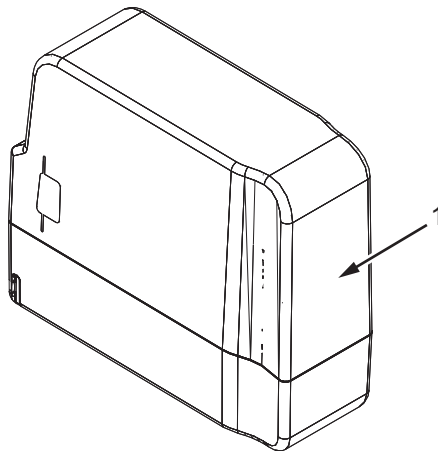
Figure 10-20: Ink Cartridge

Make-up Cartridge
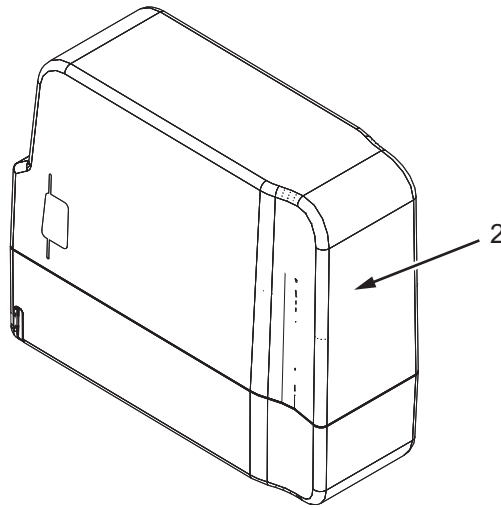
Figure 10-21: Make-up Cartridge
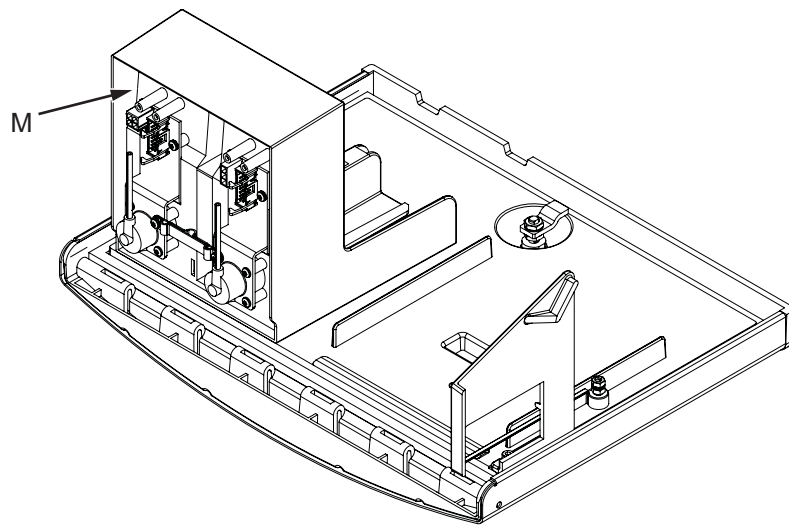
Figure 10-22: Ink Door Assembly

Septum Assembly
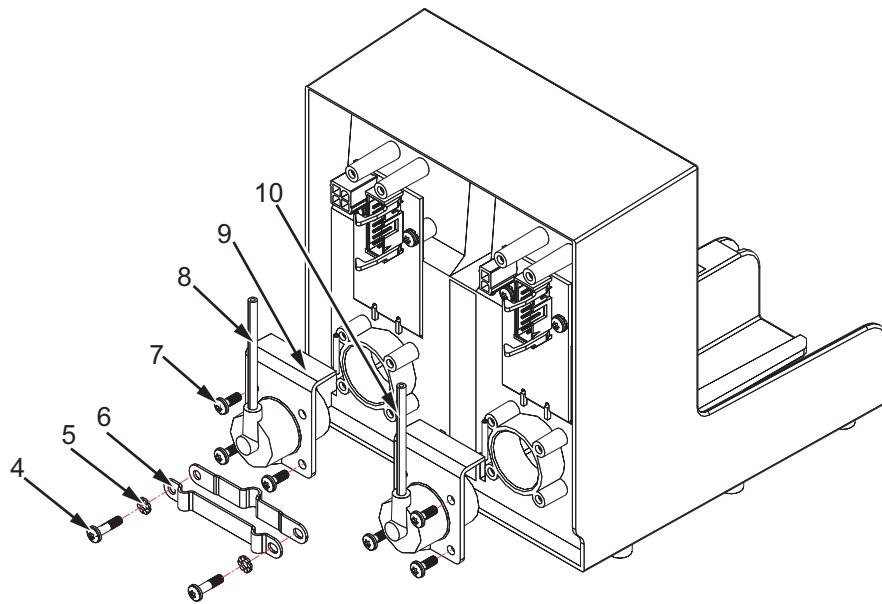
Figure 10-23: Septum Assembly

Ink Core Module Assembly
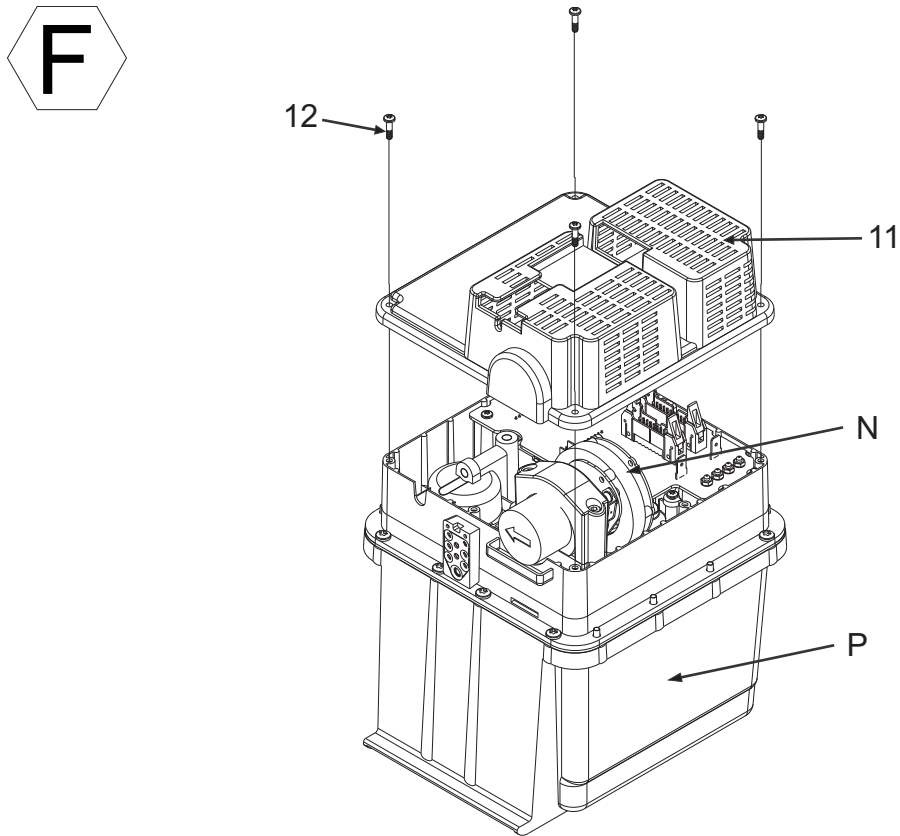
Figure 10-24: Core Module

Ink Core Pump
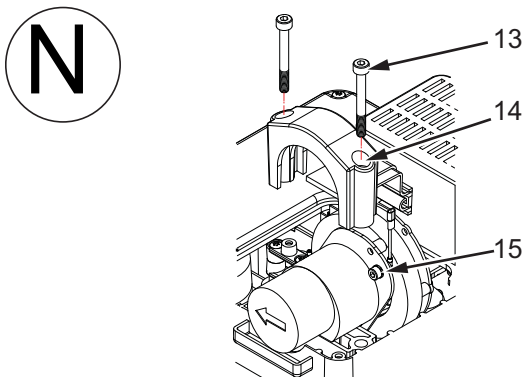
Figure 10-25: Ink Core Pump Assembly

Ink Core Without Pump
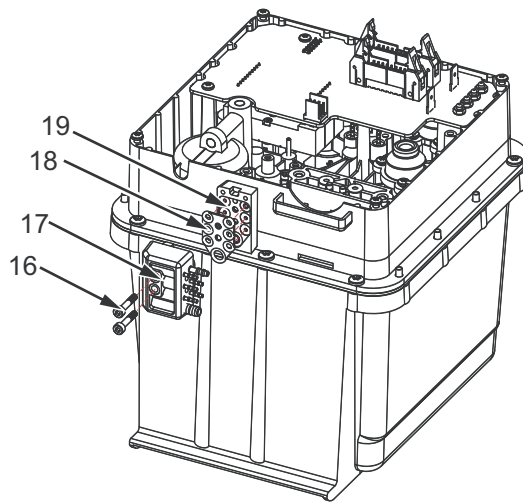
Figure 10-26: Ink Core Module Without Pump

Gutter Pump Assembly

Figure 10-27: Gutter Pump Assembly

Ink System Fan
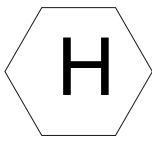
Figure 10-28: Ink System Fan Assembly

Condenser Assembly
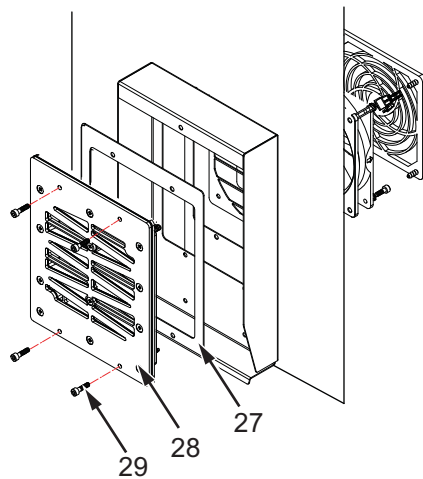
Figure 10-29: Condenser Assembly

Ink System Filter Assembly
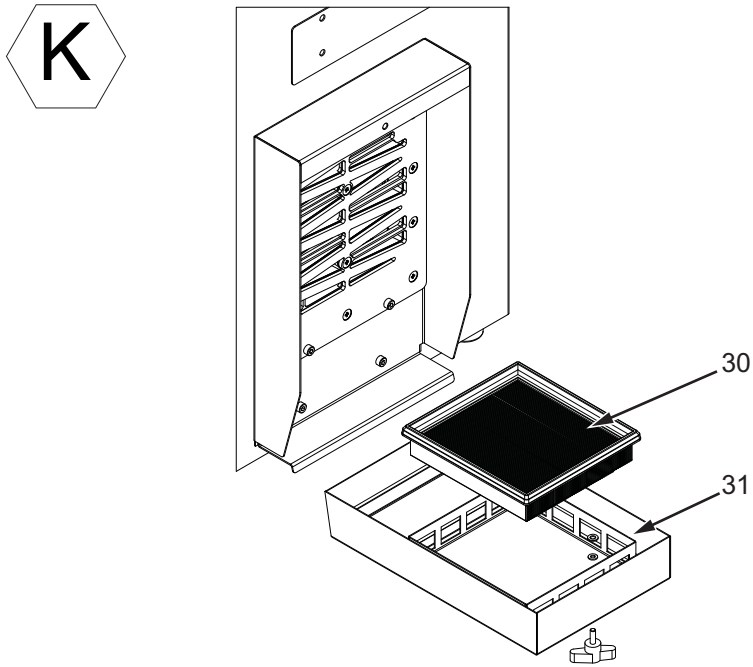
Figure 10-30: Ink System Filter Assembly - IP65

Floor Filter - IP65
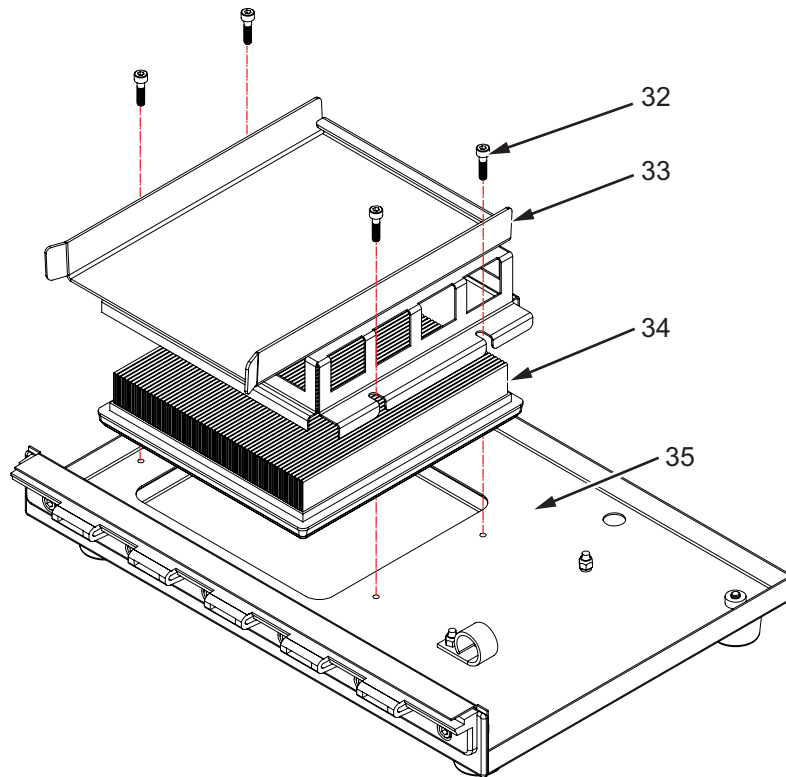
Figure 10-31: Floor Filter - IP65

Cabinet Foot
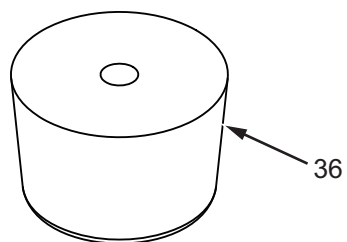
Figure 10-32: Cabinet Foot

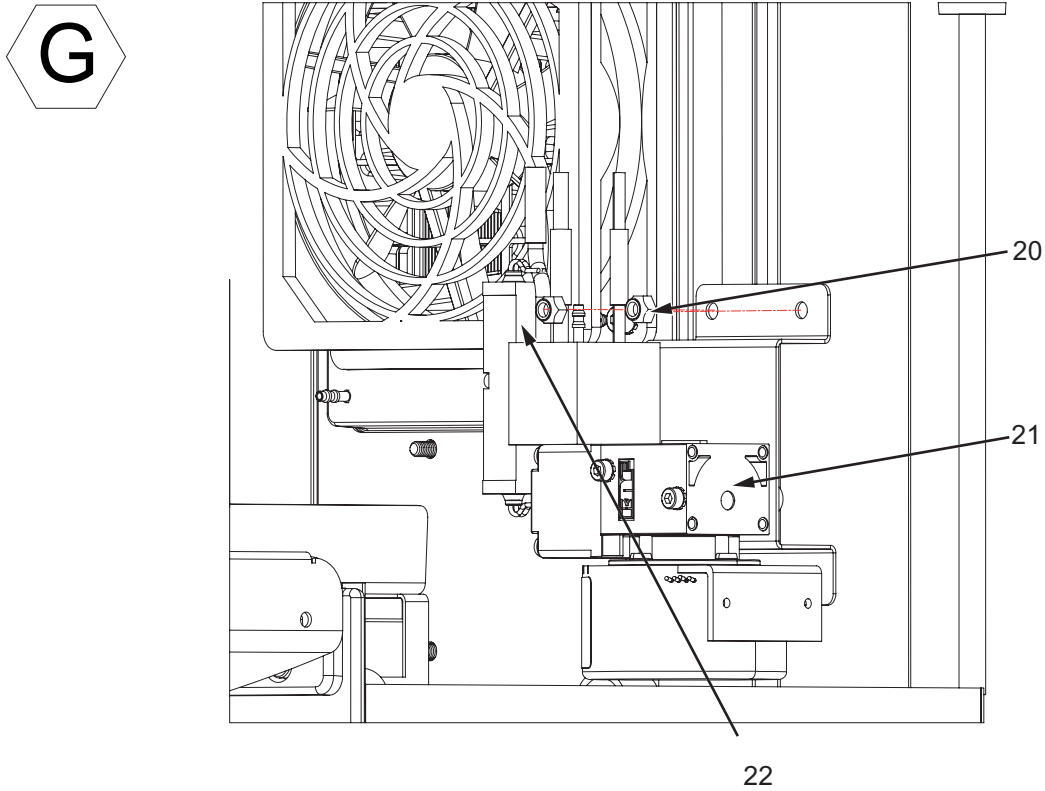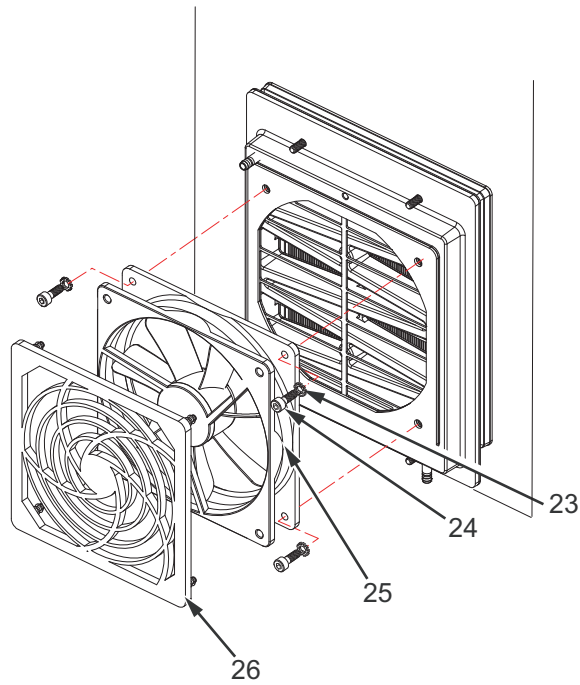| Item Number	P/N	Description	Qty
B		**Ink Compartment**	
1		**Ink Cartridge**	**1**
2		**Make-up Cartridge**	**1**
E	**399472**	**Ink Door Assembly**	
3*		**Hinge Pin**	**1**
M	**399073**	**Septum Assembly**	
4		**K30 x 12 Pan-head Torx Screw**	**2**
5		**M3 ET Washer**	**2**
6		**Tube and Ribbon Cable 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	**397551**	**Ink Core with Pump**	
11		**Ink Core Pump Cover**	**1**
12		**K30 x 12 Pan-head Torx Screw**	**2**
N	**399076**	**Ink Core Pump**	
13		**M4 x 35 Cap-head Screw**	**2**
14		**Saddle Clamp**	**1**
15		**Ink Core Pump**	**1**
P	**397552**	**Ink Core without Pump**	
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**

Table 4: Ink Compartment

Item Number	P/N	Description	Qty
G	399171	Gutter Pump Assembly	
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
34	SP234502	Filter Element	1
35		Filter Cover	1
	392004	Cabinet Feet Kit	
36	234500	Cabinet Foot	4

Table 4: Ink Compartment

*- Items are not shown in the figure.
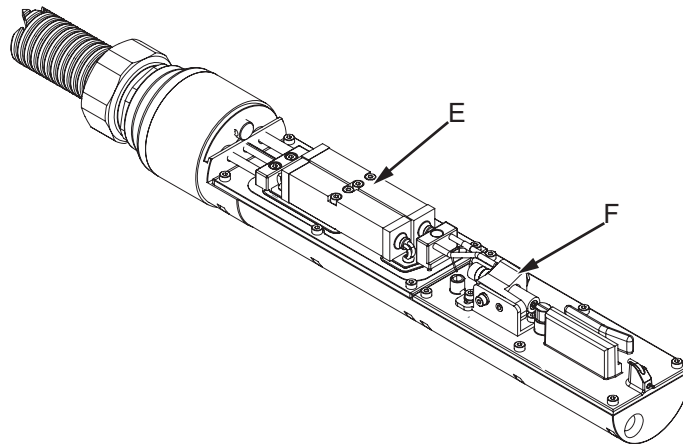
Printhead

D

E
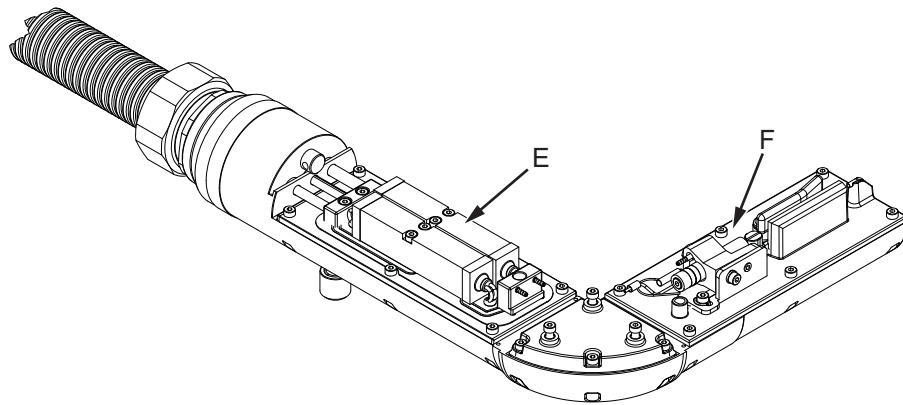
F

Figure 10-33: Printhead

D

E   F

Figure 10-34: 90 Degree Printhead

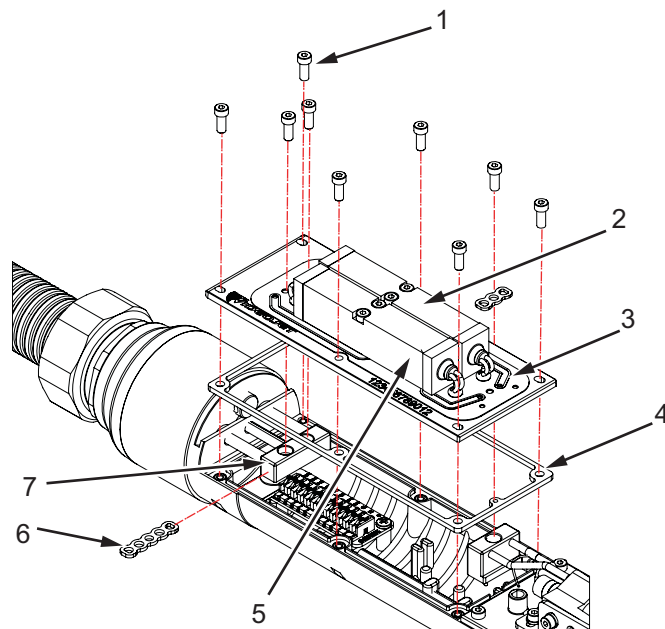## Printhead Valve Module

Figure 10-35: Printhead Valve Module
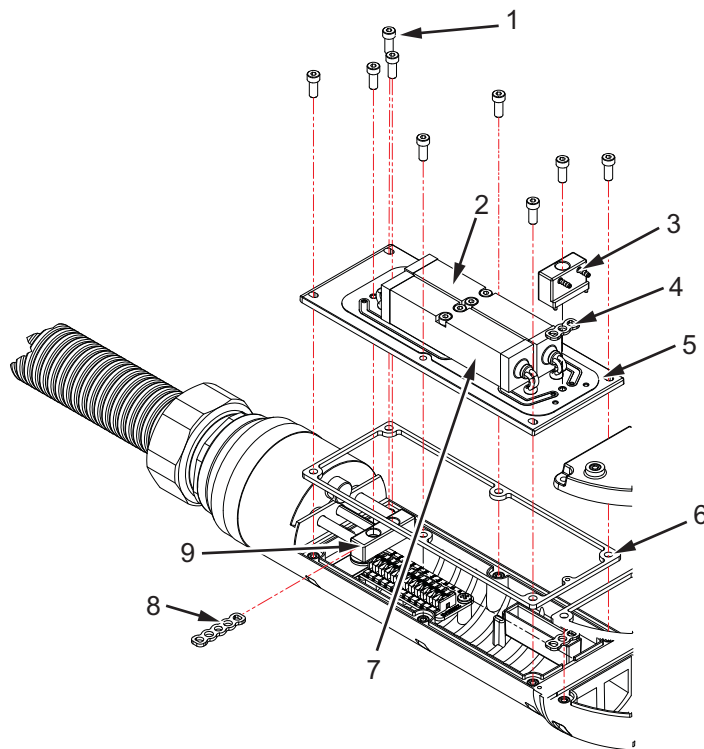
Figure 10-36: 90 Degree Printhead Valve Module

Printhead Engine
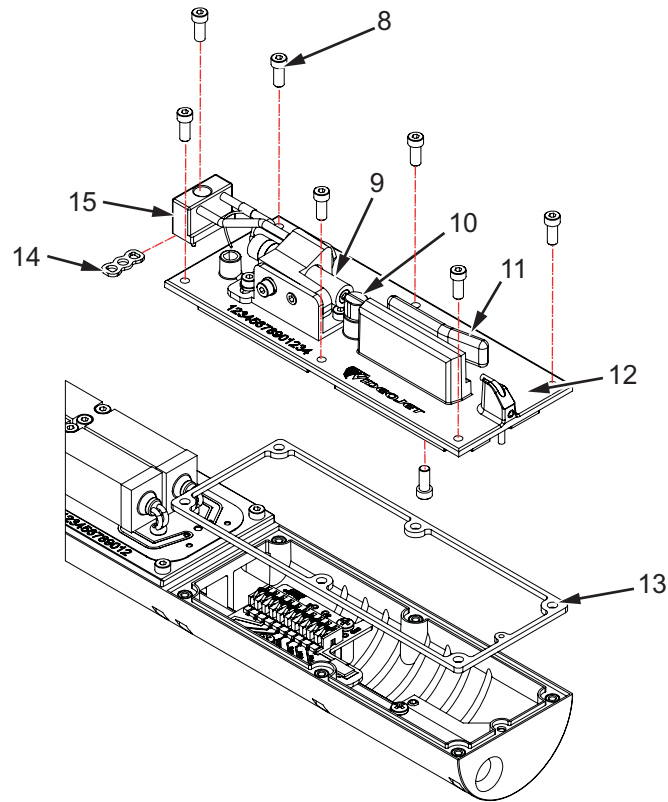
Figure 10-37: Printhead Engine
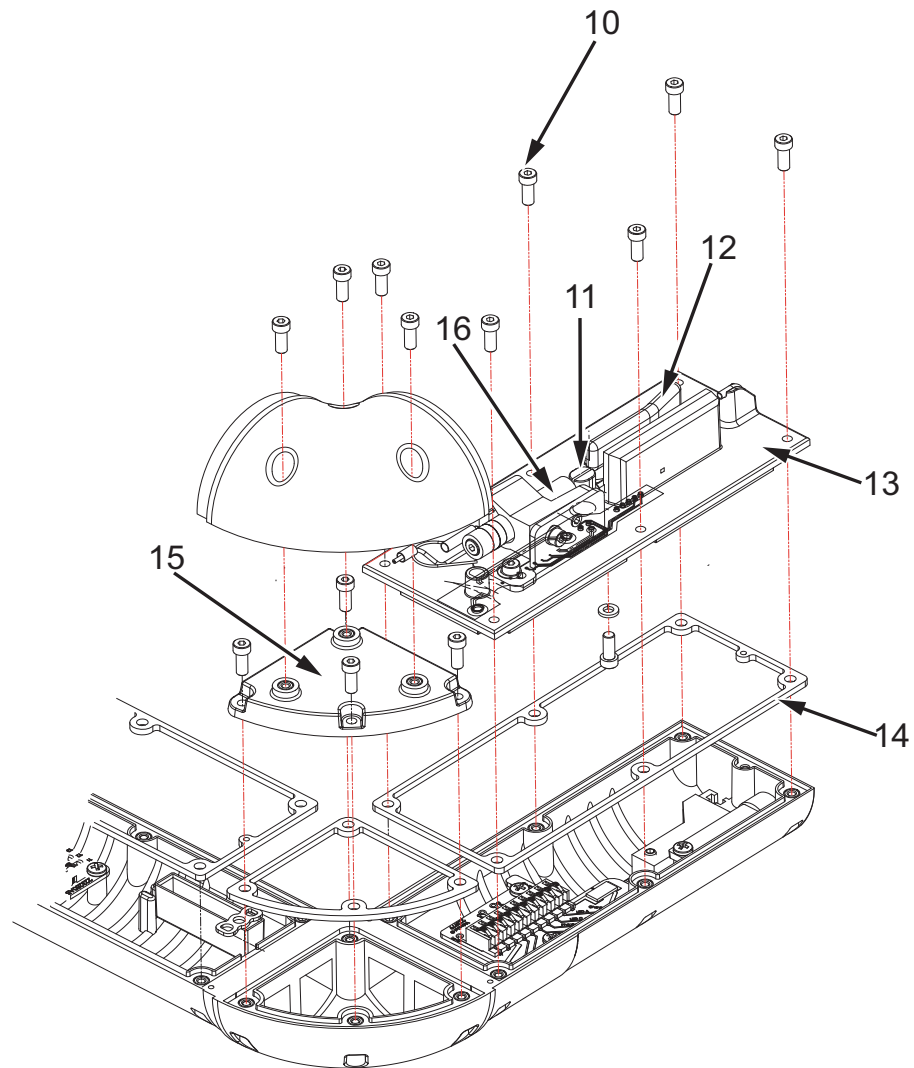
Figure 10-38: 90 Degree Printhead Engine

Printhead

Note: Refer to Table 6 on page 34 for information on 90 degrees printhead

Item Number	P/N	Description	Qty
D		**Printhead**	
E	399181	**Printhead Valve Module**	
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	399422	**Printhead Engine (60 micron)**	
	399180	**Printhead Engine (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

Table 5: Printhead Assembly

Item Number	P/N	Description	Qty
		Gasket, 2 way Manifold	**10**
		Connection Manifold Gasket	**10**
		4.47 x 1.78 O-ring	**10**

Table 5: Printhead Assembly (Continued)

90 Degree Printhead

Item Number	P/N	Description	Qty
D		**Printhead**	
E	**399181**	**Printhead Valve Module**	
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)**	
10		**M2 x 6 Cap-head Screw**	**14**
11		**Charge Electrode**	**1**
12		**Deflector Plate**	**1**
13		**Printhead Engine Deck**	**1**
14	**Refer to Item 17**	**Printhead Engine Gasket**	**1**

Table 6: 90 Degree Printhead Assembly

Item Number	P/N	Description	Qty
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 6: 90 Degree Printhead Assembly (Continued)

*- Items are not shown in the figure

Cables
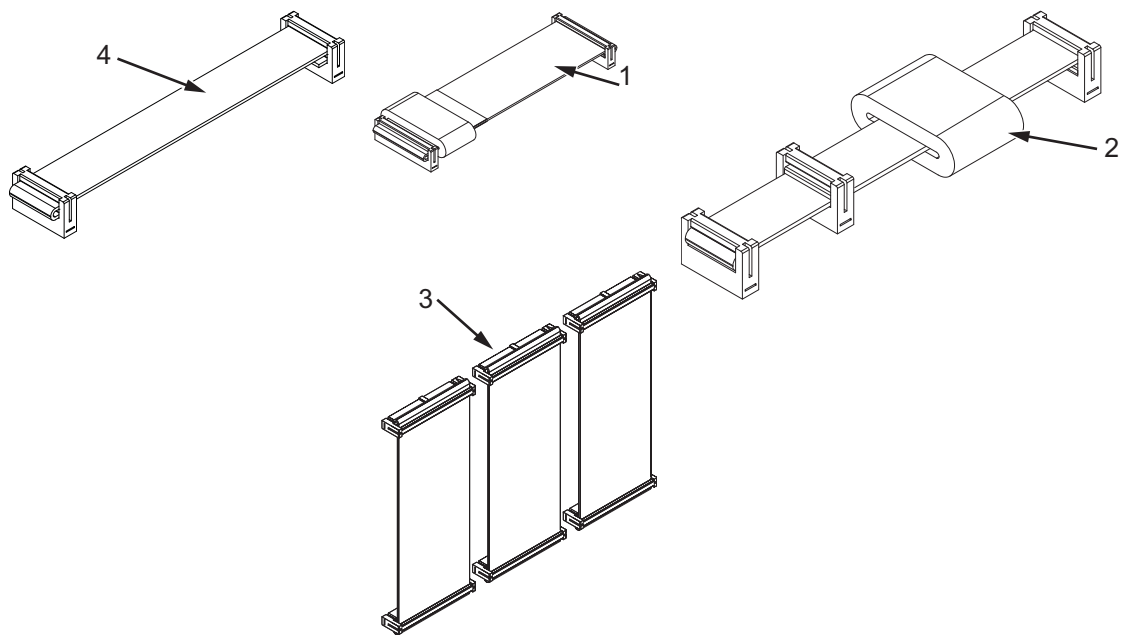
Figure 10-39: Cables

Item Number	P/N	Description	Qty
	399505	**Ribbon Cable Spare Kit**	
1		**Ribbon Cable Assembly Display**	**1**
2	**SP399052**	**Ribbon Cable Assembly Smart Chip and Pump 14 Way**	**1**
3		**50 Way Ribbon Cables**	**3**
4		**16 Way Ribbon Cable**	**1**
5*	**395792**	**Touch Screen Cable Kit Spare**	**1**

Table 7: Cables

*- Items are not shown in the figure