

Parts and Diagrams

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Right Hand Covers

Right Hand Covers			
Reference on Drawing	HP Part Number	Quantity	Description/Comments
1	Q6665-60011	2	Top Side Cover
2	Q6693-60003	2	Upper Side Cover
3	Q6665-60008	2	Lower Side Cover (includes both the left (wiping) and right (capping) Lower Side Cover)
4	Q6665-60005	1	Capping Door
5	Q6665-60006	1	Lower Capping Cover
6	Q6693-60004	1	Right Subtank Cover
7	Q6665-60014	1	Right Ink Cartridge Door (contains the hinges)
8	Q6665-60016	4	Side Ink Cartridge Cover
9	Q6693-60007	1	Right Rear Ink Cartridge Cover
10	Q6665-60091	1	Plastic Exhaust Attachment

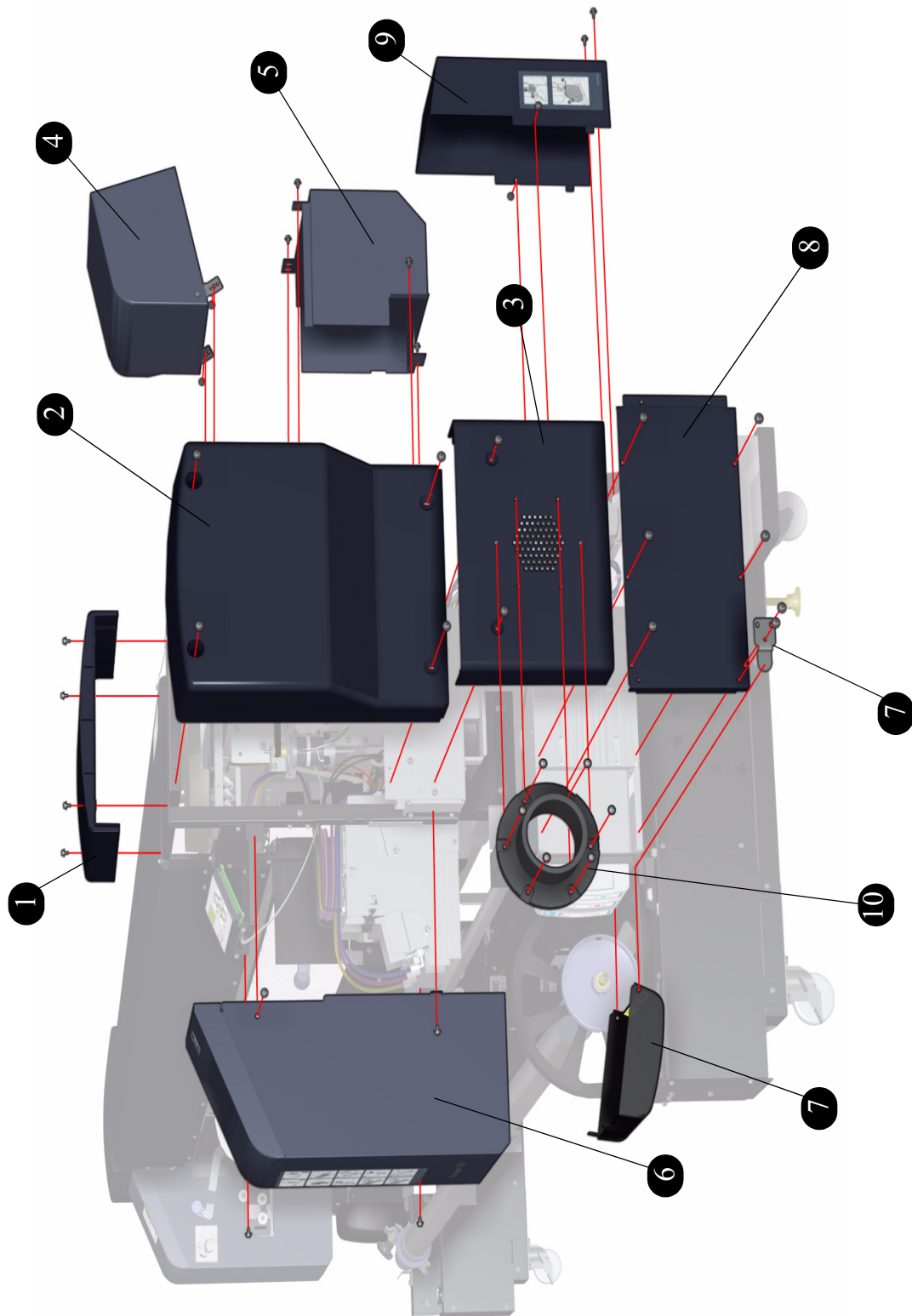


Figure 1: Right Hand Covers

Left Hand Covers

Left Hand Covers			
Reference on Drawing	HP Part Number	Quantity	Description/Comments
1	Q6665-60011	2	Top Side Cover
2	Q6665-60007	2	Upper Side Cover
3	Q6665-60008	2	Lower Side Cover (includes both the left (wiping) and right (capping) Lower Side Cover
4	Q6693-60001	1	Wiping Door
5	Q6665-60003	1	Lower Wiping Cover
6	Q6693-60005	1	Left Subtank Cover
7	Q6665-60015	1	Left Ink Cartridge Door (contains the hinges)
8	Q6665-60016	4	Side Ink Cartridge Cover
9	Q6665-60081	1	Left Rear Ink Cartridge Cover

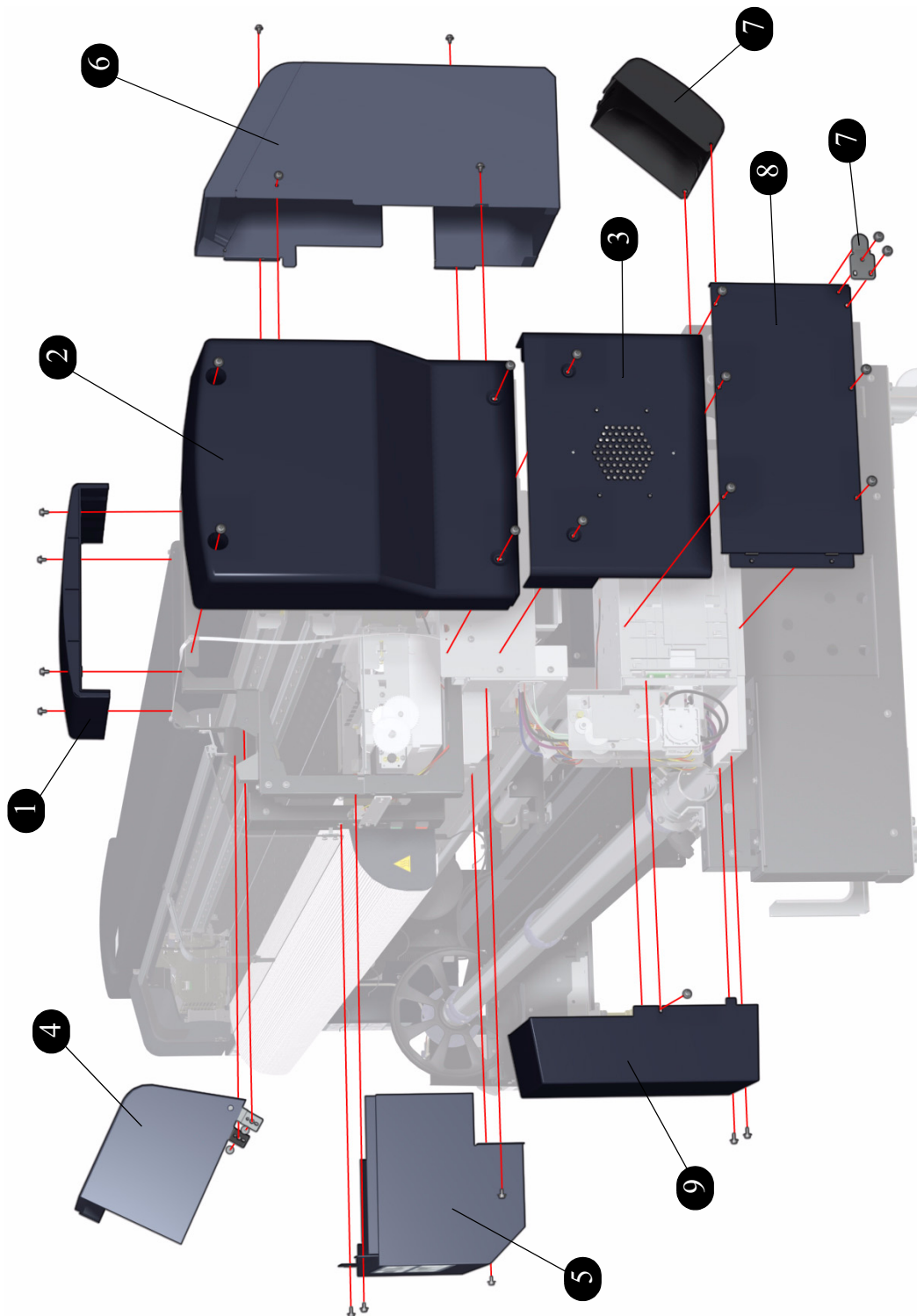


Figure 2: Left Hand Covers

Center Covers

Center Covers			
Reference on Drawing	HP Part Number	Quantity	Description/Comments
1	Q6693-60006	1	Rear Cover ***
2	Q6693-60002	1	Top Cover ***
3	Q6693-60011	1	Electronics Module Cover ***
4	Q6665-60021	1	Firmware Access Cover

*** These parts are contained in boxes that measure at least 3 meters, so should be dispatched directly from the parts stock to the customer.

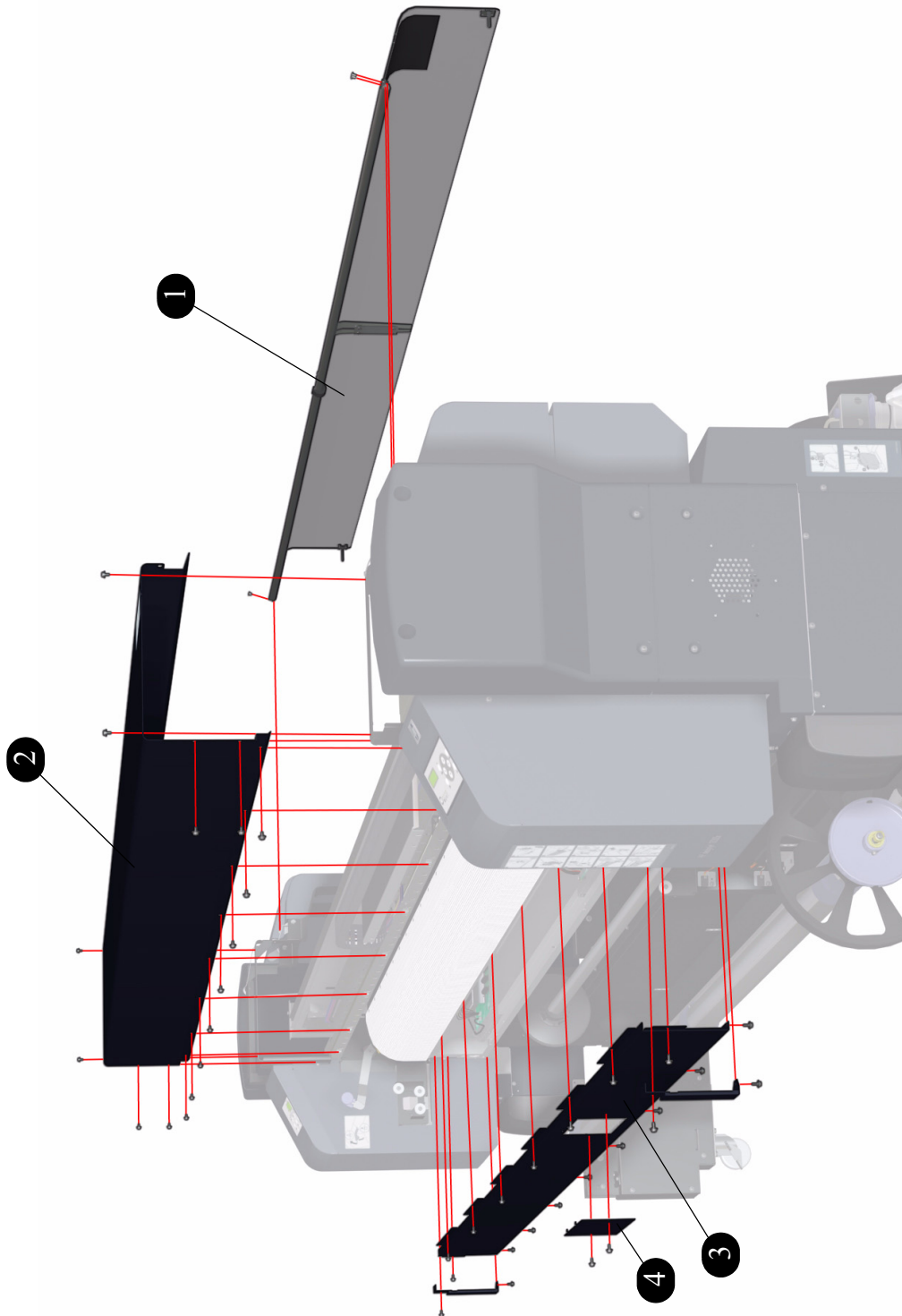


Figure 3: Center Covers

Electronics Module

Electronics Module			
Reference on Drawing	HP Part Number	Quantity	Description/Comments
1	Q6693-60010	1	Power Supply Unit
2	Q6665-60017	1	NVRAM
3	Q6693-60008	1	Main PCA (includes NVRAM, part # Q6665-60017)
4	Q6665-60019	1	Head Relay Board
5	Q6693-60009	1	Heater Relay Assembly (includes the metal support tray and the AC2 Power Connector)
6	Q6693-60031	1	Add-on (HEB2) Control PCA
7	Q6693-60032	1	Switching Power Supply

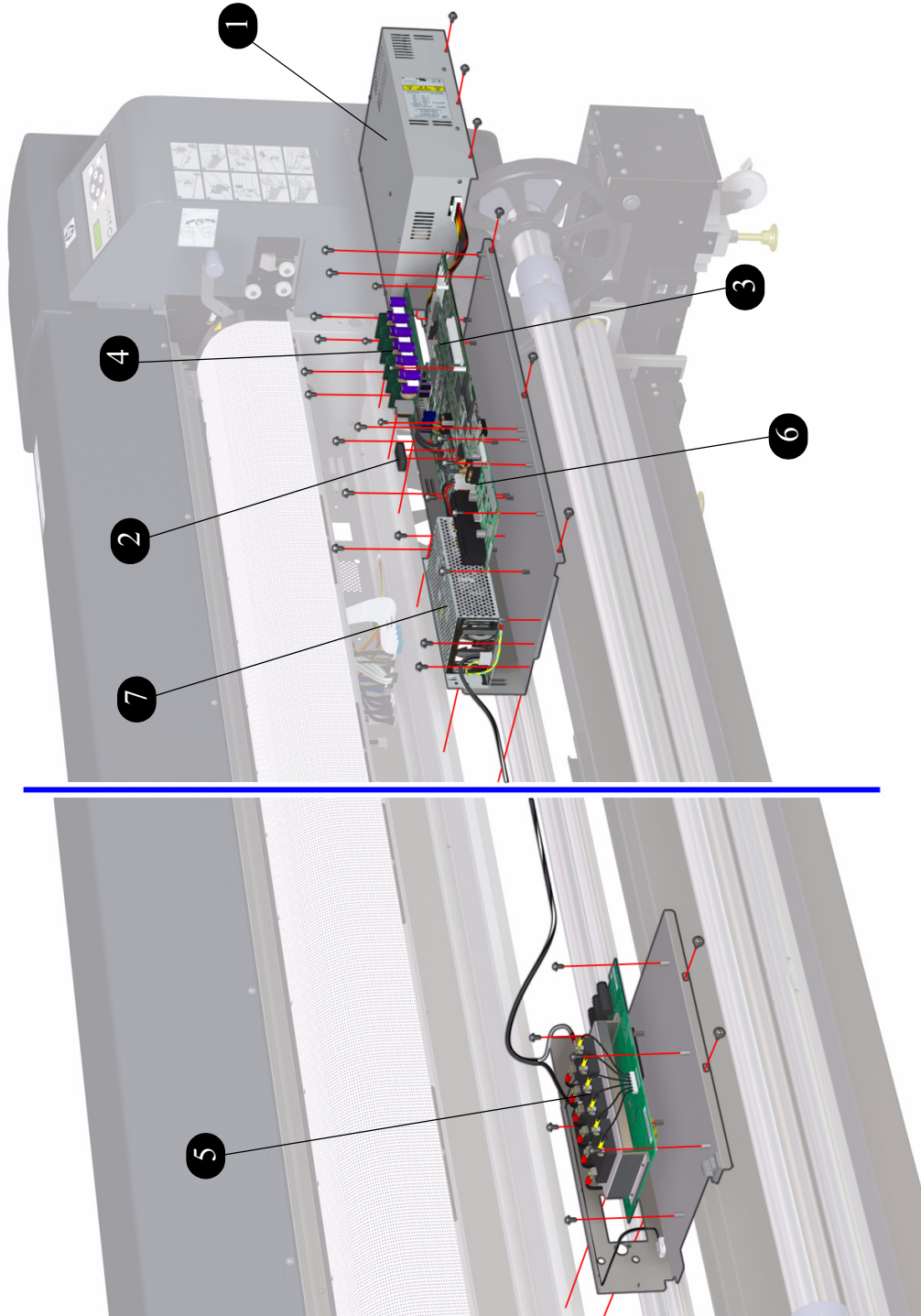


Figure 4: Electronics Module

Control Panels

Control Panels			
Reference on Drawing	HP Part Number	Quantity	Description/Comments
1	Q6665-60027	1	Front Panel
2	Q6665-60025	1	Heater Panel

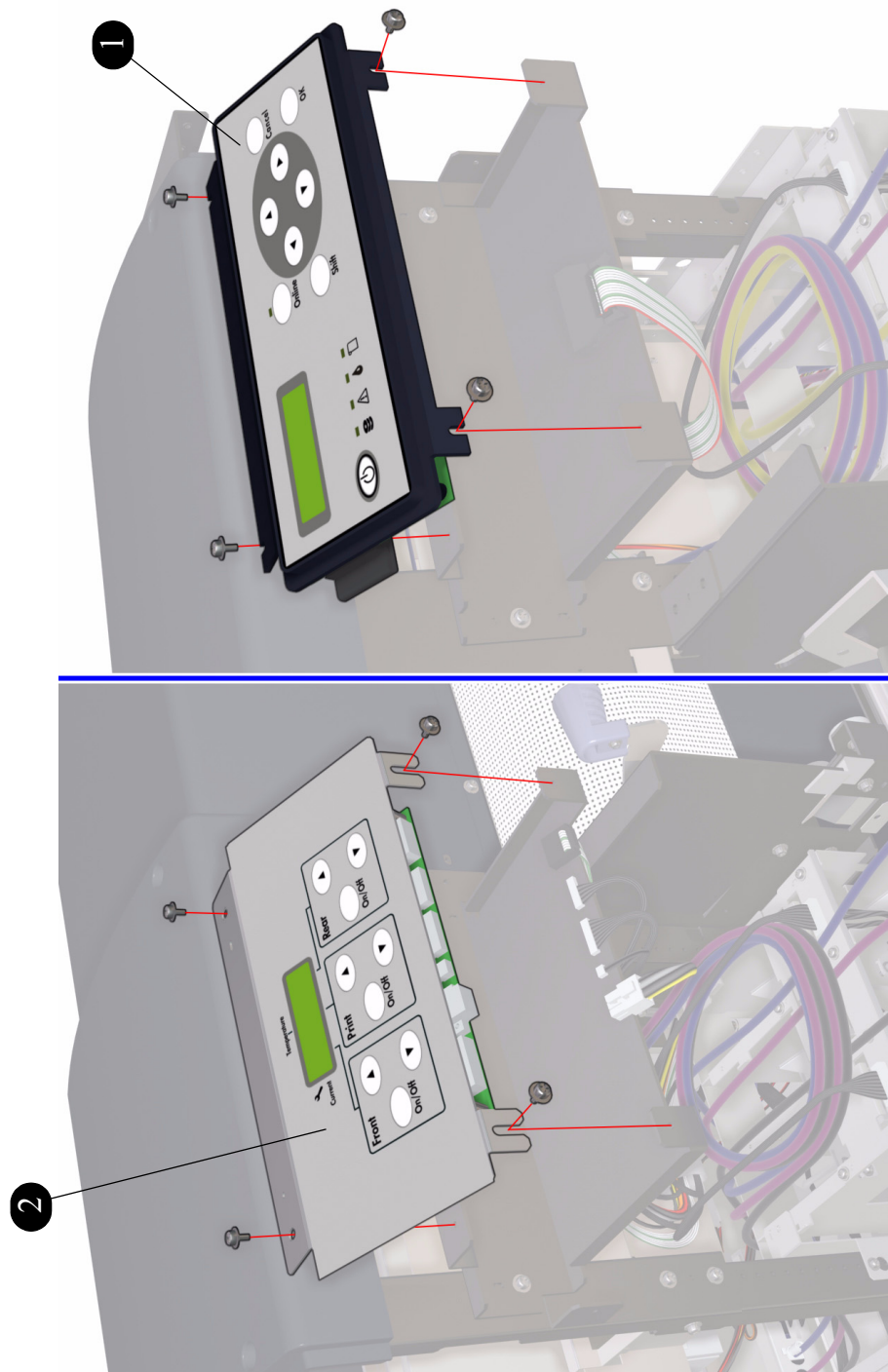


Figure 5: Control Panels

Carriage Assembly

Carriage Assembly			
Reference on Drawing	HP Part Number	Quantity	Description/Comments
1	Q6665-60052	2	Printhead Cooling Fan (includes two fans)
2	Q6665-60048	1	Carriage PCA
3	Q6665-60001	6	Printhead (does not include the Printhead Connector Assembly)
4	Q6665-60047	6	Printhead Connector Assembly (comes in a kit of 3 Cables - one for the left hand Printhead, one for the Center Printhead and one for the right hand Printhead).
5	Q6665-60049	1	Encoder Sensor
6	Q6665-60050	1	Line Sensor
7	Q6693-60021	6	Air Damper Kit (includes six Air Dampers, tubes going to the Printheads and 1 tie wrap to secure the Light Cyan tube)
8	Q6693-60018	1	Encoder Strip
9	Q6665-60026	1	Carriage Home Position Sensor (this Sensor is also the same as the Media Lever Sensor)
10	Q6693-60039	1	Discharge Brush

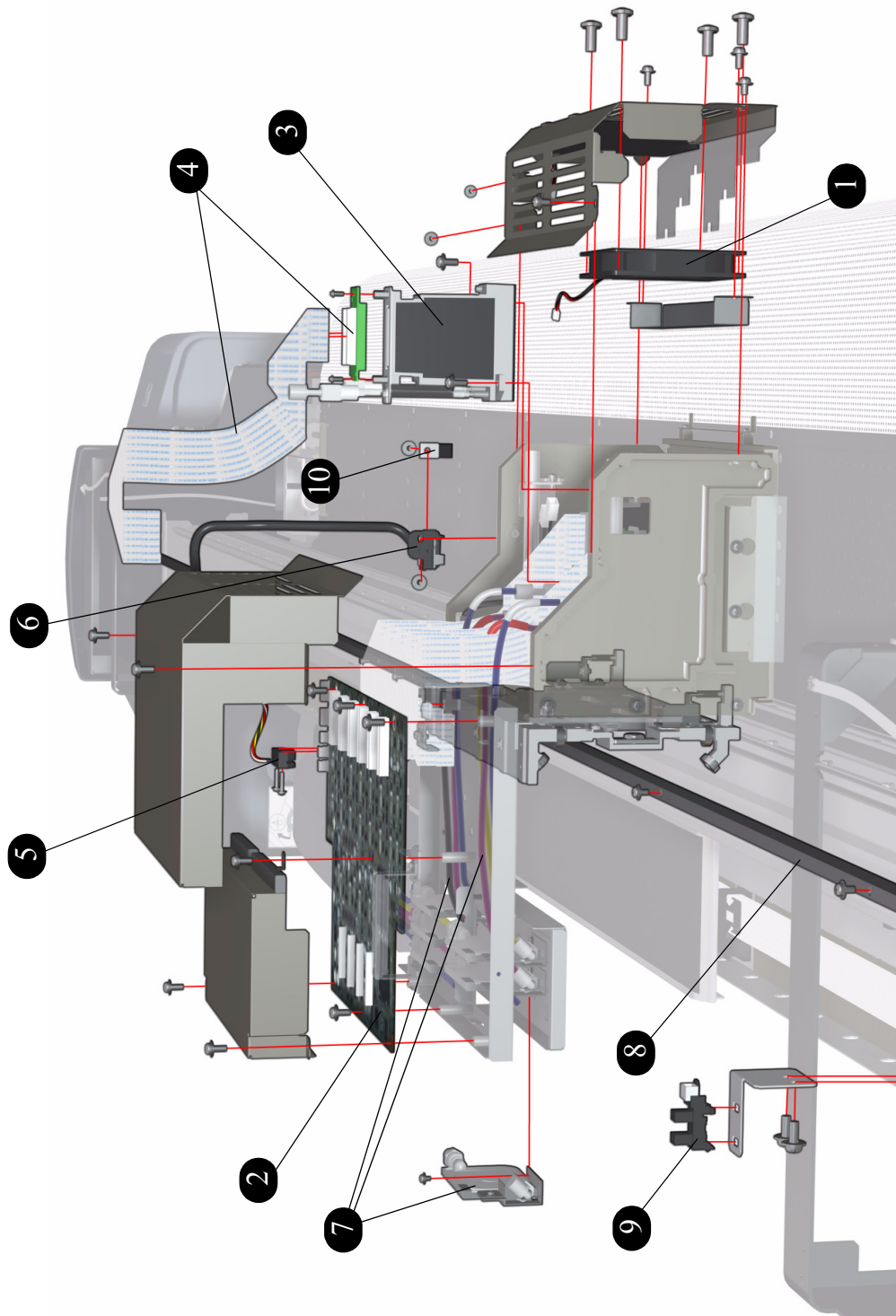


Figure 6: Carriage Assembly

Scan-Axis Assemblies

Scan-Axis Assemblies			
Reference on Drawing	HP Part Number	Quantity	Description/Comments
1	Q6693-60020	1	Trailing Cable Assembly (includes four pre-folded cables)
2	Q6693-60019	1	Belt
3	Q6665-60045	1	Tension Pulley
4	Q6665-60043	1	Drive Pulley (includes the Black Rubber Belt)
5	Q6665-60044	1	Scan-Axis Motor Assembly
6	Q6665-60092	1	Media-Axis Motor Belt

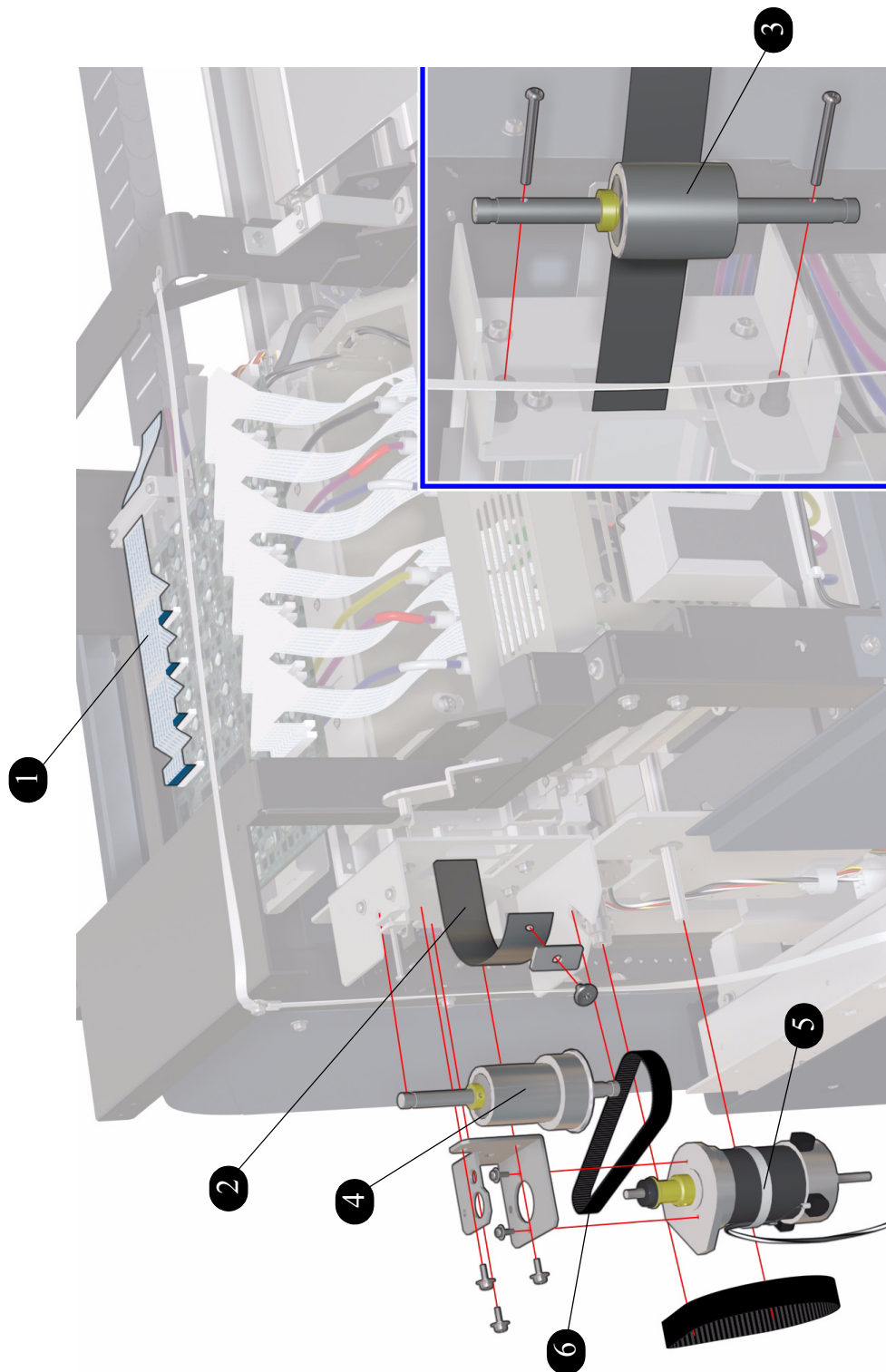


Figure 7: Scan-Axis Assemblies

Paper Path Assemblies

Paper Path Assemblies			
Reference on Drawing	HP Part Number	Quantity	Description/Comments
1	Q6693-60013	1	Front Heater ***
2	Q6693-60012	1	Center Platen ** ***
3	Q6693-60014	1	Rear Heater ***
4	Q6665-60030	5	Vacuum Fan
5	Q6693-60016	1	Paper-Axis Motor (includes Belt, Gear, Spring, Washer and Bearing)
6	Q6665-60028	2	Media Edge Guard (includes eight screws and four small Guides)
7	Q6693-60017	40	Pinch Roller Kit
8	Q6693-60060	40	Pinch Roller Blade
9	Q6665-60033	2	Media Sensor (Front and Rear)
10	Q6665-60026	1	Media Lever Sensor (this Sensor is also the same as the Carriage Home Position Sensor)
11	Q6693-60015	1	Front and Rear Net Kit
12	Q6665-60034	2	Lever Knob
13	Q6693-60038	1	Media Drive Roller ** ***

** When ordering the Center Platen or the Media Drive Roller, you MUST also order the Platen Flatness Adjustment Tools (Part Number Q6693-60037). Also, due to the size and weight of the Center Platen and the Media Drive Roller, two Customer Engineers are required when installing these parts.

*** These parts are contained in boxes that measure at least 3 meters, so should be dispatched directly from the parts stock to the customer.

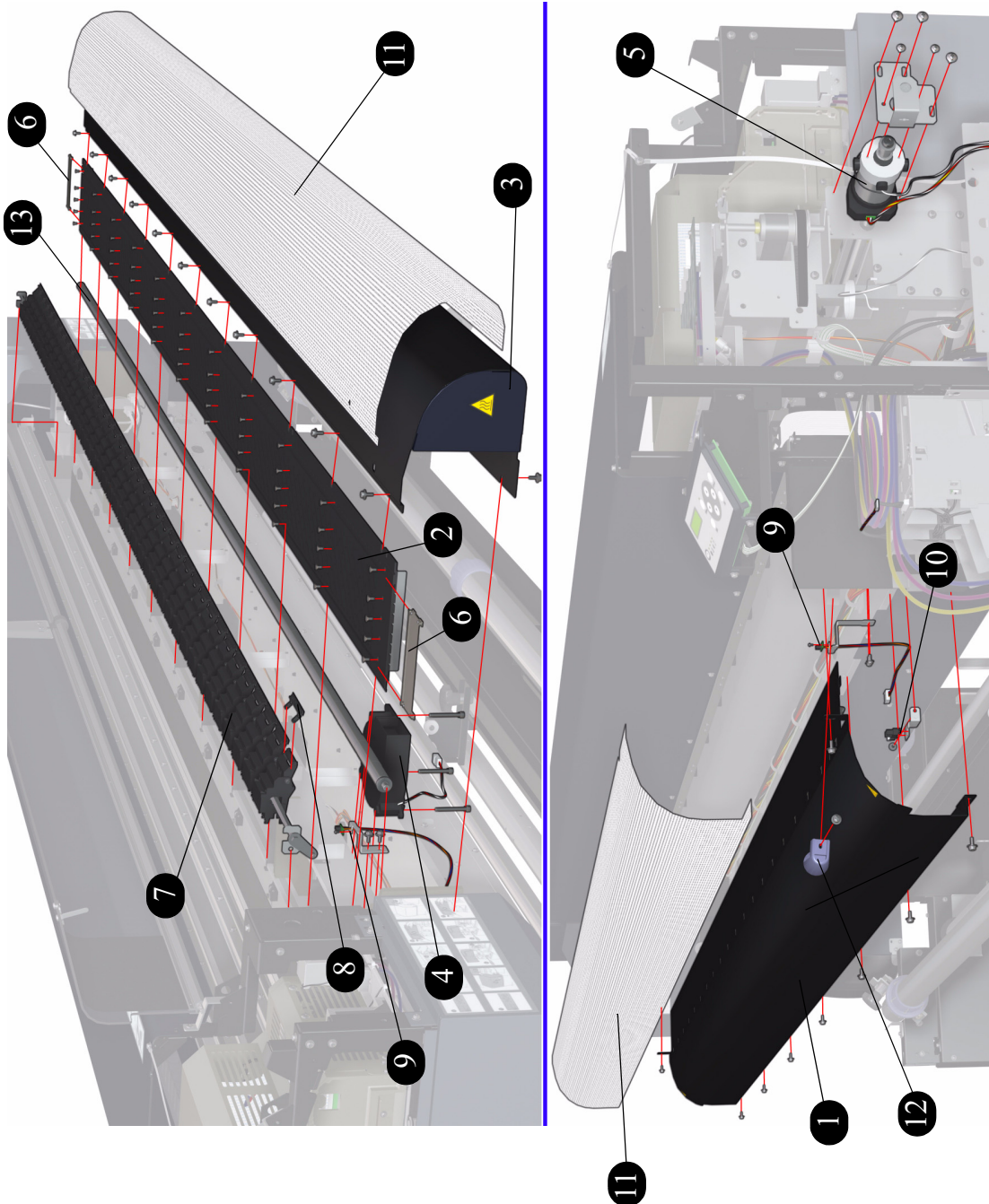


Figure 8: Paper Path Assemblies

Media Entry Assemblies

Media Entry Assemblies			
Reference on Drawing	HP Part Number	Quantity	Description/Comments
1	Q6693-60028	1	Feeder Drive Unit Assembly
2	Q6693-60029	1	Left Bottom Leg Covers (Front and Rear)
3	Q6693-60030	2	Media Scroller Support
4	Q6693-60034	2	Roller (for Feed/TUR Unit) (includes a robust Allen Key)
5	Q6693-60059	2	Timing Belt (for Feed/TUR Unit) (includes two belts per support part)

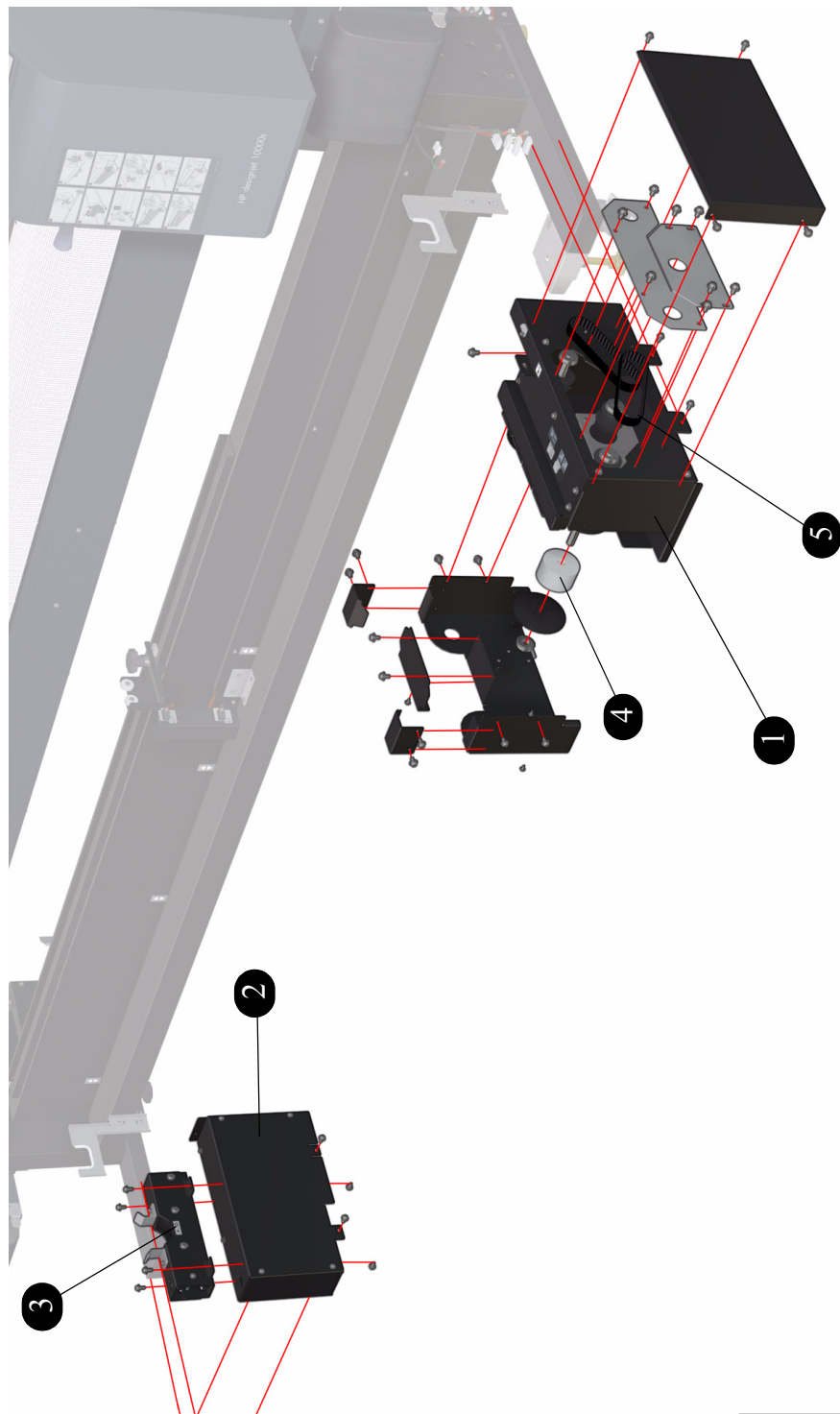


Figure 9: Media Entry Assemblies

Take-Up-Reel Assemblies

Take-Up-Reel Assemblies			
Reference on Drawing	HP Part Number	Quantity	Description/Comments
1	Q6693-60027	1	Take-Up-Reel Drive Unit Assembly
2	Q6693-60029	1	Left Bottom Leg Covers (Front and Rear)
3	Q6693-60030	2	Media Scroller Support
4	Q6693-60034	2	Roller (for Feed/TUR Unit) (includes a robust Allen Key)
5	Q6693-60059	2	Timing Belt (for Feed/TUR Unit) (includes two belts) per support part)
6	Q6693-60050	1	Right Tension Bar Guide
7	Q6693-60051	1	Left Tension Bar Guide
8	Q6693-60039	1	Discharge Brush

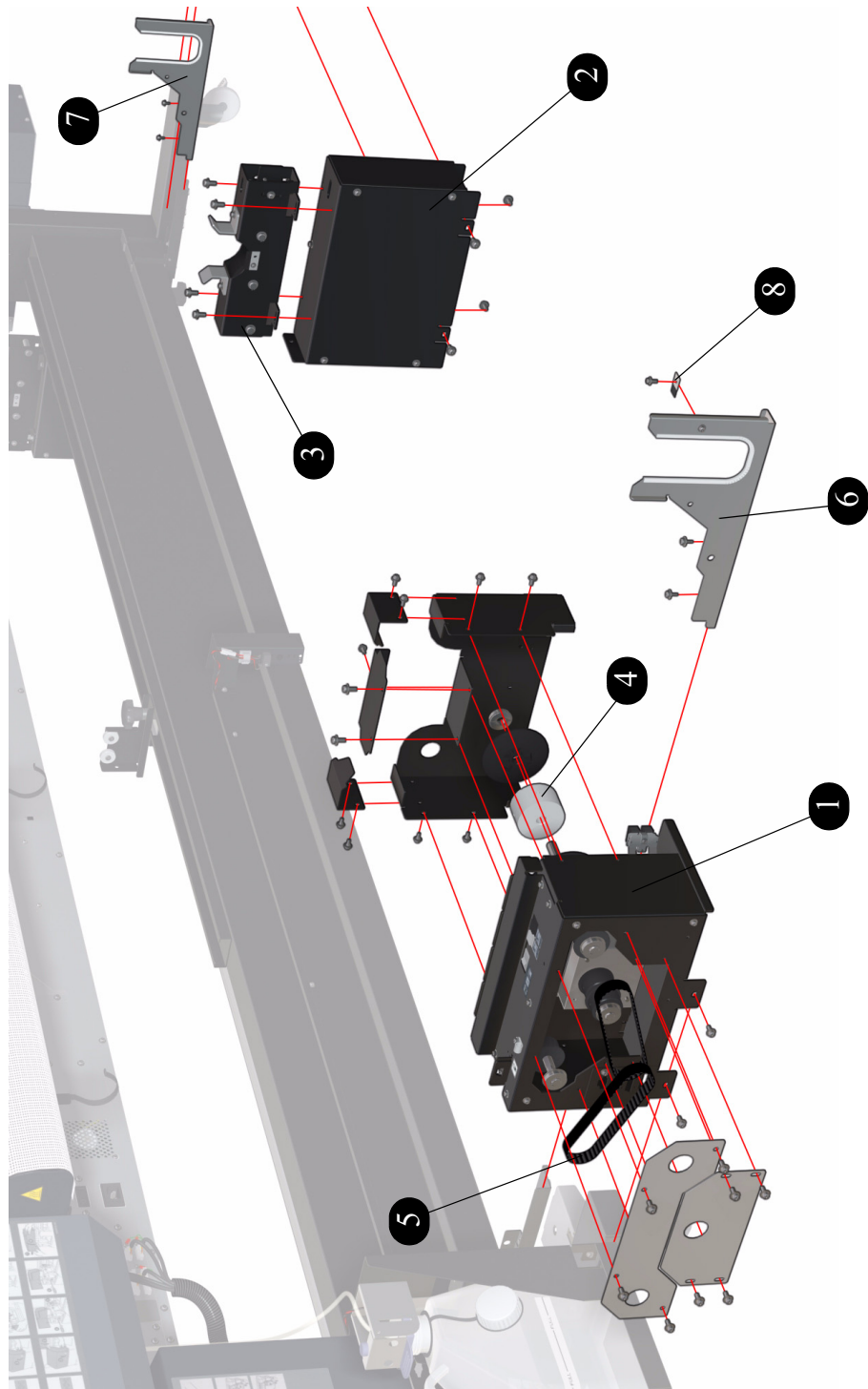


Figure 10: Take-Up-Reel Assemblies

Capping Assemblies

Capping Assemblies			
Reference on Drawing	HP Part Number	Quantity	Description/Comments
1	Q6693-60022	1	Capping Station Assembly
2	Q6665-60061	6	Capping Unit (includes 6 units)
3	Q6665-60062	2	Solenoid Assembly
4	Q6665-60063	6	Prime Assembly
5	Q6665-60024	2	Rear Cover Sensor (includes 2 sensors)

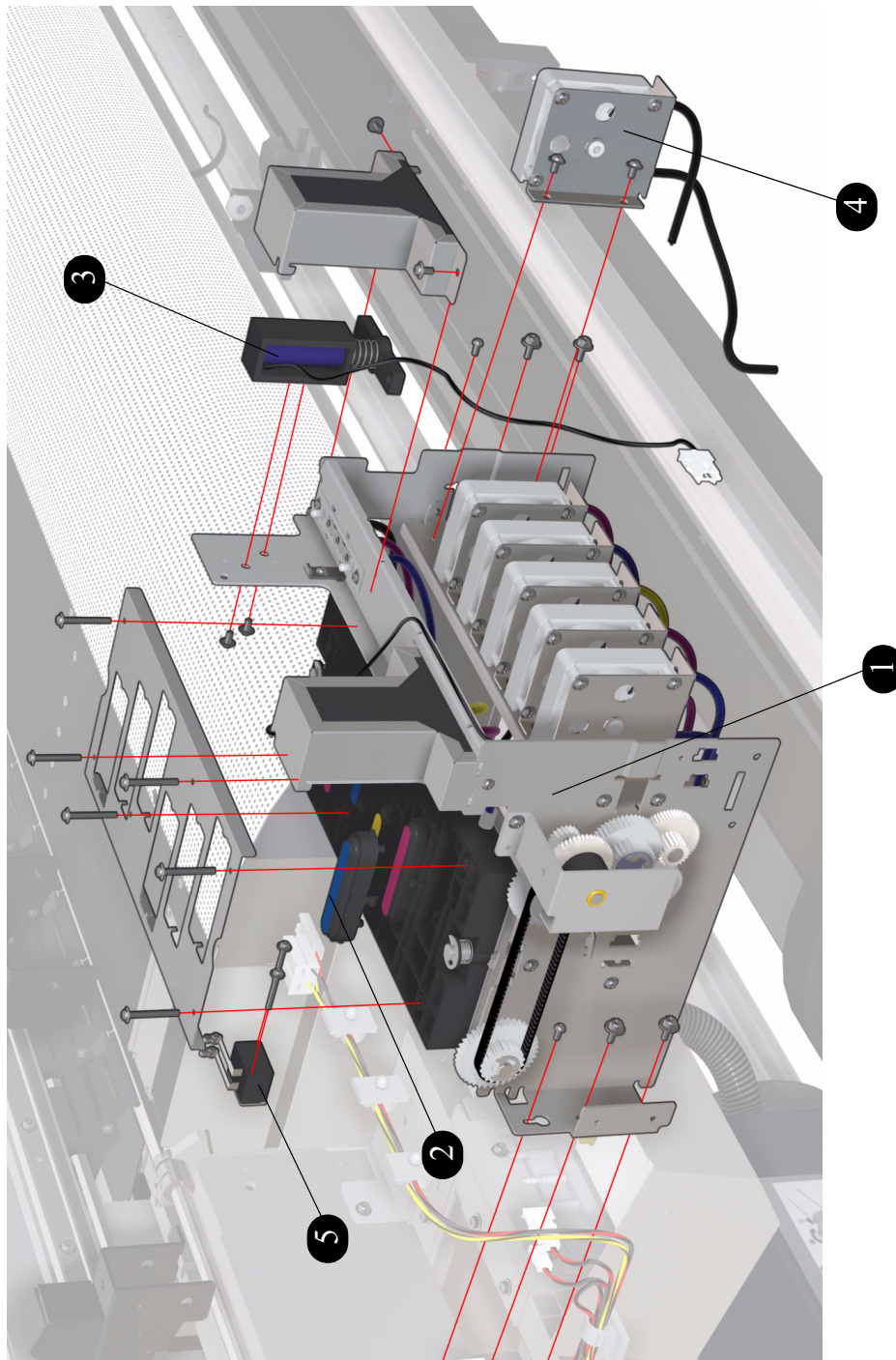


Figure 11: Capping Assemblies

Wiping Assemblies

Wiping Assemblies			
Reference on Drawing	HP Part Number	Quantity	Description/Comments
1	Q6665-60064	1	Wiping Station Assembly
2	Q6665-60066	1	Wiper Blade
3	Q6665-60067	1	Wiper Belt (includes 2 belts)
4	Q6665-60065	1	Wiper Cleaning Assembly
5	Q6665-60024	1	Rear Cover Sensor (includes 2 sensors)

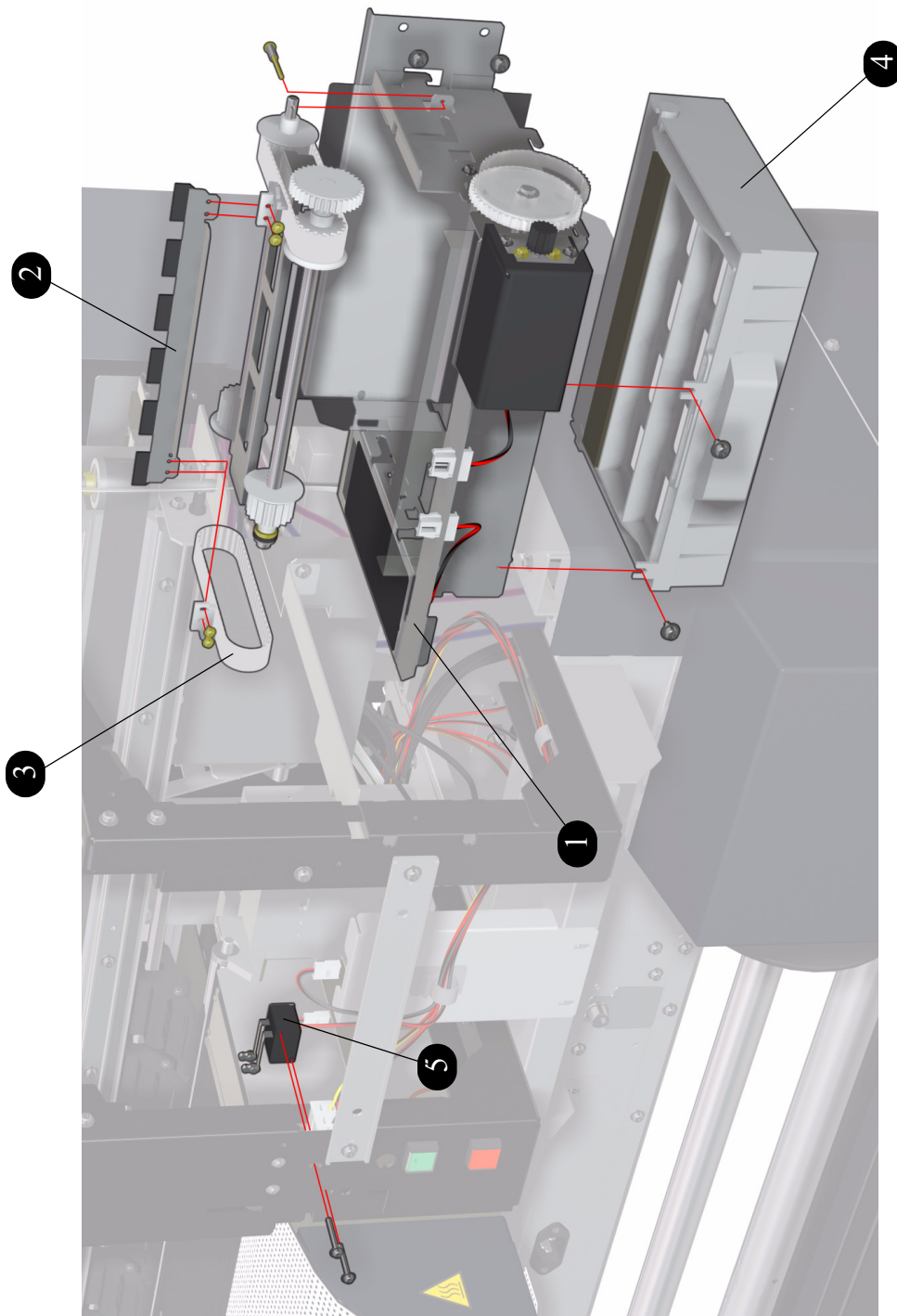
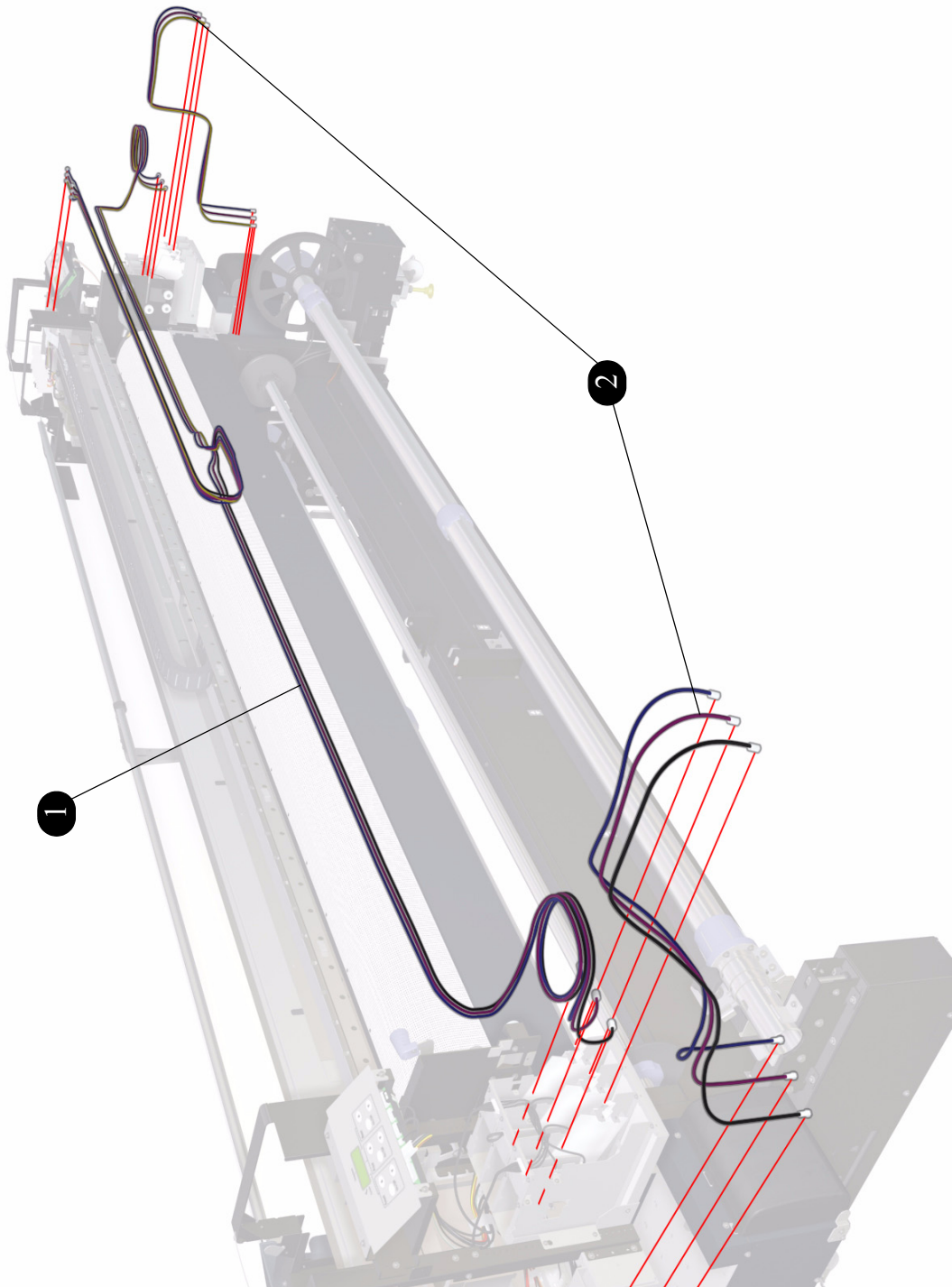


Figure 12: Wiping Assemblies

Ink Supply and Subtank Tubes

Ink Supply and Subtank Tubes			
Reference on Drawing	HP Part Number	Quantity	Description/Comments
1	Q6693-60068	1 (set of 6)	Tubes Kit 10000
2	Q6665-60086	1 (set of 6)	Pump to Subtank Tubes



Ink Supply and Subtank Assemblies

Ink Supply and Subtank Assemblies			
Reference on Drawing	HP Part Number	Quantity	Description/Comments
1	Q6665-60055	1	Right Ink Supply Station
-	Q6665-60056	1	Left Ink Supply Station
2	Q6665-60053	6	Ink Pump Assembly (includes Ink Pump Tube and needle)
3	Q6665-60054	6	Ink Pump Tube
4	Q6665-60057	2	Ink Cartridge Door Sensor
5	Q6665-60059	2	Subtank Assembly (includes 3 assemblies)
6	Q6665-60058	2	Subtank Sensors (includes 3 sensors)

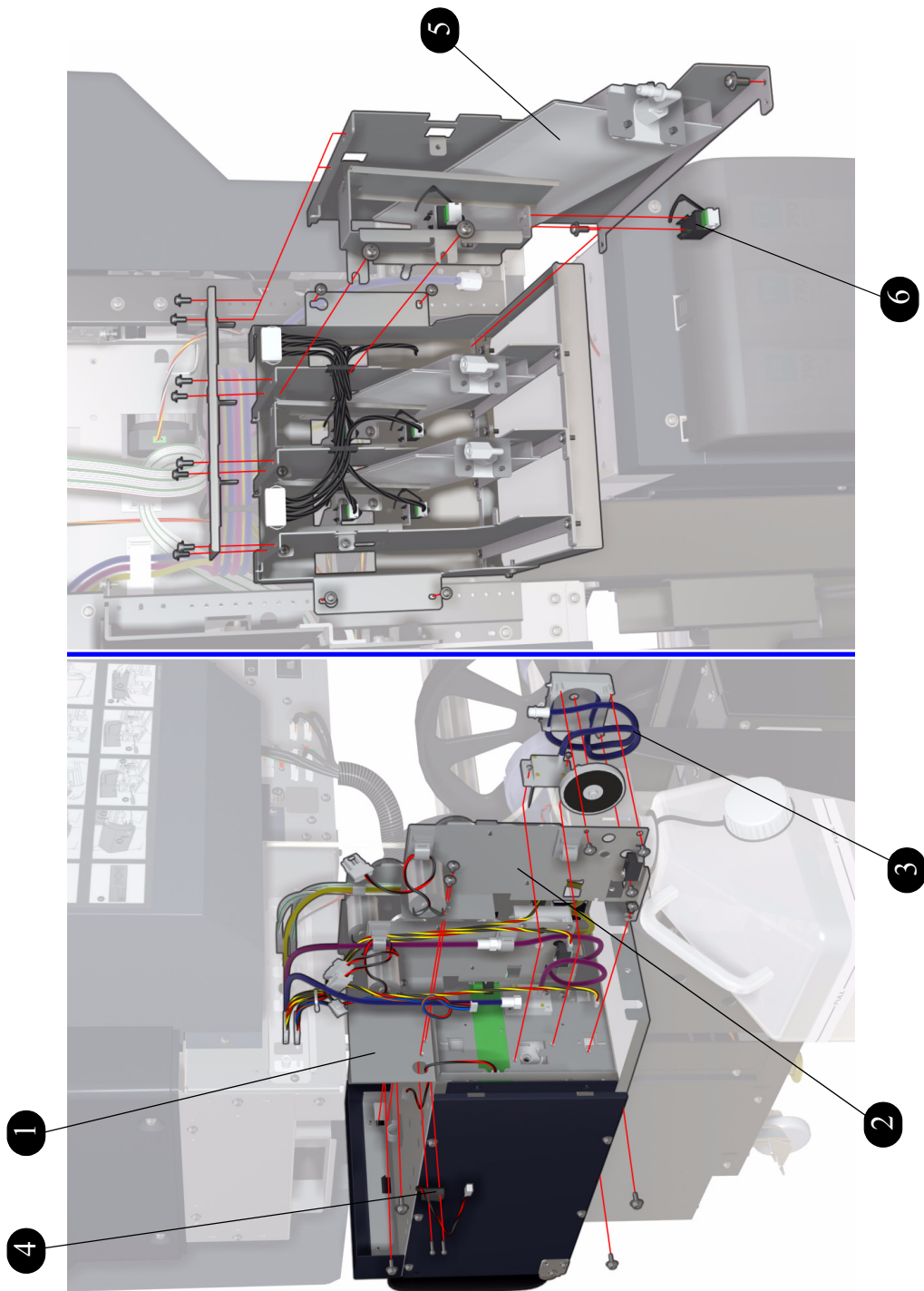


Figure 13: Ink Supply and Subtank Assemblies

Printer Stand and Waste Bottle

Printer Stand and Waste Bottle			
Reference on Drawing	HP Part Number	Quantity	Description/Comments
1	Q6693-60023	2	Foot Casters (includes 2 Foot casters)
2	Q6665-60068	1	Waste Bottle
3	Q6665-60057	1	Waste Bottle Sensor
4	Q6693-60025	1	Waste Bottle Holder Assembly and Sensor
5	Q6693-60035	2	Leveler

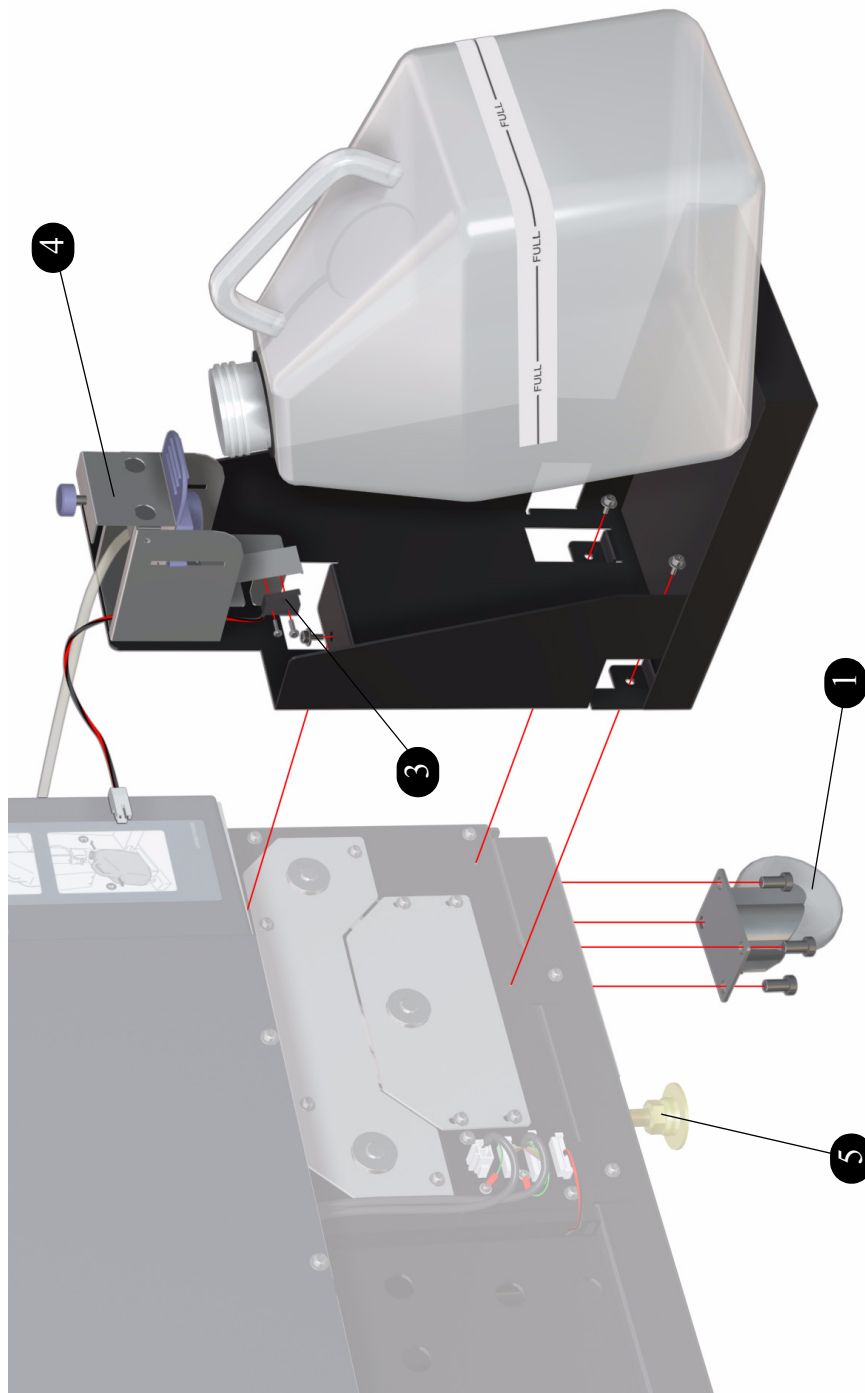


Figure 14: Printer Stand and Waste Bottle

Media Feed and TUR Sensors

Media Feed and TUR Sensors			
Reference on Drawing	HP Part Number	Quantity	Description/Comments
1	Q6693-60033	1	Media Sensor Kit (Includes 2 Receiving Units and 2 Emitting Units)

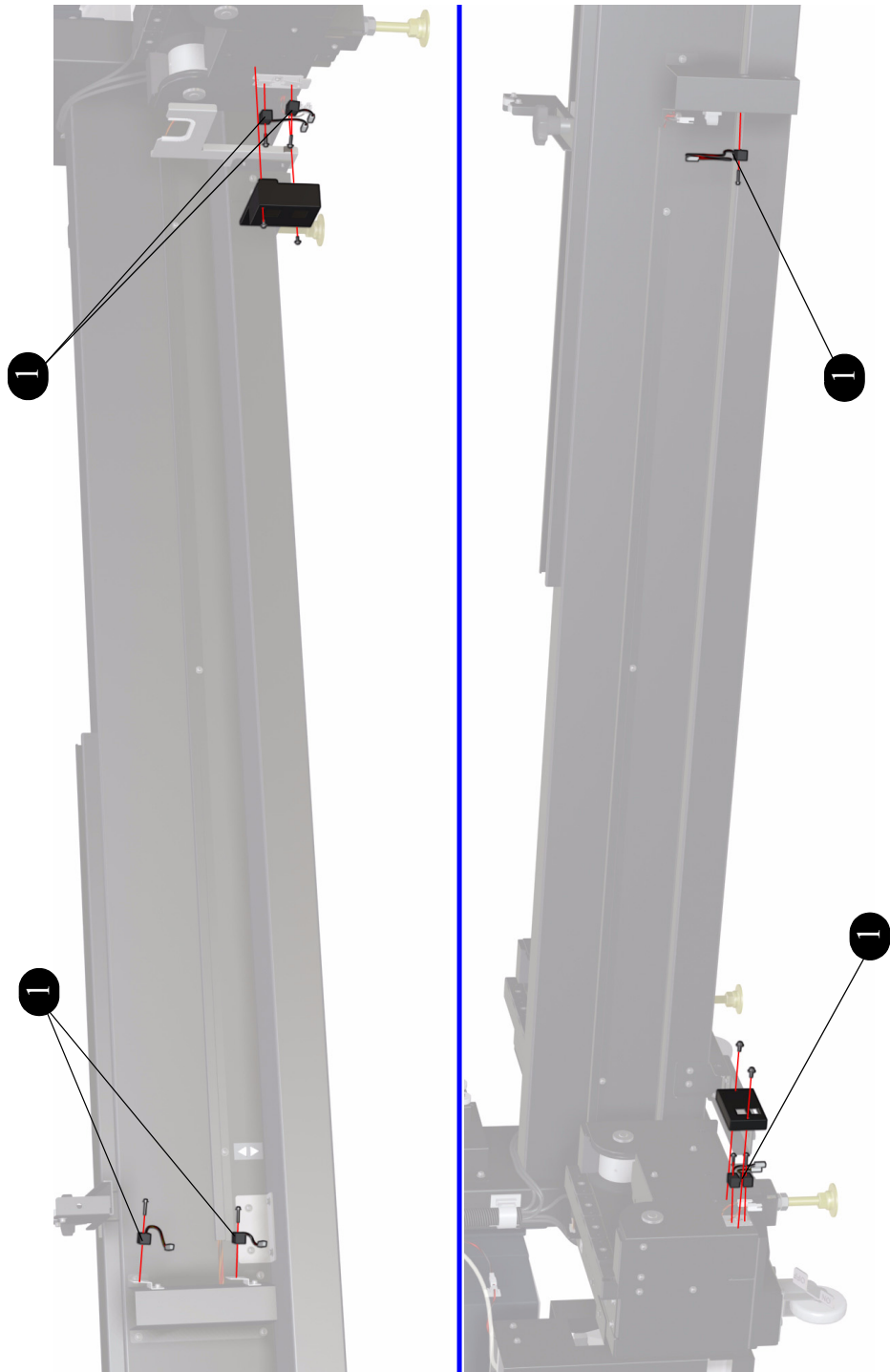


Figure 15: Media Feed and TUR Sensors

Accessories

Accessories			
Reference on Drawing	HP Part Number	Quantity	Description/Comments
1	Q6693-60047	2	Main Scroller *** (for the Media feed side or for the Take-up-reel side)
2	Q6693-60048	1	Sub Scroller *** (includes the Sub-Scroller Assembly)
3	Q6693-60049	1	Tension Bar Kit (can be used to replace any of the three tension bars and includes the black flanges and yellow flanges which can be used on the Media feed side and Take-up-reel side)
4	Q6693-60054	2	Foot Switch
5	Q6693-60057	1	Sub Scroller Holder Assembly (includes the Tension Arm Assembly)
6	Q6693-60055	4	Flange Spacer
7	Q6693-60056	4	Flange Stopper
8	Q6693-60041	2	Subscroller Flange
9	Q6693-60050	1	Right Tension Bar Guide
10	Q6693-60051	1	Left Tension Bar Guide
11	Q6693-60062	2	Tension Bar Flange
12	Q6693-60063	1	Media Roll Spacer (includes two screws)
-	Q6693-60064	1	Tension Bar Holder
-	Q6693-60040	1	Edge Guard Kit (when using a Liner)
-	Q6693-60042	1	Edge Guard Kit for Dual-Roll Printing (includes eight screws and four small guides)
-	Q6693-60046	1	Liner Separator Bar Set ***
-	Q6693-60052	1	Paper Tube Flanges Kit (Includes two big black Media Tubes Flanges, one rubber spacer A, one rubber spacer B and one rubber spacer C)
-	Q6693-60053	1	Paper Set Gauge
-	Q6693-60058	1	Flange Joint
-	C7790-60425	1	USB Cable (5 m)

*** These parts are contained in boxes that measure at least 3 meters, so should be dispatched directly from the parts stock to the customer.

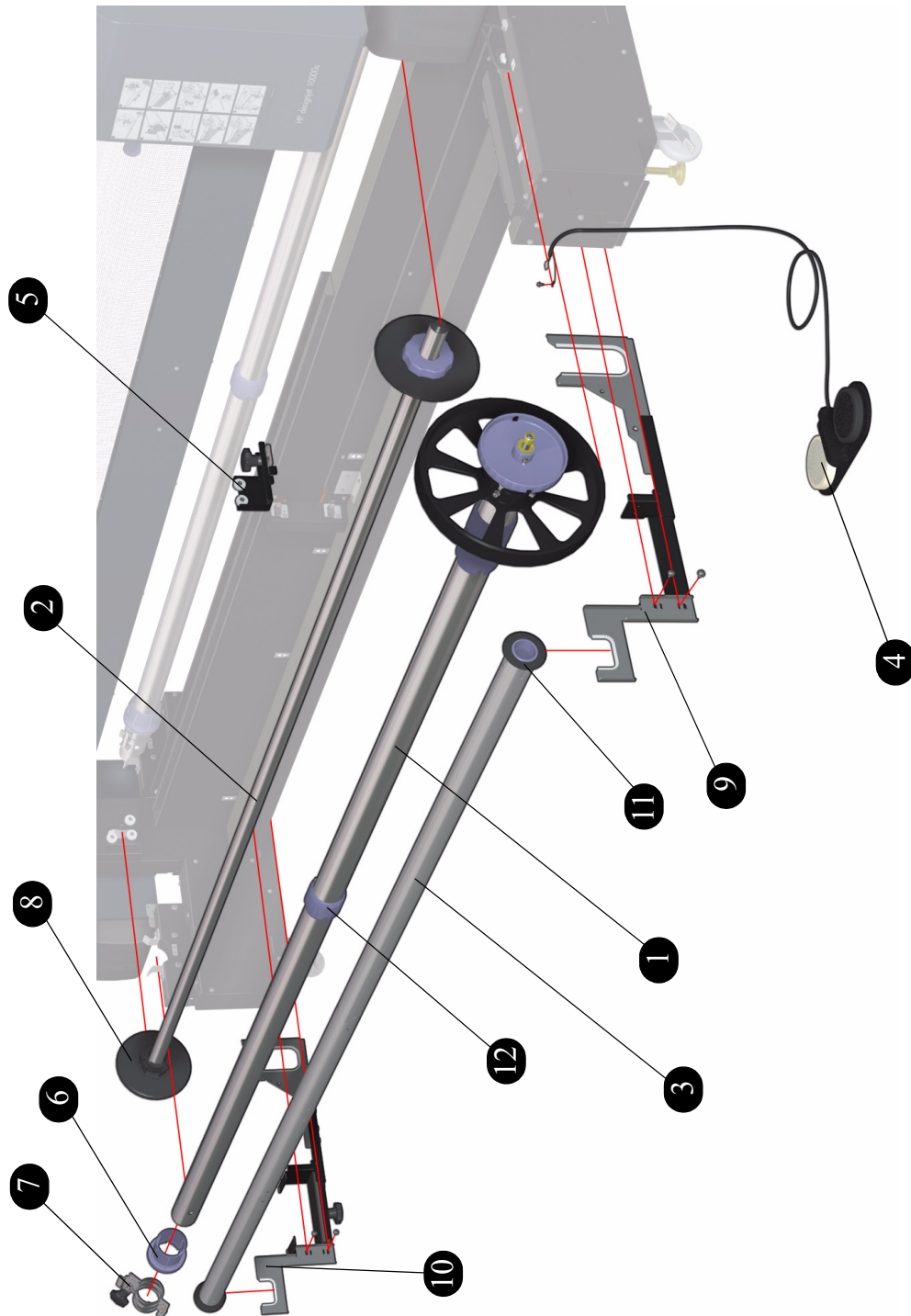


Figure 16: Accessories

Service Tools

Service Tools			
Reference on Drawing	HP Part Number	Quantity	Description/Comments
1	Q6693-60024	1	Carriage Height Adjustment Tools
2	Q6665-60071	1	Printhead Position Adjustment Tools
3	Q6665-60075	1	Capping Height Adjustment Tools
4	Q6693-60037	1	Platen Flatness Adjustment Tools (includes Shims and Dummy Heater Sensor). Shims included are: <ul style="list-style-type: none"> ■ 30 small Shims 0.1 mm (100 μm). ■ 30 small Shims 0.2 mm (200 μm). ■ 15 large Shims 0.1 mm (100 μm). ■ 15 large Shims 0.2 mm (200 μm).

If any of the above tools are required, please contact the HP Response Center or the nearest HP Support Office.

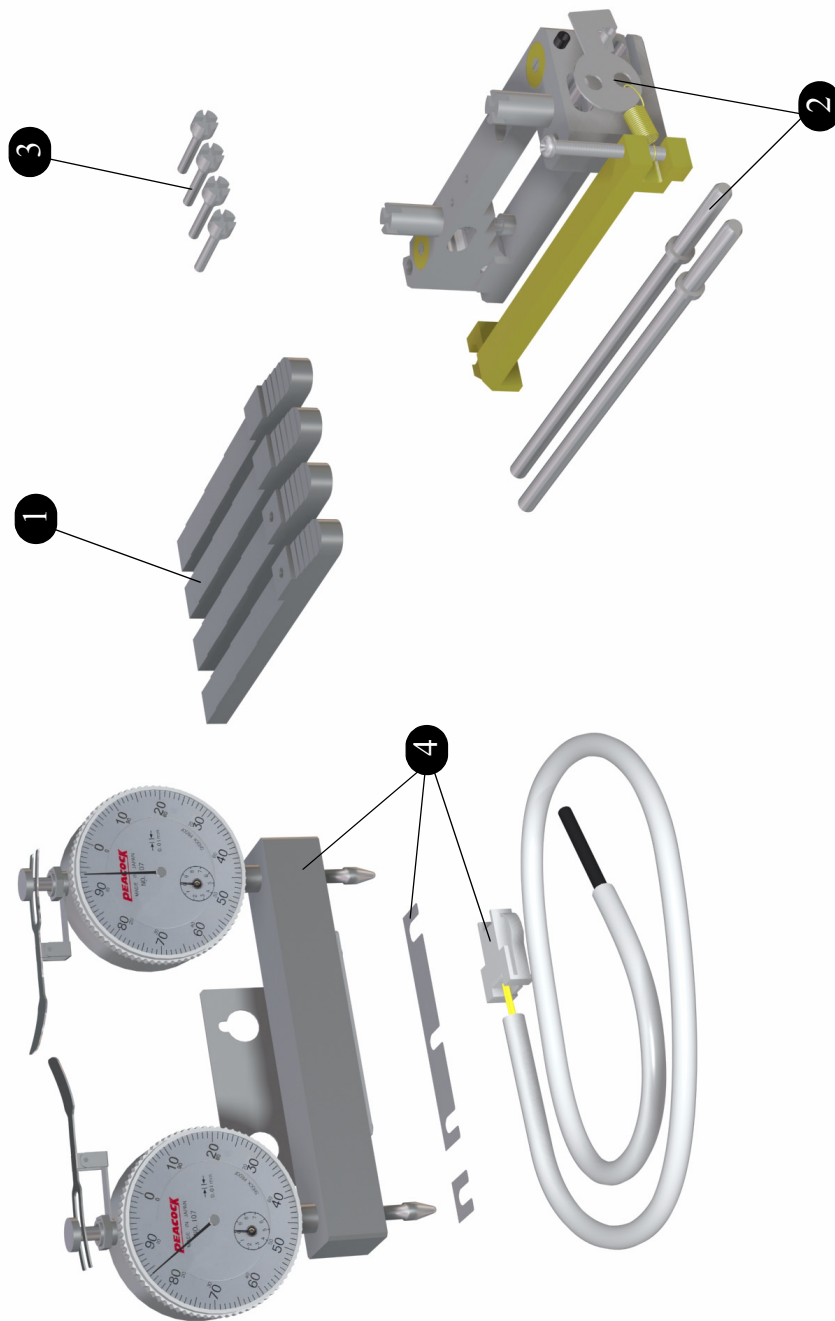


Figure 17: Service Tools

Air Purifier System

Service Tools			
Reference on Drawing	HP Part Number	Quantity	Description/Comments
1	Q6668-60007	1	Turbine Assembly 110V
2	Q6668-60008	1	Turbine Assembly 220V
3	Q6668-60009	1	APS Electronic Module / Front Panel
4	Q6668-60010	1	Foot Casters
5	Q6668-60012	1	APS Tubes Kit (with tubes of 4 meters for HP Designjet 8000s and 9000s)
6	Q6668-60017	1	APS Tubes Kit (with tubes of 6 meters for HP Designjet 8000s, 9000s and 10000s)
7	Q6679-60001	1	APS Replacement Filter

Removal and Installation

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Introduction

This chapter is a step by step guide to the removal and installation of the key components in the printer. You may find it useful to tick off the steps as they are performed. Use the illustration at each procedure to identify the parts referred to in the text.

The procedures appear in order of removal. So the whole machine can be stripped down by starting at the beginning of this chapter and working through the subsequent procedures.

Before using this chapter to remove and install a new component, always make sure that you have performed the relevant service test from Chapter 4. If the test passes you will not need to replace the component.

Safety Precautions

Review WARNING and CAUTION symbols and instructions before you service the printer. Follow these warnings and cautions for your protection and to avoid damaging the printer.

Serious shock hazard leading to death or injury may result if you do not take the following precautions:

Ensure that the ac power outlet (mains) has a protective earth (ground) terminal.

Switch the Printer Off, and disconnect it from the power source prior to performing any maintenance.

Prevent water or other liquids from running onto electrical components or circuits, or through openings in the module.

Electrostatic Discharge (ESD) Precautions

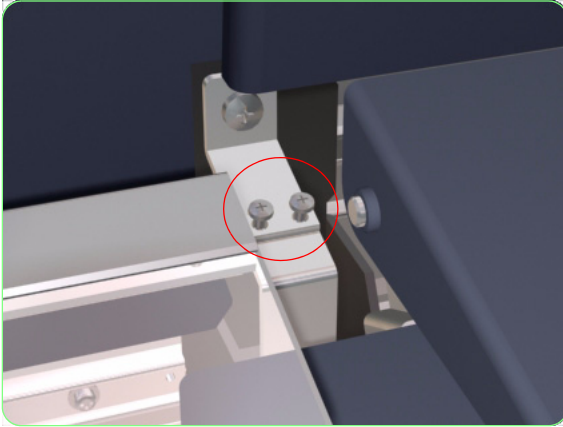
To prevent damage to the Printer circuits from high-voltage electrostatic discharge (ESD):

1. Do not wear clothing that is subject to static build-up.
2. Do not handle integrated circuits (ICs) in carpeted areas.
3. Do not remove an IC or a printed circuit assembly (PCA) from its conductive foam pad or conductive packaging until you are ready to install it.
4. Ground (earth) your body while disassembling and working on the Printer.
5. After removing a cover from the Printer, attach an earthing (ground) lead between the PCA common and earth ground. Touch all tools to earth ground to remove static charges before using them on the Printer.
6. After removing any PCA from the Printer, place it on a conductive foam pad or into its conductive packaging to prevent ESD damage to any ICs on the PCA.

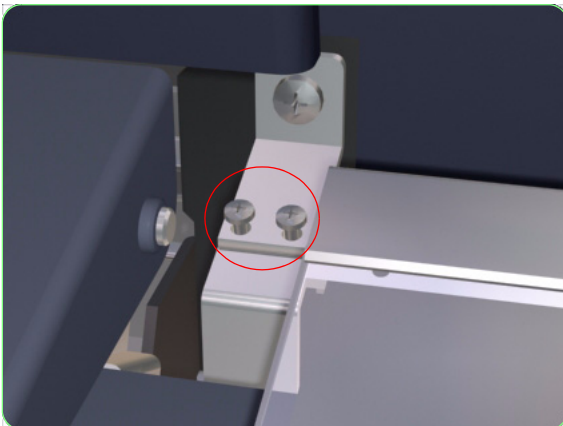
Rear Cover

Removal

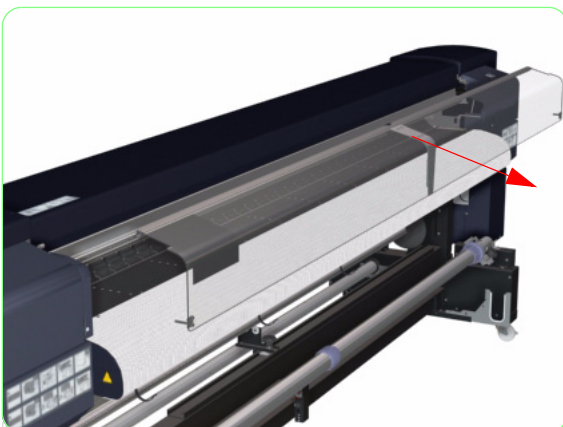
Switch off the product and remove the power cable.



1. Remove two screws that secure the Rear Cover to the right hinge.



2. Remove two screws that secure the Rear Cover to the left hinge.

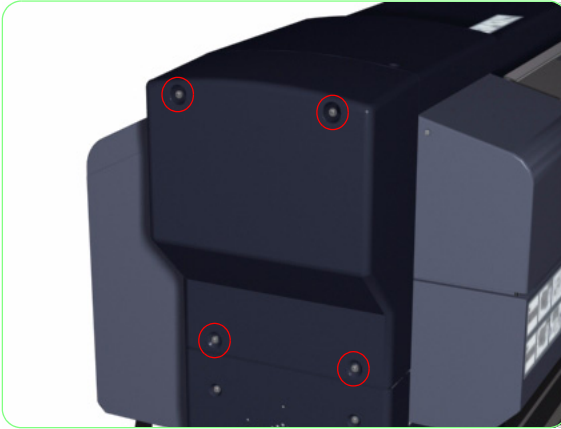


3. Remove the Rear Cover from the Printer.

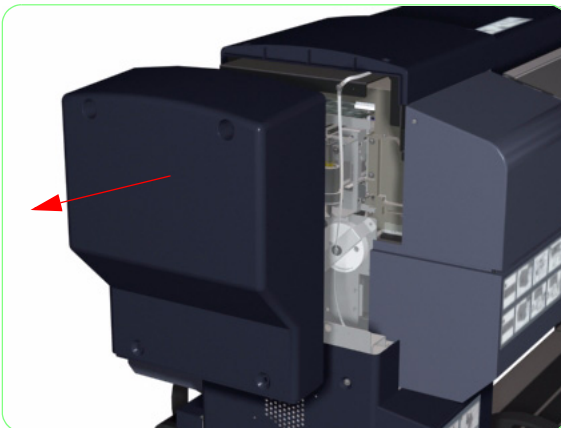
Upper Side Cover (Left or Right)

Removal

Switch off the product and remove the power cable.



1. Remove four screws that secure the Upper Side Cover to the Printer.



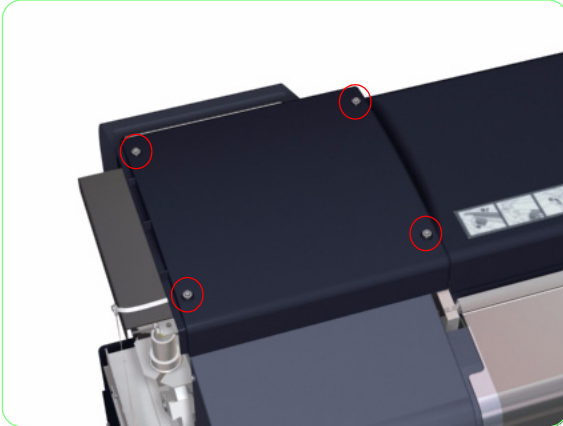
2. Remove the Upper Side Cover from the Printer.

Top Side Cover (Left or Right)

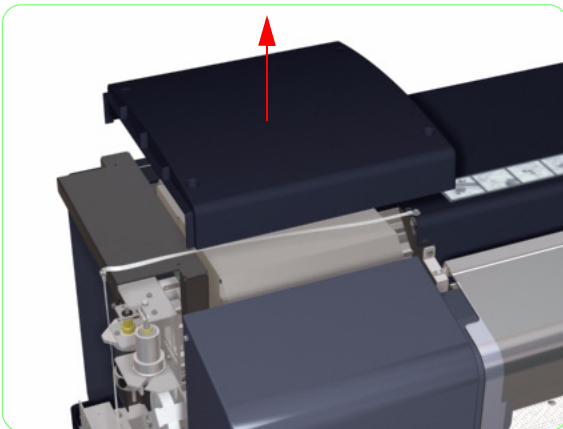
Removal

Switch off the product and remove the power cable.

1. Remove the Upper Side Cover (Left or Right)
⇒ Page 8-4.
2. Remove four screws that secure the Top Side Cover to the Printer.



3. Remove the Top Side Cover from the Printer.



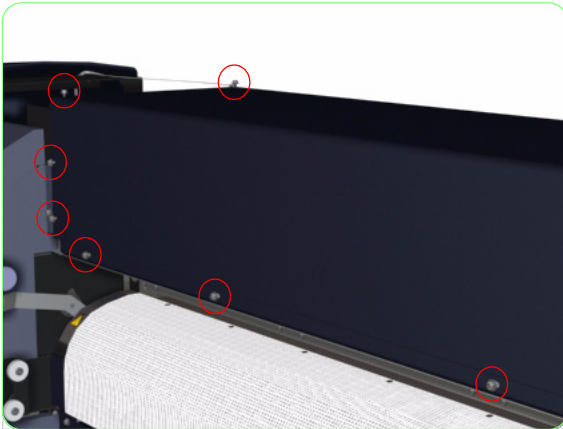
Top Cover

Removal

Switch off the product and remove the power cable.

1. Remove the Rear Cover ⇒ Page 8-3.
2. Remove the Upper Side Cover (Left and Right) ⇒ Page 8-4.
3. Remove the Top Side Cover (left and Right) ⇒ Page 8-5.

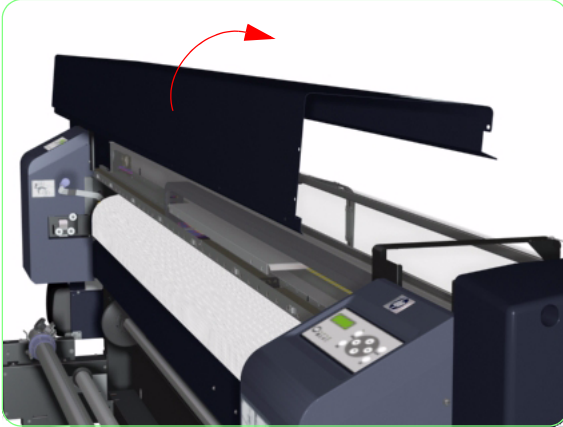
In steps 4 and 5, the screws at the bottom of the Cover are short screws (M4 x 6) and the screws at the top and at the sides are long screws (M4 x 10).



4. Remove seven screws that secure the Top Cover to the left hand side of the Printer.



5. Remove nine screws that secure the Top Cover to the right hand side of the Printer.



6. Remove the Top Cover from the Printer.

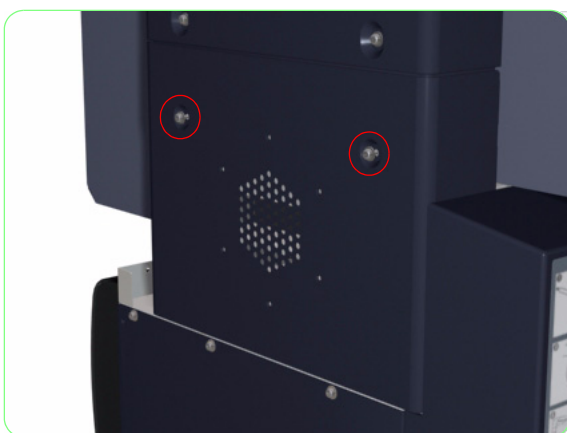
Lower Side Cover (Left or Right)

Removal

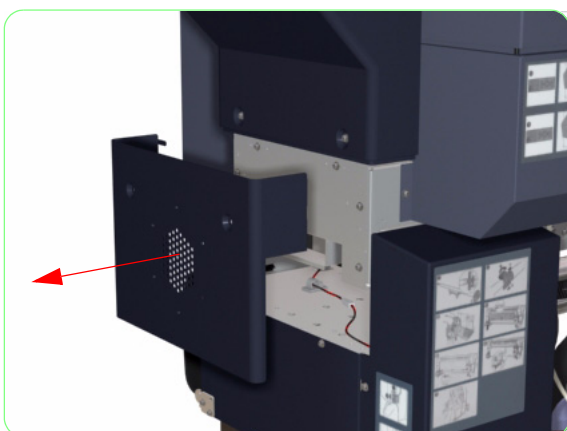
Switch off the product and remove the power cable.



1. Open the Ink Cartridge Door and remove two screws that secure the metal cover to the Ink Supply Station. Remove the metal cover from the Ink Supply Station.



2. Remove two screws that secure the Lower Side Cover to the Printer.



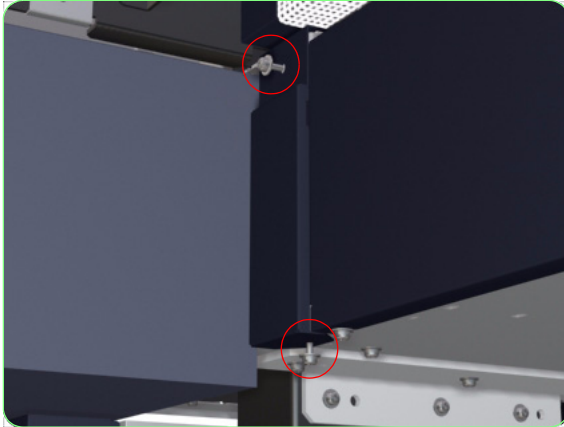
3. Remove the Lower Side Cover from the Printer.

Subtank Cover (Left or Right)

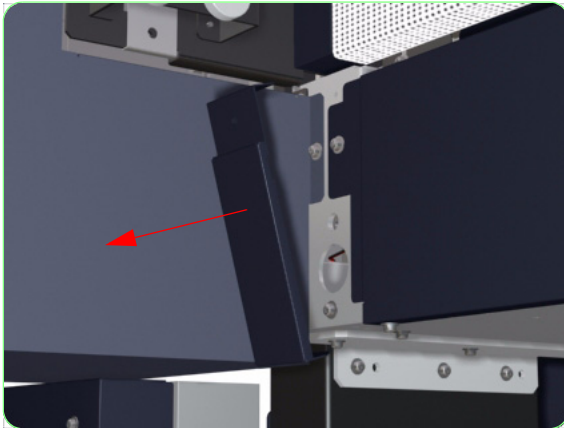
Removal

Switch off the product and remove the power cable.

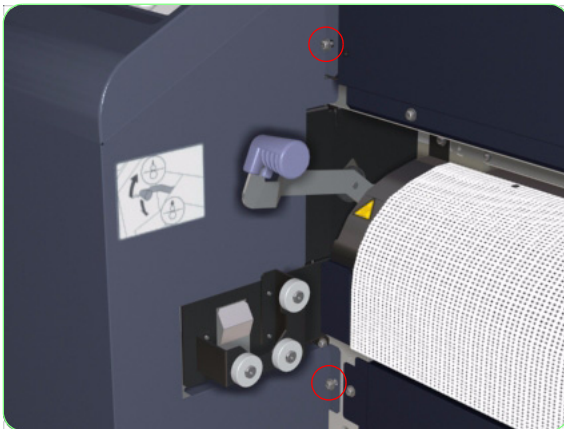
1. Remove the Upper Side Cover (Left or Right) ⇒ Page 8-4.
2. Remove the Lower Side Cover (Left or Right) ⇒ Page 8-8.
3. Remove two screws that secure the Electronics Module Side Trim to the Printer.



4. Remove the Electronics Module Side Trim from the Printer.

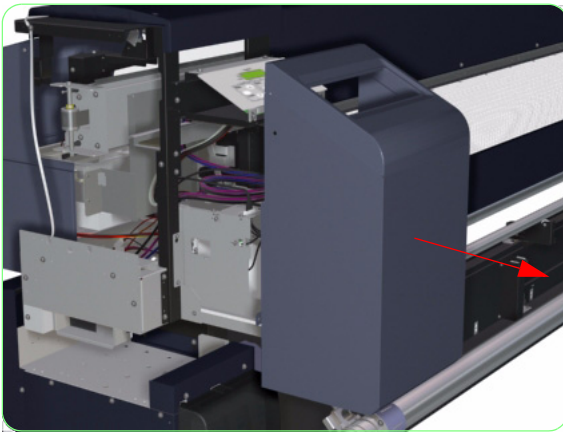


5. Remove two screws that secure the Subtank Cover to the Printer.





- 6.** Remove two screws that secure the Subtank Cover to the Printer.



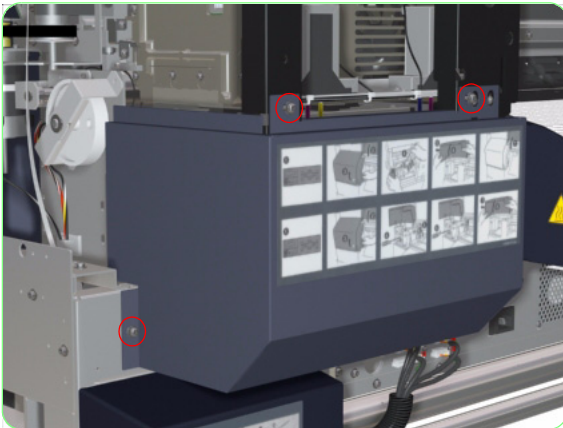
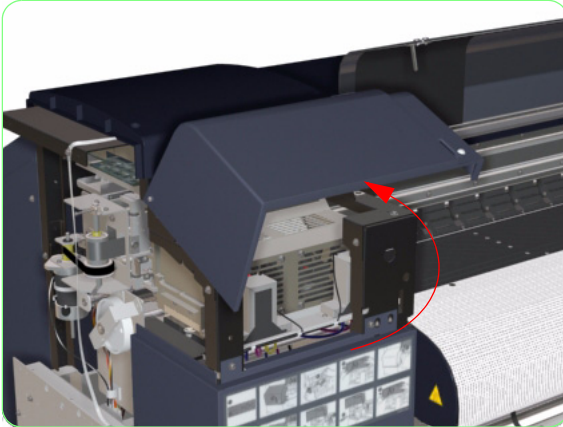
- 7.** Remove the Subtank Cover from the Printer.

Lower Capping Cover

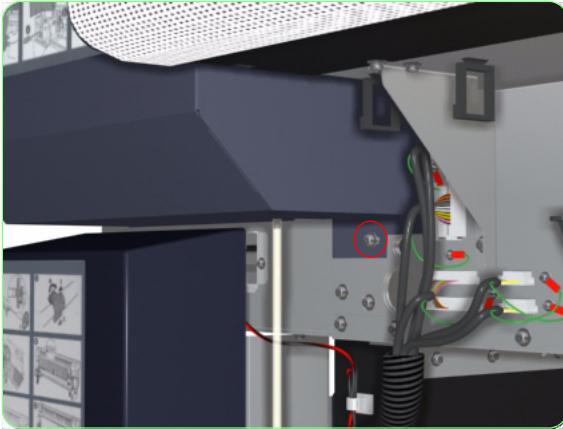
Removal

Switch off the product and remove the power cable.

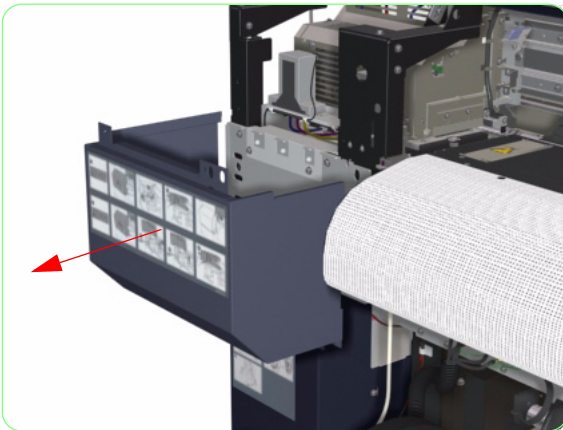
1. Remove the Upper Side Cover (Right) ⇒ Page 8-4.
2. Remove the Lower Side Cover (Right) ⇒ Page 8-8.
3. Open the Capping Door.



4. Remove three screws that secure the Lower Capping Cover to the Printer.



5. Remove one screw that secures the Lower Capping Cover to the Printer.



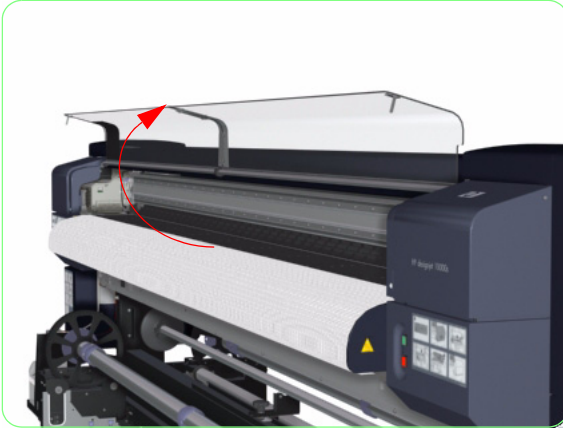
6. Remove the Lower Capping Cover from the Printer.

Capping Door

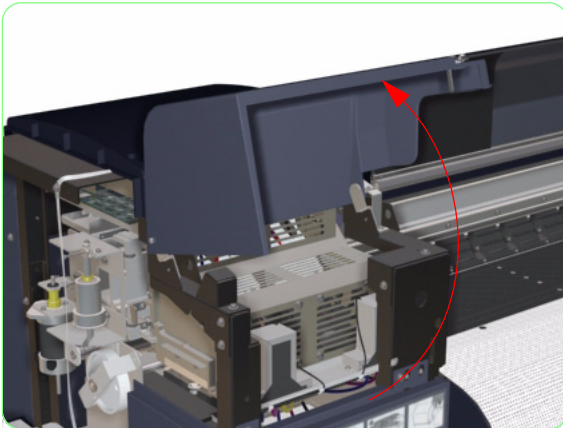
Removal

Switch off the product and remove the power cable.

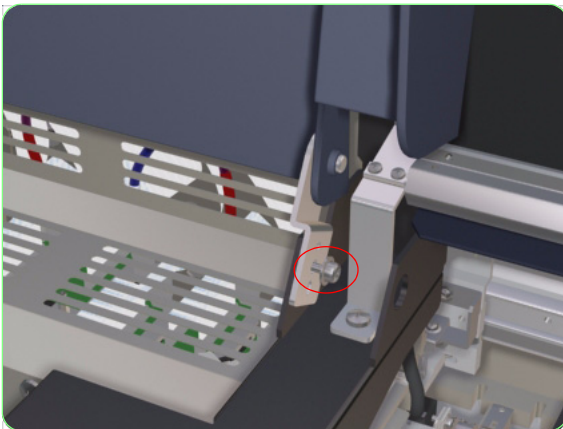
1. Remove the Upper Side Cover (Right) ⇒ Page 8-4.
2. Remove the Lower Side Cover (Right) ⇒ Page 8-8.
3. Open the Window.

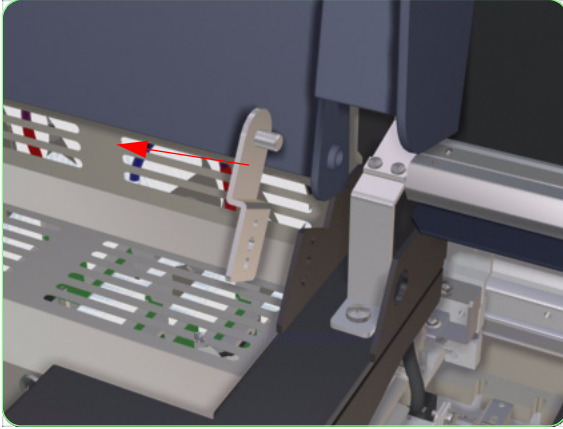


4. Open the Capping Door.

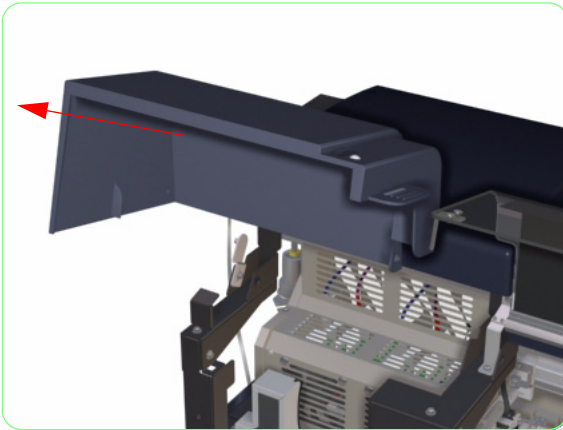


5. Remove one screw that secures the Capping Door hinge to the Printer.





6. Remove the Hinge from the Printer.



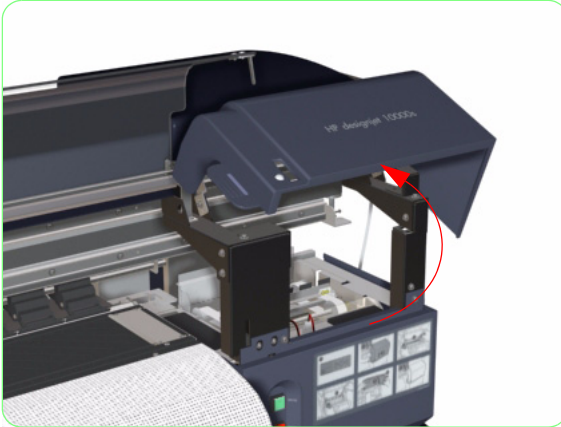
7. Slide the Capping Door to the left and remove from the Printer.

Lower Wiping Cover

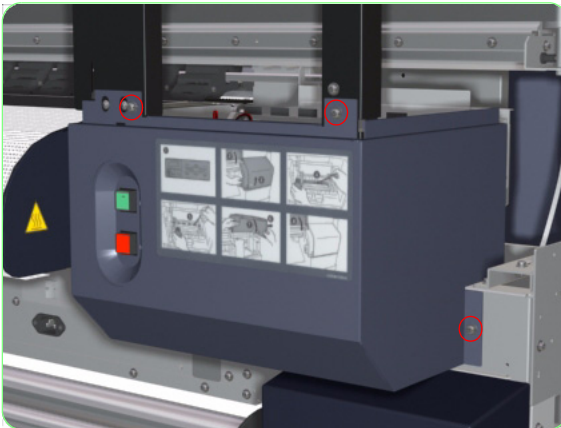
Removal

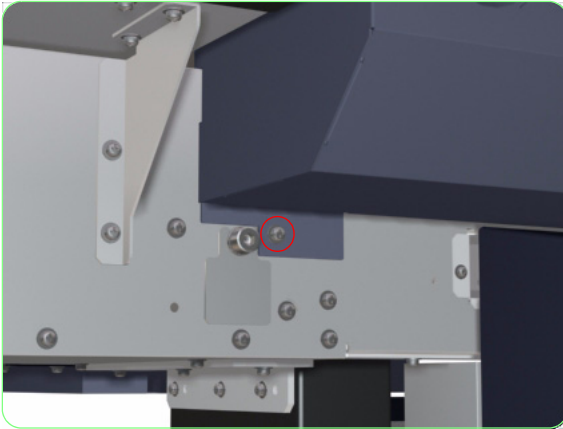
Switch off the product and remove the power cable.

1. Remove the Upper Side Cover (Left) ⇒ Page 8-4.
2. Remove the Lower Side Cover (Left) ⇒ Page 8-8.
3. Open the Wiping Door.

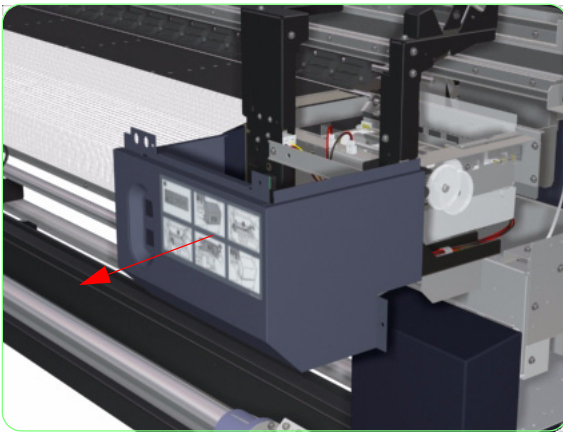


4. Remove three screws that secure the Lower Wiping Cover to the Printer.





- 5.** Remove one screw that secures the Lower Wiping Cover to the Printer.



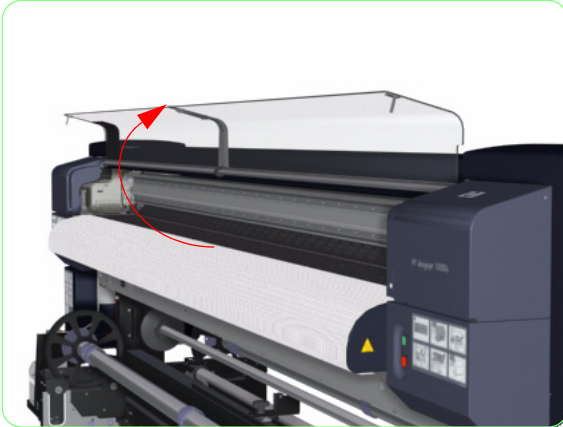
- 6.** Remove the Lower Wiping Cover from the Printer.

Wiping Door

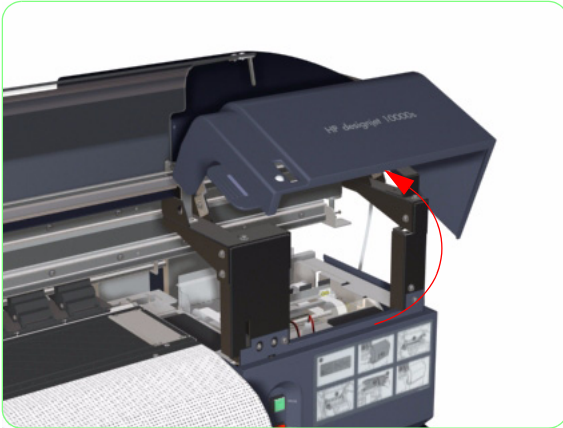
Removal

Switch off the product and remove the power cable.

1. Remove the Upper Side Cover (Left) ⇒ Page 8-4.
2. Remove the Lower Side Cover (Left) ⇒ Page 8-8.
3. Open the Window.

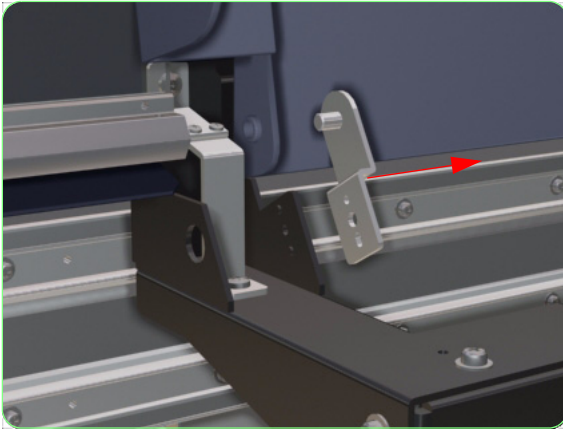


4. Open the Wiping Door.

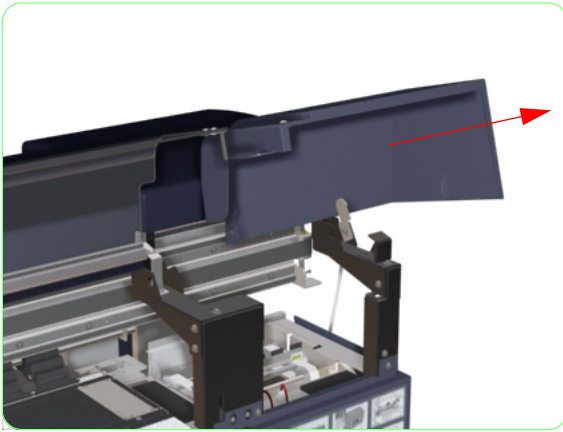


5. Remove one screw that secures the Wiping Door hinge to the Printer.





6. Remove the Hinge from the Printer.

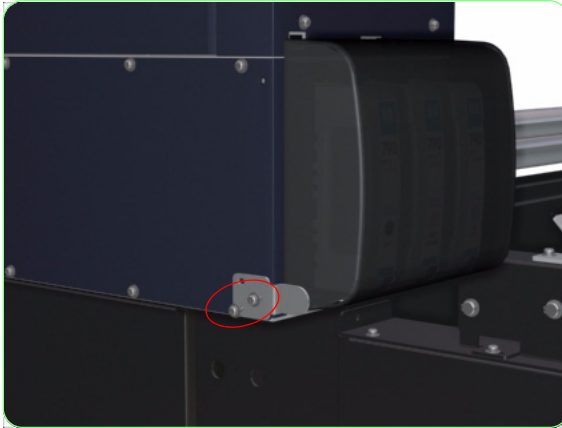


7. Slide the Wiping Door to the right and remove from the Printer.

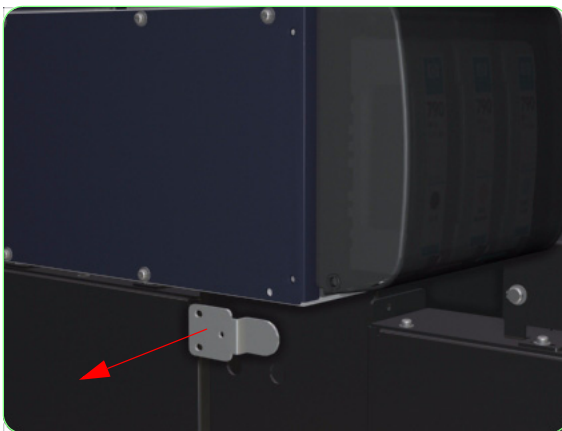
Ink Cartridge Door (Left or Right)

Removal

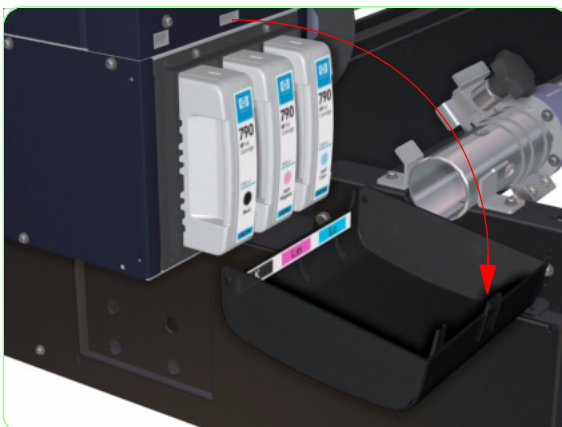
Switch off the product and remove the power cable.



- 1.** Remove one screw that secures the Ink Cartridge Door Hinge to the Printer.



- 2.** Remove the Hinge from the Printer.

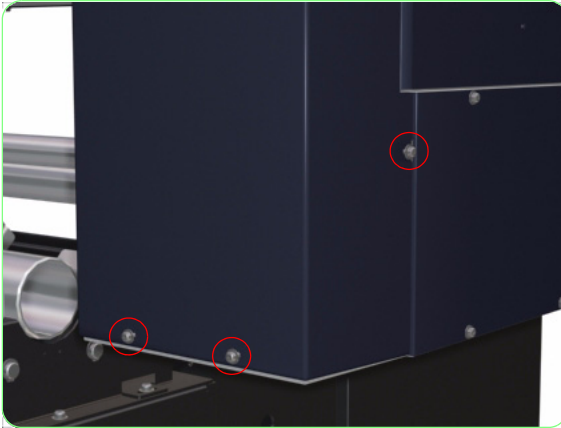


- 3.** Open the Ink Cartridge Door and remove from the Printer.

Rear Ink Cartridge Cover (Left or Right)

Removal

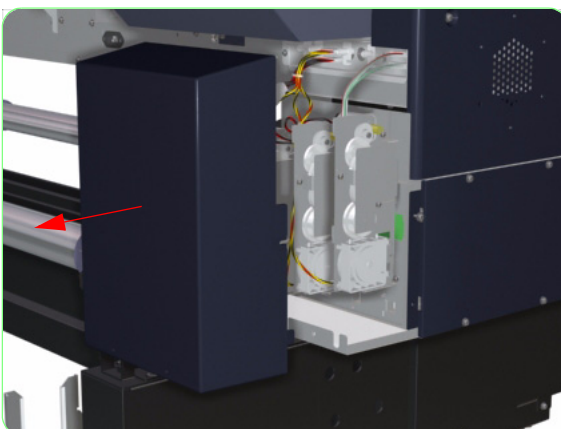
Switch off the product and remove the power cable.



1. Remove three screws that secure the Rear Ink Cartridge Cover to the Printer.



2. Loosen one screw that secures the Rear Ink Cartridge Cover to the Printer.

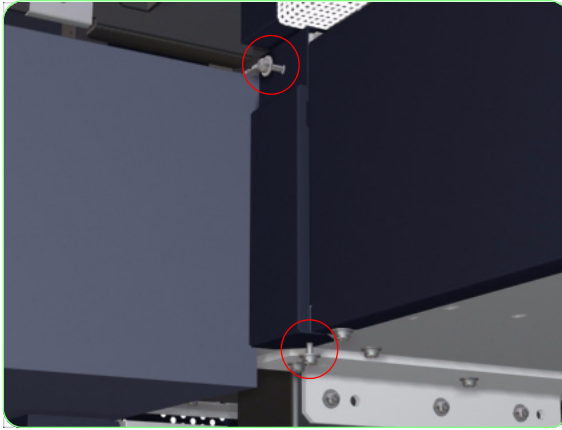


3. Remove the Rear Ink Cartridge Cover from the Printer.

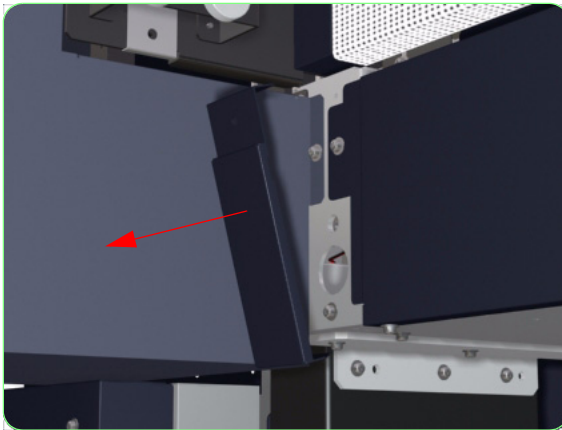
Electronics Module Cover

Removal

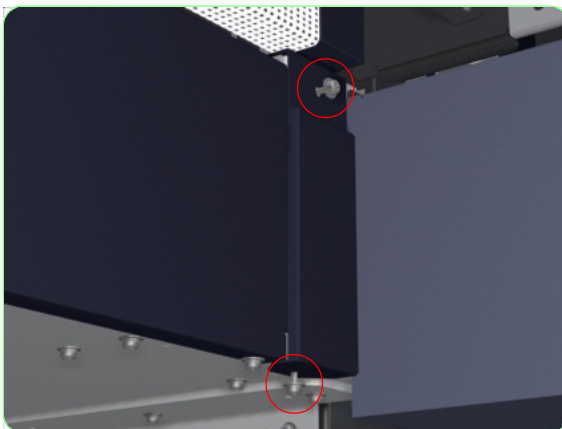
Switch off the product and remove the power cable.



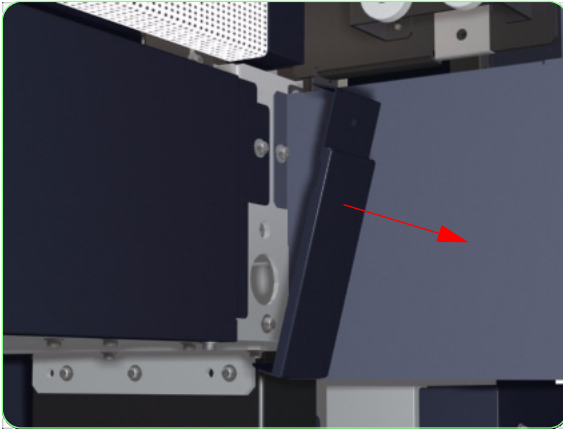
1. Remove two screws that secure the Left Electronics Module Side Trim to the Printer.



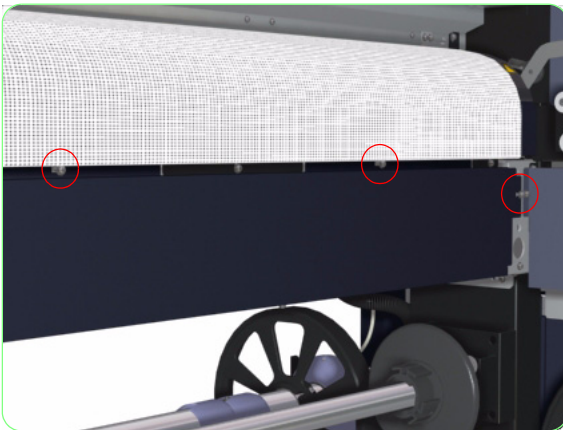
2. Remove the Left Electronics Module Side Trim from the Printer.



3. Remove two screws that secure the Right Electronics Module Side Trim to the Printer.



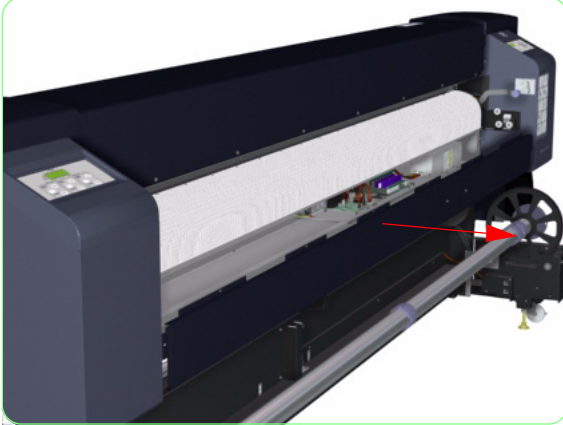
- 4.** Remove the Right Electronics Module Side Trim from the Printer.



- 5.** Remove eight screws that secure the top and the side of the Electronics Module Cover to the Printer.



- 6.** Loosen eight screws that secure the bottom of the Electronics Module Cover to the Printer.

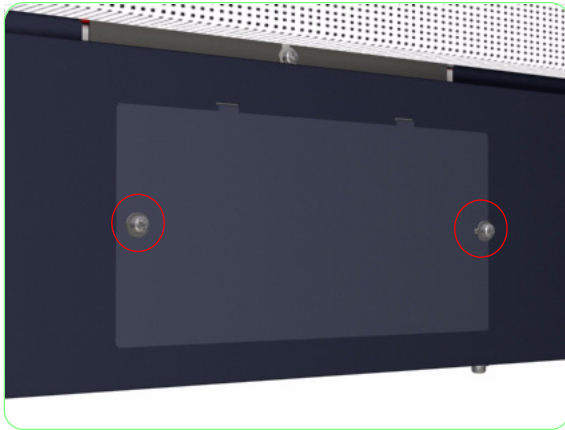


- 7.** Remove the Electronics Module Cover from the Printer.

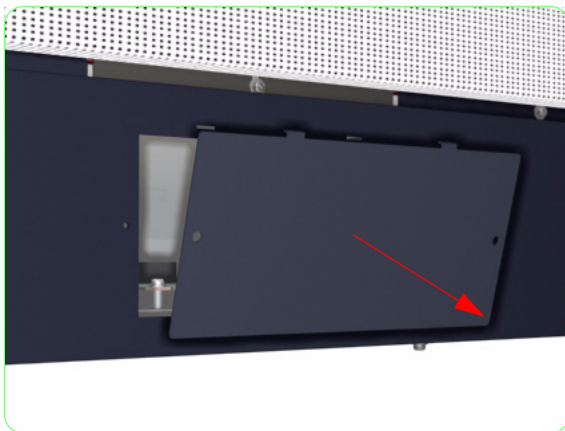
Firmware Access Cover

Removal

Switch off the product and remove the power cable.



1. Remove two screws that secure the Firmware Access Cover to the Printer.



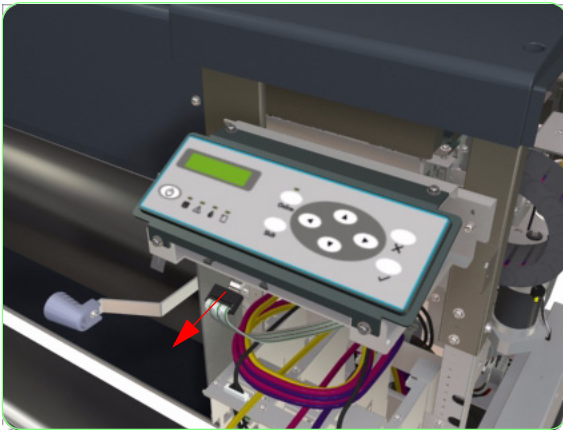
2. Remove the Firmware Access Cover from the Printer.

Front Panel

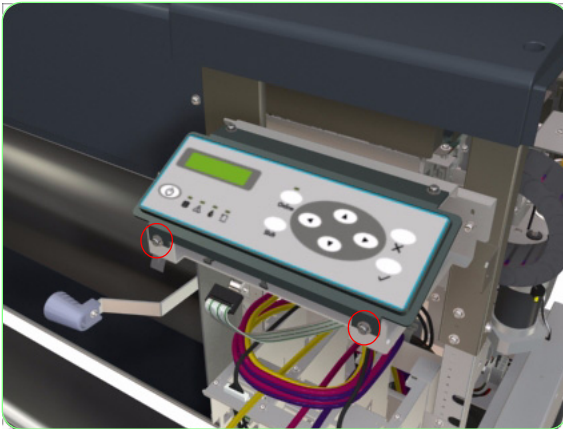
Removal

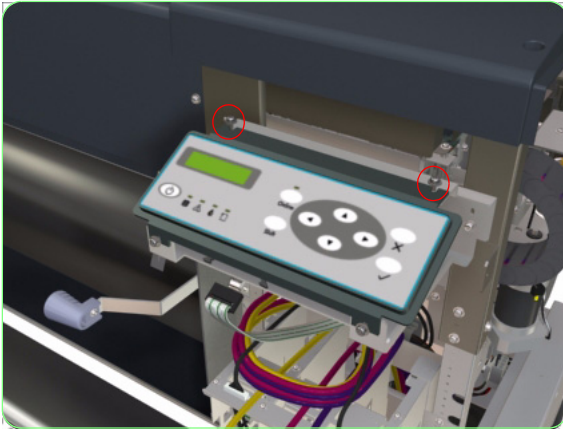
Switch off the product and remove the power cable.

1. Remove the Upper Side Cover (Right) ⇒ Page 8-4.
2. Remove the Lower Side Cover (Right) ⇒ Page 8-8.
3. Remove the Subtank Cover (Right) ⇒ Page 8-9.
4. Disconnect the Front Panel Cable from the Front Panel.

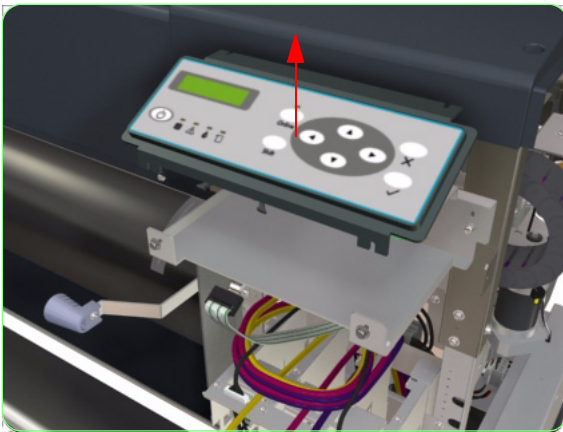


5. Loosen two screws that secure the Front Panel to the Printer.





- 6.** Remove two screws that secure the Front Panel to the Printer.



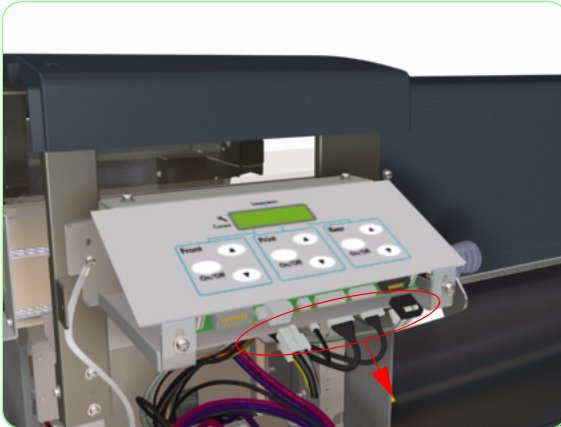
- 7.** Remove the Front Panel from the Printer.

Heater Panel

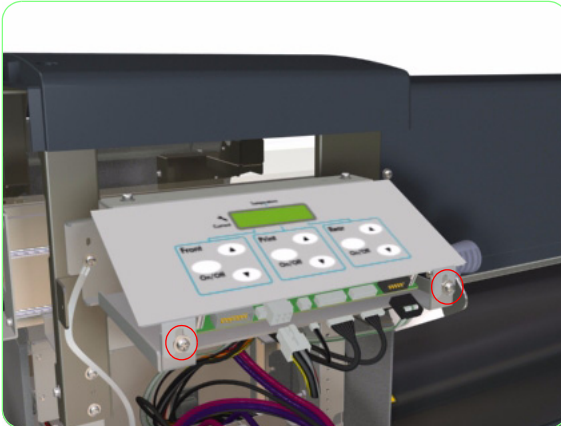
Removal

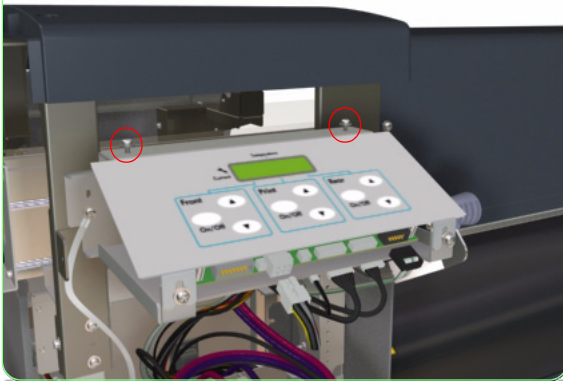
Switch off the product and remove the power cable.

1. Remove the Upper Side Cover (Left) ⇒ Page 8-4.
2. Remove the Lower Side Cover (Left) ⇒ Page 8-8.
3. Remove the Subtank Cover (Left) ⇒ Page 8-9.
4. Disconnect ALL the Heater Panel Cables from the Heater Panel.

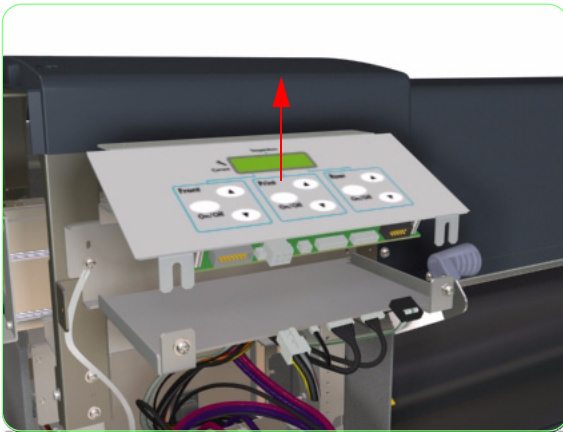


5. Loosen two screws that secure the Heater Panel to the Printer.





- 6.** Remove two screws that secure the Heater Panel to the Printer.



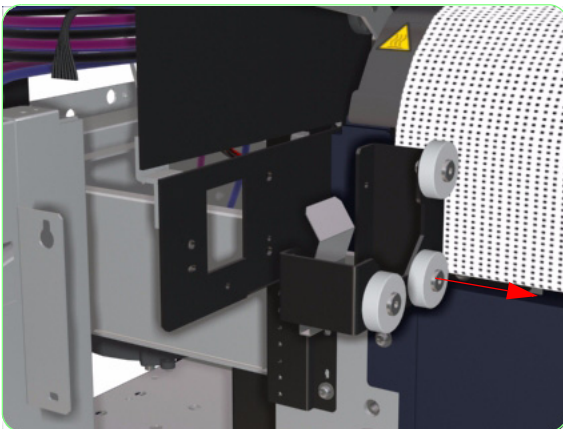
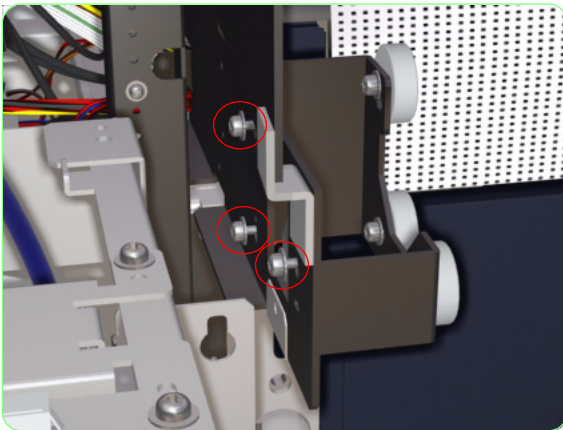
- 7.** Remove the Heater Panel from the Printer.

Front Heater

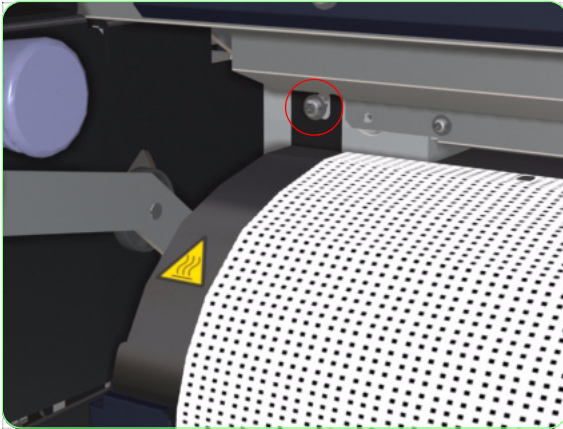
Removal

Switch off the product and remove the power cable.

1. Remove the Upper Side Cover (Left) ⇒ Page 8-4.
2. Remove the Lower Side Cover (Left) ⇒ Page 8-8.
3. Remove the Subtank Side Cover (Left) ⇒ Page 8-9.
4. Carefully pull out the Left Subtank Station slightly ⇒ Page 8-151.
5. Remove three screws that secure the Sub-Scroller Holder to the Printer.



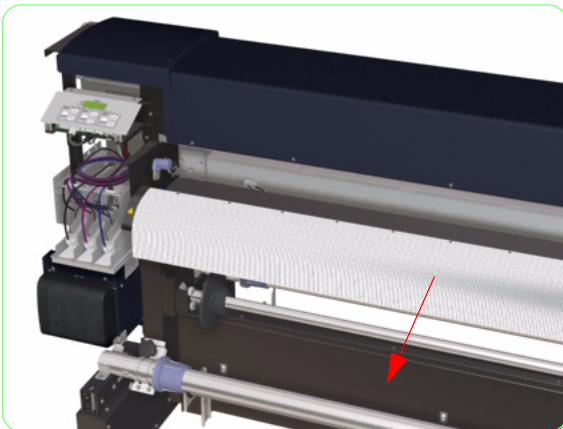
6. Remove the Sub-Scroller Holder from the Printer.



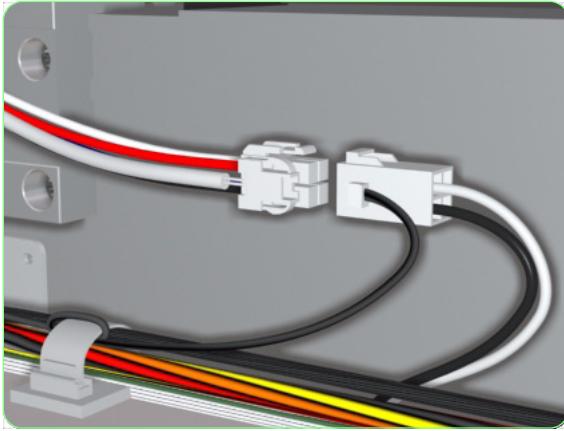
- 7.** Remove one screw from either side of the Printer.



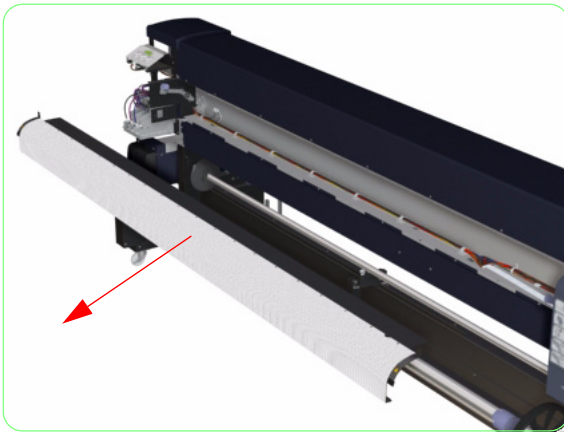
- 8.** Remove seven screws that secure the bottom of the Front Heater to the Printer.



- 9.** Pull out the Front Heater slightly.



10. Disconnect the Front Heater Cables from the Front Heater.

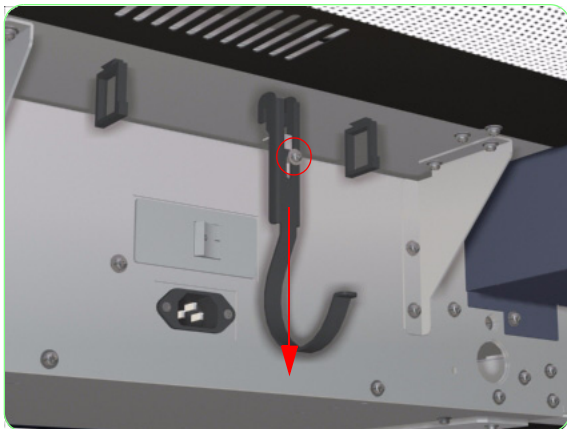


11. Remove the Front Heater (including the white net) from the Printer.

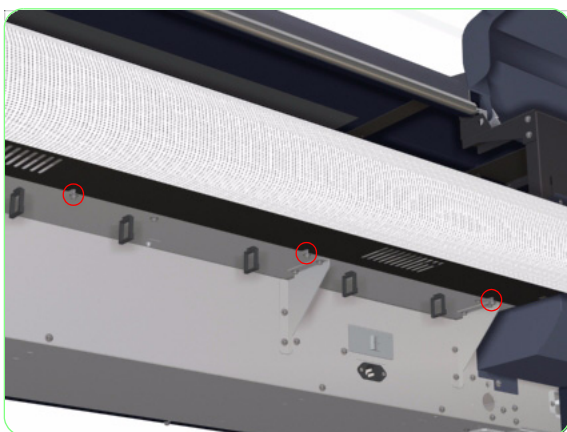
Rear Heater

Removal

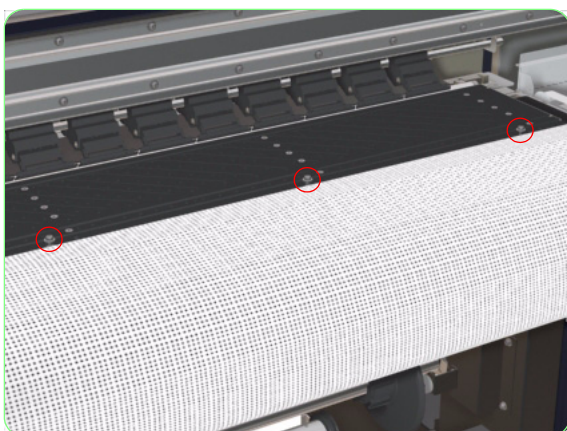
Switch off the product and remove the power cable.



1. Loosen the screw that secures each Tension Bar Holder and remove the five Holders from the Printer.

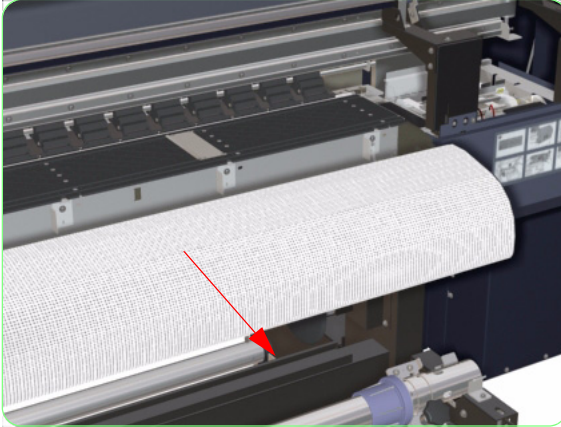


2. Loosen nine screws that secure the bottom of the Rear Heater to the Printer.

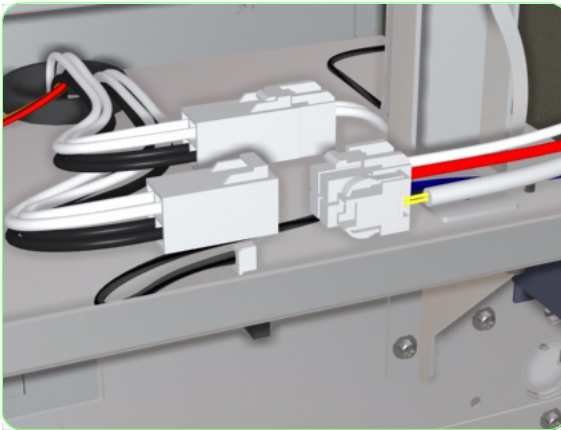


3. Remove 11 screws that secure the top of the Rear Heater to the Printer.

Make sure that the washers do NOT slip underneath the Center Platen.



4. Pull out the Rear Heater slightly.



5. Disconnect the Rear Heater Cables from the Rear Heater.



6. Remove the Rear Heater (including the white net) from the Printer.

When re-installing the Rear heater, make sure you push the white net evenly underneath the Center Platen (start from the center and move outwards).

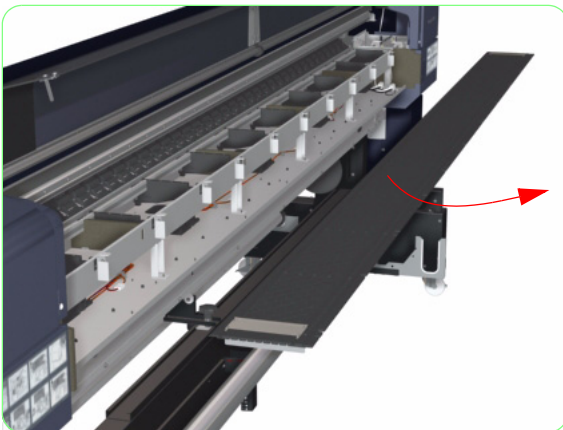
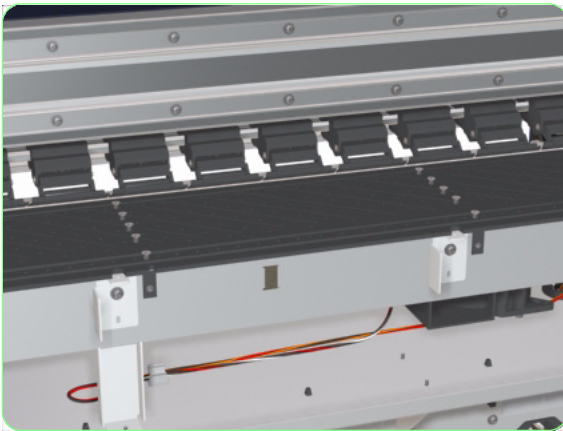
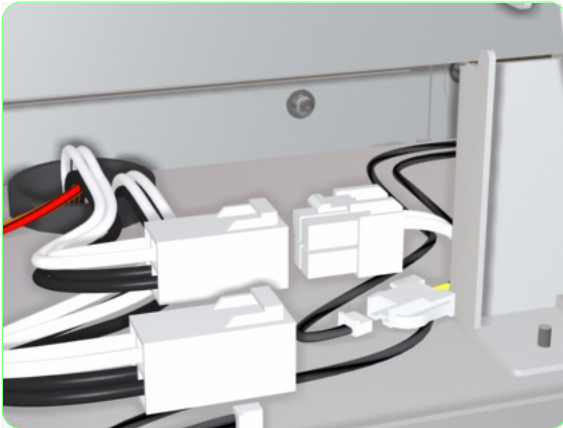
When installing the top 11 screws, make sure you tighten them starting from the center and then moving outwards.

When positioning the Rear Heater, make sure you do NOT trap the captive washers (on the bottom) between the Rear heater and the Printer.

Center Platen

Removal

Switch off the product and remove the power cable.



1. Remove the Rear Heater ⇒ Page 8-32.
2. Disconnect ALL the cables connected to the Center Platen.

3. Remove 55 screws that secure the Center Platen to the Printer.

4. Remove the Center Platen from the Printer.

When removing the Center Platen, take care not to disturb the Shims that are placed underneath the Center Platen.

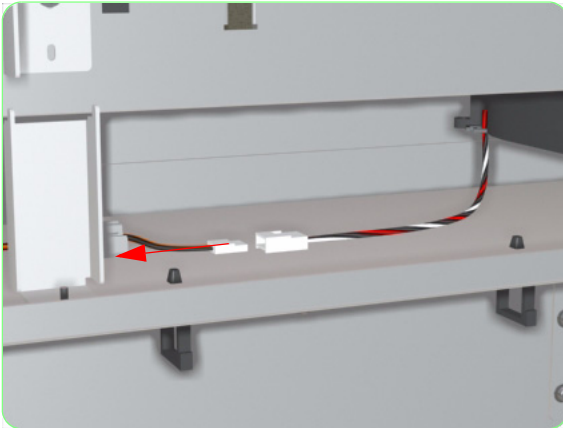
Once the Center Platen has been installed correctly, you must perform the Platen Flatness Adjustment. For further information, refer to Page 5-45.

Vacuum Fan

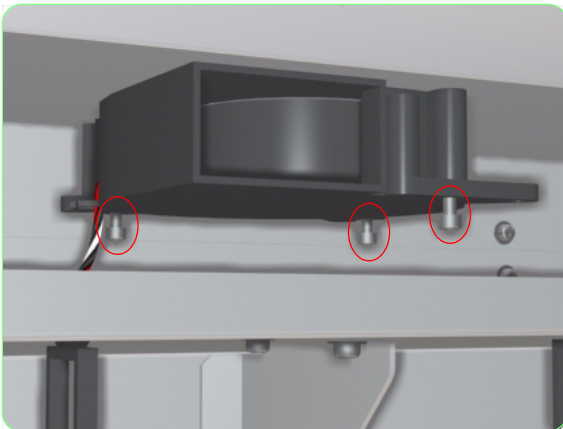
Removal

Switch off the product and remove the power cable.

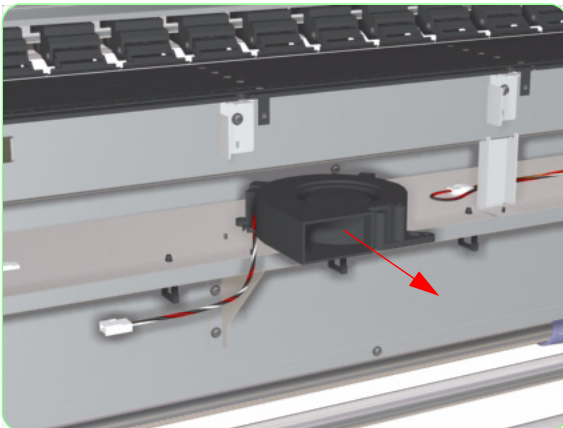
1. Remove the Rear Heater ⇒ Page 8-32.
2. Disconnect the Vacuum Fan Cable.



3. Using a small 5mm Allen Key, remove 3 screws that secure the Vacuum Fan to the Printer.



4. Remove the Vacuum Fan from the Printer.

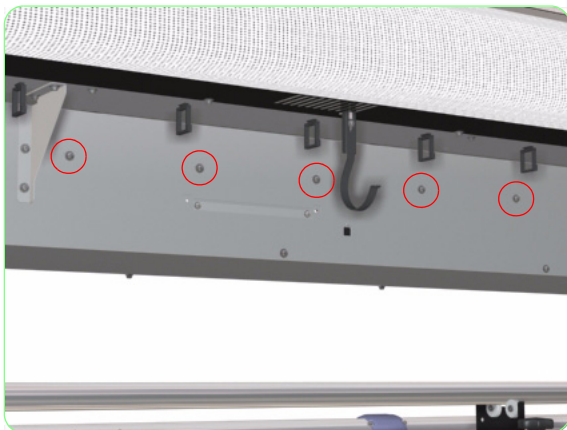


Main PCA

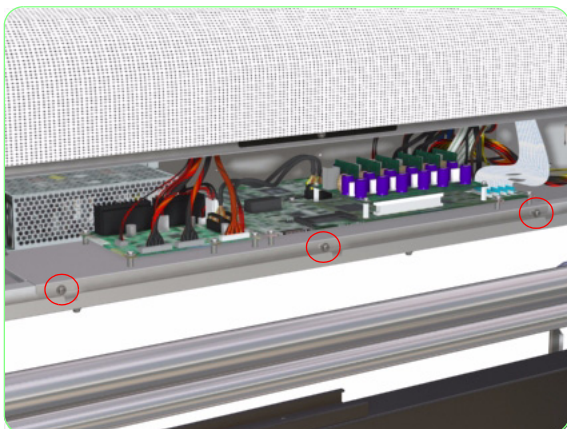
Removal

Switch off the product and remove the power cable.

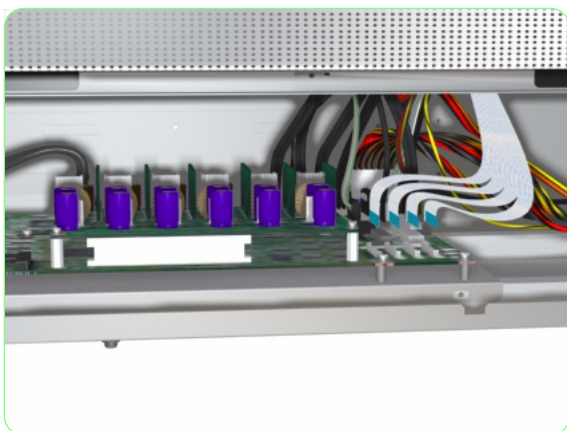
1. Remove the Electronics Module Cover ⇒ Page 8-21.
2. Remove five screws that secure the Main PCA Tray to the Printer from the rear.

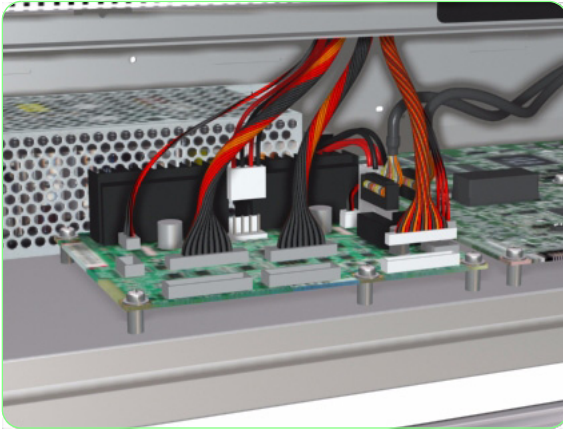


3. Remove three screws that secure the Main PCA Tray to the front of the Printer.

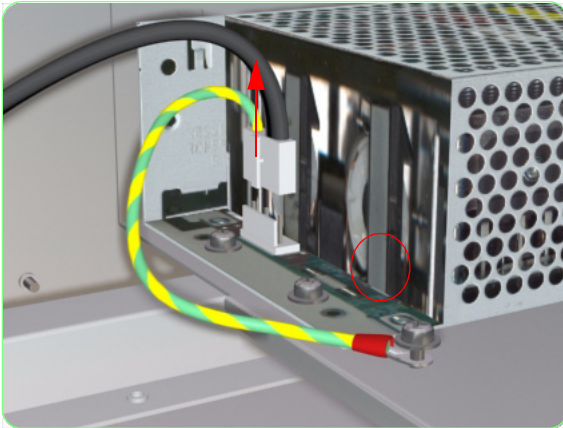


4. Disconnect ALL the cables connected to the Main PCA.

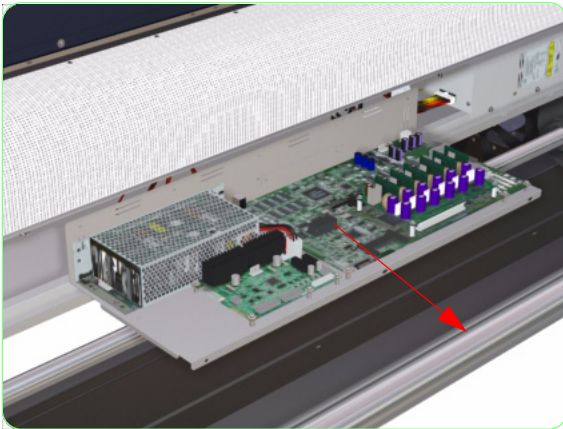




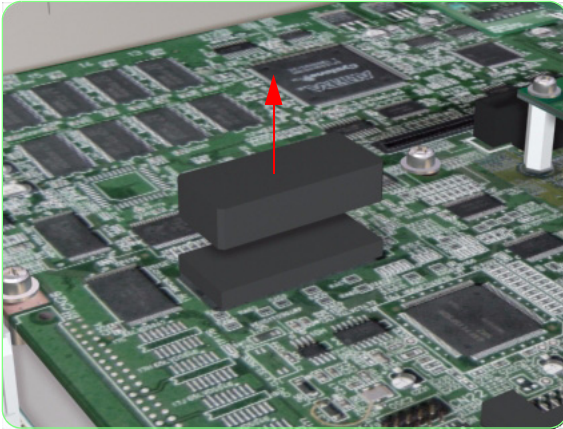
5. Disconnect ALL the cables connected to the Add-On Control PCA (no need to disconnect cables connected between the Add-On Control PCA and the Switching Power Supply Unit).



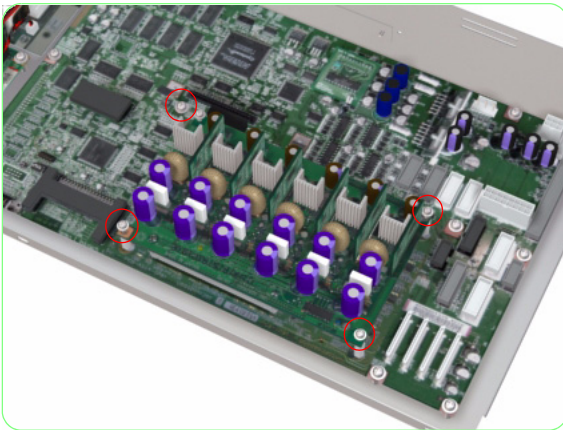
6. Remove one screw that secures the Grounding Strip and disconnect the cable from the Switching Power Supply Unit.



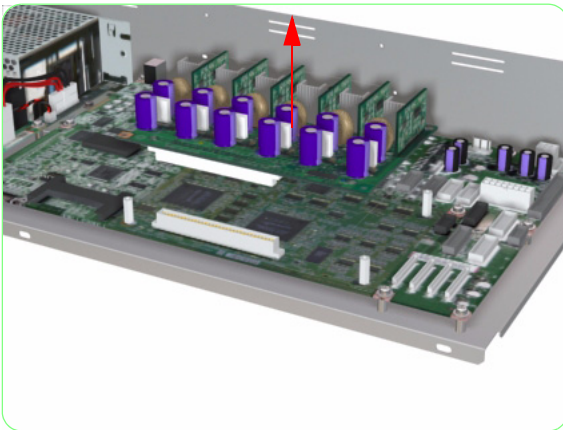
7. Remove the Main PCA Tray from the Printer.



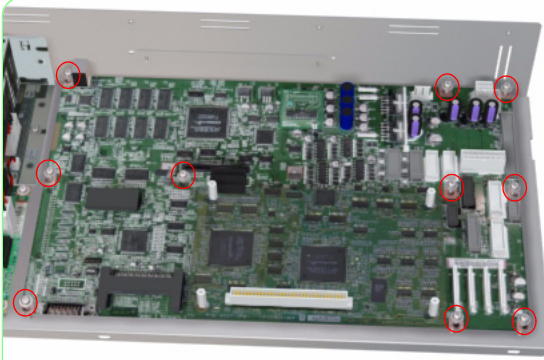
- 8.** Pull up and remove the NVRAM from the Main PCA.



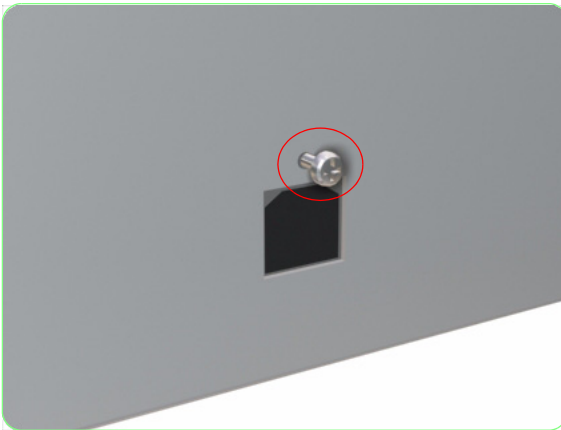
- 9.** Remove four screws that secure the Head Relay Board to the Main PCA.



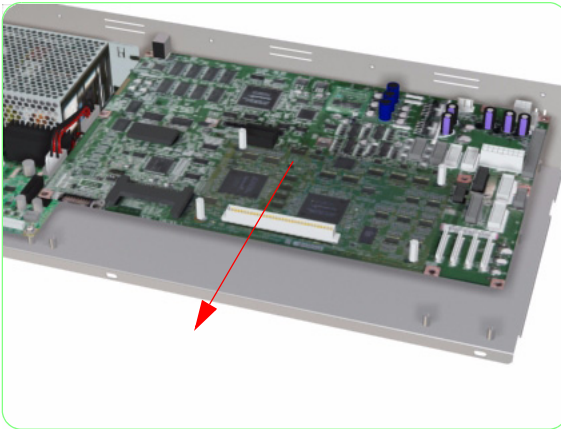
- 10.** Remove the Head Relay Board from the Main PCA.



11. Remove 10 screws that secure the Main PCA to the Tray.



12. Remove one screw that secures the USB Connector to the Tray.



13. Remove the Main PCA from the Tray.

Make sure that you re-install the NVRAM and the Head Relay Board on the NEW Main PCA.

Once the NEW Main PCA is installed, power ON the Printer and do the following:

- 1.** Enter into the Maintenance Mode ⇒ Page 4-7.
- 2.** Press the **Shift** key once and then the ◀ key to enter in to the Setup menu.

3. In the Setup submenu, scroll to "Save Calibs" and press the **OK** key.

```
# SAVE CALIBS  
>
```

4. You will need to confirm that you want to save the NVRAM Calibrations by pressing the **OK** key.

```
# SAVE CALIBS  
* OK?
```

5. In the Setup submenu, scroll to "Save NVRAM" and press the **OK** key.

```
# SAVE NVRAM  
>
```

6. You will need to confirm that you want to save the NVRAM contents by pressing the **OK** key.

```
# SAVE NVRAM  
* OK?
```

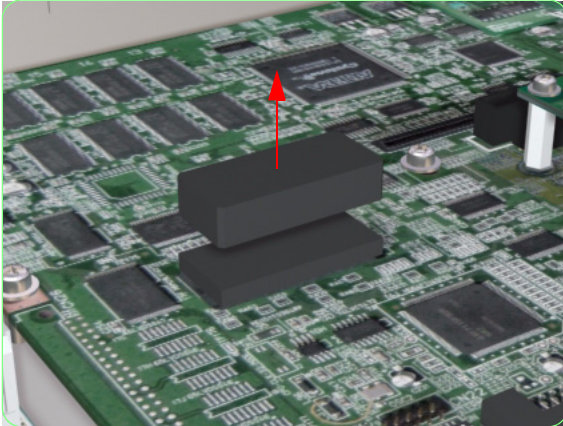
If both the NVRAM and the Main PCA are replaced at the same time, please refer to Chapter 1 for further information.

NVRAM

Removal

Switch off the product and remove the power cable.

1. Remove the Electronics Module Cover ⇒ Page 8-21.
2. Carefully pull up and remove the NVRAM from the Main PCA.



Once the NEW NVRAM is installed, power ON the Printer and do the following:

1. Enter into the Maintenance Mode ⇒ Page 4-7.
2. Press the **Shift** key once and then the ◀ key to enter in to the Setup menu.
3. In the Setup submenu, scroll to "NVRAM Init" and press the **OK** key.

```
# NVRAM INIT
>
```

4. You will need to confirm that you want to initialize the NVRAM by pressing the **OK** key.

```
# NVRAM INIT
* OK?
```

5. In the Setup submenu, scroll to "Restore NVRAM" and press the **OK** key.

```
# RESTORE NVRAM
>
```

6. You will need to confirm that you want to restore the NVRAM contents by pressing the **OK** key.

```
# RESTORE NVRAM
* OK?
```

7. Power Off the Printer, wait a few seconds and then power the Printer On again.

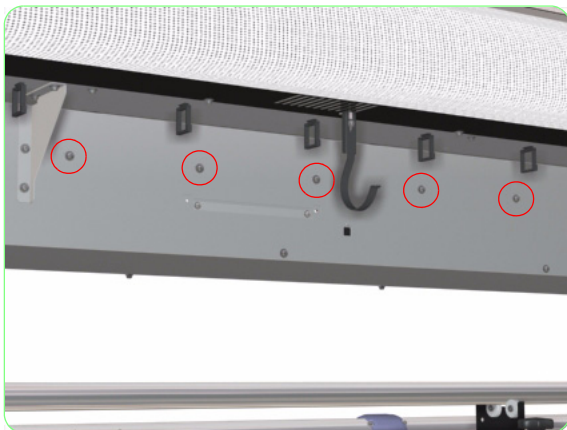
If both the NVRAM and the Main PCA are replaced at the same time, please refer to Chapter 1 for further information.

Head Relay Board

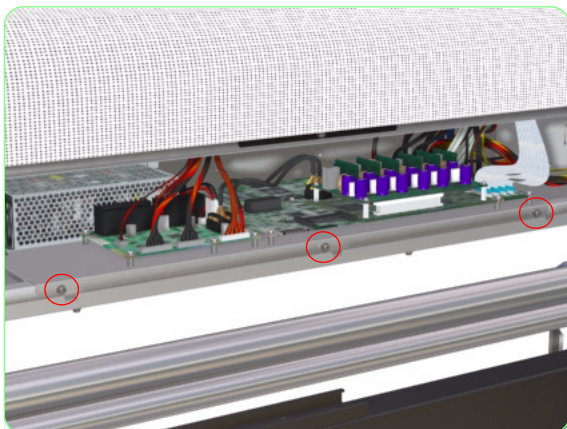
Removal

Switch off the product and remove the power cable.

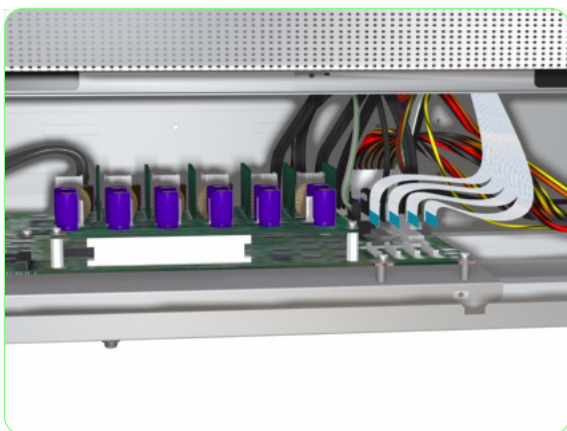
1. Remove the Electronics Module Cover ⇒ Page 8-21.
2. Remove five screws that secure the Main PCA Tray to the Printer from the rear.

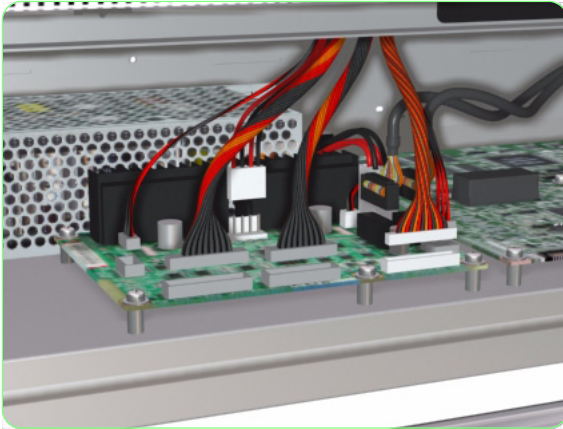


3. Remove three screws that secure the Main PCA Tray to the front of the Printer.

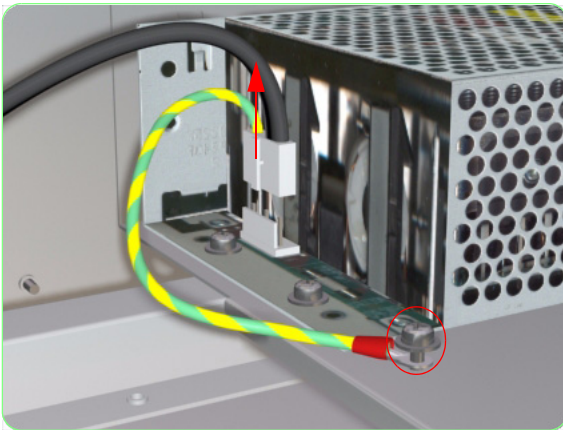


4. Disconnect ALL the cables connected to the Main PCA.

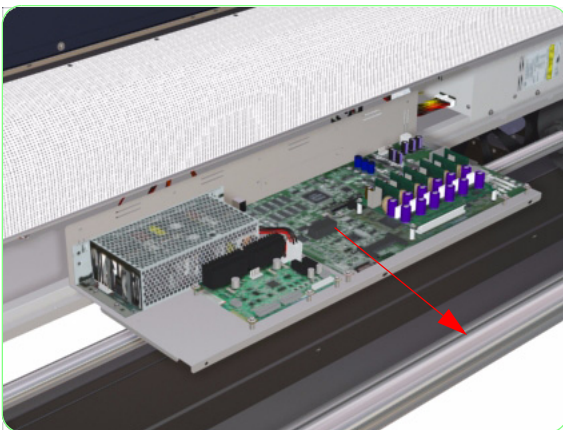




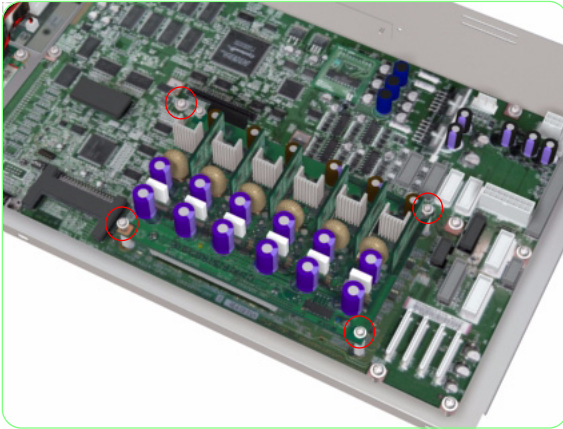
5. Disconnect ALL the cables connected to the Add-On Control PCA (no need to disconnect cables connected between the Add-On Control PCA and the Switching Power Supply Unit).



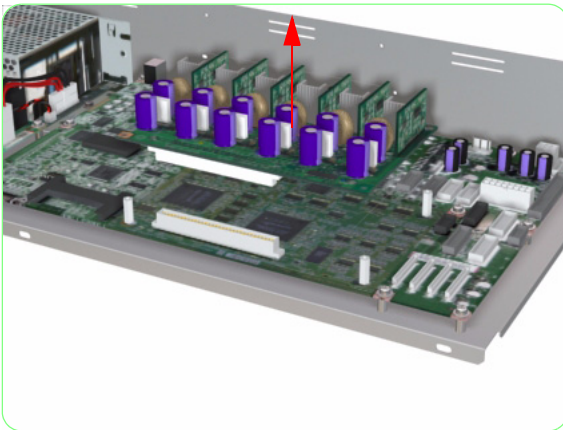
6. Remove one screw that secures the Grounding Strip and disconnect the cable from the Switching Power Supply Unit.



7. Remove the Main PCA Tray from the Printer.



- 8.** Remove four screws that secure the Head Relay Board to the Main PCA.



- 9.** Remove the Head Relay Board from the Main PCA.

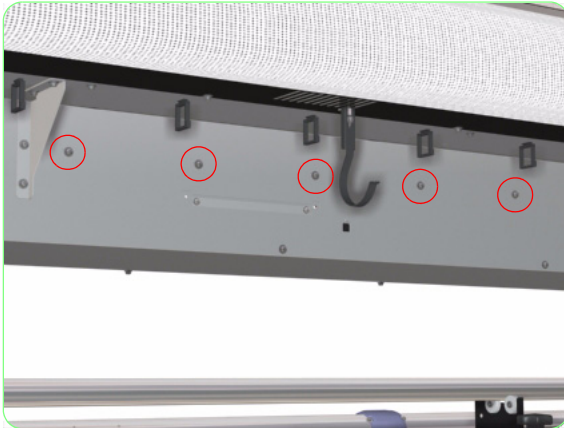
Add-On (HEB2) Control PCA

Removal

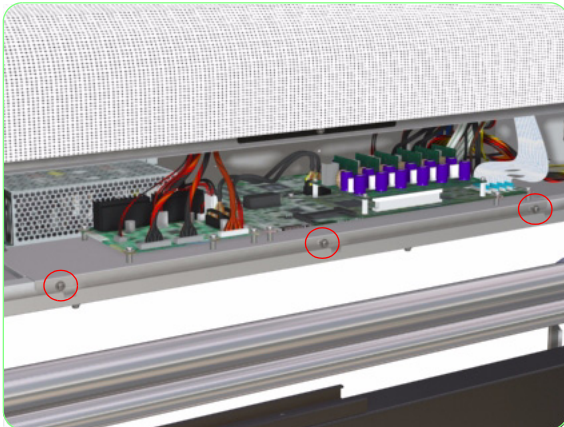
Switch off the product and remove the power cable.

1. Remove the Electronics Module Cover ⇒ Page 8-21.

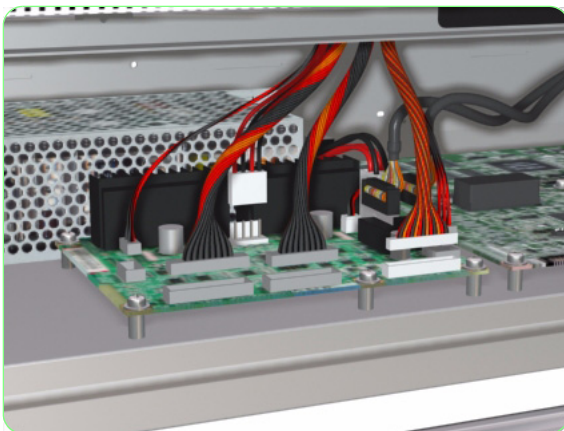
2. Remove five screws that secure the Main PCA Tray to the Printer from the rear.

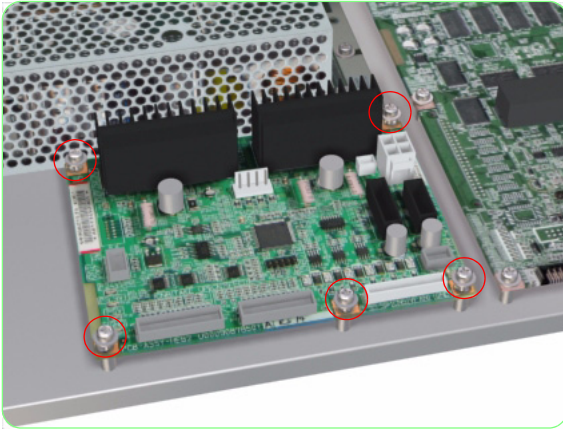


3. Remove three screws that secure the Main PCA Tray to the front of the Printer.



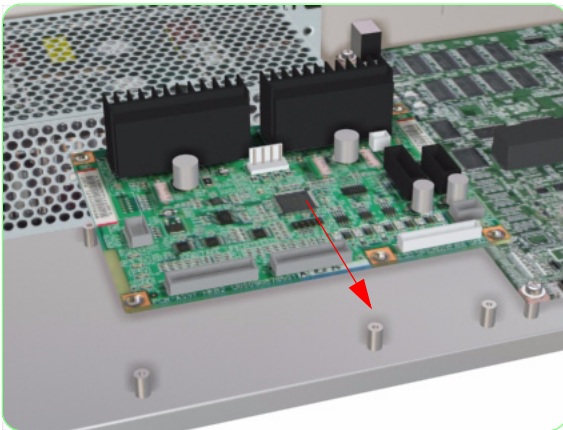
4. Disconnect ALL the cables connected to the Add-On Control PCA.





5. Pull out slightly the Main PCA Tray from the Printer and remove five screws that secure the Add-On Control PCA to the Main PCA Tray.

If you cannot access the screws that secure the Add-On Control PCA, then it is recommended to disconnect ALL the cables from the Main PCA and remove the Main PCA Tray from the Printer.



6. Remove the Add-On Control PCA from the Main PCA Tray.

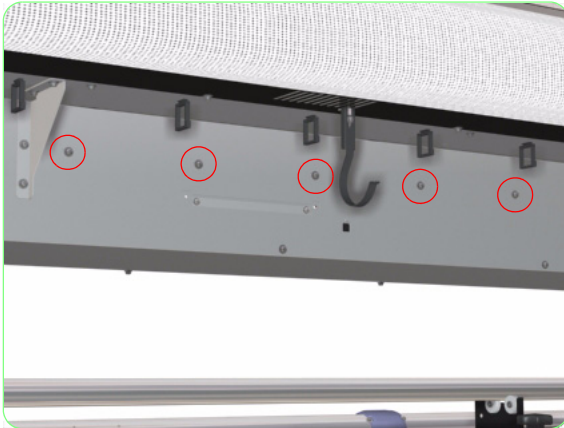
Switching Power Supply Unit

Removal

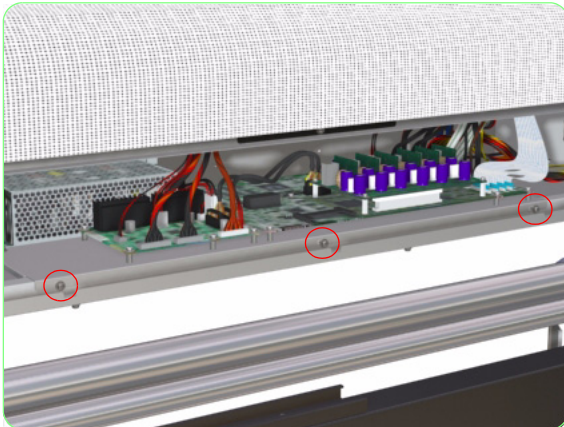
Switch off the product and remove the power cable.

1. Remove the Electronics Module Cover ⇒ Page 8-21.

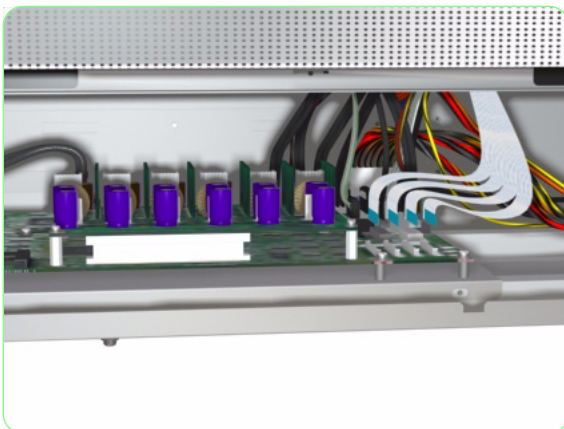
2. Remove five screws that secure the Main PCA Tray to the Printer from the rear.

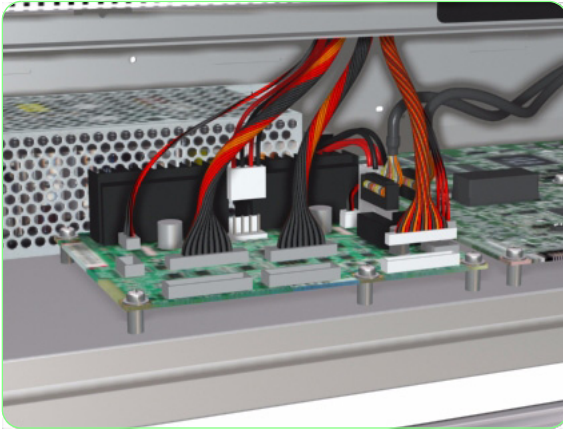


3. Remove three screws that secure the Main PCA Tray to the front of the Printer.

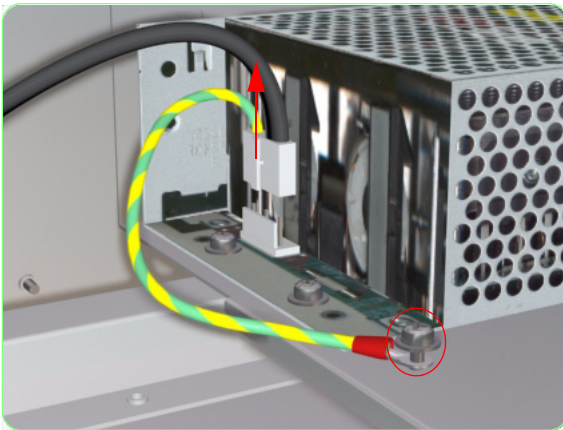


4. Disconnect ALL the cables connected to the Main PCA.

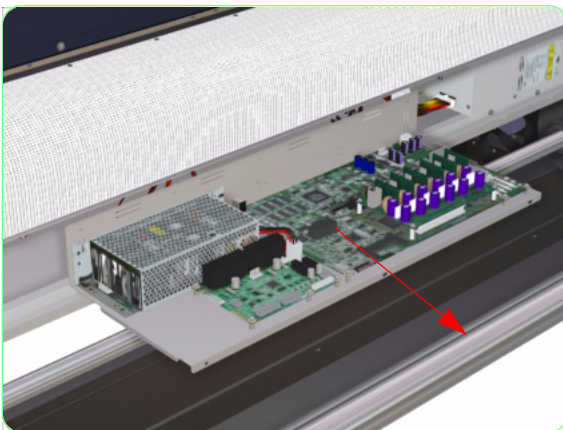




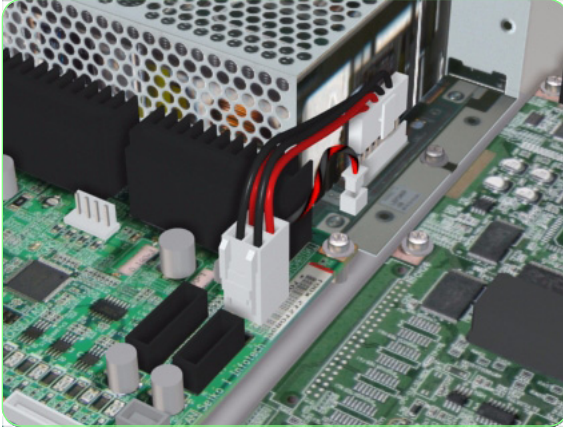
- 5.** Disconnect ALL the cables connected to the Add-On Control PCA (no need to disconnect cables connected between the Add-On Control PCA and the Switching Power Supply Unit).



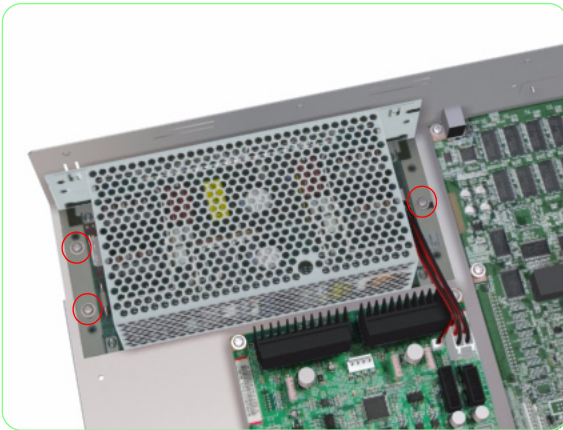
- 6.** Remove one screw that secures the Grounding Strip and disconnect the cable from the Switching Power Supply Unit.



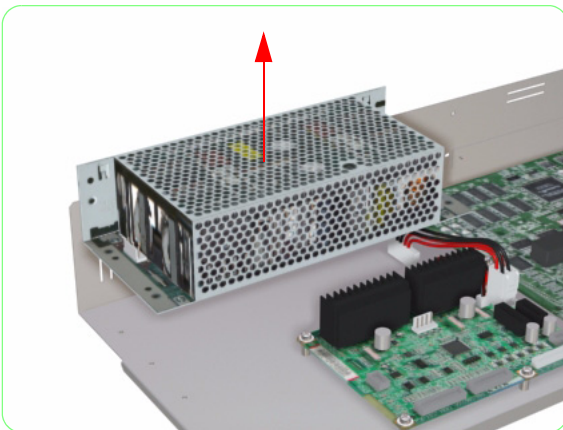
- 7.** Remove the Main PCA Tray from the Printer.



- 8.** Disconnect ALL the cables connected to the Switching Power Supply Unit.



- 9.** Remove three screws that secure the Switching Power Supply Unit to the Main PCA Tray.



- 10.** Remove the Switching Power Supply Unit from the Main PCA Tray.

Power Supply Unit

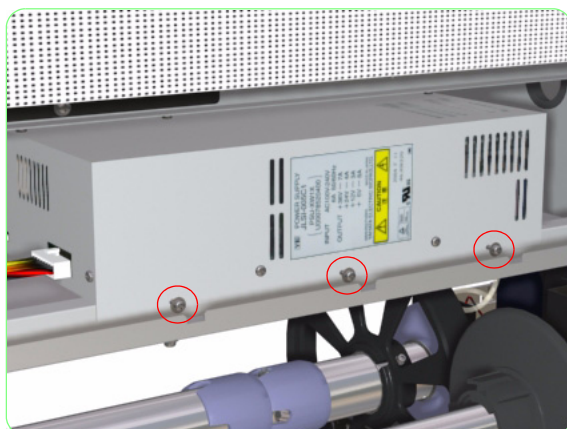
Removal

Switch off the product and remove the power cable.

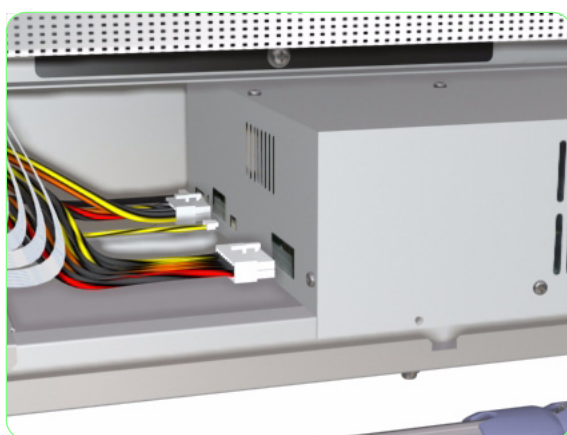
1. Remove the Electronics Module Cover ⇒ Page 8-21.
2. Remove four screws that secure the Power Supply Unit to the Printer from the rear.

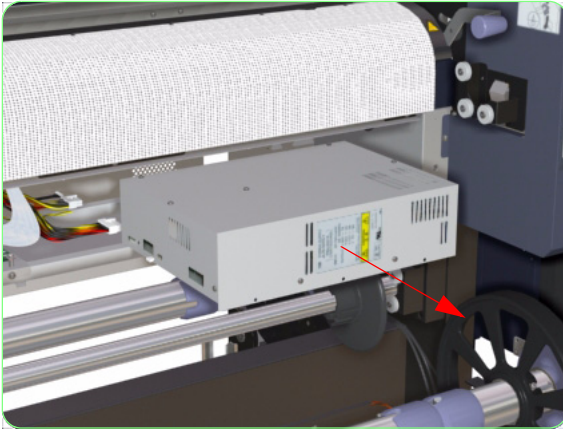


3. Remove three screws that secure the Power Supply Unit to the Printer from the front.



4. Disconnect ALL the cables connected to the Power Supply Unit.





5. Remove the Power Supply Unit from the Printer.

Heater Relay Assembly

Removal

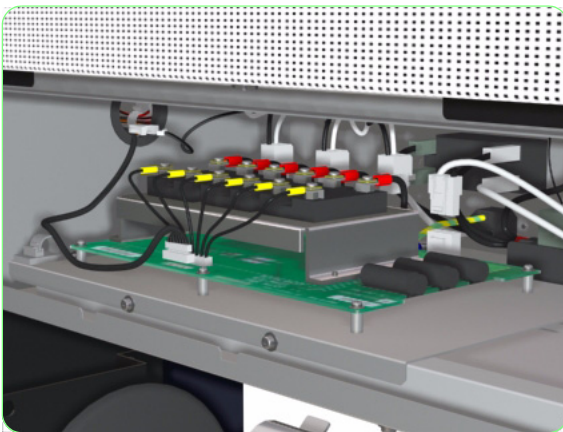
Switch off the product and remove the power cable.

1. Remove the Electronics Module Cover ⇒ Page 8-21.
2. Remove three screws that secure the Heater Relay Assembly Tray to the Printer from the rear.

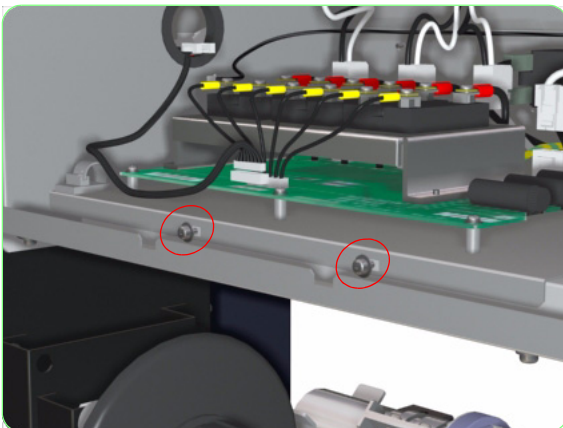


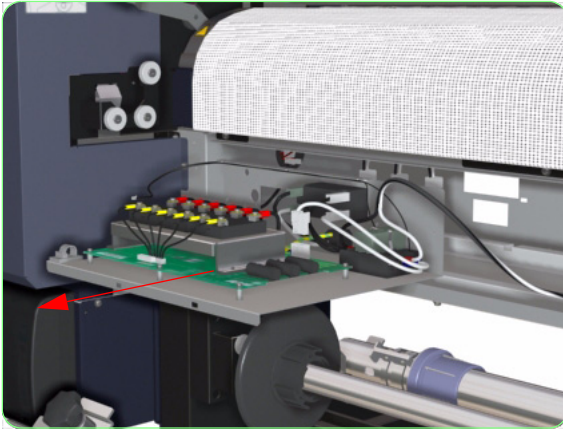
3. Disconnect ALL the cables from the Heater Relay Assembly (except for the long black and white cable).

To help identify the cables when reconnecting, it is useful to label the cables before disconnecting.

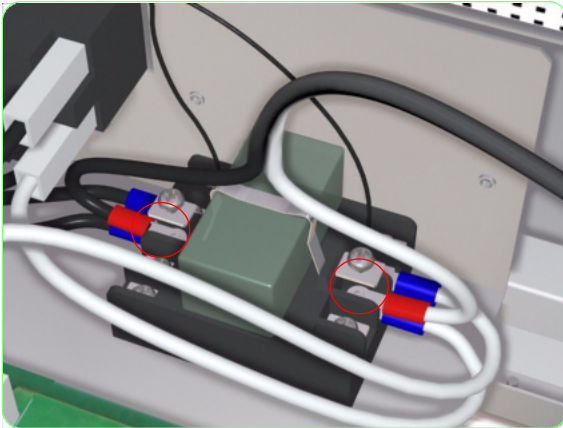


4. Remove two screws that secure the Heater Relay Assembly to the Printer.

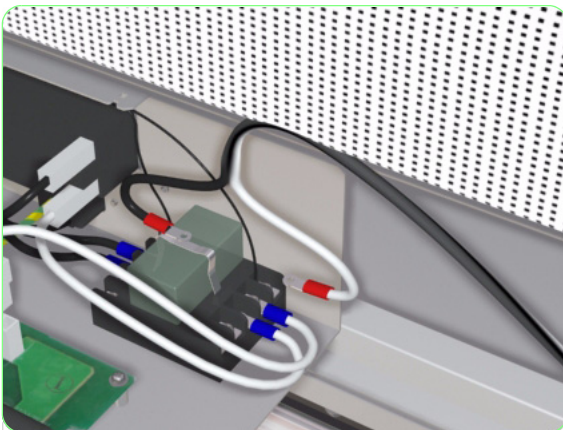




5. Pull out slightly the Heater Relay Assembly from the Printer.



6. Remove two screws that secure the black and white cable (with the red sleeves) to the relay.



7. Release the black and white cable from the relay and remove the Heater Relay Assembly from the Printer.

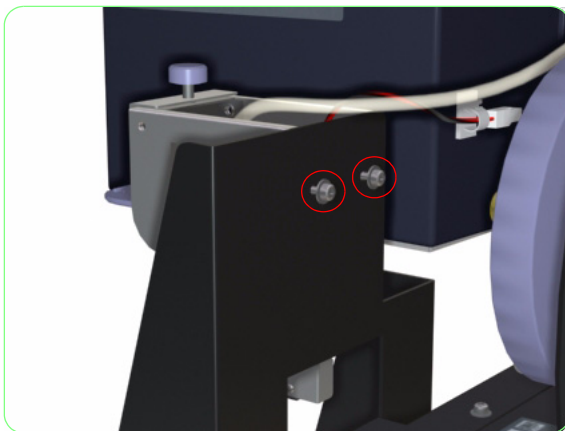
Waste Bottle Sensor

Removal

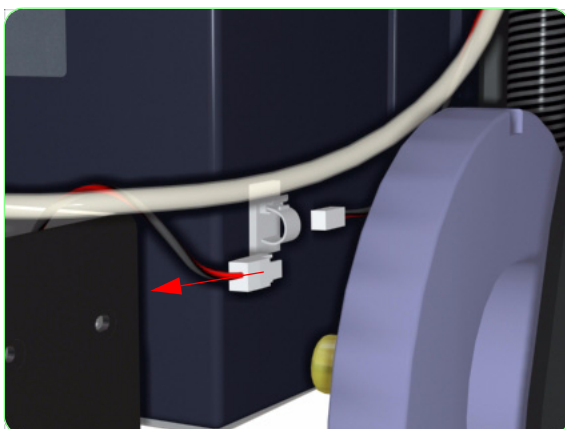
Switch off the product and remove the power cable.



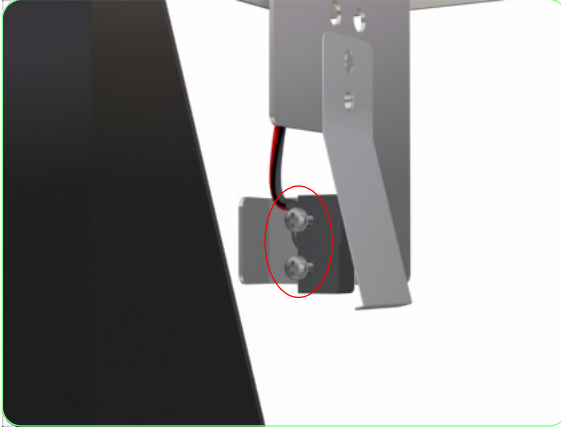
1. Remove the Waste Ink Bottle from the Printer.



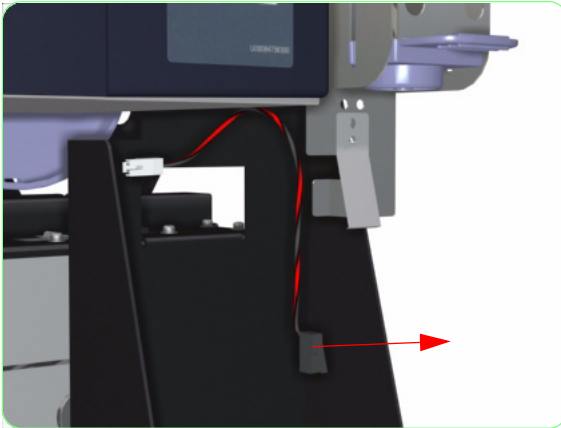
2. Remove two screws that secure the Waste Bottle Locking Bracket.



3. Disconnect the Waste Bottle Sensor Cable.



4. Turn the Waste Bottle Bracket 180 degrees and remove two screws that secure the Waste Bottle Sensor to the Bracket.



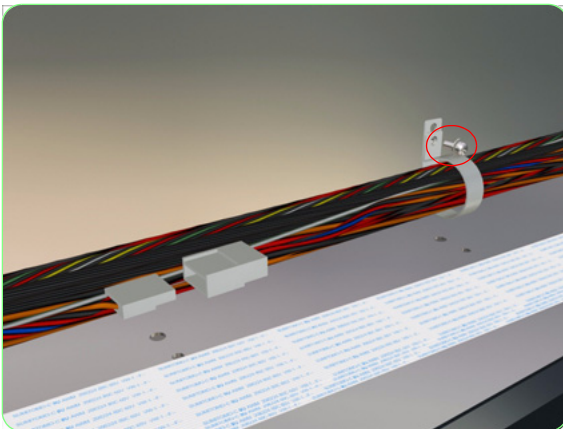
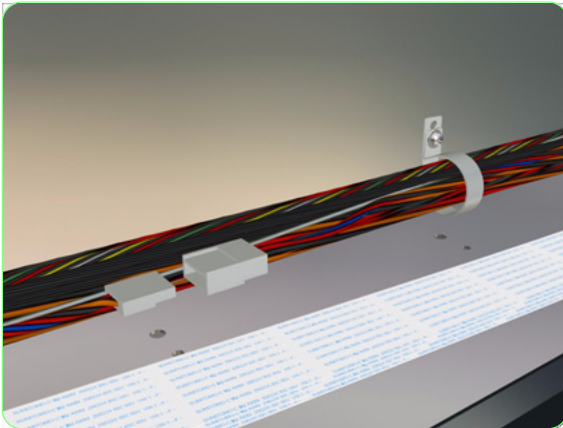
5. Remove the Waste Bottle Sensor from the Bracket.

Front Media Sensor

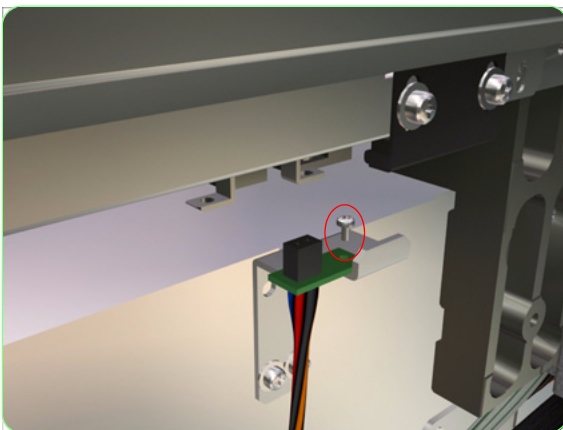
Removal

Switch off the product and remove the power cable.

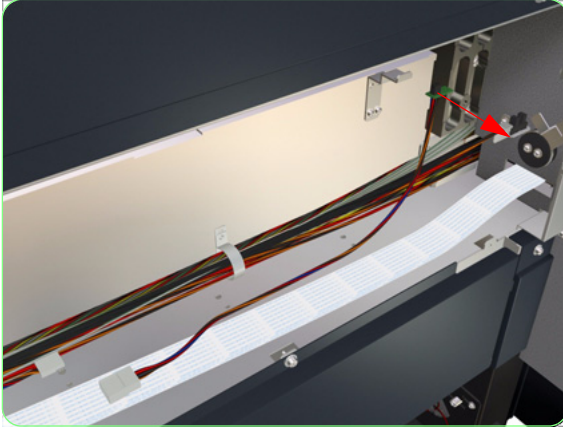
1. Remove the Front Heater ⇒ Page 8-29.
2. Disconnect the Front Media Sensor Cable.



3. Remove one screw that secure the Cable Holder to the Printer.



4. Remove one screw that secures the Front Media Sensor to the Bracket.



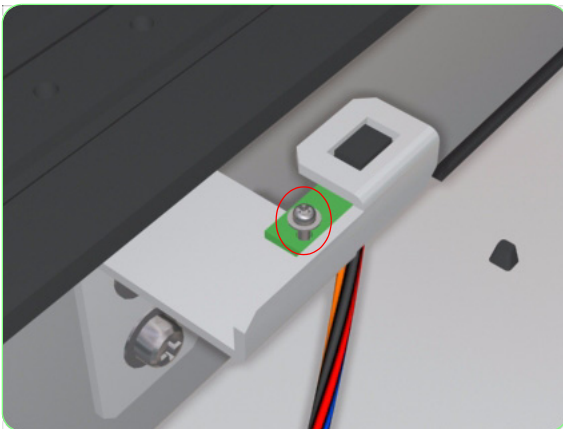
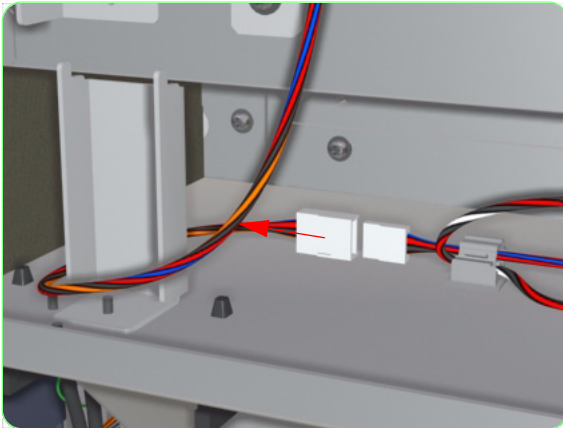
5. Remove the Front Media Sensor from the Printer.

Rear Media Sensor

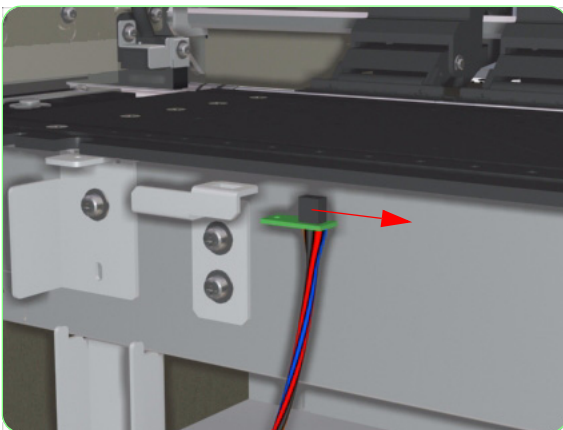
Removal

Switch off the product and remove the power cable.

1. Remove the Rear Heater ⇒ Page 8-32.
2. Disconnect the Rear Media Sensor Cable.



3. Remove one screw that secures the Rear Media Sensor to the Bracket.



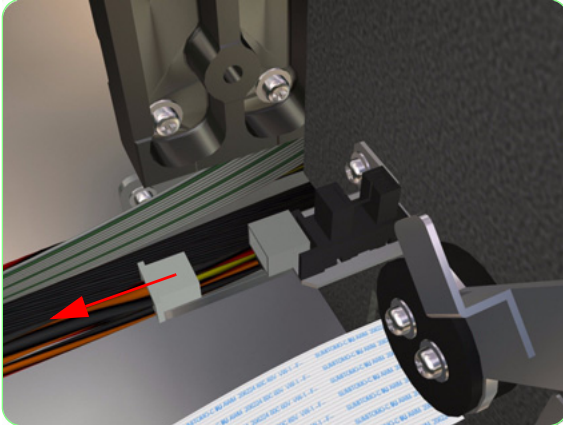
4. Remove the Rear Media Sensor from the Printer.

Media Lever Sensor

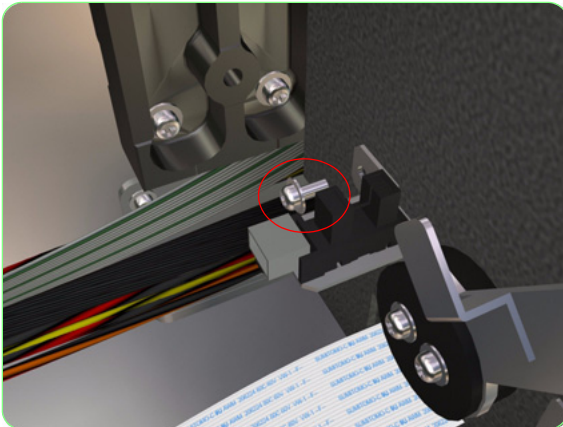
Removal

Switch off the product and remove the power cable.

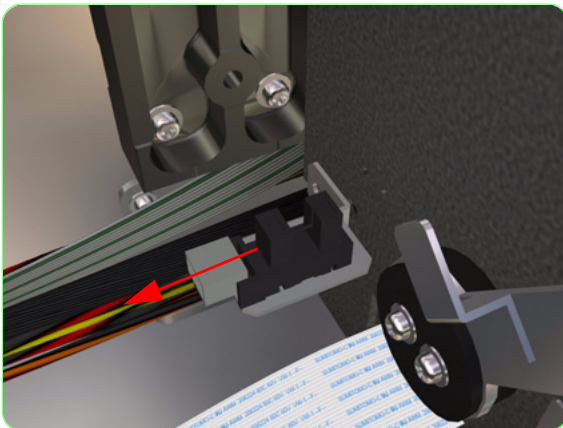
1. Remove the Front Heater ⇒ Page 8-29.
2. Disconnect the Media Lever Sensor Cable.

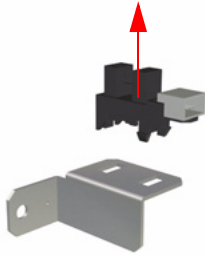


3. Remove one screw that secures the Media Lever Sensor to the Bracket.



4. Remove the Media Lever Sensor from the Printer.





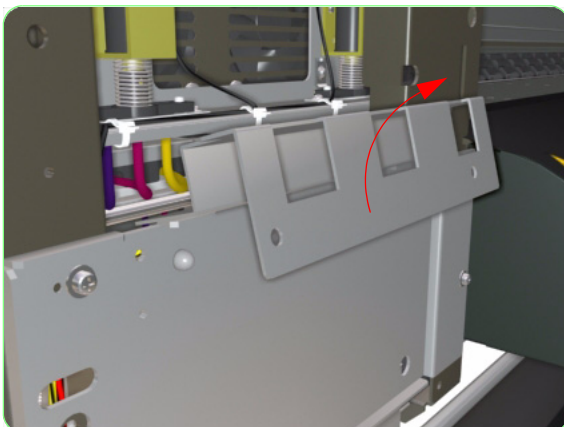
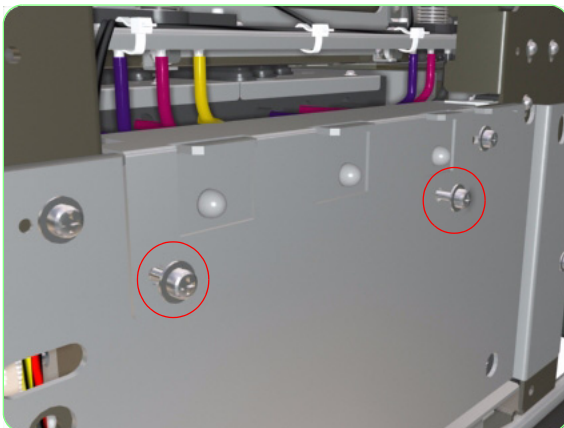
5. Remove the Media Lever Sensor from the Bracket.

Rear Cover Sensor

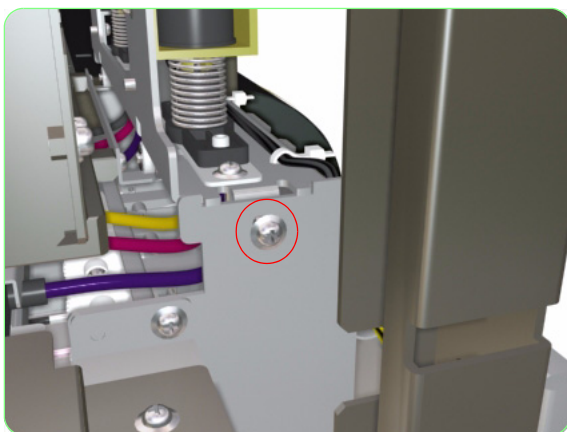
Removal

Switch off the product and remove the power cable.

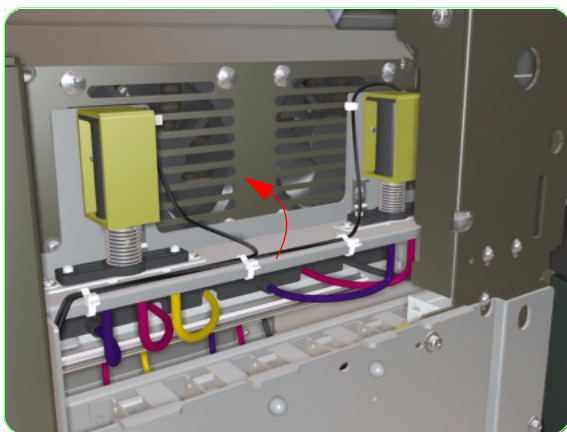
1. Remove the Upper Side Cover (Left and Right) ⇒ Page 8-4.
2. Remove the Top Side Cover (Left and Right) ⇒ Page 8-5.
3. Remove the Lower Side Cover (Left and Right) ⇒ Page 8-8.
4. Remove the Lower Capping Cover ⇒ Page 8-11.
5. Remove the Capping Door ⇒ Page 8-13.
6. Remove the Lower Wiping Cover ⇒ Page 8-15.
7. Remove the Wiping Door ⇒ Page 8-17.
8. Remove two screws that secure the metal bracket to the chassis (on the Capping Side).



9. Remove the metal bracket from the Printer.

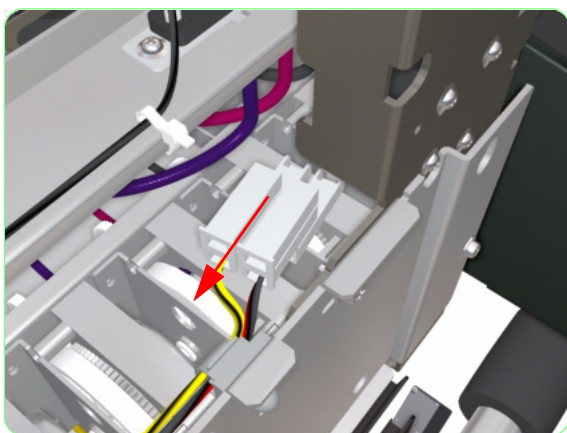


- 10.** Remove one screw from each side of the Solenoid Assembly.



- 11.** Rotate the Solenoid Assembly so that the Right Rear Cover Sensor can be accessed.

Be very careful when rotating the Solenoid Assembly as the tube joint can easily break when handled incorrectly.

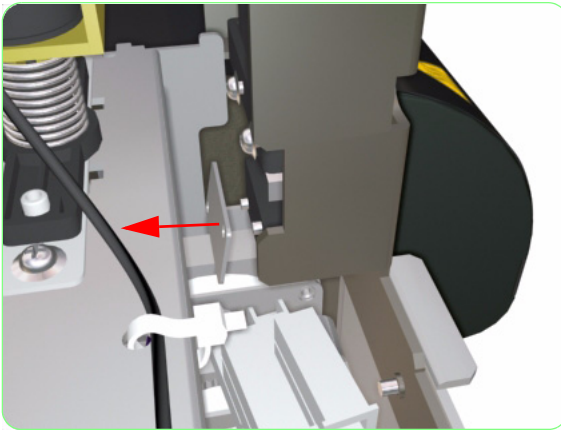


- 12.** Disconnect the Cable from the Right Rear Cover Sensor.

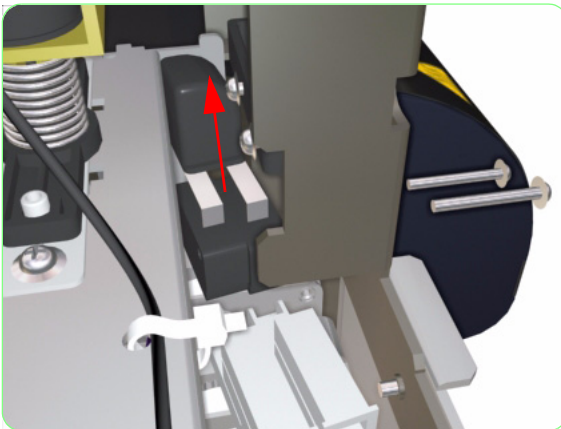


- 13.** Loosen two screws that secure the Sensor Plate and the Right Rear Cover Sensor to the Chassis.

Only loosen the screws until the Sensor Plate is released. Also, keep hold of the Sensor Plate while loosening the screws as it could fall into the Printer.

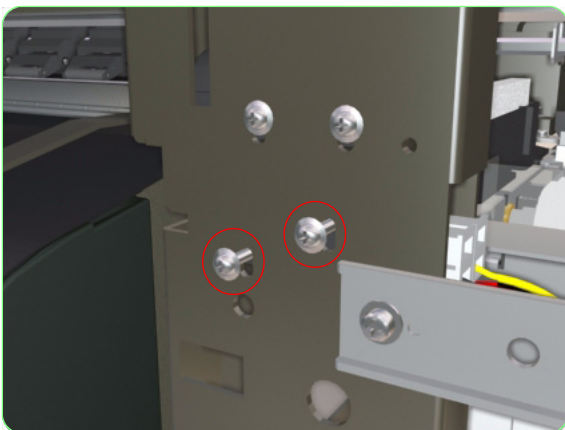


- 14.** Remove the Sensor Plate from the Printer.



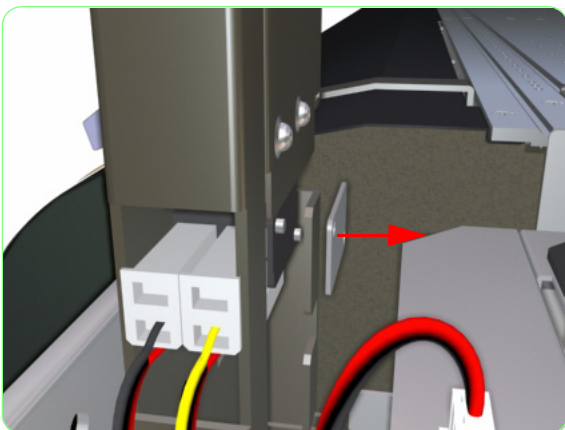
- 15.** Remove two screws that secure the Right Rear Cover Sensor to the Chassis. Remove the Right Rear Cover Sensor.

Remove the Rear Cover Sensor very carefully so that the Kicker on the Rear Cover Sensor does not drop.

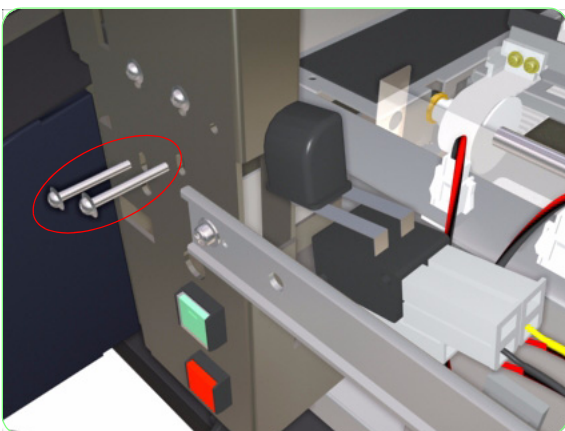


- 16.** Loosen two screws that secure the Sensor Plate and the Left Rear Cover Sensor to the Chassis.

Only loosen the screws until the Sensor Plate is released. Also, keep hold of the Sensor Plate while loosening the screws as it could fall into the Printer.

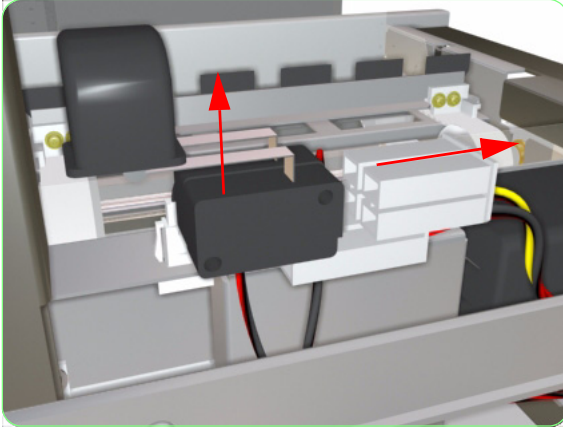


- 17.** Remove the Sensor Plate from the Printer.



- 18.** Remove two screws that secure the Left Rear Cover Sensor to the Chassis.

Remove the Rear Cover Sensor very carefully so that the Kicker on the Rear Cover Sensor does not drop.



- 19.** Disconnect the Sensor Cable from the Right Rear Cover Sensor and remove from the Printer.

Home Position Sensor

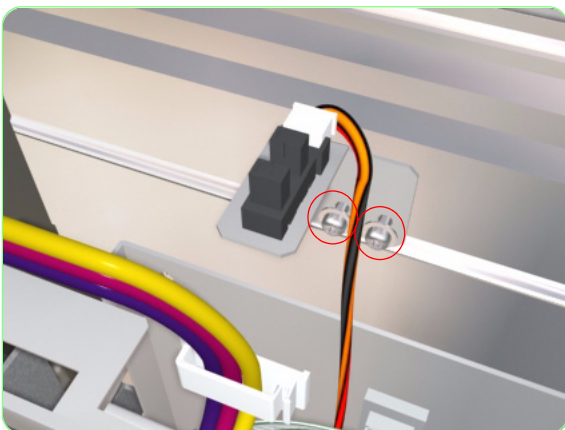
Removal

Switch off the product and remove the power cable.

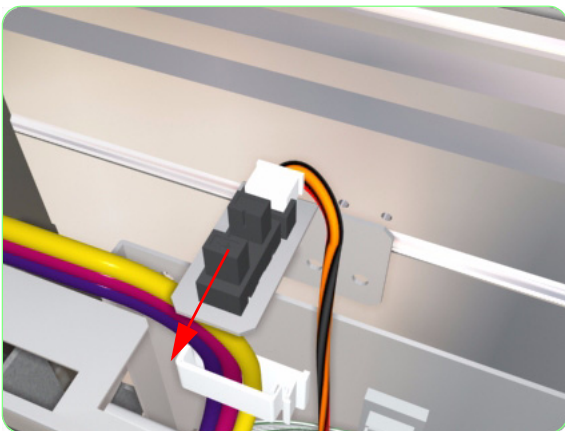
1. Remove the Upper Side Cover (Right) ⇒ Page 8-4.
2. Remove the Top Side Cover (Right) ⇒ Page 8-5.
3. Locate the Home Position Sensor.

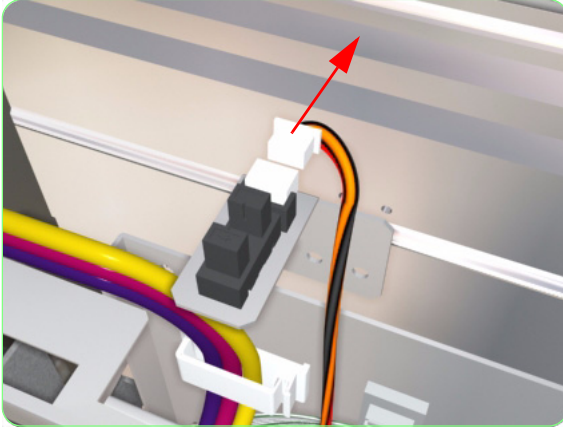


4. Remove two screws that secure the Home Position Sensor to the Printer.



5. Remove the Home Position Sensor from the Printer.





- 6.** Disconnect the Cable from the Home Position Sensor.



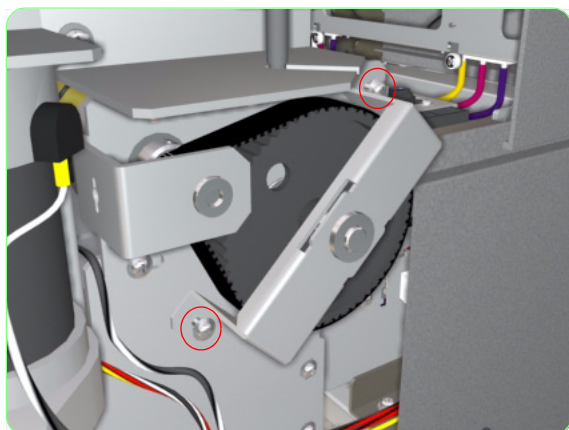
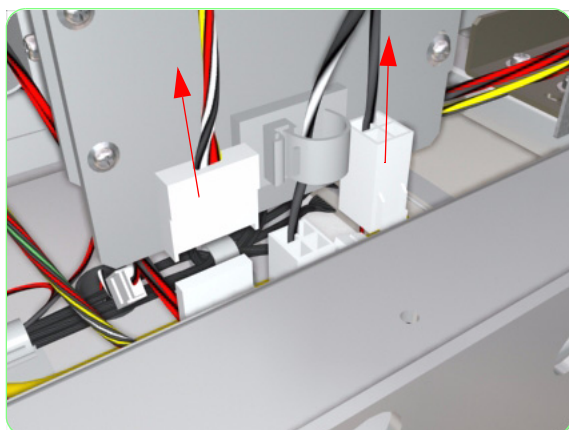
- 7.** Unclip the Home Position Sensor from the Support Bracket.

Paper-Axis Motor and Belt

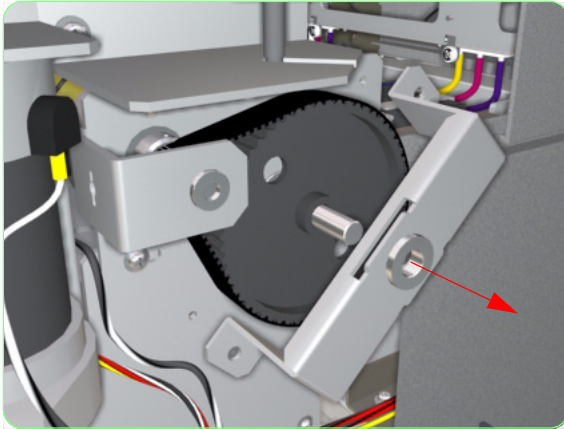
Removal

Switch off the product and remove the power cable.

1. Remove the Upper Side Cover (Right) ⇒ Page 8-4.
2. Remove the Top Side Cover (Right) ⇒ Page 8-5.
3. Remove the Scan-Axis Motor ⇒ Page 8-72.
4. Disconnect the Paper-Axis Motor Cables.

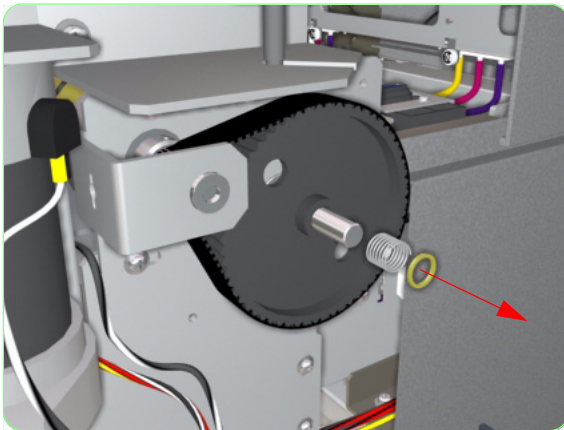


5. Remove two screws that secure the Paper-Axis Gear Plate.

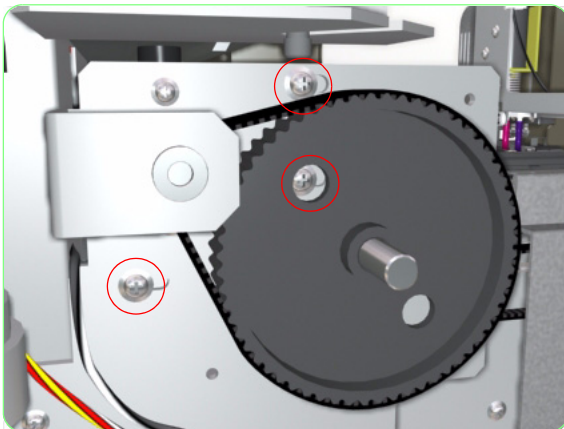


6. Remove the Paper-Axis Gear Plate from the Printer.

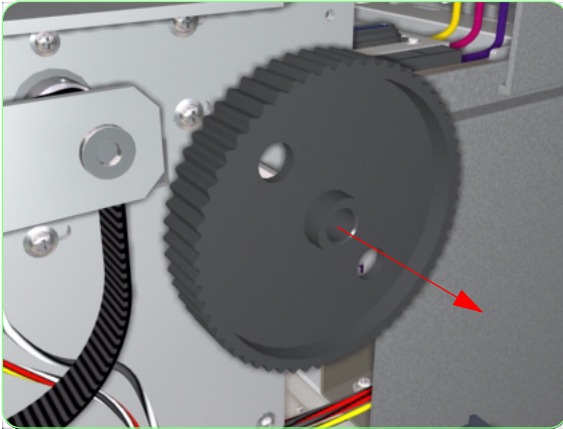
Make sure you gently remove the Paper-Axis Gear Plate, otherwise the Spring and Washer will accidentally fly out.



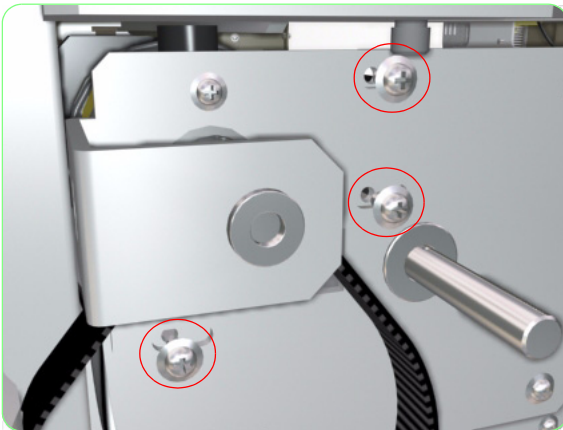
7. Remove the Spring and Washer from the Paper-Axis Gear shaft.



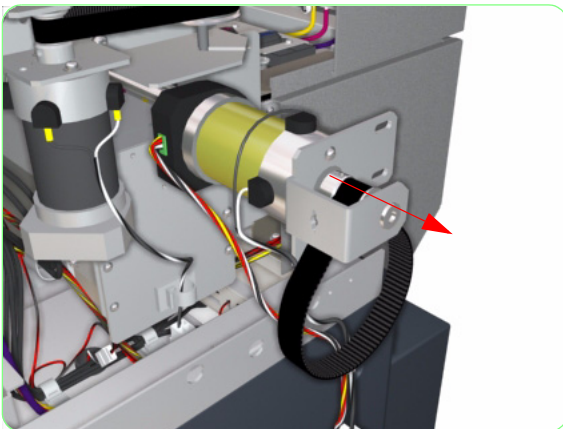
8. Loosen three screws that secure the Paper-Axis Motor Bracket to the Chassis.



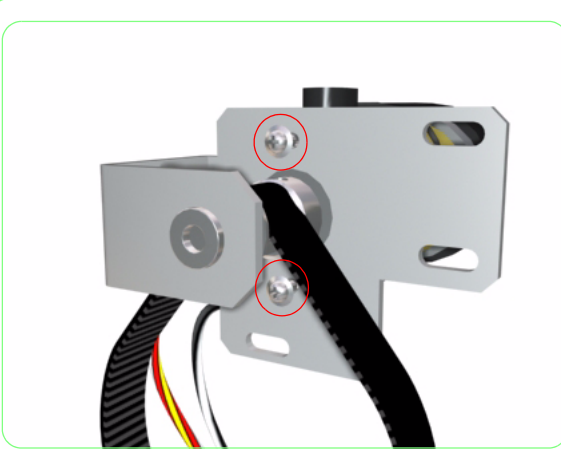
- 9.** Release the Belt and remove the Paper-Axis Gear from the Printer.



- 10.** Remove three screws that secure the Paper-Axis Motor Bracket to the Chassis.



- 11.** Remove the Paper-Axis Motor Assembly from the Printer.



- 12.** Remove two screws that secure the Bracket to the Paper-Axis Motor.



- 13.** Remove the Paper-Axis Motor from the Bracket.

When installing the Paper-Axis Motor, make sure that the Scan-Axis Motor has already been removed.

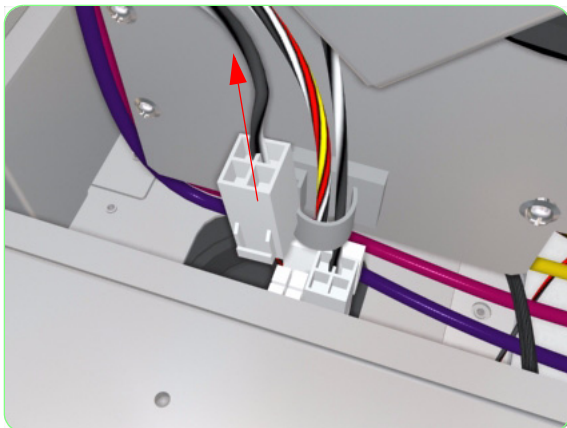
Once the Paper-Axis Motor has been installed correctly, you must perform the Paper-Axis Belt Tension Adjustment. For further information, refer to Page 5-14.

Scan-Axis Motor and Belt

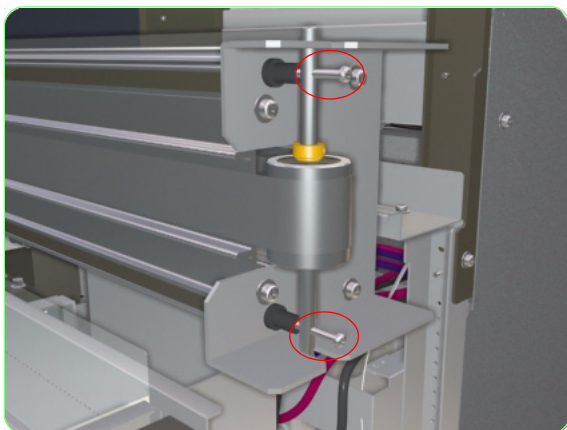
Removal

Switch off the product and remove the power cable.

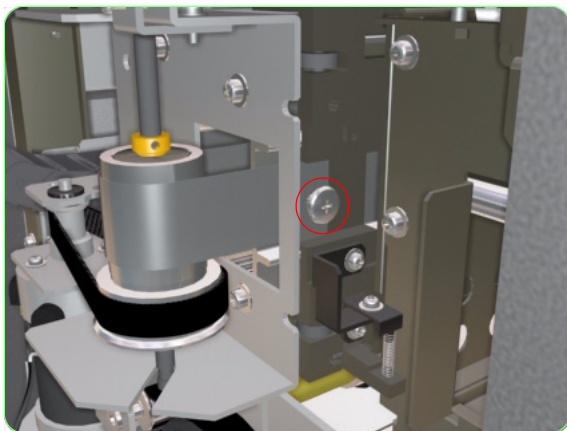
1. Remove the Upper Side Cover (Right) ⇒ Page 8-4.
2. Remove the Top Side Cover (Right) ⇒ Page 8-5.
3. Disconnect the Scan-Axis Motor Cable.



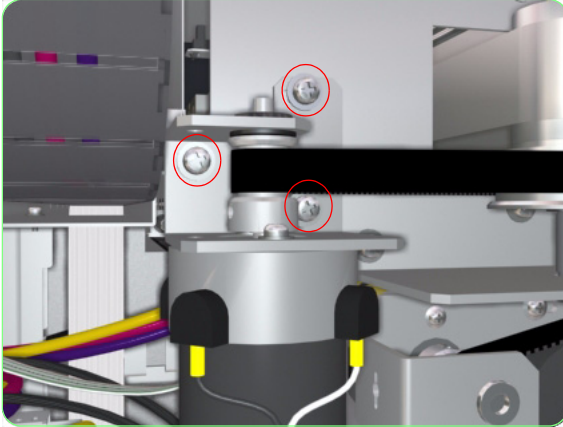
4. Loosen two screws that secure the Tension Pulley on the right hand side of the Printer. Loosening these two screws will release the tension on the Carriage Belt, which must always be done before removing the Belt.



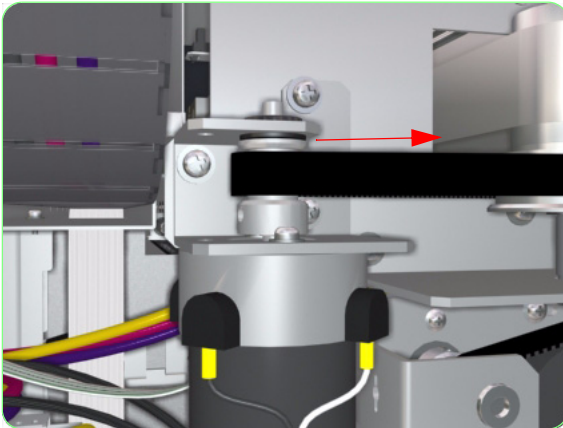
5. Remove one screw that secures the Belt to the left side of the Carriage Assembly and then release the Belt from the Carriage Assembly.



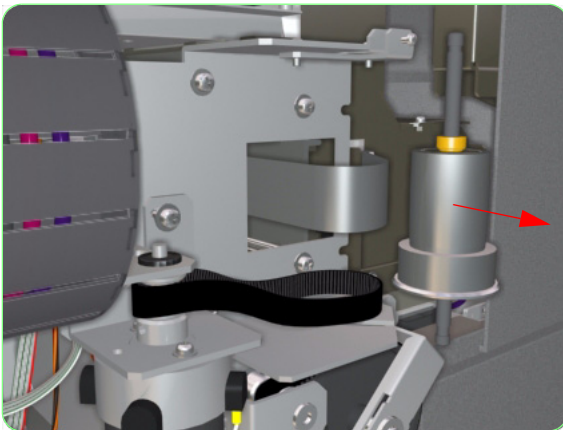
Be very careful when handling the Belt, since it is sharp and could cause injury.



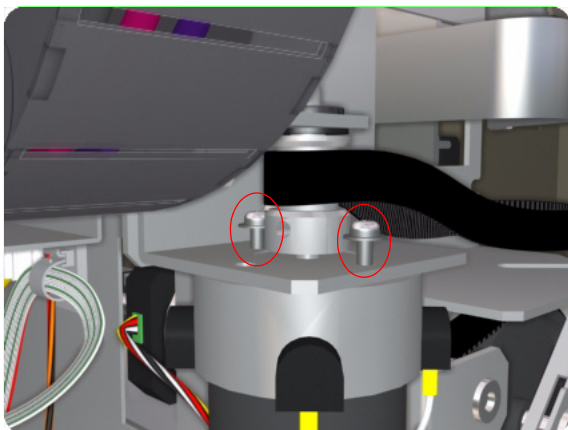
6. Loosen three screws that secure the Scan-Axis Motor Bracket to the Chassis.



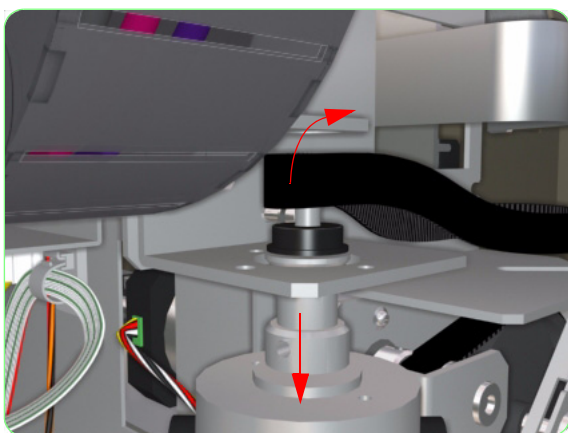
7. Move the Scan-Axis Motor Bracket to the right to release the tension on the Scan-Axis Belt.



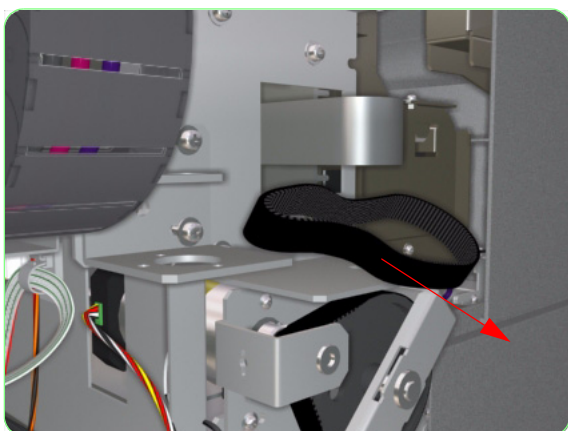
8. Release the Scan-Axis Belt and remove the Drive Pulley from the Printer.



- 9.** Remove two screws that secure the Scan-Axis Motor to the Bracket.



- 10.** Release the Scan-Axis Belt and remove the Scan-Axis Motor from the Printer.



- 11.** Remove the Scan-Axis Belt from the Printer.

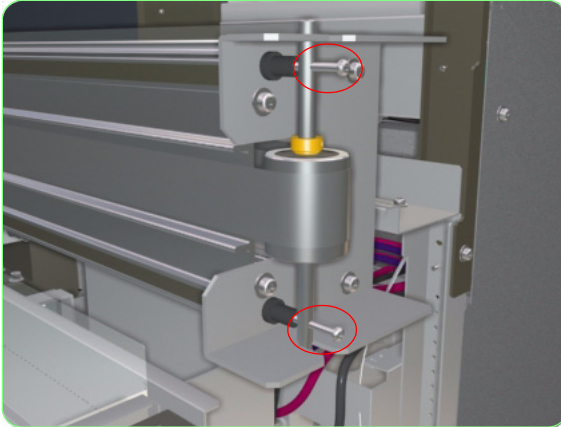
Once the Scan-Axis Motor has been installed correctly, you must perform the Scan-Axis Belt Tension Adjustment (refer to Page 5-12) and the Belt Tension Adjustment (refer to Page 5-3).

Carriage Drive Assembly (Includes Carriage Belt)

Removal

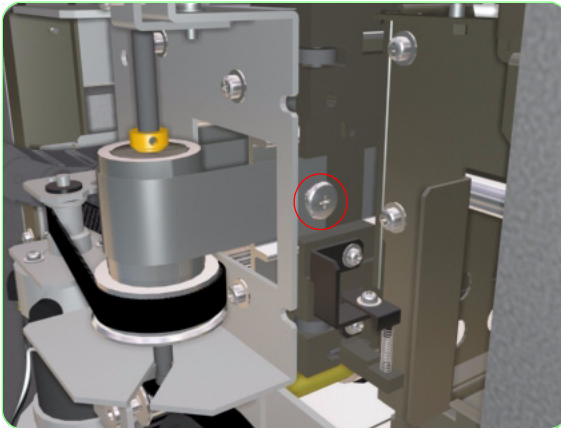
Switch off the product and remove the power cable.

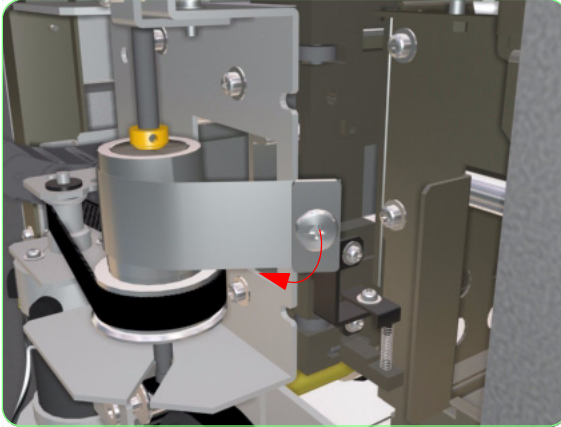
1. Remove the Upper Side Cover (Left and Right) ⇒ Page 8-4.
2. Remove the Top Side Cover (Left and Right) ⇒ Page 8-5.
3. Loosen two screws that secure the Tension Pulley on the right hand side of the Printer. Loosening these two screws will release the tension on the Carriage Belt, which must always be done before removing the Belt.



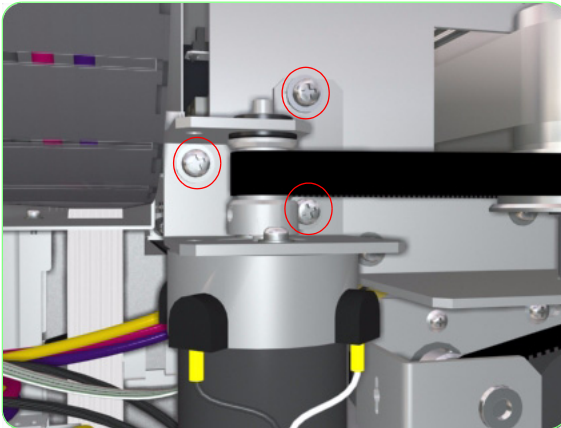
4. Remove one screw that secures the Belt to the left side of the Carriage Assembly.

Be very careful when handling the Belt, since it is sharp and could cause injury.

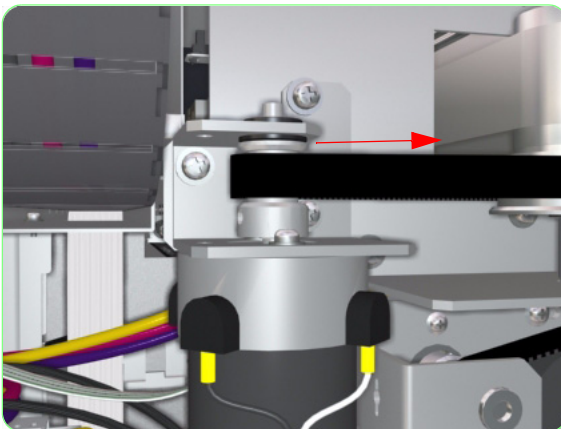




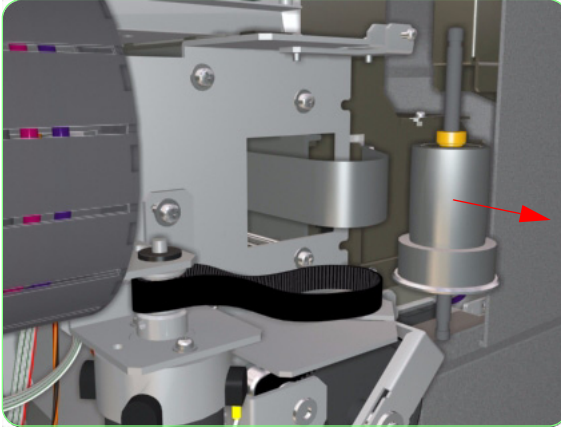
- 5.** Release the Belt from the Carriage Assembly.



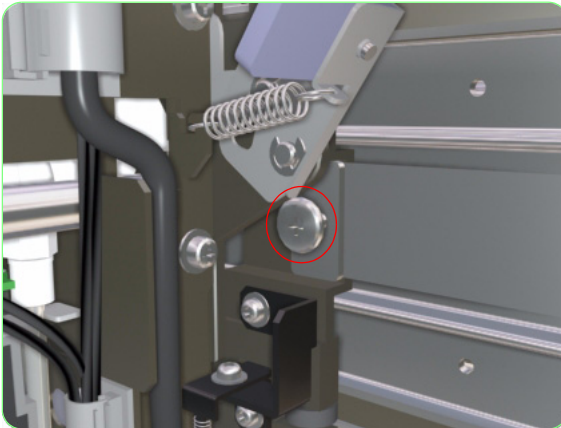
- 6.** Loosen three screws that secure the Scan-Axis Motor Bracket to the Chassis.



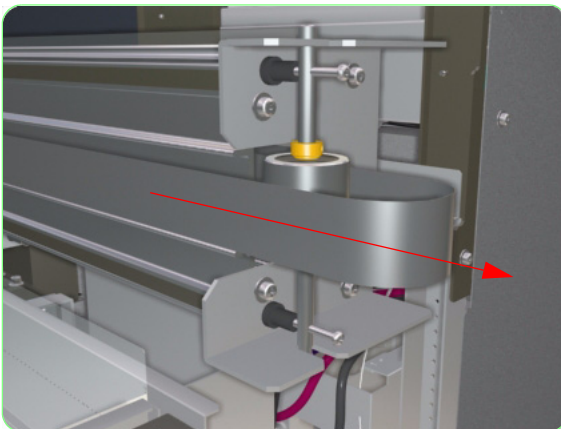
- 7.** Move the Scan-Axis Motor Bracket to the right to release the tension on the Scan-Axis Belt.



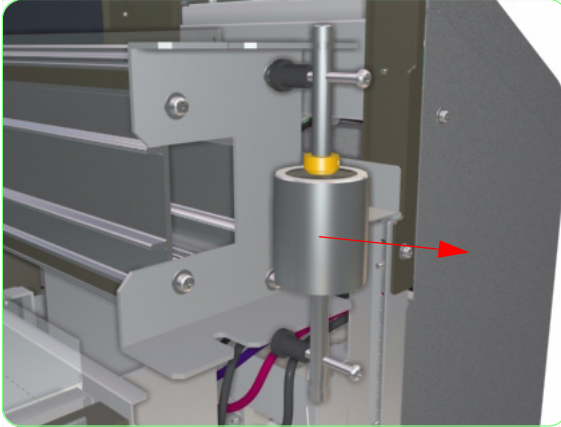
- 8.** Release the Scan-Axis Belt and remove the Drive Pulley from the Printer.



- 9.** Remove one screw that secures the Belt to the right side of the Carriage Assembly.



- 10.** Carefully slide the Belt out of the Carriage Assembly and remove from the Printer.



11. Remove the Tension Pulley from the Printer.

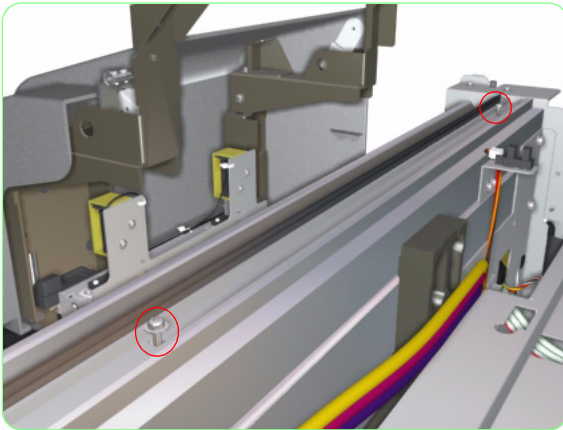
Once the Carriage Drive Assembly has been installed correctly, you must perform the Scan-Axis Belt Tension Adjustment (refer to Page 5-12) and the Belt Tension Adjustment (refer to Page 5-3).

Encoder Strip

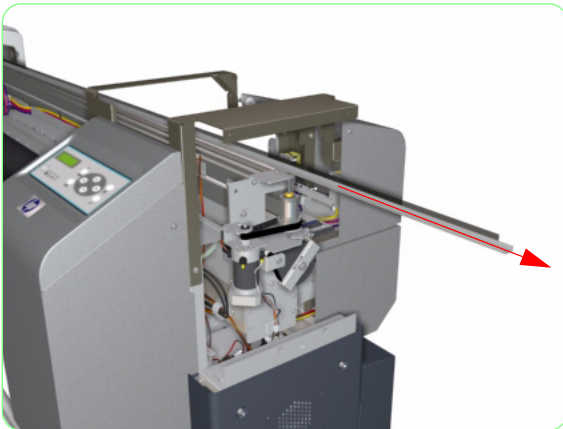
Removal

Switch off the product and remove the power cable.

1. Remove the Rear Cover ⇒ Page 8-3.
2. Remove the Upper Side Cover (Left and Right) ⇒ Page 8-4.
3. Remove the Top Side Cover (Left and Right) ⇒ Page 8-5.
4. Remove the Top Cover ⇒ Page 8-6.
5. Remove the screws that secure the Encoder Strip to the Chassis.



6. Slide the Encoder Strip out of the Printer.

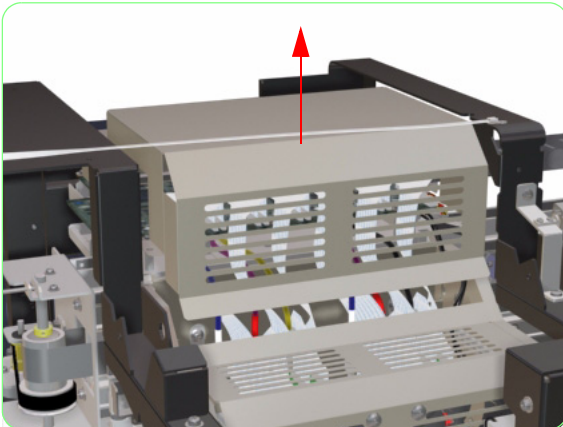


Trailing Cable

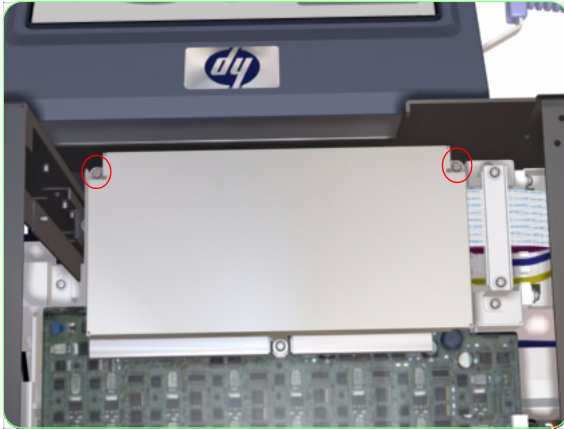
Removal

Switch off the product and remove the power cable.

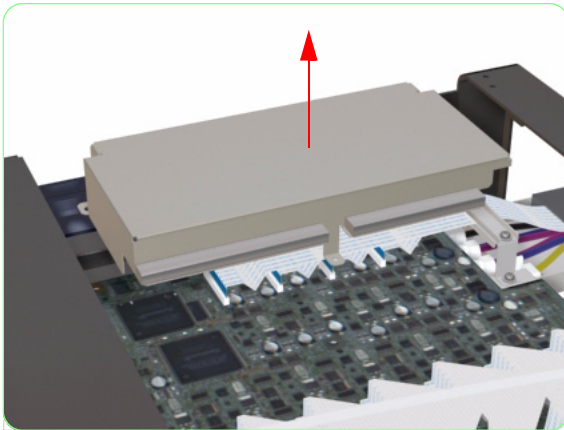
1. Remove the Rear Cover ⇒ Page 8-3.
2. Remove the Upper Side Cover (Right) ⇒ Page 8-4.
3. Remove the Top Side Cover (Right) ⇒ Page 8-5.
4. Remove the Top Cover ⇒ Page 8-6.
5. Remove the Capping Door ⇒ Page 8-13.
6. Remove the Electronics Module Cover ⇒ Page 8-21.
7. Remove the Front Heater ⇒ Page 8-29.
8. Remove two screws that secure the Carriage Cover to the Carriage Assembly.



9. Remove the Carriage Cover from the Carriage Assembly.



10. Remove two screws that secure the Carriage PCA Cover to the Carriage Assembly.

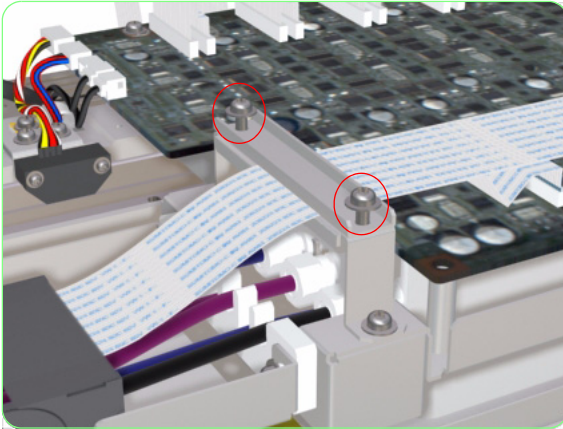


11. Remove the Carriage PCA Cover from the Carriage Assembly.

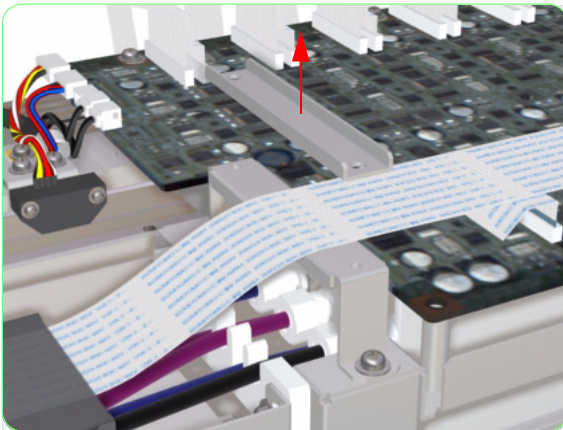


12. Move the Carriage Assembly out of the Capping Station.

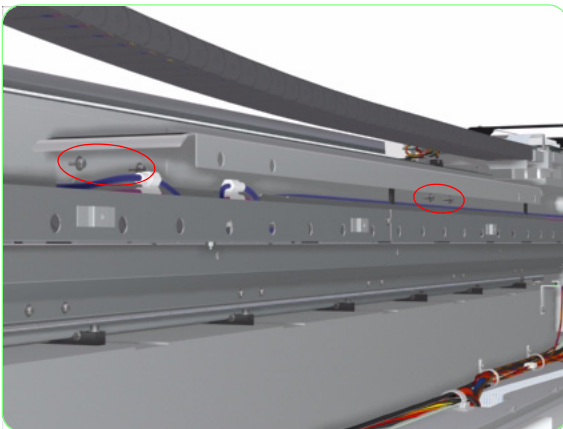
Make sure that the Carriage is Uncapped before performing the following steps. Trying to move the Carriage out of the Capping Station while it is still capped will cause damage to the Printheads.



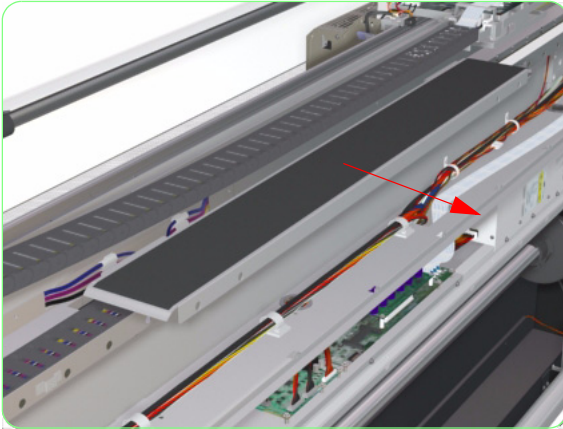
13. Remove two screws that secure the metal bracket to the Carriage Assembly.



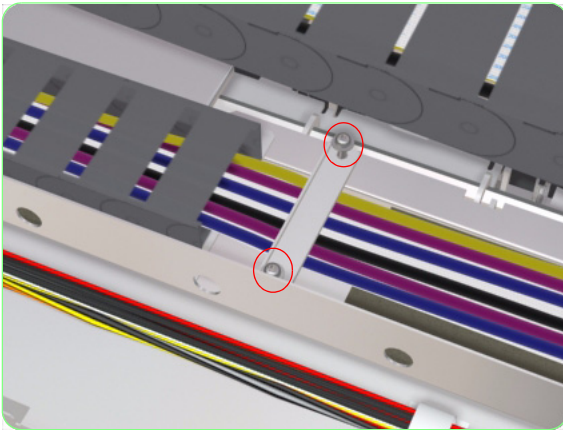
14. Remove the metal bracket from the Carriage Assembly.



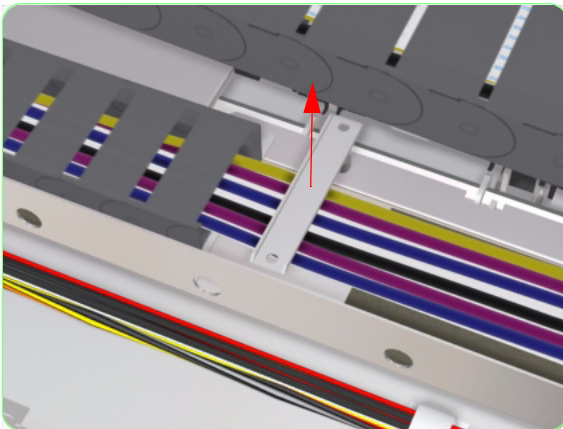
15. Remove four screws that secure the Rail Guide to the Printer.



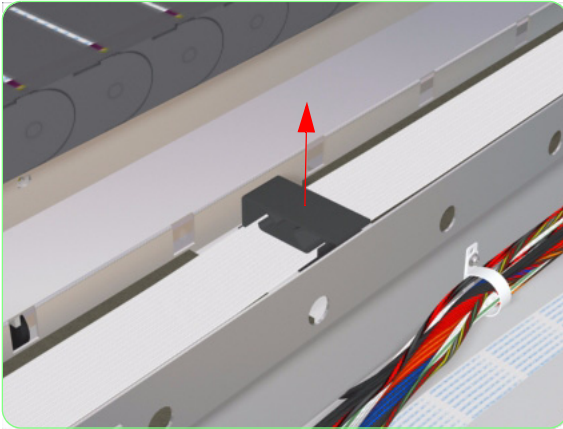
16. Remove the Rail Guide from the Printer.



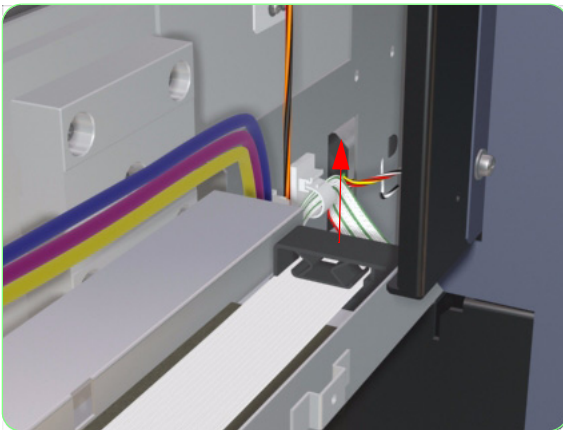
17. Remove two screws that secure the metal bracket to the Printer.



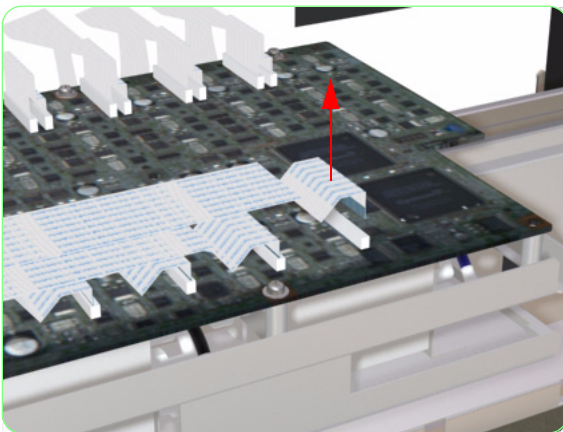
18. Remove the metal bracket from the Printer.



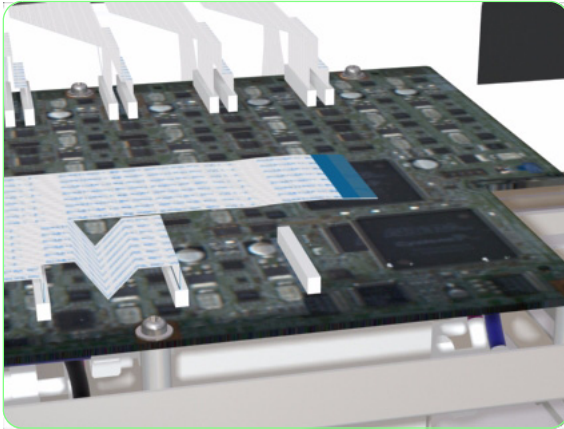
19. Remove a Cable Clip that secures the Trailing Cable to the Printer.



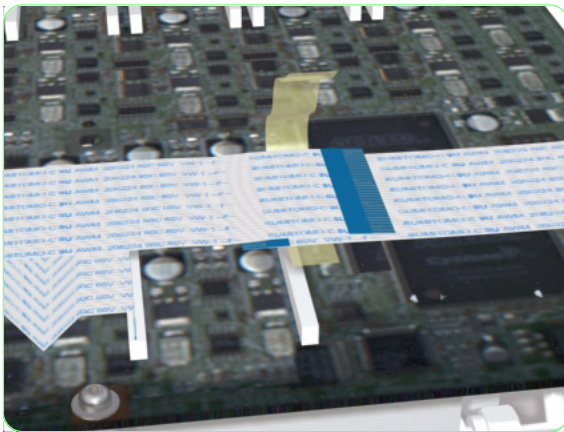
20. Remove a Cable Clip that secures the Trailing Cable to right hand side of the Printer.



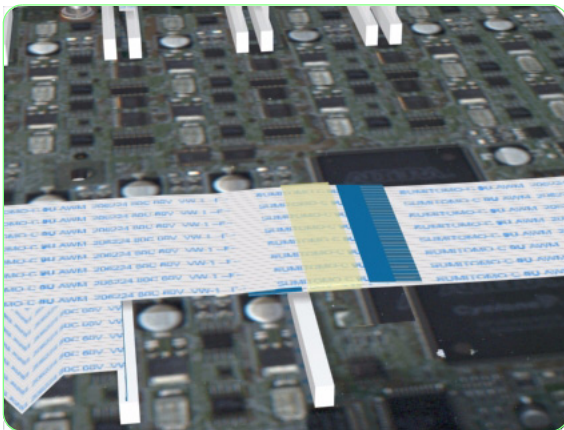
21. Disconnect the first Trailing Cable from the Carriage PCA.



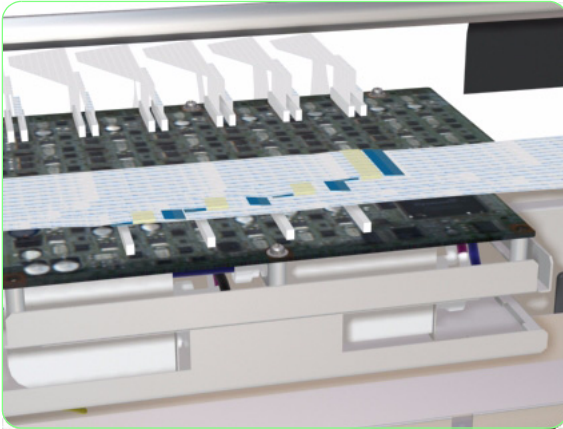
22. Flatten the Trailing Cable.



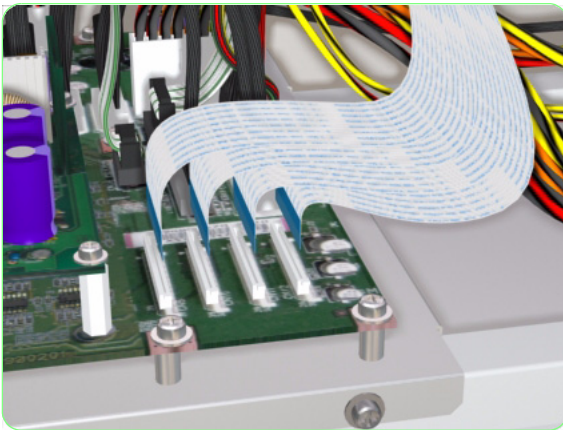
23. Using a piece of tape, attach the first **new** Trailing Cable to the old Trailing Cable already disconnected.



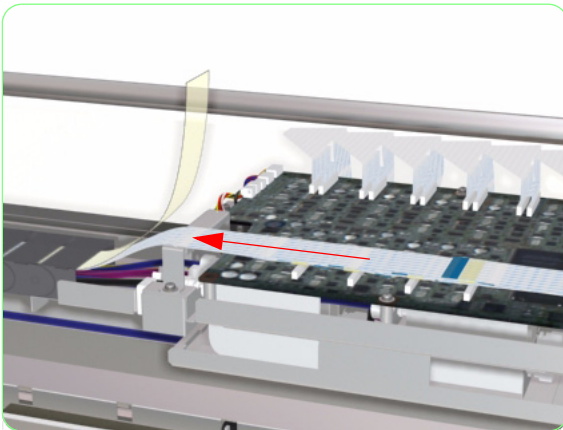
24. Make sure that the tape does not touch the electrode part of the Trailing Cable and ensure the two Trailing Cables are securely attached.



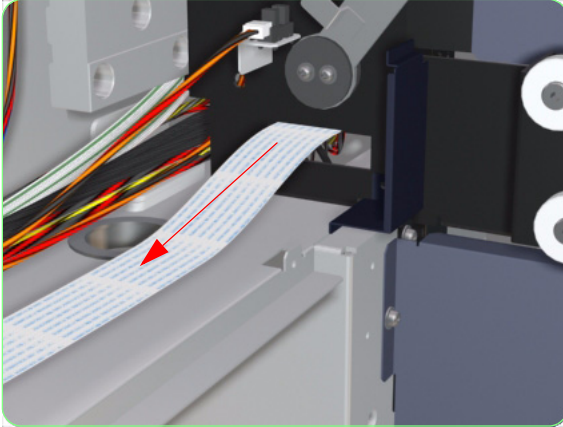
25. Disconnect (one by one) the remaining Trailing Cables and attach them to the **new** Trailing Cables.



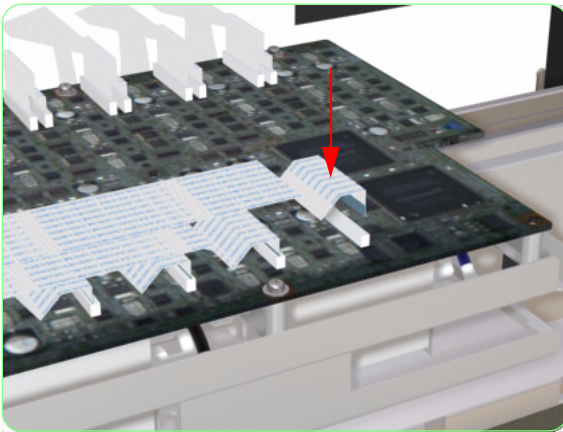
26. Disconnect the Trailing Cable from the Main PCA.



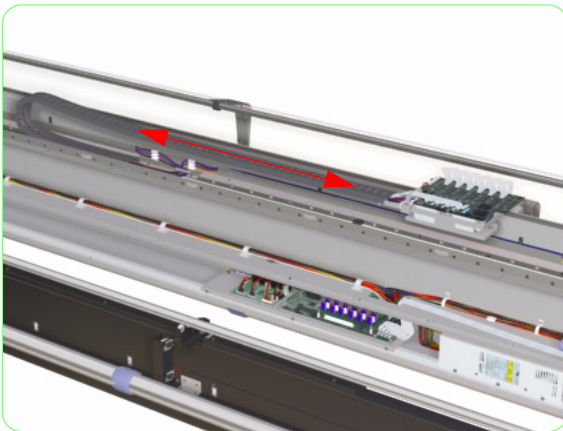
27. While holding the transparent plastic strip, begin to carefully pull the old Trailing Cable through the Tube Rail, making sure not to detach the tape from the Trailing Cables.



28. Pass the Trailing Cable through the hole (as shown in the drawing).



29. Once the **new** Trailing Cable has been routed through the Printer, detach the tape and connect the Trailing Cable to the Carriage PCA and the Main PCA.



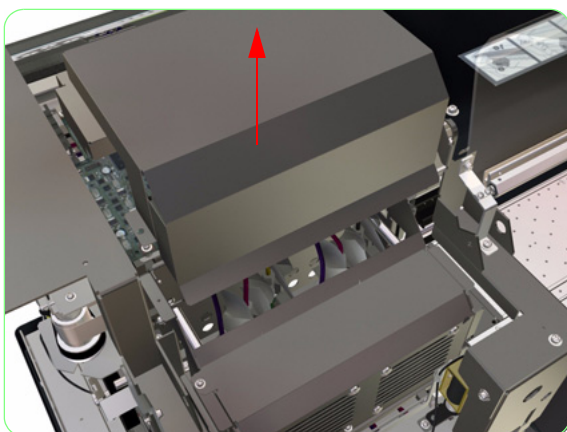
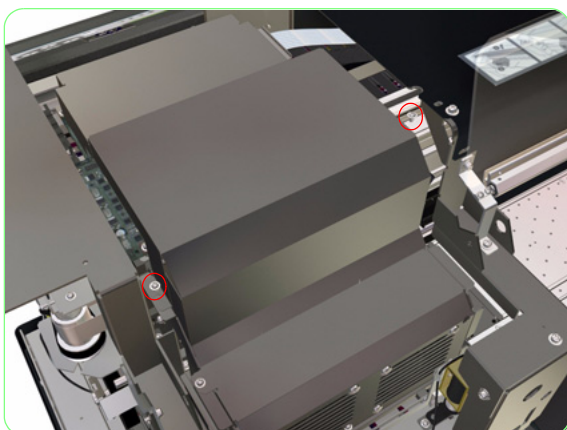
30. Once the Trailing Cable has been correctly connected and all the different components have been re-installed, you will need to move the Carriage Assembly across the Printer (from left to right) three or four times to ensure that the Ink Tubes and Trailing Cable are well seated within the Tube Rail.

Printhead Cooling Fans

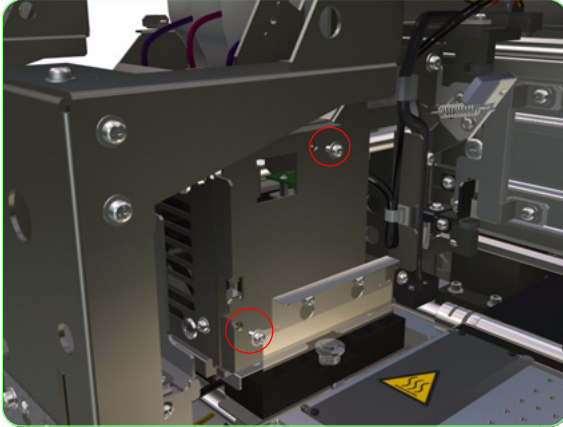
Removal

Switch off the product and remove the power cable.

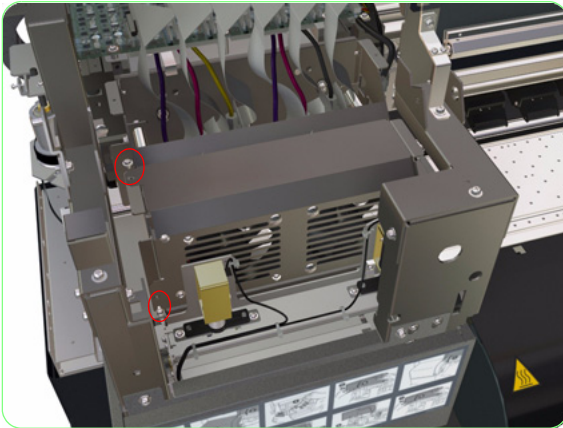
1. Remove the Upper Side Cover (Right) ⇒ Page 8-4.
2. Remove the Top Side Cover (Right) ⇒ Page 8-5.
3. Remove the Capping Door ⇒ Page 8-13.
4. Remove two screws that secure the Carriage Cover to the Carriage Assembly.



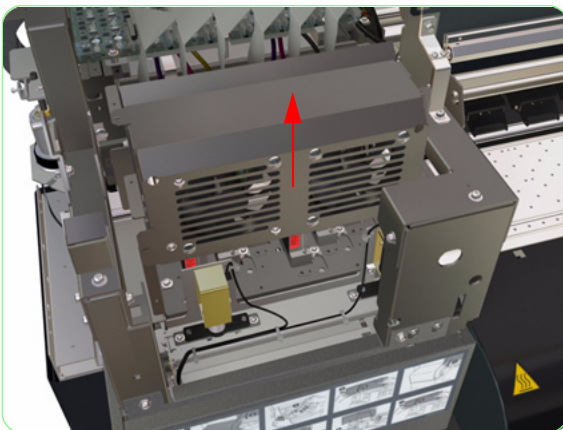
5. Remove the Carriage Cover from the Carriage Assembly.



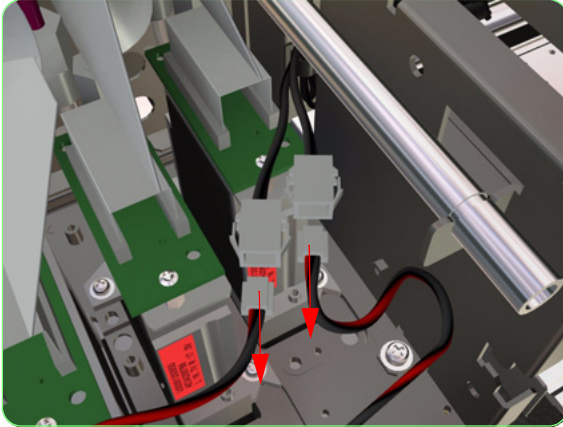
6. Remove two screws that secure the Printhead Cooling Fan Assembly to the Carriage Assembly.



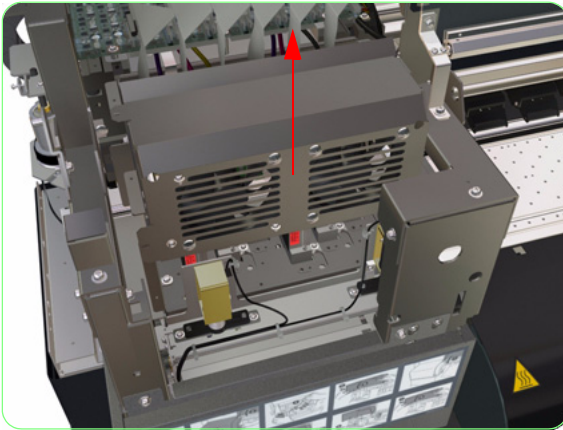
7. Remove two screws that secure the Printhead Cooling Fan Assembly to the Carriage Assembly.



8. Raise the Printhead Cooling Fan Assembly slightly.

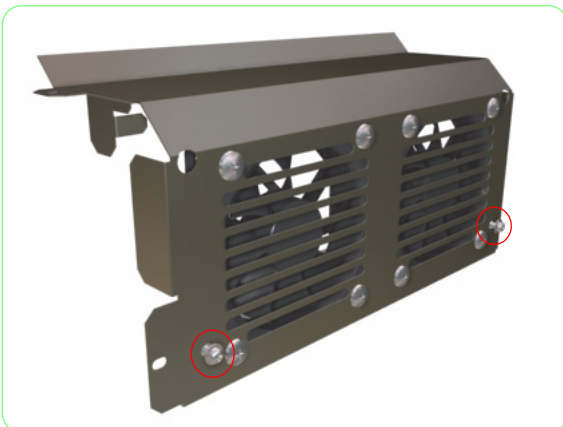


- 9.** Disconnect the cables from the Printhead Cooling Fan Assembly.

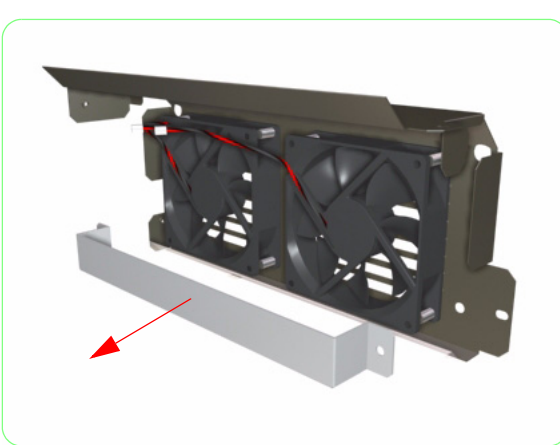


- 10.** Remove the Printhead Cooling Fan Assembly from the Printer.

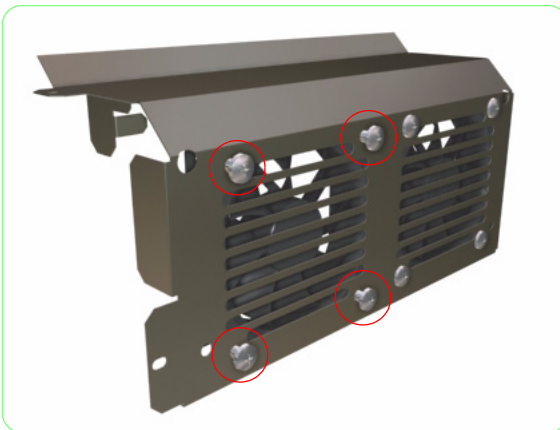
If one or both of the Printhead Cooling Fans need to be replaced, then continue with the following instructions.



- 11.** Remove two screws that secure the metal bracket to the Printhead Cooling Fan Assembly.

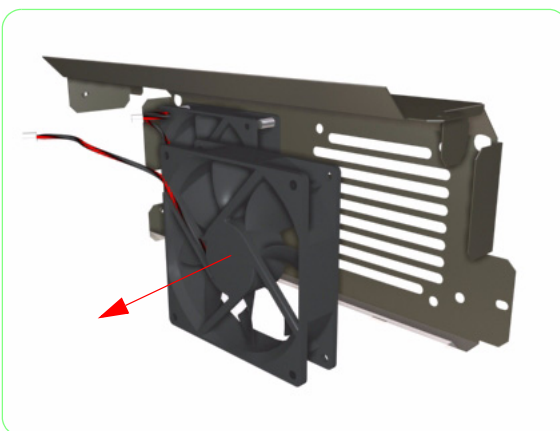


- 12.** Remove the metal bracket from the Printhead Cooling Fan Assembly.



- 13.** Remove four screws that secure the Printhead Cooling Fan to the Printhead Cooling Fan Assembly.

Be careful when removing the screws since there are washers between the Fan and the Fan Assembly. Make sure these Washers are re-installed when installing the Cooling Fan.



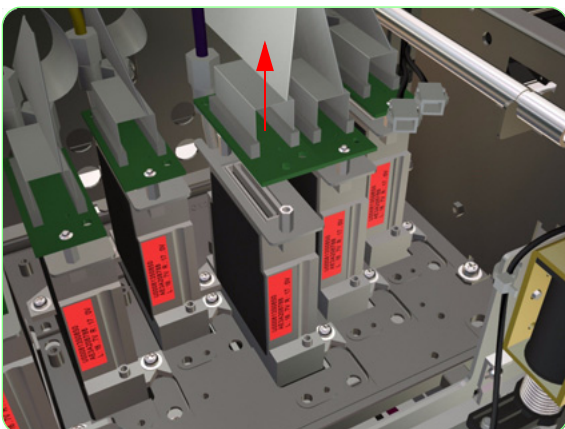
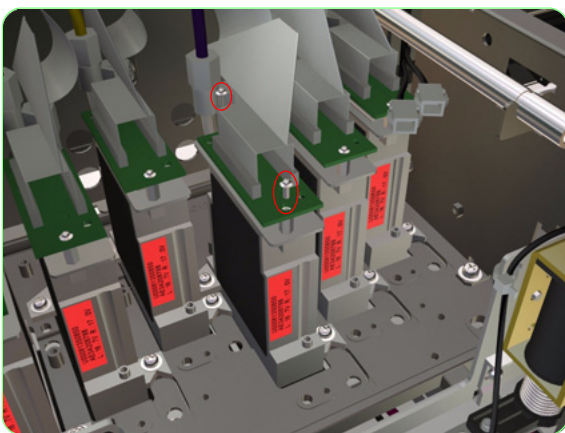
- 14.** Remove the Printhead Cooling Fan from the Printhead Cooling Fan Assembly.

Printhead

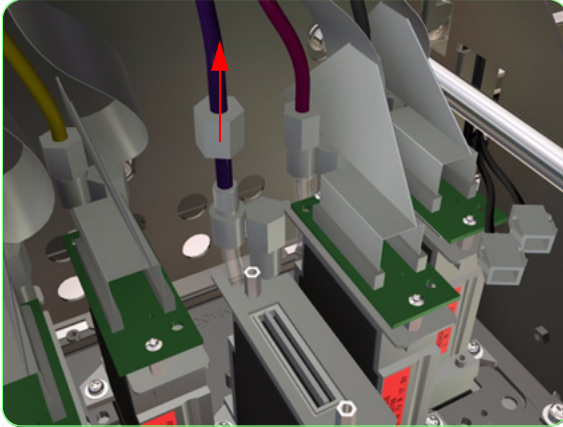
Removal

Switch off the product and remove the power cable.

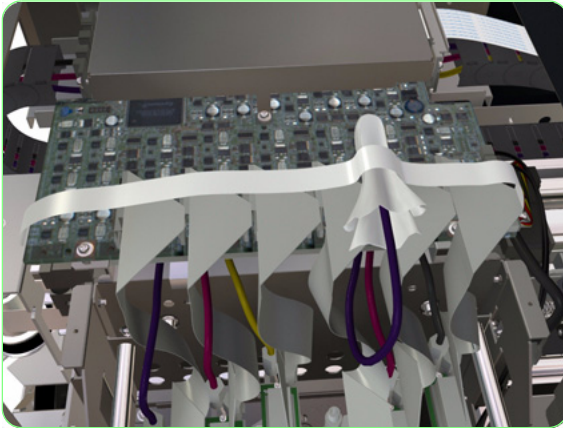
1. Remove the Upper Side Cover (Right) ⇒ Page 8-4.
2. Remove the Top Side Cover (Right) ⇒ Page 8-5.
3. Remove the Capping Door ⇒ Page 8-13.
4. Remove the Printhead Cooling Fan Assembly ⇒ Page 8-88.
5. Remove two screws that secure the Printhead Connector Assembly to the Printhead.



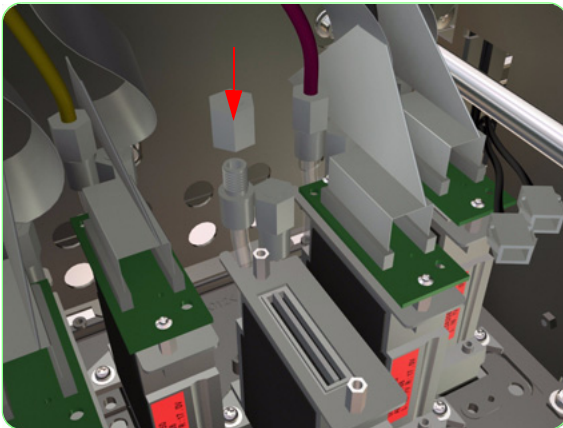
6. Disconnect the Printhead Connector Assembly from the Printhead.



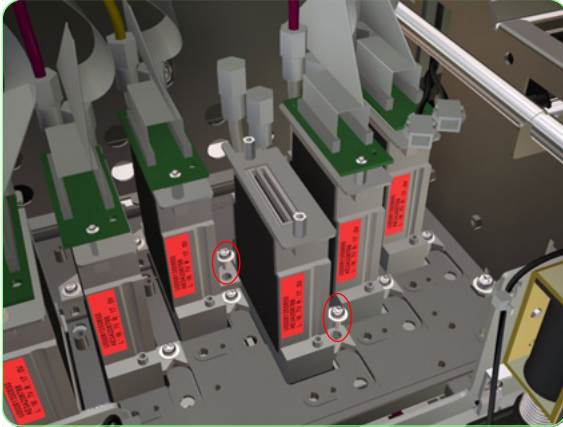
- 7.** Disconnect the Ink Tube from the Printhead.



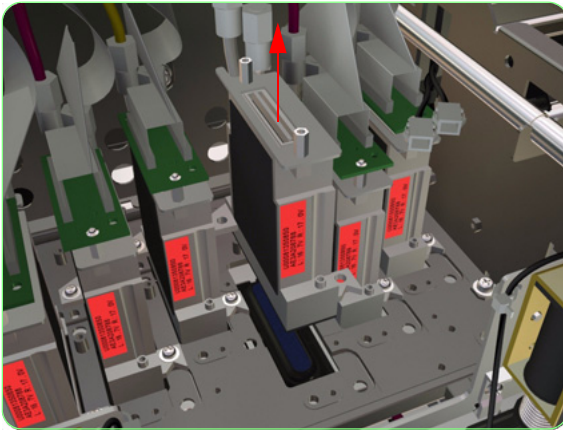
- 8.** Cover the Ink Tube carefully with a paper cloth and secure it to the Carriage Assembly with some tape.



- 9.** Install a Tube Cap on to the Printhead.



- 10.** Remove two screws that secure the Printhead to the Carriage Assembly.



- 11.** Remove the Printhead from the Carriage Assembly.

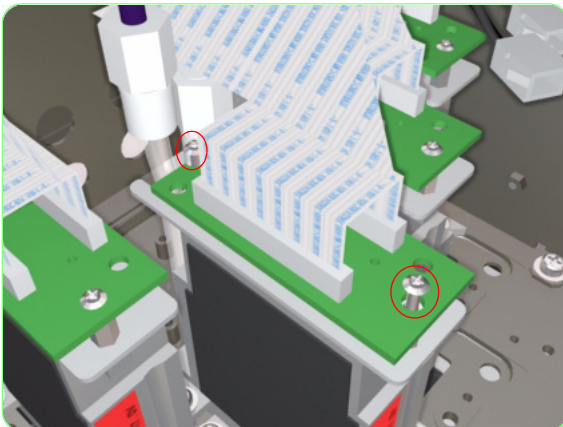
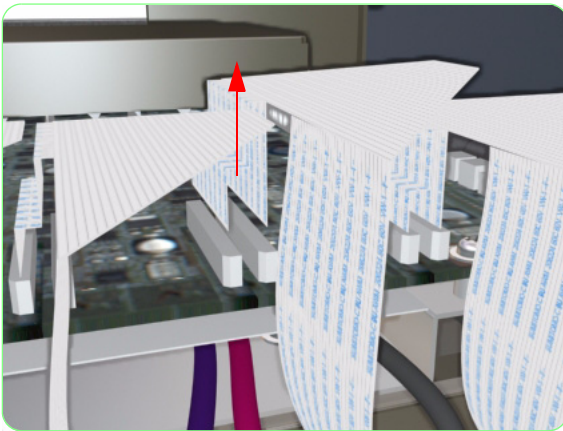
You MUST carefully follow the instructions in Chapter 3 in order to install and adjust the NEW Printhead correctly.

Printhead Connector Assembly

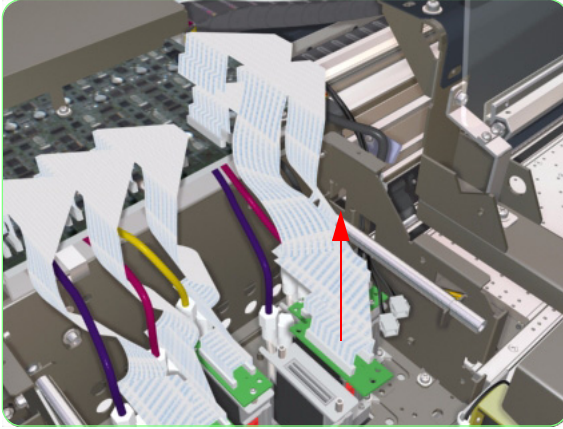
Removal

Switch off the product and remove the power cable.

1. Remove the Upper Side Cover (Right) ⇒ Page 8-4.
2. Remove the Top Side Cover (Right) ⇒ Page 8-5.
3. Remove the Capping Door ⇒ Page 8-13.
4. Remove the Printhead Cooling Fan Assembly ⇒ Page 8-88.
5. Disconnect the Printhead Connector Cable from the Carriage PCA.



6. Remove two screws that secure the Printhead Connector Assembly to the Printhead.



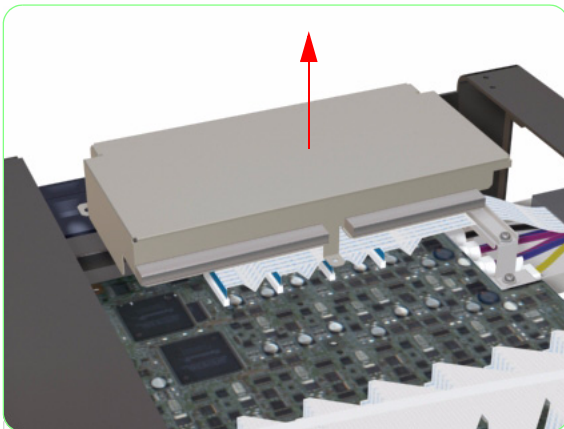
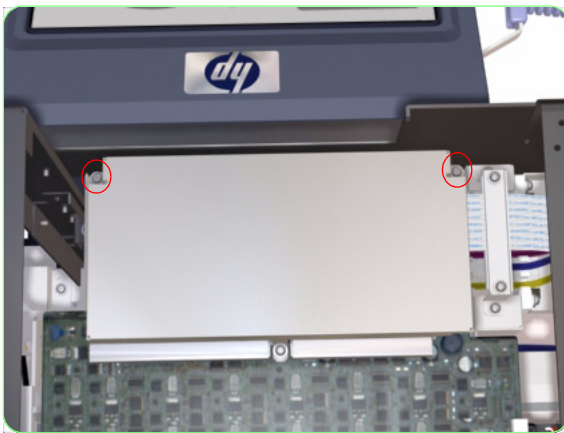
7. Disconnect the Printhead Connector Assembly from the Printhead and remove from the Printer.

Carriage PCA

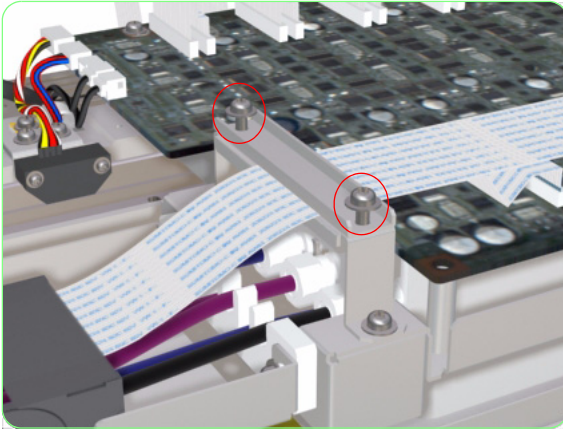
Removal

Switch off the product and remove the power cable.

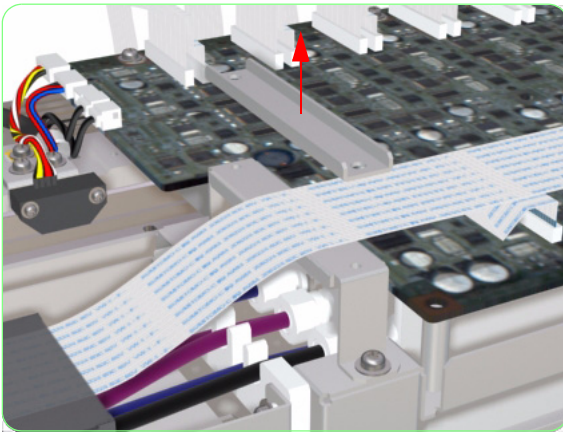
1. Remove the Upper Side Cover (Right) ⇒ Page 8-4.
2. Remove the Top Side Cover (Right) ⇒ Page 8-5.
3. Remove the Capping Door ⇒ Page 8-13.
4. Remove the Printhead Cooling Fan Assembly ⇒ Page 8-88.
5. Remove two screws that secure the Carriage PCA Cover to the Carriage Assembly.



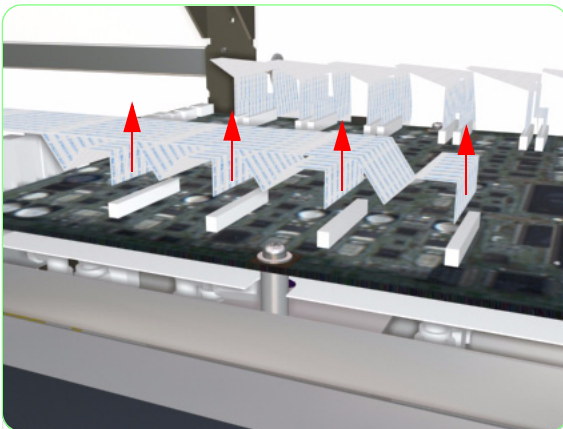
6. Remove the Carriage PCA Cover from the Carriage Assembly.



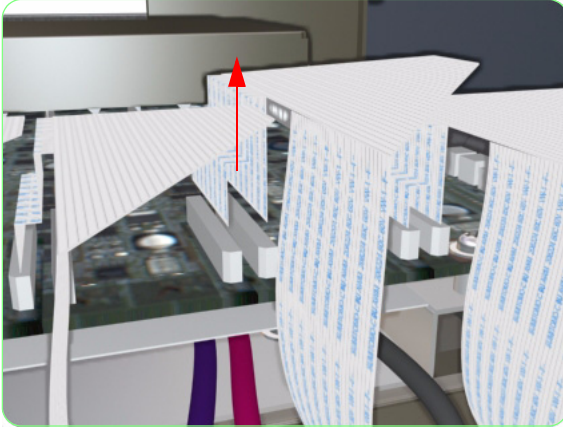
- 7.** Remove two screws that secure the metal bracket to the Carriage Assembly.



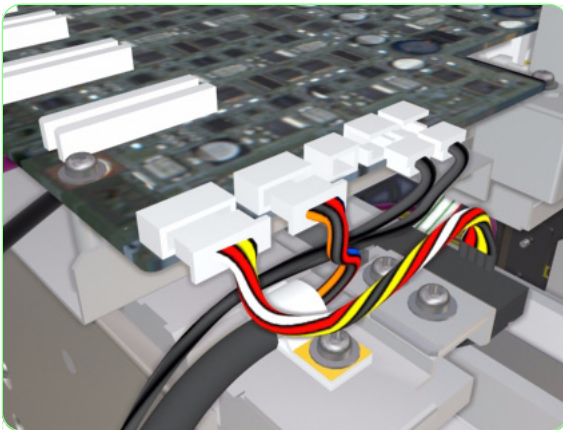
- 8.** Remove the metal bracket from the Carriage Assembly.



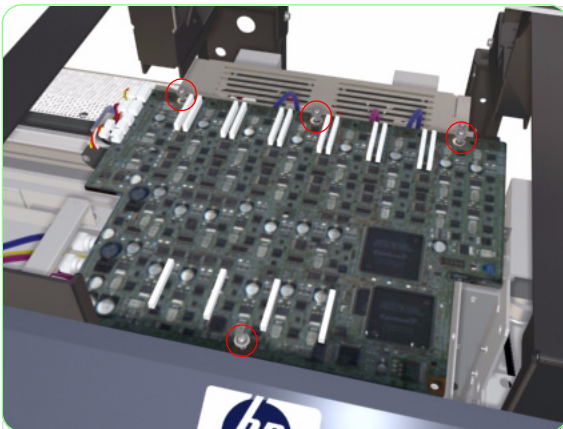
- 9.** Disconnect the Trailing Cable from the Carriage PCA.



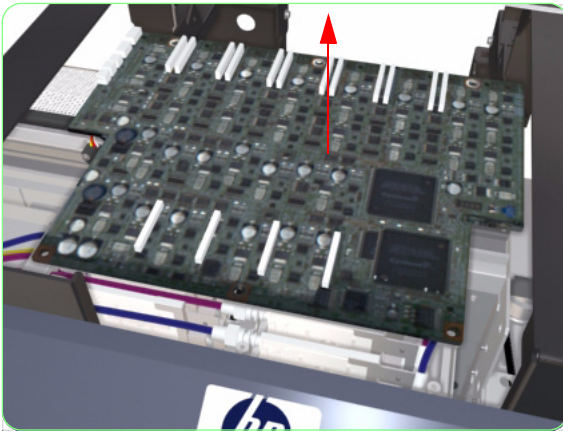
10. Disconnect ALL the Printhead Connector Cables from the Carriage PCA.



11. Disconnect ALL cables from the Carriage PCA.



12. Remove four screws that secure the Carriage PCA to the Carriage Assembly.



13. Remove the Carriage PCA from the Printer.

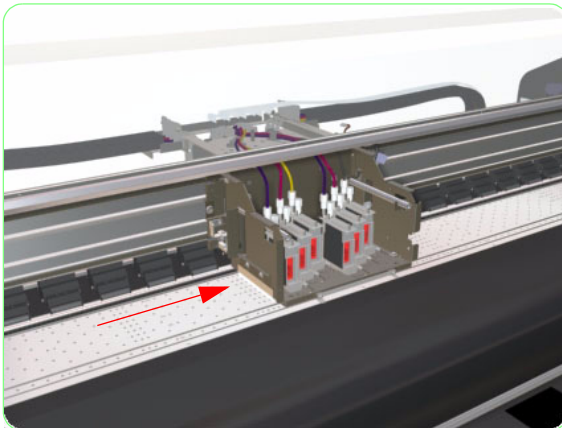
Carriage Base Plate Replacement

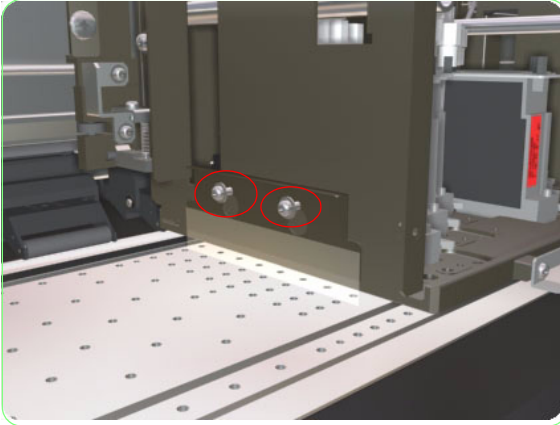
Removal

1. Enter the maintenance mode, and then select **UNCAP CARRIAGE**.
2. Verify that the cap is lowered, and then turn off the printer using the main power switch at the back of the printer.
3. Remove the Upper Side Covers (Right and Left) ⇒ Page 8-4.
4. Remove the Top Side Cover (Right and Left) ⇒ Page 8-5.
5. Remove the Top Cover ⇒ Page 8-6.
6. Remove the Capping Door ⇒ Page 8-13.
7. Remove the Wiping Door ⇒ Page 8-17.
8. Remove the Carriage PCA ⇒ Page 8-97.

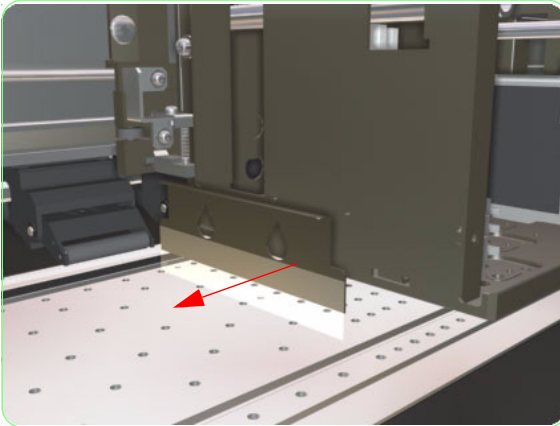
NOTE: Remove the cable carriage PCA when removing the Carriage PCA, but leave the flat cables attached to the Carriage PCA.

9. Remove the Printhead Cooling Fan Assembly ⇒ Page 8-88.
10. Disconnect the Printhead Connector Assembly ⇒ Page 8-95.
11. Remove the Encoder Strip ⇒ Page 8-116.
12. Move the carriage to a spot on the platen around the fourth platen post from the capping side of the printer.

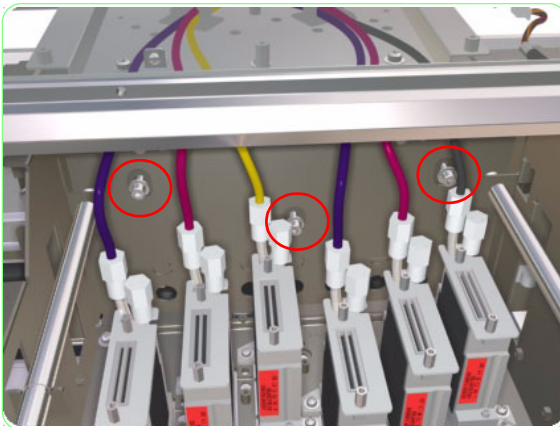




- 13.** Remove the two screws that are used to secure the plate assembly.



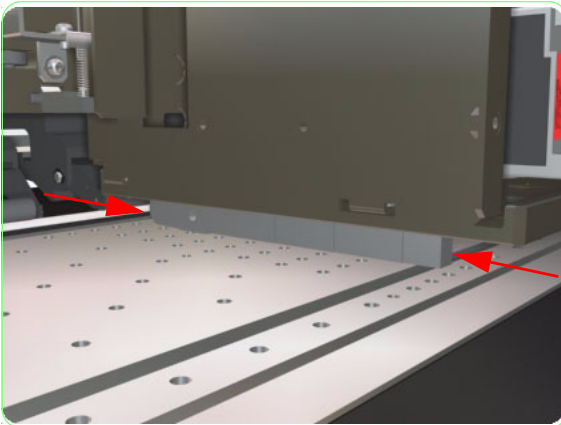
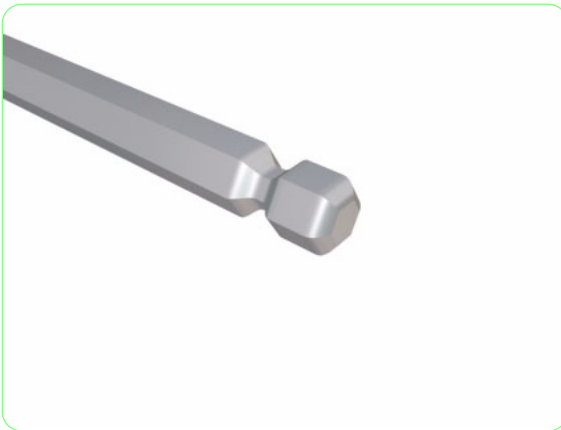
- 14.** Remove the plate assembly.



- 15.** Loosen the three screws that are used to secure the carriage to the headbase. You will remove them in a later step.

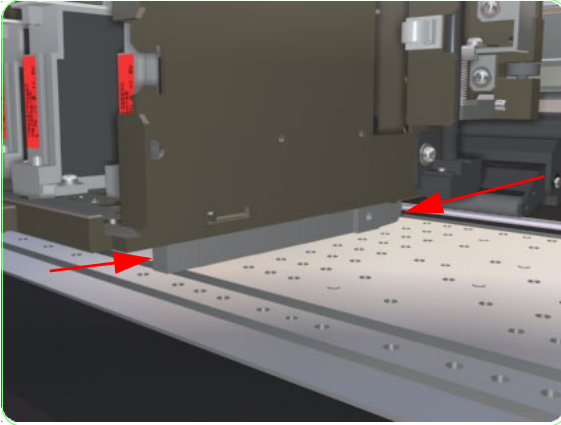


To loosen and eventually remove the screws, you need a 3mm Allen key with a length of at least 20cms and an angled head to assist when a screw cannot be accessed perpendicularly.

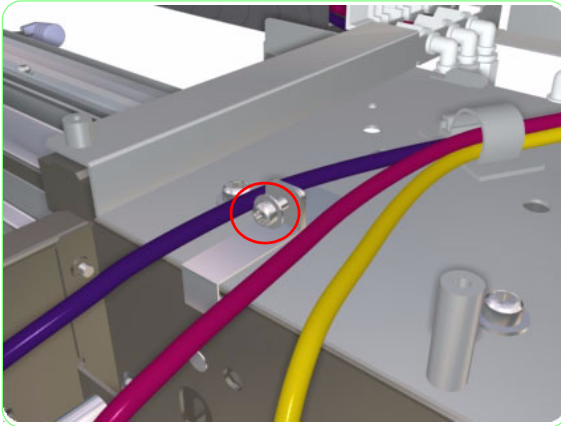


16. Slide the height-adjustment jig below the headbase plate to keep the printheads from touching the platen.

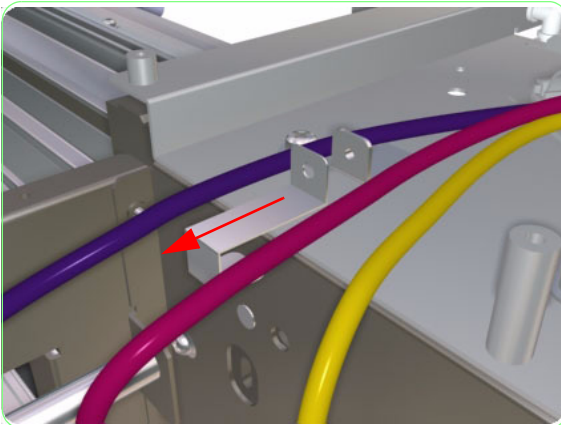
Do not lift the printheads more than is absolutely necessary. Doing so may result in a flow of ink from the printhead back into the ink cartridge.

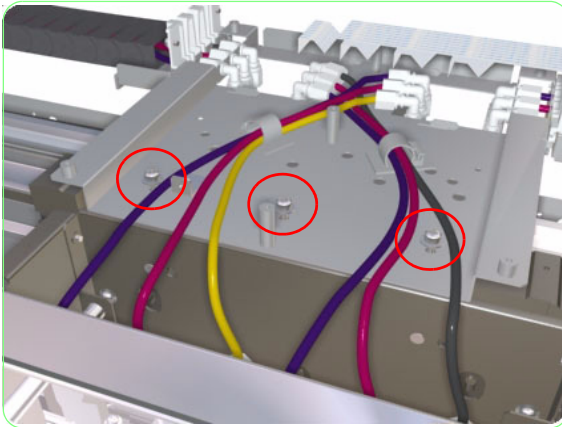


17. Remove the screw that is used to secure the spring.

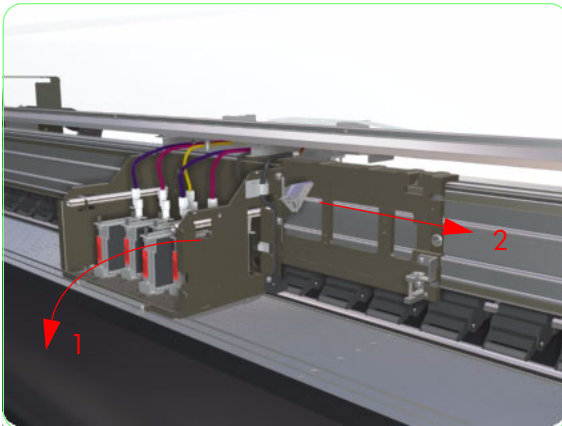


18. Remove the spring.

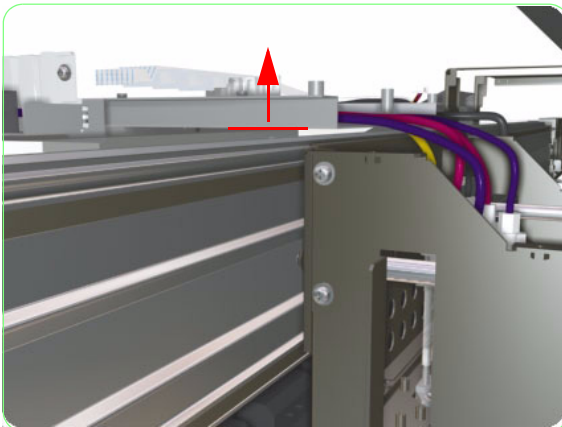




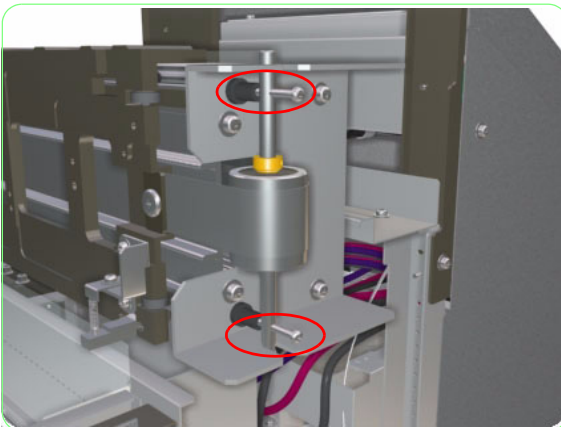
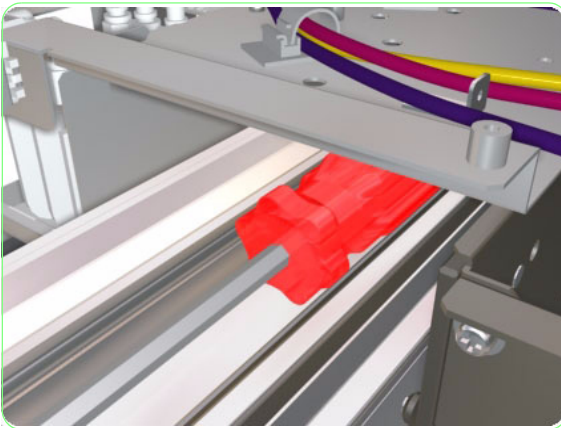
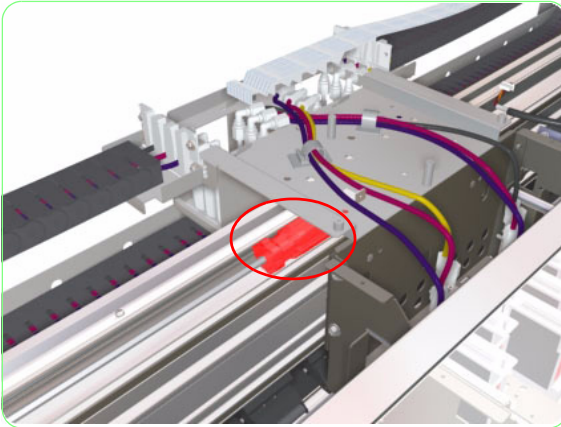
19. Remove the three screws that are used to secure the bracket assembly to the headbase.



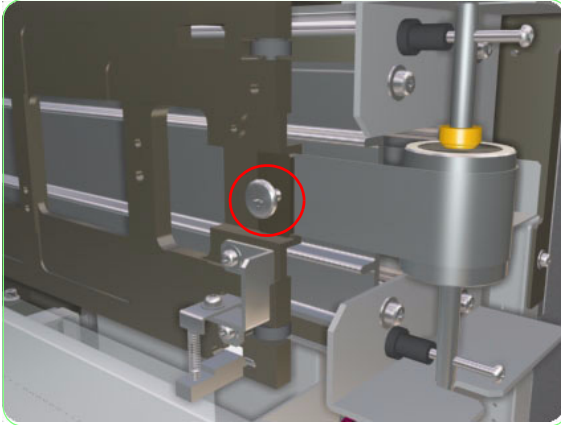
20. Remove the three screws that you loosened in step 15, and then move the headbase slightly toward the paper-output side of the printer so that you can then slide the carriage base toward the wiping side.



Move the carriage in a manner such that the bracket assembly does not touch the T-fence. One solution is to put an object with a 15 to 30mm diameter (such as a screwdriver handle) under the bracket assembly, as shown in the following two images.



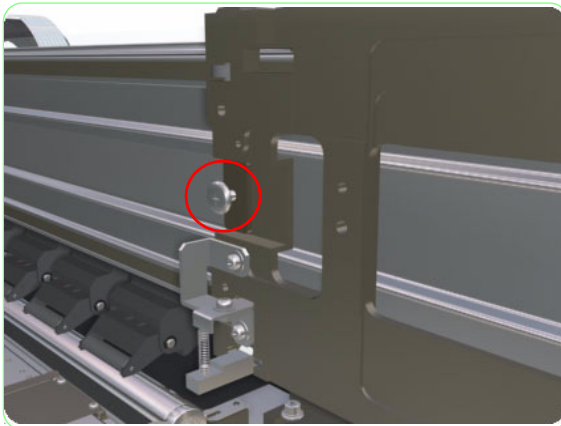
- 21.** Loosen the two screws that are used to secure the Tension Pulley on the right side of the printer. Loosening these two screws will release the tension on the Carriage Belt. You must always loosen the belt before removing it.



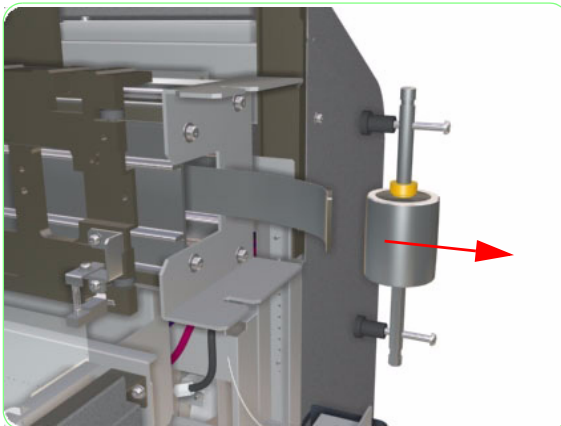
- 22.** Remove the screw that is used to secure the belt to the right side of the Carriage Assembly.

Be very careful when handling the Belt; it is sharp and could cause injury.

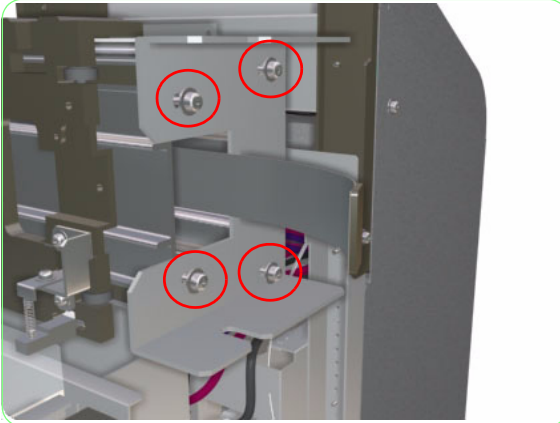
Be careful not to scratch or otherwise damage the steel belt.



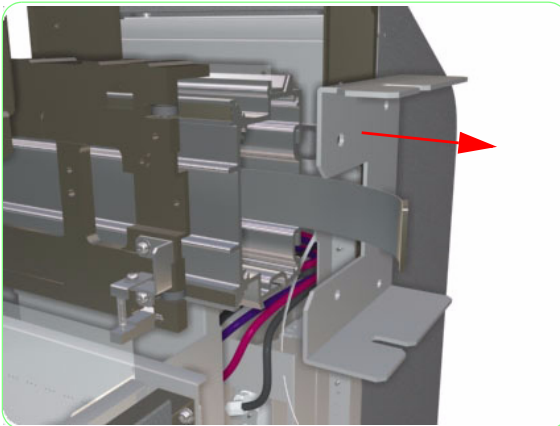
- 23.** Remove the screw that is used to secure the belt to the left side of the Carriage Assembly.



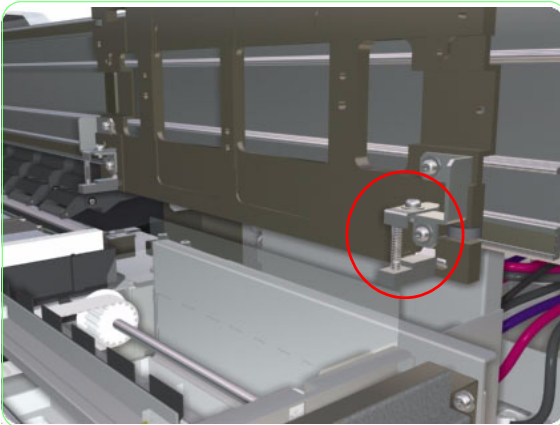
- 24.** Release the Belt and remove the Drive Pulley from the printer.



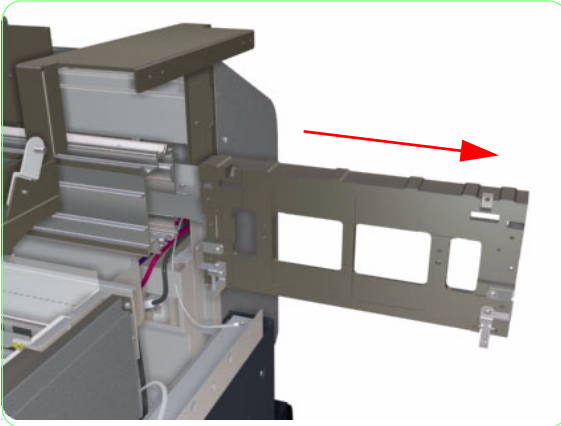
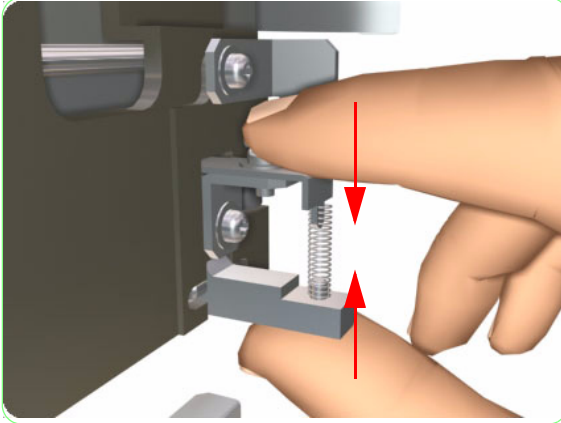
25. Remove the four screws that are used to secure the bracket to the printer body.



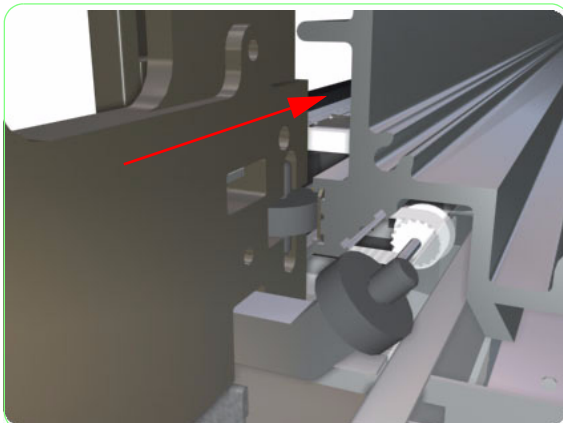
26. Remove the bracket.



27. Remove the carriage base assembly by squeezing the spring and sliding the carriage base off of the printer chassis.



Installation

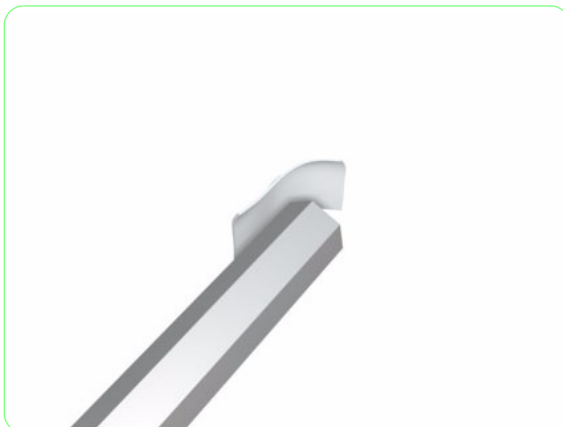


1. At the Y-rail edge, squeeze the spring and install the carriage assembly by sliding it onto the printer chassis.

2. Follow steps 3 - 26 from the removal procedure in reverse order to complete the installation procedure.

Be sure to adjust the belt tension and carriage height as necessary.

TIP: If you have difficulties getting the screws to stay affixed to the end of the Allen key when fitting the screws, try wedging a small piece of paper between the screw and the tip of the Allen key.



3. After completing the installation, thoroughly clean the printer.

If you discover that some ink was returned to the ink cartridges during the removal and installation process, and it cannot be recovered by a thorough cleaning, charge the corresponding printhead or the entire ink system, as necessary ⇒ Page 4-24.

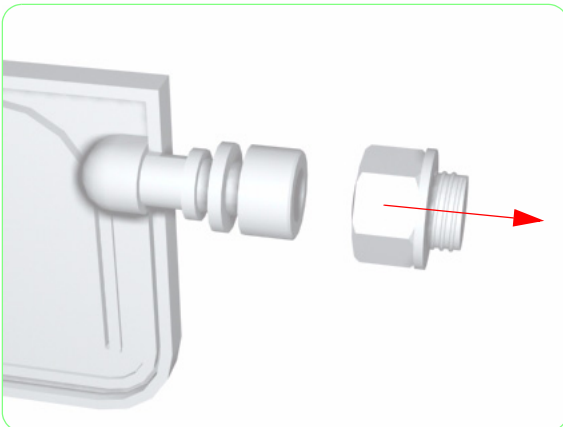
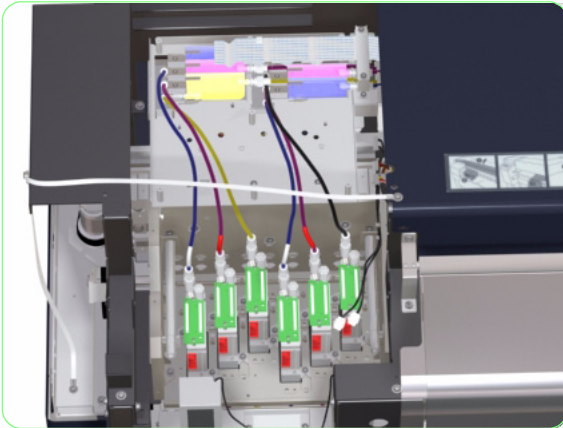
Once the Carriage Drive Assembly has been installed correctly, you must perform the Scan-Axis Belt Tension Adjustment (refer to Page 5-18) and the Belt Tension Adjustment (refer to Page 5-3).

Air Damper

Removal

Switch off the product and remove the power cable.

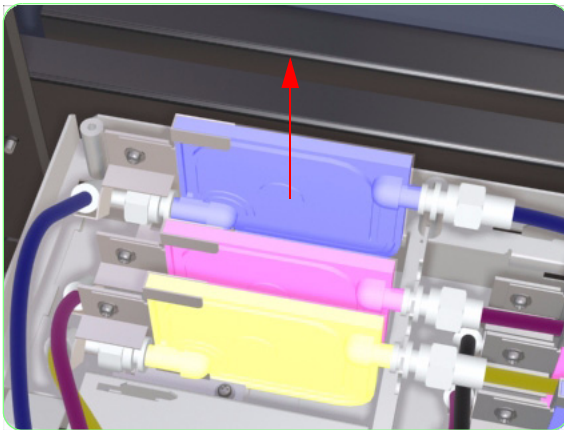
1. Remove the Upper Side Cover (Right) ⇒ Page 8-4.
2. Remove the Top Side Cover (Right) ⇒ Page 8-5.
3. Remove the Capping Door ⇒ Page 8-13.
4. Remove the Printhead Cooling Fan Assembly ⇒ Page 8-88.
5. Remove the Carriage PCA ⇒ Page 8-97.
6. If necessary, disconnect the Printhead Connector Cables from the Printheads in order to get better access to the Ink Tubes.
7. Identify the failing Air Damper and select the same Air Damper from the Air damper support Kit (each Air Damper has a different color tape and tube length).



8. Remove the cap from the **new** Air Damper that will connect to the Ink Supply Tubes.

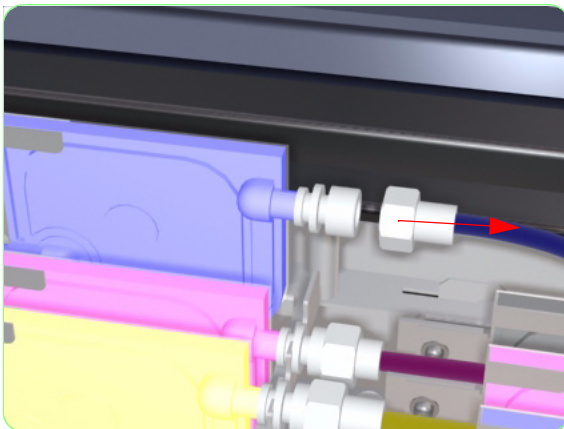


9. Remove one screw that secures the Air Damper to the Carriage Assembly.



10. Pull up the Air Damper slightly so you can access the Ink Supply Tube connector.

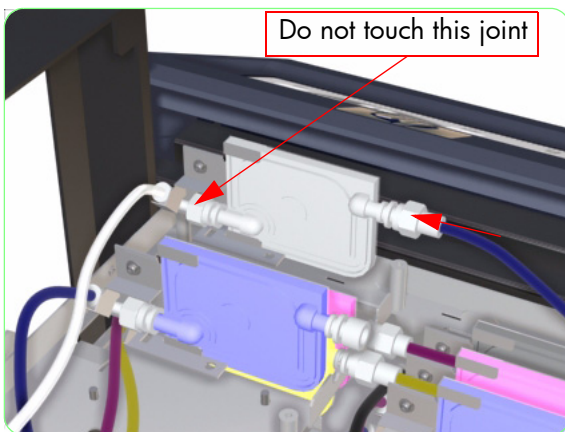
Note that the Tube to the Light Cyan Air Damper is secured with a Cable Tie. Make sure that this Tube is resecured with a Cable Tie when a NEW Light Cyan Air Damper is installed.



11. Disconnect the Ink Supply Tube from the Air Damper.

When the Ink Supply Tube has been disconnected from the Air Damper, it is very important to immediately connect the NEW Air Damper to the Ink Supply Tube to prevent ink from being drawn into the Subtank.

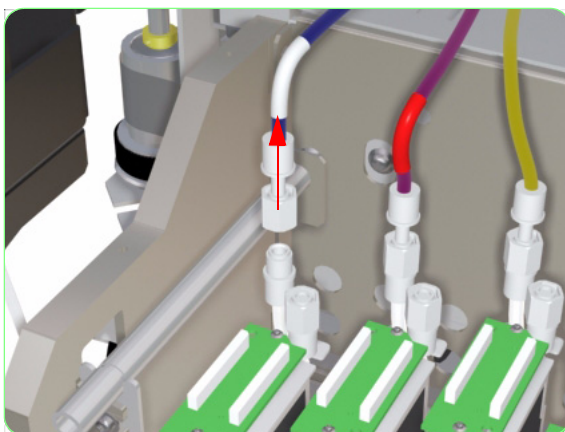
The O-Ring inside the Ink Supply Tube should be replaced by a new one, and should be inserted all the way in.



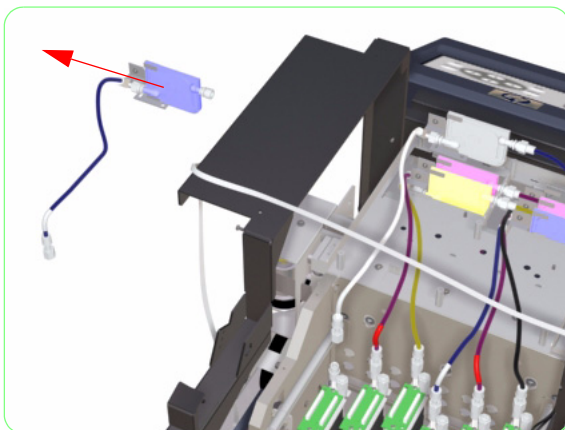
- 12.** Quickly connect the Ink Supply Tube to the **new** Air Damper.

Do not loosen or remove the joints on either side of the Air damper. Also, do not loosen or bend the nuts on the joints since they have been fastened to a specific torque.

When connecting the Ink Supply Tube to the Air Damper, make sure the joint is straight and fasten the nut securely with your fingers (do NOT use any other tool).



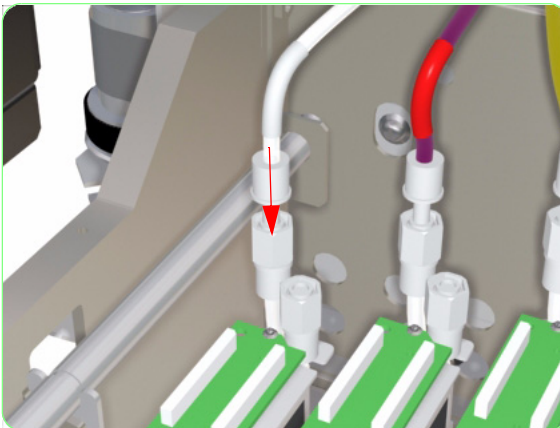
- 13.** Disconnect the Air Damper Tube from the Printhead.



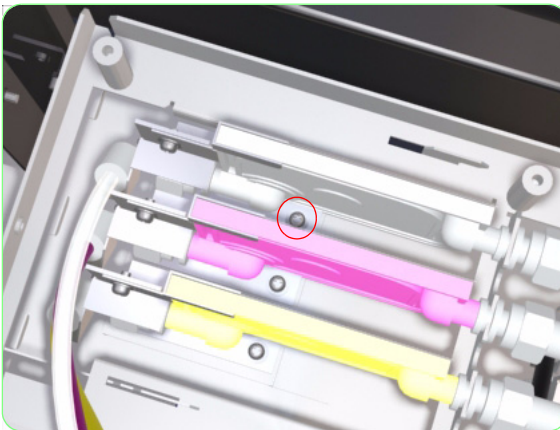
- 14.** Remove the failing Air Damper from the Printer.



- 15.** Remove the cap from the tube of the **new** Air Damper that will connect to the Printhead.



- 16.** Quickly connect the tube of the **new** Air Damper to the Printhead.



- 17.** Install the **new** Air Damper into the Carriage and secure with one screw.

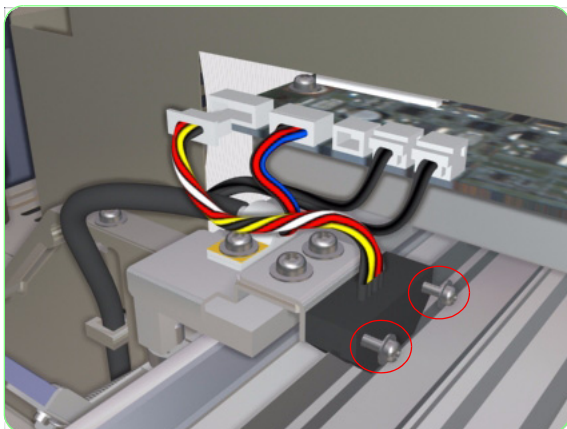
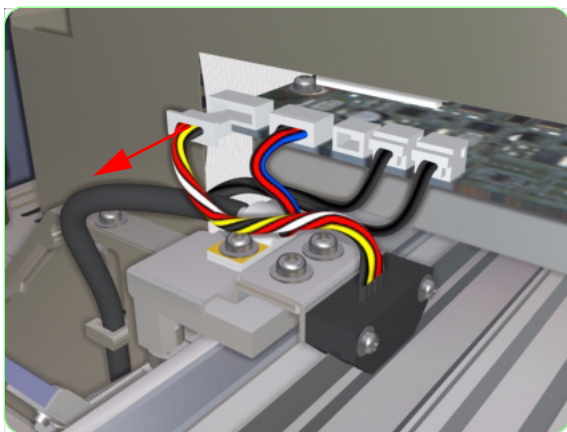
Once the new Air Damper has been installed, you will need to switch On the Printer and charge the ink system (for more information, refer to Page 4-25).

Encoder Sensor

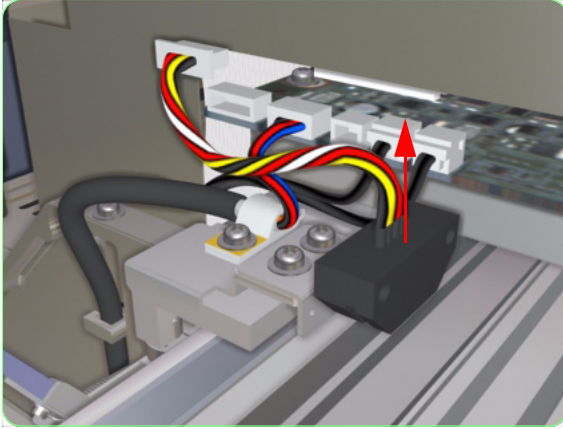
Removal

Switch off the product and remove the power cable.

1. Remove the Rear Cover ⇒ Page 8-3.
2. Remove the Upper Side Cover (Left and Right) ⇒ Page 8-4.
3. Remove the Top Side Cover (left and Right) ⇒ Page 8-5.
4. Remove the Top Cover ⇒ Page 8-6.
5. Disconnect the Encoder Sensor Cable from the Carriage PCA.



6. Remove two screws that secure the Encoder Sensor.



7. Remove the Encoder Sensor from the Printer.

Do not drop the plastic sheet between the Encoder Sensor and the fixing plate.

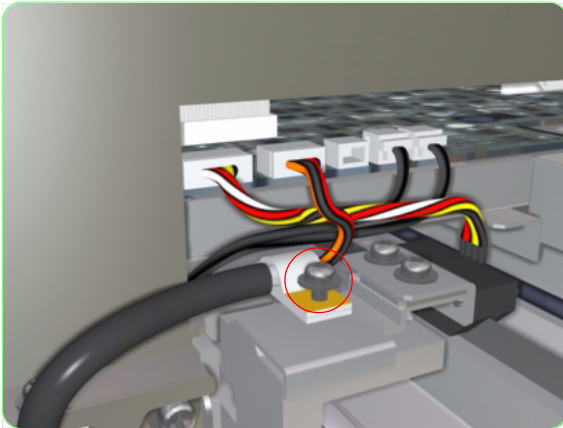
When a new Encoder Sensor is installed, make sure you re-insert the plastic sheet between the Encoder Sensor and the fixing plate.

Line Sensor

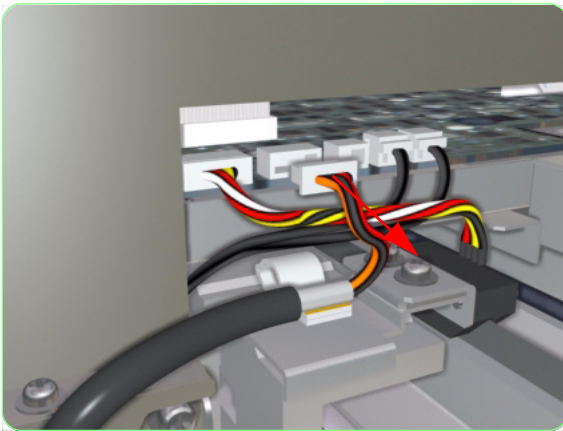
Removal

Switch off the product and remove the power cable.

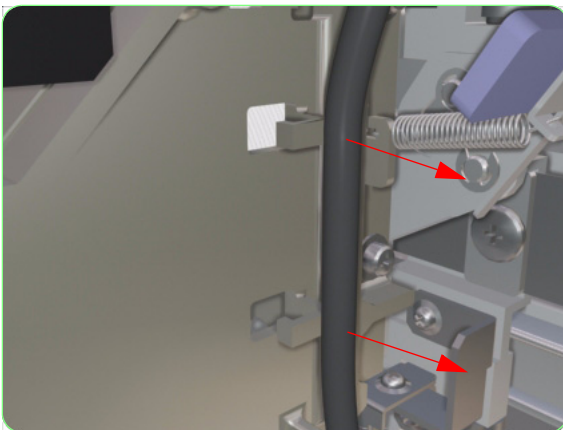
1. Open the Rear Cover.
2. Remove one screw that secures the Line Sensor Cable clip.

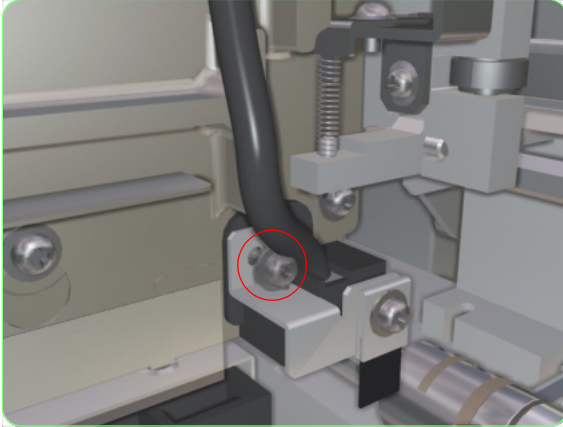


3. Disconnect the Line Sensor Cable from the Carriage PCA.

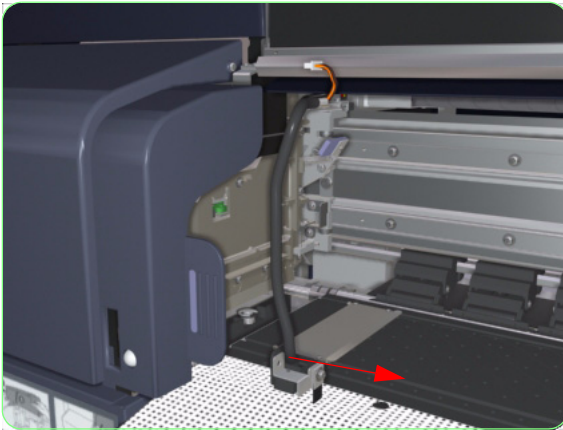


4. Release the Line Sensor Cable from the cable clips.





5. Remove one screw that secures the Line Sensor to the Carriage PCA.

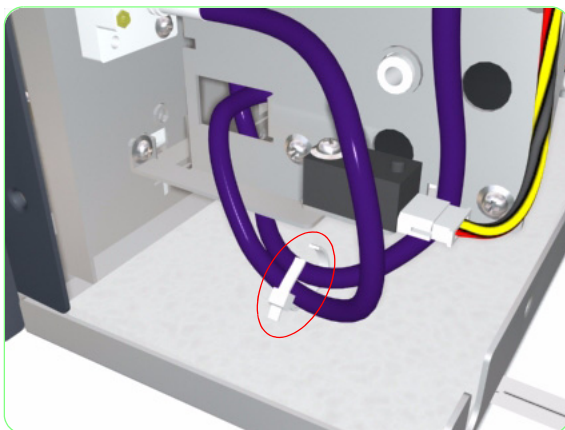


6. Remove the Line Sensor from the Printer.

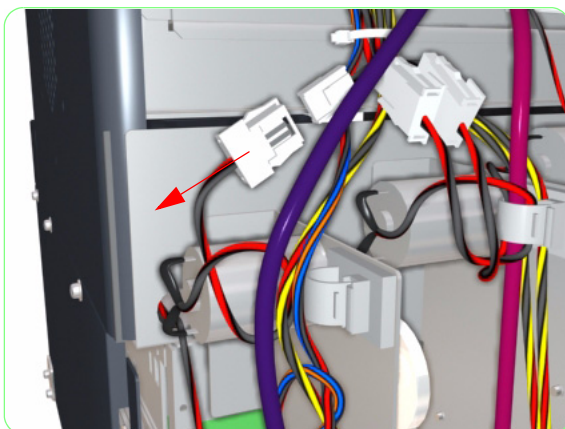
Ink Pump Assembly

Removal

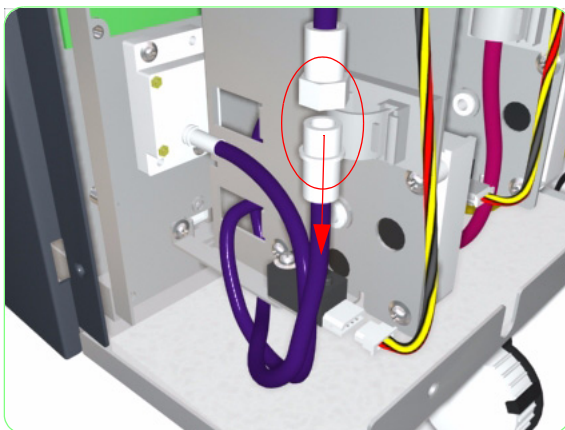
1. Purge the Ink from the Printer ⇒ Page 4-27.
Once the ink has been purged, switch Off the Printer.
2. Remove the Rear Ink Cartridge Cover (Left or Right) ⇒ Page 8-20.
3. Cut the cable tie that secures the Ink Pump Tube.

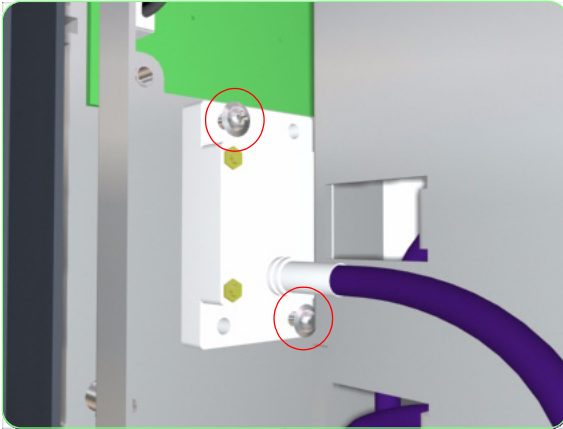


4. Disconnect the Ink Pump Assembly cables.



5. Carefully disconnect the Ink Pump Tube where it is attached with the plastic collar.

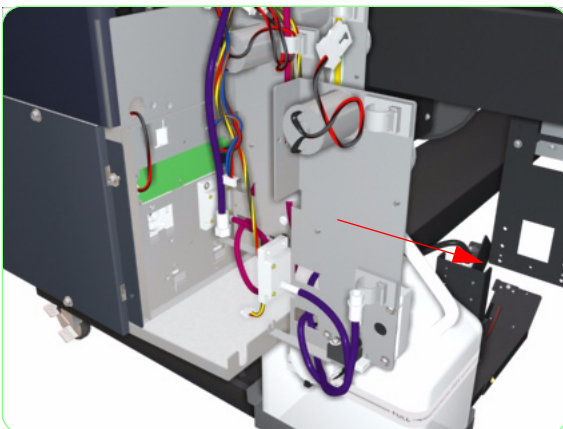




6. Remove the two screws that are used to secure the Needle.



7. Remove the three screws that are used to secure the Ink Pump Assembly to the Printer.



8. Remove the Ink Pump Assembly from the Printer.

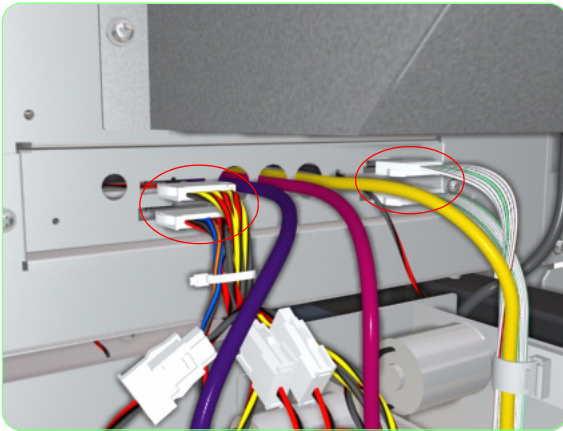
Once the new Ink Pump Assembly has been installed, you will need to switch On the Printer and charge the Ink (for more information, refer to Page 4-25).

Once you have replaced the Ink Pump Assembly, make sure you reset the Pump Tube counter (for more information, refer to Page 4-97).

Ink Supply Station (Left or Right)

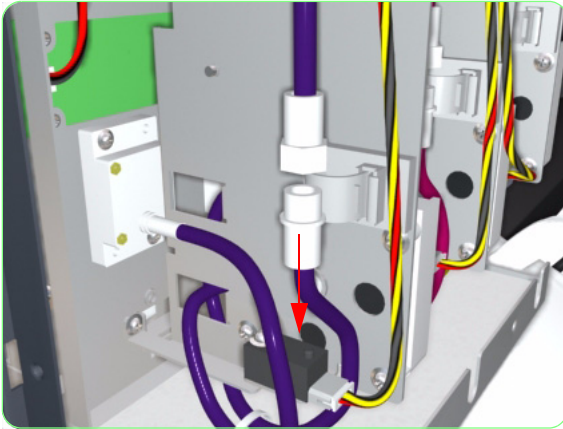
Removal

1. Purge the Ink from the Printer ⇒ Page 4-27.
Once the ink has been purged, switch Off the Printer.
2. Remove the Lower Side Cover (Left or Right) ⇒ Page 8-8.
3. Remove the Rear Ink Cartridge Cover (Left or Right) ⇒ Page 8-20.
4. Disconnect the Ink Supply Station cables.

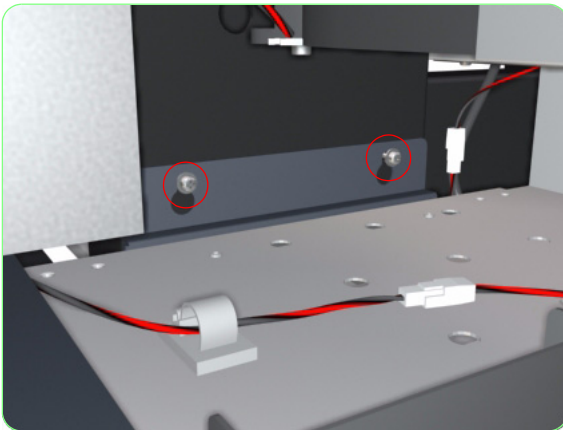


5. Remove the Ink Pump Tubes (for ALL three colors) from the cable clip.





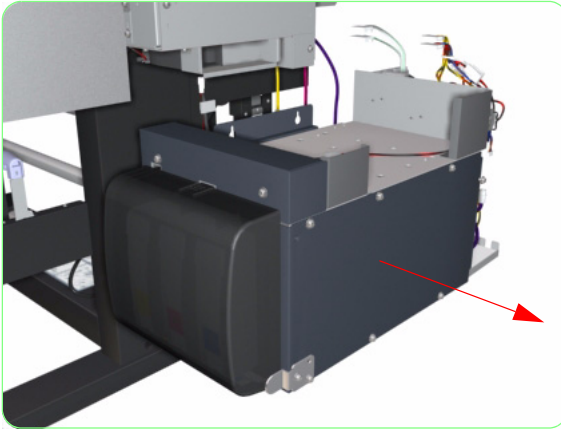
- 6.** Carefully disconnect the Ink Pump Tube (for ALL three colors) from the top side.



- 7.** Loosen two screw that secure the Ink Supply Station to the Printer.



- 8.** Remove two screws that secure the Ink Supply Station to the Printer.



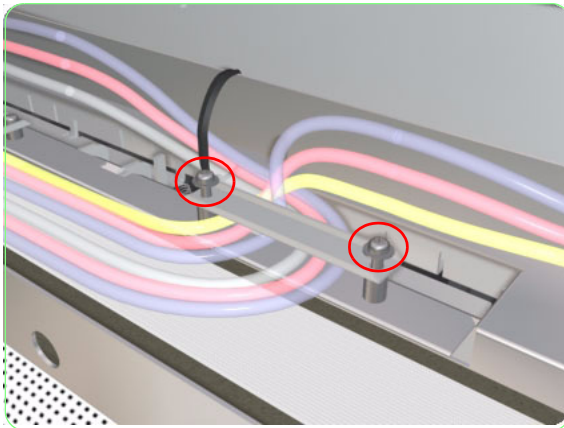
9. Remove the Ink Supply Station from the Printer.

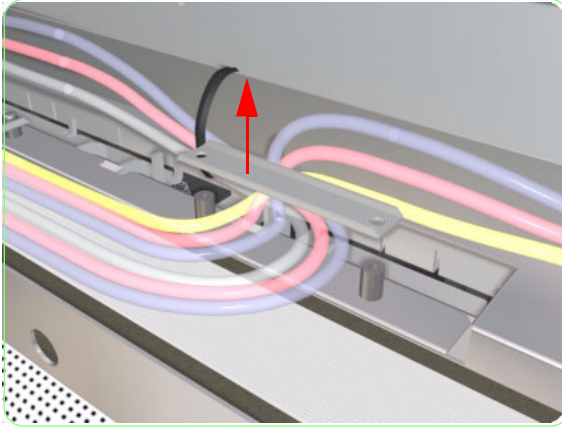
Once the new Ink Supply Station has been installed, you will need to switch On the Printer and charge the Ink (for more information, refer to Page 4-25).

Ink-supply and Subtank Tubes

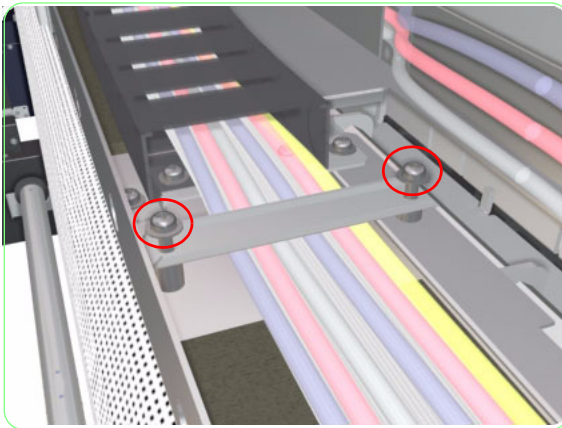
Removal

1. Purge the ink from the Printer ⇒ Page 4-27.
2. Enter the maintenance mode, and then select **UNCAP CARRIAGE**.
3. Verify that the cap is lowered, and then turn off the printer using the main power switch at the back of the printer.
4. Remove the Upper Side Covers (Left and Right) ⇒ Page 8-4.
5. Remove the Top Side Covers (Left and Right) ⇒ Page 8-5.
6. Remove the Top Cover ⇒ Page 8-6.
7. Remove the Angle ⇒ Page 8-20.
8. Remove the Lower Side Covers (Left and Right) ⇒ Page 8-8.
9. Remove the Subtank Covers (Left and Right) ⇒ Page 8-9.
10. Remove the Carriage PCA ⇒ Page 8-97.
11. Remove the two screws that are used to secure the cable holder plate at the back rail of the printer.

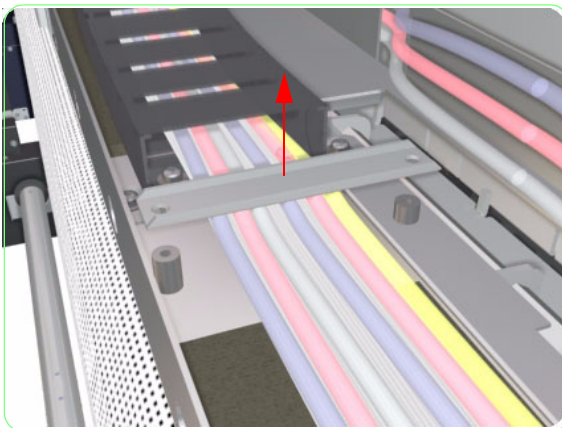




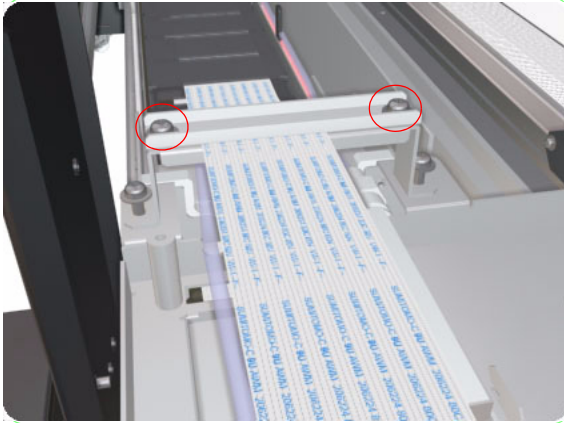
12. Remove the cable holder plate.



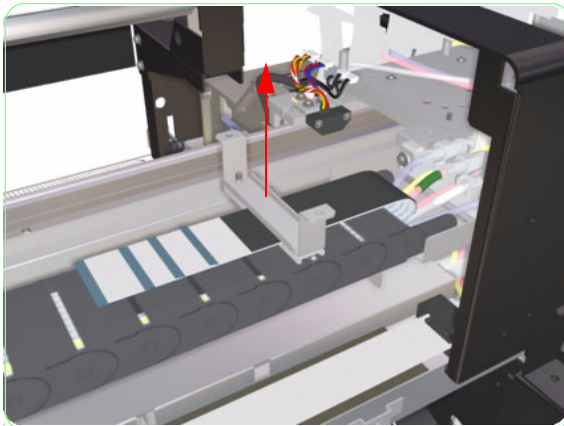
13. Remove the two screws that are used to secure the cable holder plate near the cable carrier.



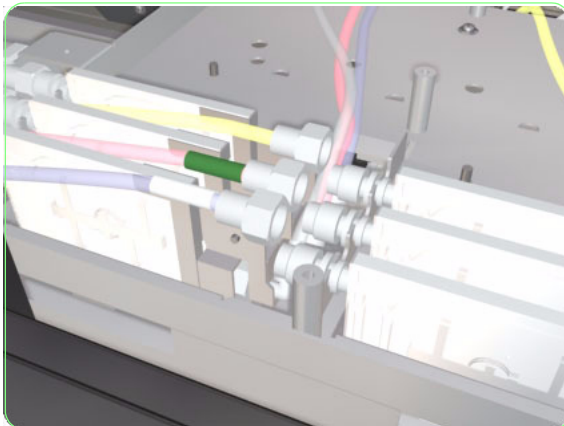
14. Remove the cable holder plate.



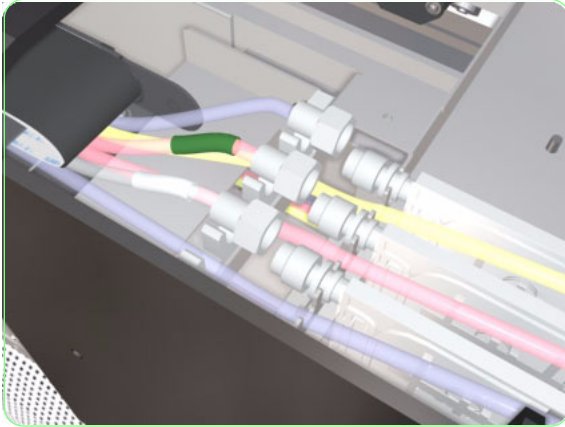
- 15.** Remove the two screws that are used to secure the trailing-cable holder plate to the carriage.



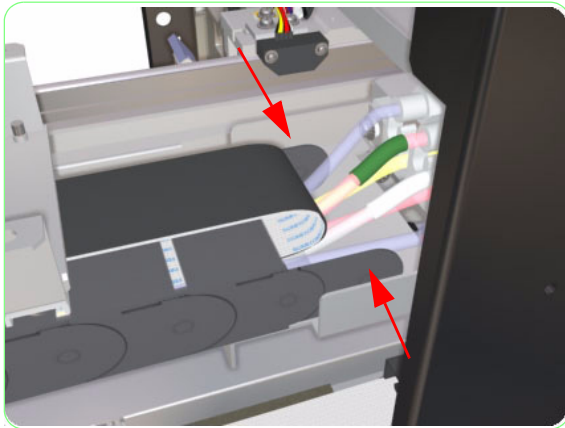
- 16.** Remove the trailing-cable holder plate.



- 17.** Loosen the plastic nuts and disconnect the YMC tubes from the air dumpers.

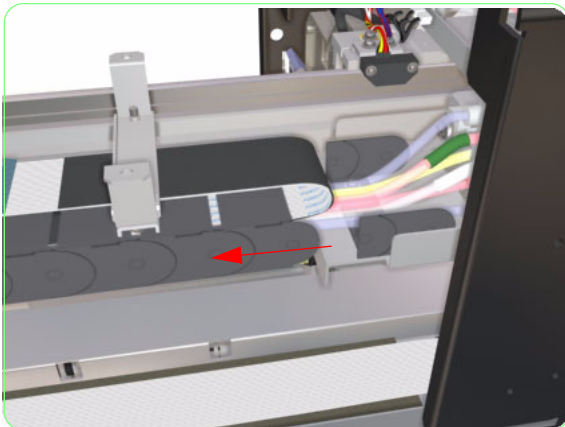


- 18.** Loosen the plastic nuts and disconnect the BkLmLc tubes from the air dumpers.

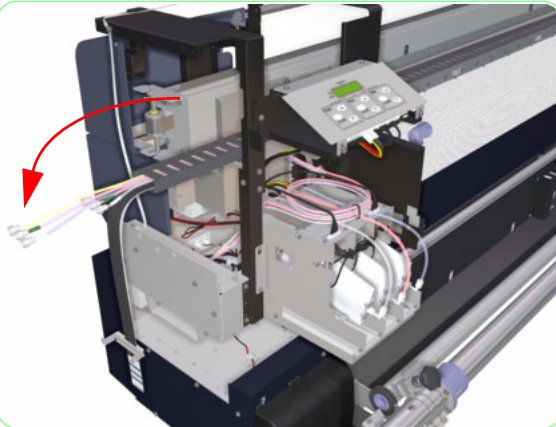


- 19.** Separate the second link of the cable carrier from the first link.

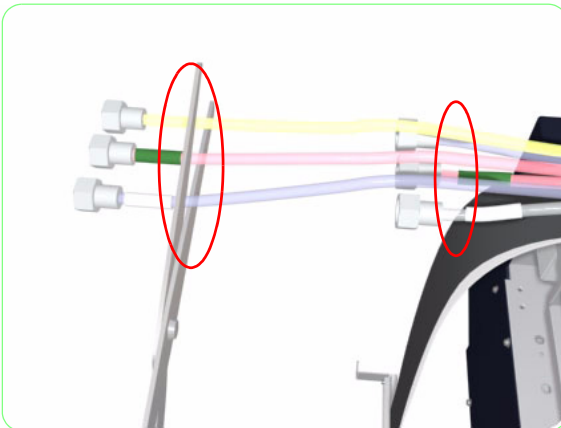
TIP: To facilitate the removal, push the first link of the cable carrier in the direction indicated by the arrow, and then lift the cable carrier.



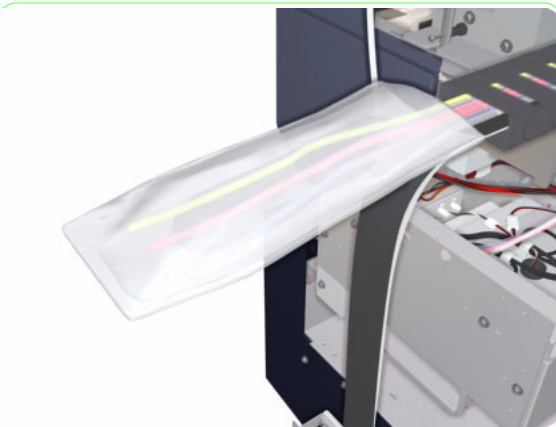
- 20.** Disconnect the cable carrier from the carriage.



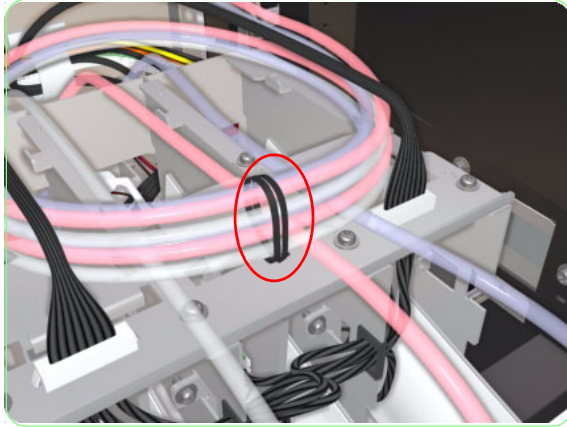
21. Lay the cable carrier flat, toward the wiping side of the printer.



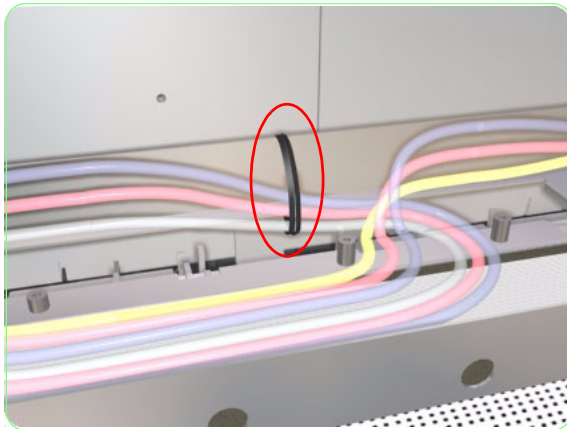
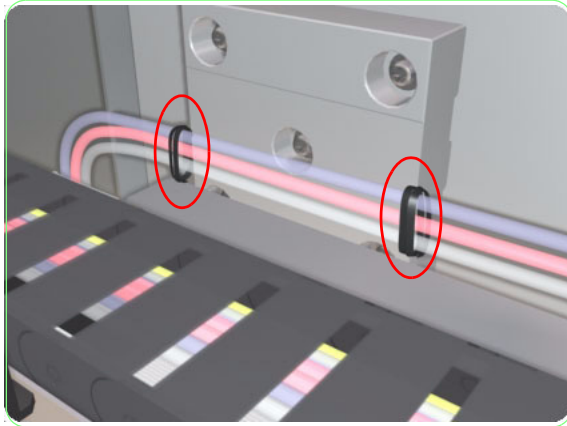
22. Use scissors to cut the nut joints at the ends of the six air dumper tubes.



23. Wrap the cut ends in plastic to keep them from dripping on and around the printer until you can remove the tubes and dispose them.



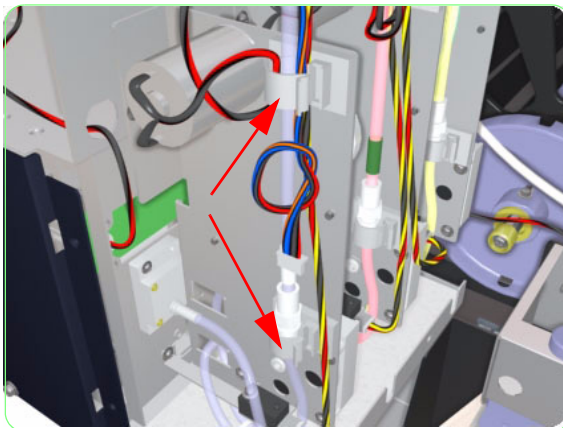
24. Undo the four twist-ties that are used to secure the ink-supply tubes.



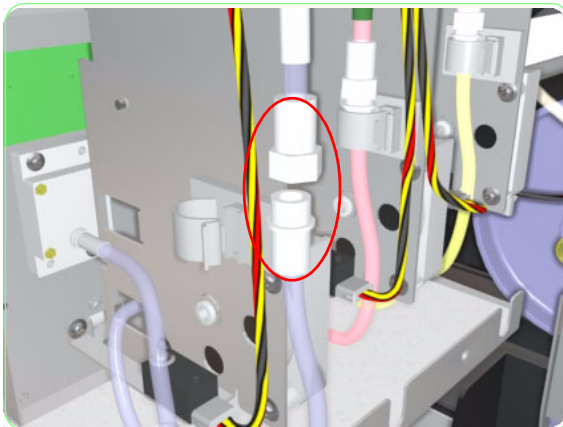


- 25.** At the back of the printer, loosen the screw that locks the Waste Bottle Bracket in place. You will use the waste bottle to collect the ink.

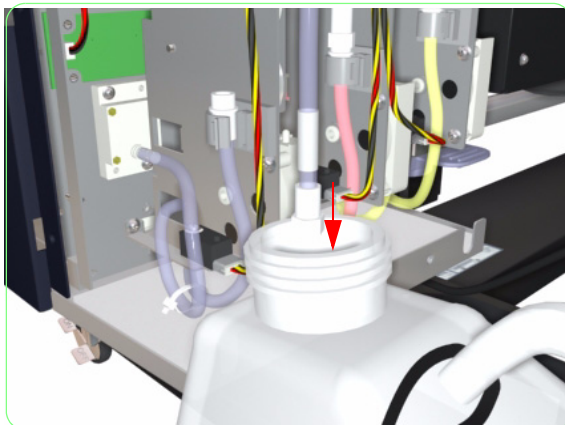
TIP: To protect the work area against ink drips and spills, place a layer of cardboard, newsprint, or any other absorbent material under the ends of the printer; especially under the sub tanks.



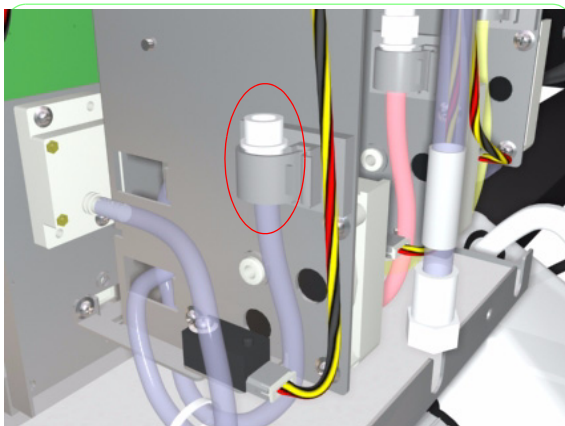
- 26.** At either end of the printer, detach the three tubes from the plastic clamps.



- 27.** Taking one tube at a time, loosen the nut, and separate the connected tubes.

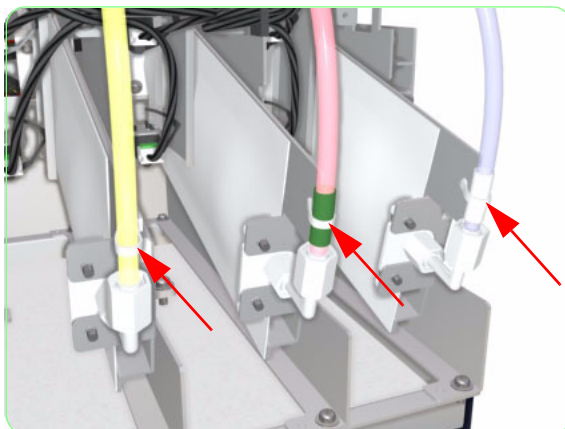


- 28.** Drain the upper part of the tube into the waste bottle.

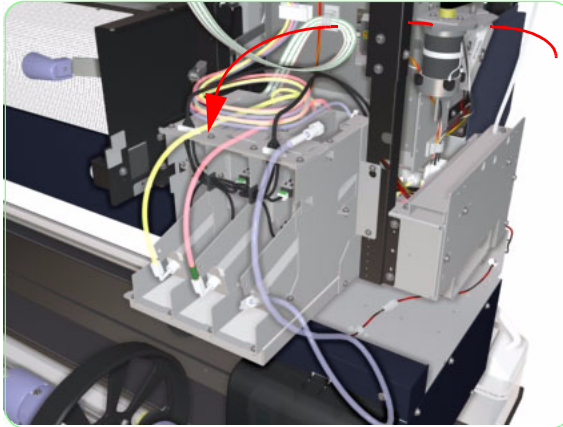


TIP: It is helpful to clip the lower part of the tube to the plastic securing clamp to keep it in an upright position while draining the top part of the tube.

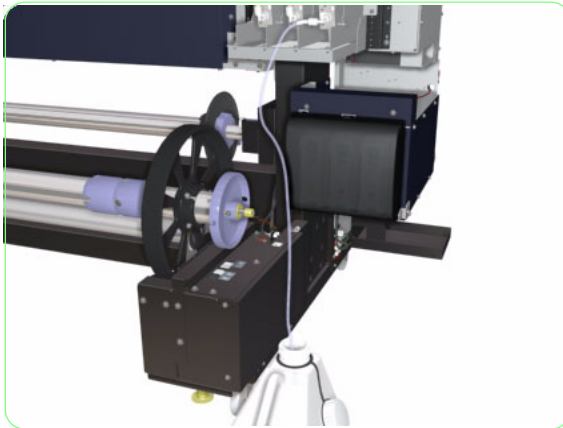
When the top part of the tube has drained, drain the lower part of the tube.



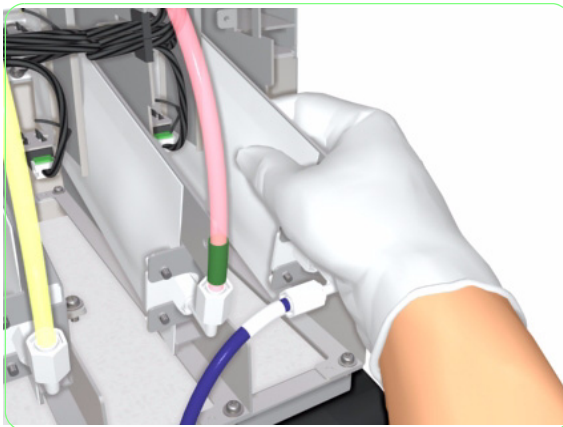
- 29.** Cut the Insulock ties that are used to secure the tubes to the front of the subtank (but do not loosen the plastic nuts).



- 30.** When the top part of the tube has drained, pull the tube through to the front side of the printer and continue to drain the tube into the waste bottle.

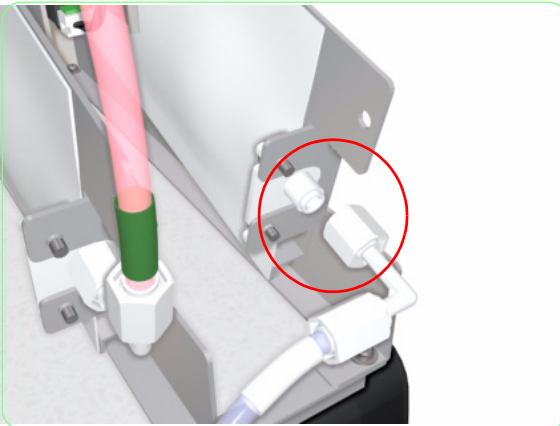


- 31.** Press and flatten the sub tanks to remove as much ink as possible. This is the best way to ensure against dripping ink on and around the printer.



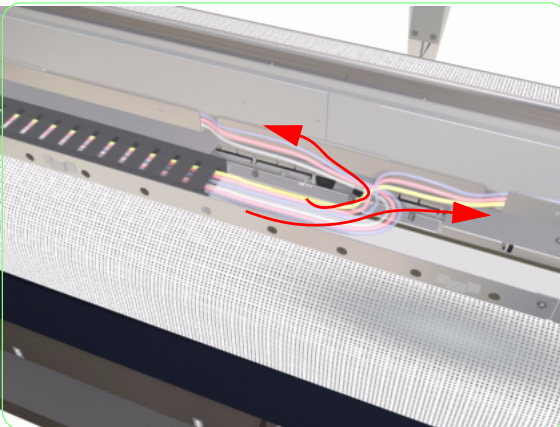


- 32.** When the tubes are empty, wrap the ends in plastic to keep them from dripping on and around the printer until you can remove the tubes and dispose them.

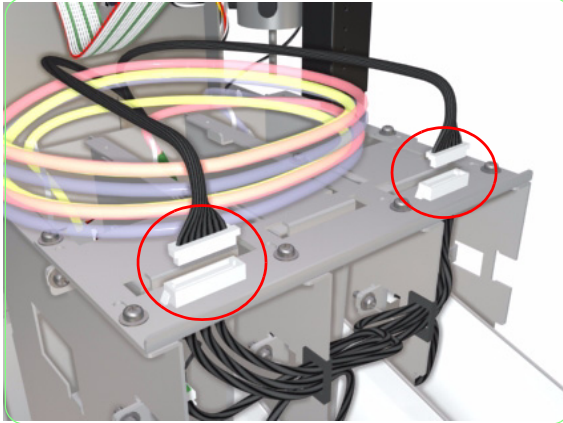


- 33.** Loosen the plastic nuts and disconnect the subtank tubes from the subtank.

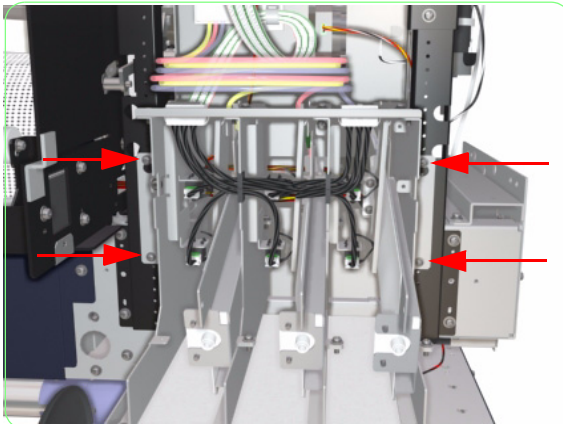
TIP: Have paper ready to wipe up any spilled ink.



- 34.** Pull the tubes out of the cable carrier in the direction shown.

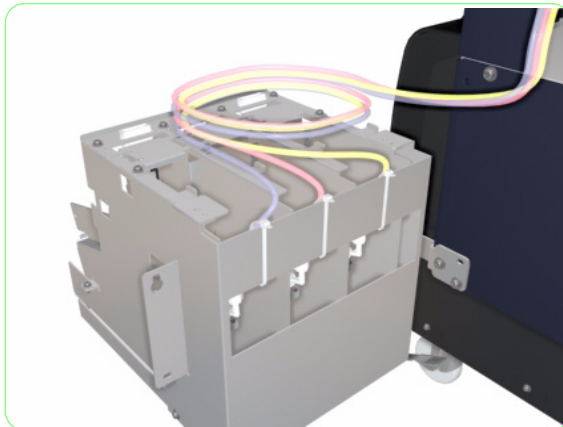


35. Remove the electric cable connectors on the subtank.

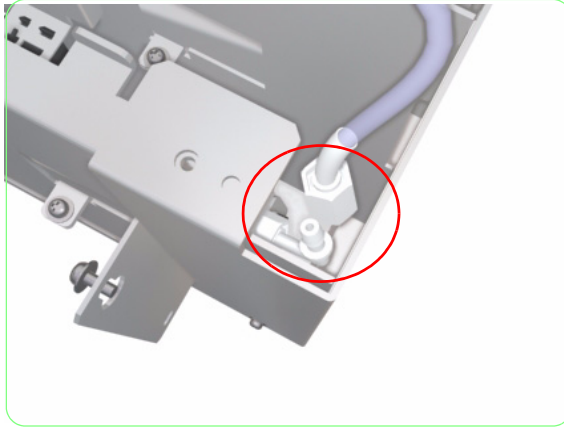


36. Loosen the top two screws and remove the bottom two screws that are used to secure the subtank to the printer.

NOTE: Do *not* remove the top two screws; only loosen them.



37. Remove the subtank and place it on the floor or on a bench.

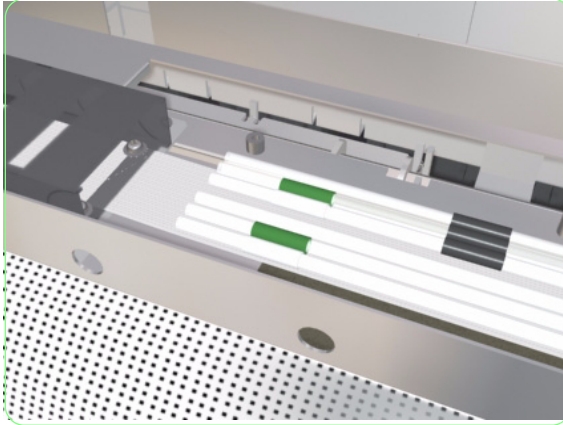


38. Loosen the plastic nuts, disconnect the feeding tubes, and dispose them according to local regulations.

39. Follow steps 26 - 38 for the other subtank and ink tubes.

Installation of Ink Supply and Subtank Tubes

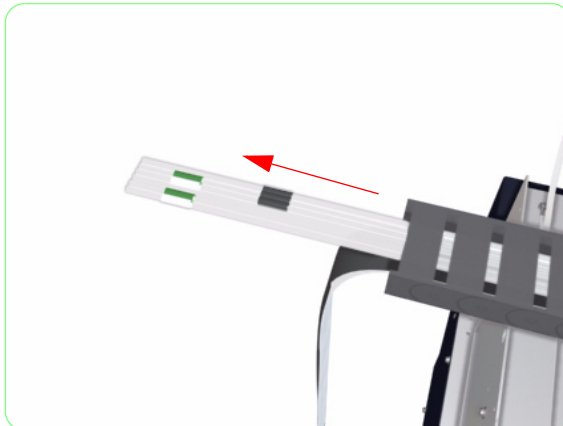
Before installing the ink-supply and subtank tubes, verify that the tubes are clean and free of debris. Also verify that the tubes are not crimped or otherwise deformed.



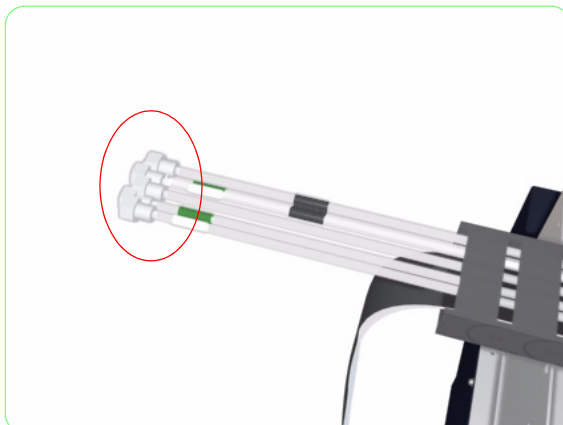
- 40.** Align the tubes as shown. The YMC tubes (the tubes wrapped with black tape) should be aligned on the Y-rail side of the printer. The BkLmLc tubes should be aligned on the feeder side of the printer. Align both sets of tubes in order of: transparent, green, and then white, from the Y-rail side of the printer.

NOTE: To facilitate smooth motion of the cable carrier, try to match the bending contours of the tubes with the contours of the cable carrier.

- 41.** Thread the *narrow ends* of the tubes through one end of the cable carrier.



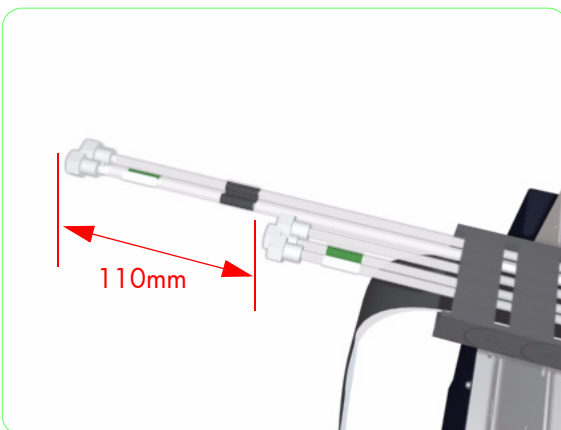
- 42.** Mount the plastic joints to the air dumper side of the feeding tubes by first mounting the collar, then the nut, and then the joint. The joint should be inserted to a depth equivalent of two rings plus 3mm.



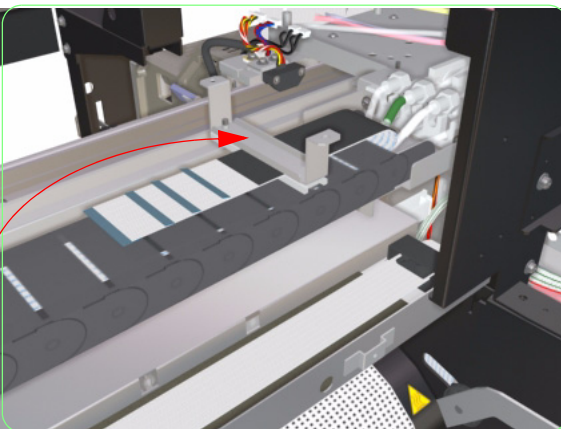


TIP: If necessary, use the cross-section of a pair of pliers to facilitate the mounting of the collars.

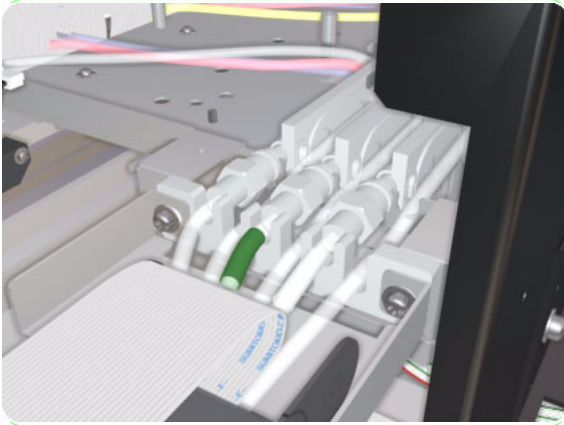
NOTE: Ensure that there is an O-ring on each of the joints.



43. Adjust the lengths of the tubes so that the YMC tubes extend about 110mm beyond the BkLmLc tubes.

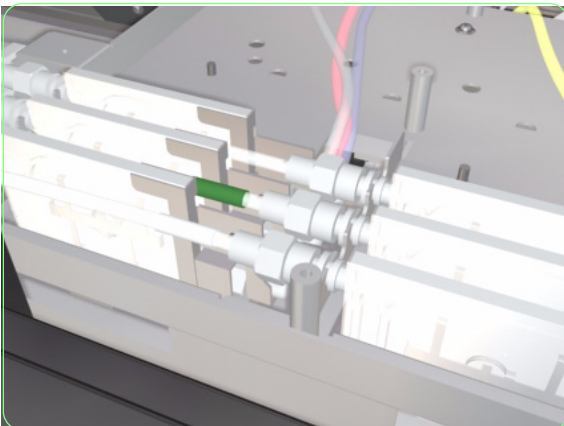


44. Bring the end of the cable carrier up to the carriage.



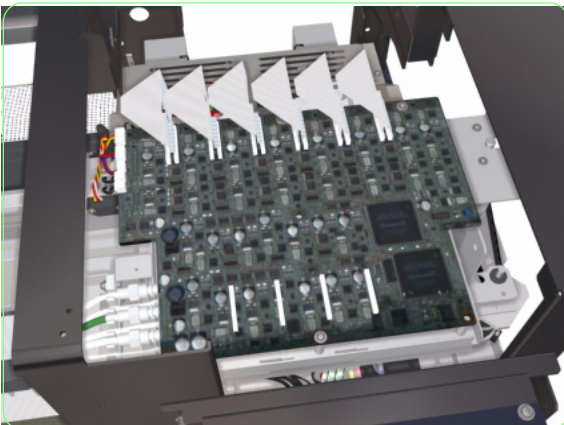
- 45.** Connect the BkLmLc feeding tubes to the air dumpers, and then secure the connected tubes to the carriage.

NOTE: Be sure not to twist or otherwise damage the O-rings when tightening the plastic nuts.

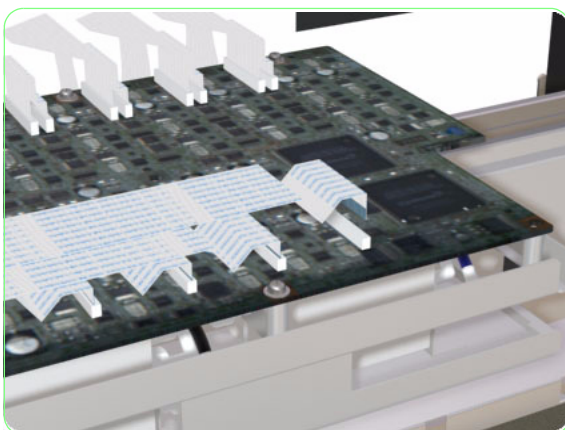


- 46.** Connect the YMC feeding tubes to the air dumpers, and then secure the connected tubes to the carriage.

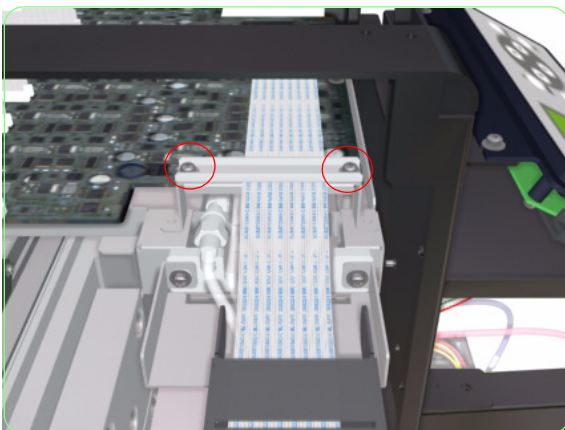
NOTE: Be sure not to twist or otherwise damage the O-rings when tightening the plastic nuts.



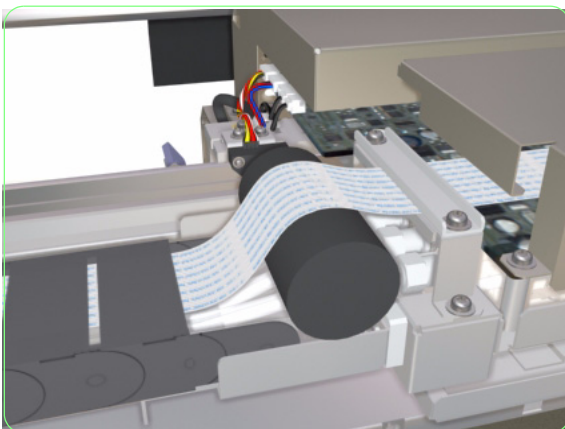
- 47.** Mount the carriage board.



48. Attach the trailing cable to the carriage.

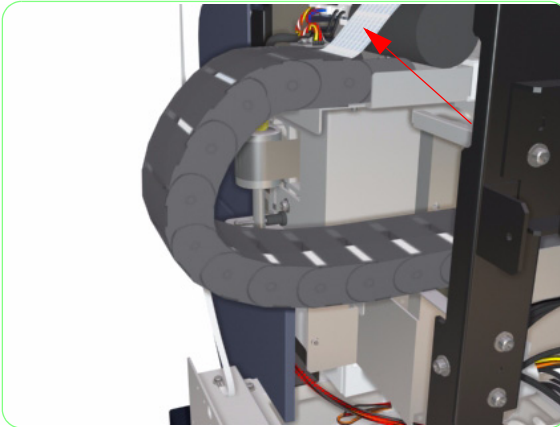


49. Use two screws to attach the FCC Holder.



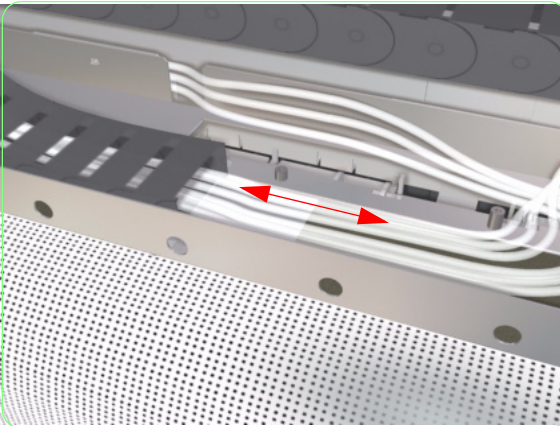
50. Adjust the tubes and the carriage cable. Insert a cylindrical object with a diameter of about 35mm (such as a camera film case) between the carriage cable and the ink tubes. It should be a snug fit.

TIP: If there is insufficient space to insert the cylindrical object, gently pull on the carriage cable while sliding the carriage between the capping side and wiping side of the printer.



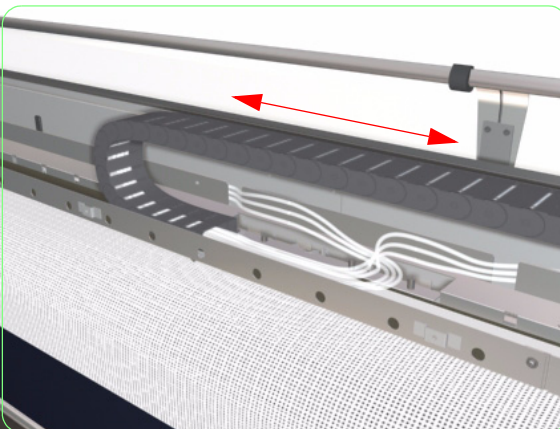
- 51.** Move the carriage to the wiper side of the printer and adjust the carriage-cable length within the cable carrier.

When the carriage-cable length is correctly adjusted, there will be a gap of approximately 1 mm between the cable and the outer limits of the cable carrier.



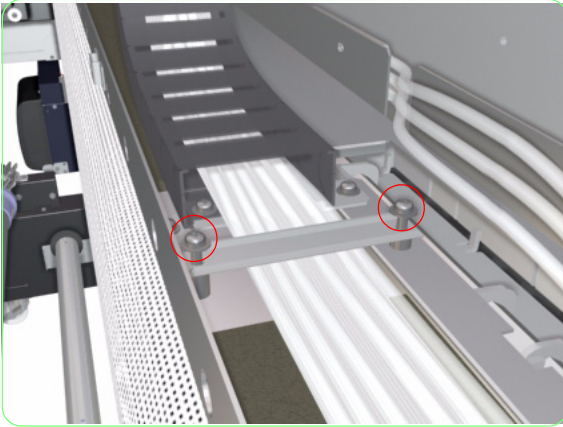
- 52.** With the carriage at the wiper side of the printer, adjust the ink-tube length within the cable carrier.

When the ink-tube length is correctly adjusted, there will be a slight gap between the ink tubes the inner limits of the cable carrier, and a slight gap between the ink tubes and the carriage cable.

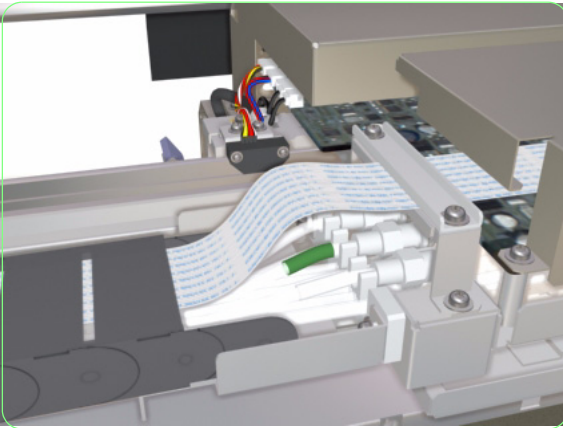


- 53.** Move the carriage back and forth between the capping and wiping side of the printer, and ensure that the cable carrier moves smoothly with the movement of the carriage.

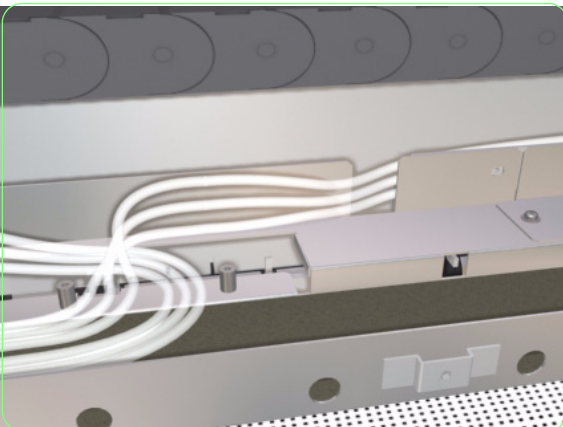
If the motion is not smooth, the ink tubes are probably touching the inside of the cable carrier. You may also hear unwanted noise if the carriage cable is too near to the inside of the cable carrier.



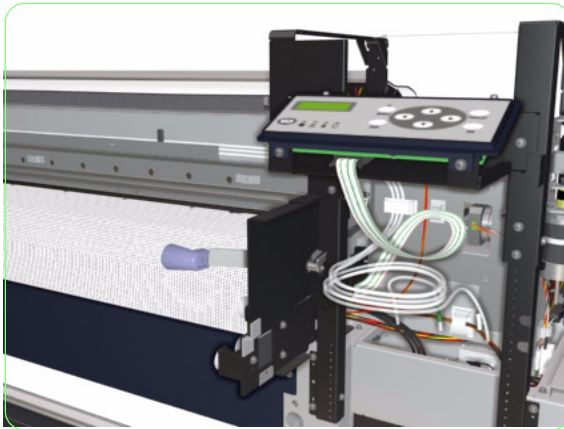
54. Use two screws to secure the cable holder plate.



55. Remove the cylindrical object.

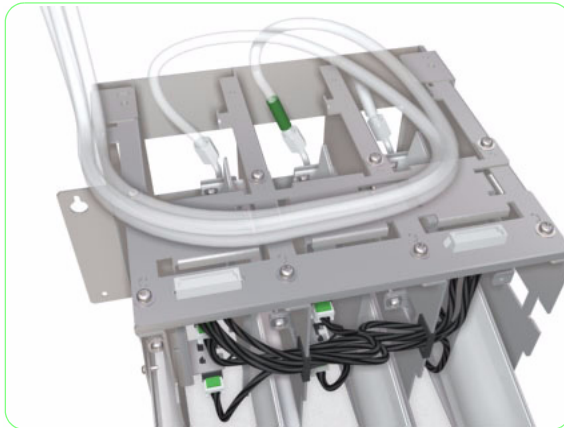


56. Align the feeding tubes from the cable carrier to the sub tanks along the Y-rail.

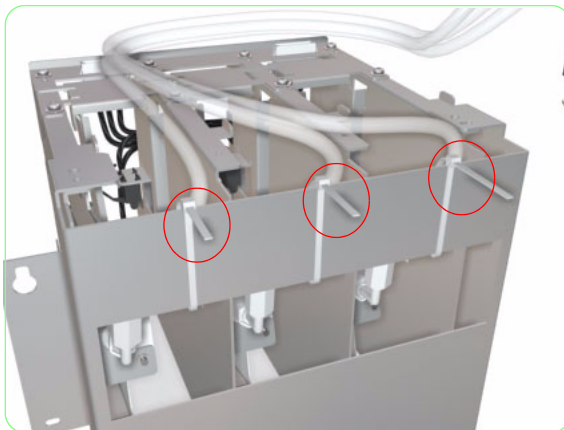


- 57.** Connect the BkLmLc tubes to the subtank. Before connecting the tubes to the subtank, make a triple-looped circle of the tubes with the ends that are to be attached to the subtank pointing down.

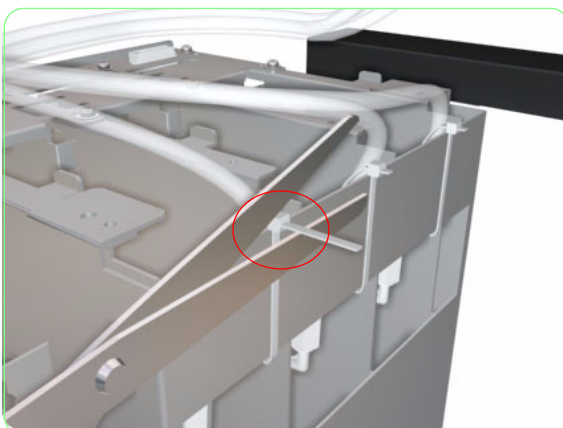
NOTE: Handle the tubes with care to ensure that you do not inadvertently crimp them.



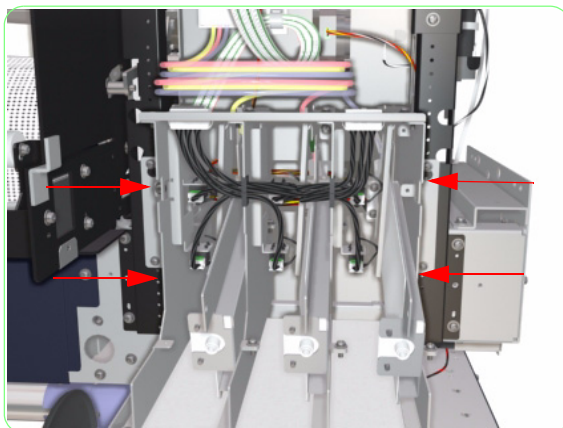
- 58.** Connect the tubes to the subtank such that the tube with no tape is connected to the "Bk" port of the subtank, the tube with the green tape is connect to the "Lm" port, and the tube with the white tape is connected to the "Lc" port.



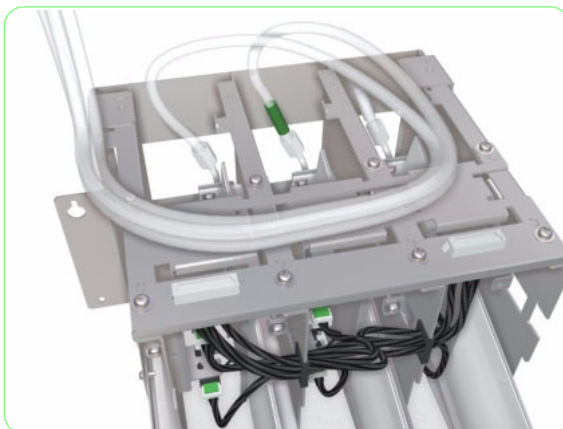
- 59.** Secure the three tubes to the subtank with Insulock ties.



60. Snip away the extra length of the Insulock ties.

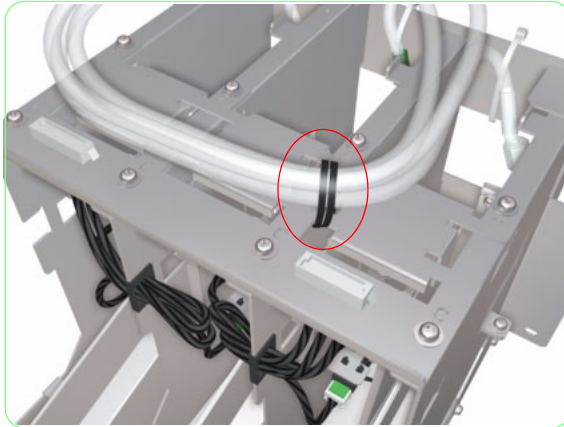


61. Mount the subtank to the printer body by hanging the subtank on the top two screws. Then insert the bottom two screws and tighten all four screws.

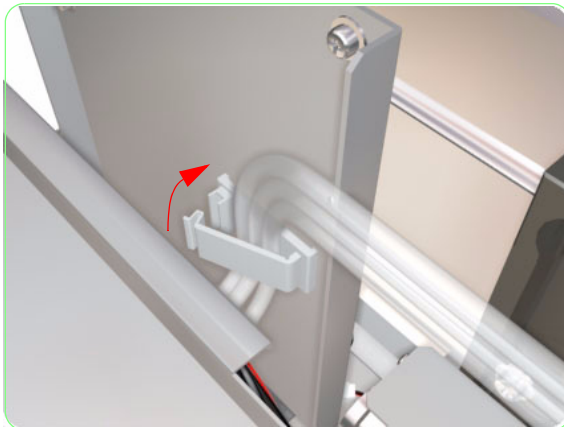
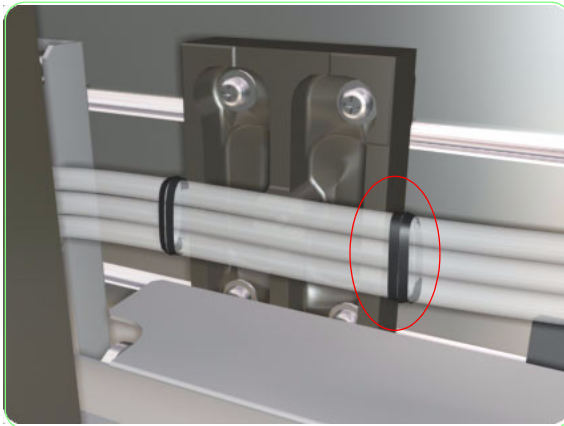


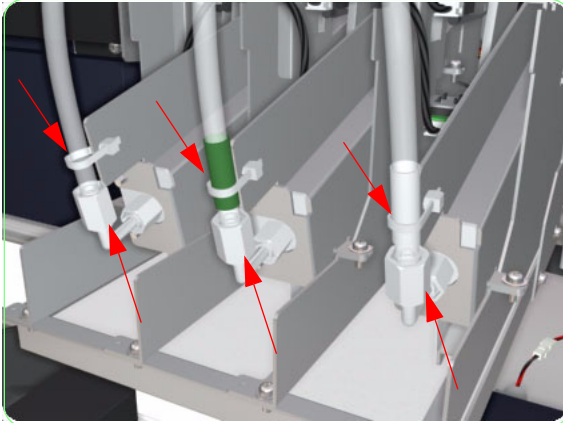
62. Follow steps 56 - 61 to connect the YMC tubes to the subtank and mount the subtank to the printer body.

Connect the tubes to the subtank such that the tube with no tape is connected to the "Y" port of the subtank, the tube with the green tape is connect to the "M" port, and the tube with the white tape is connected to the "C" port.

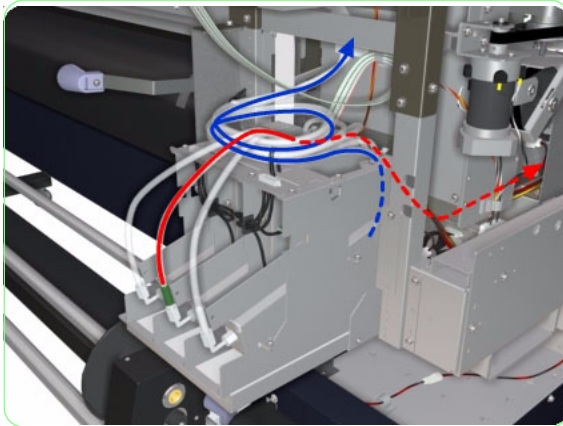


63. Secure the feeding tubes to the printer with the twist-ties and the plastic clip.

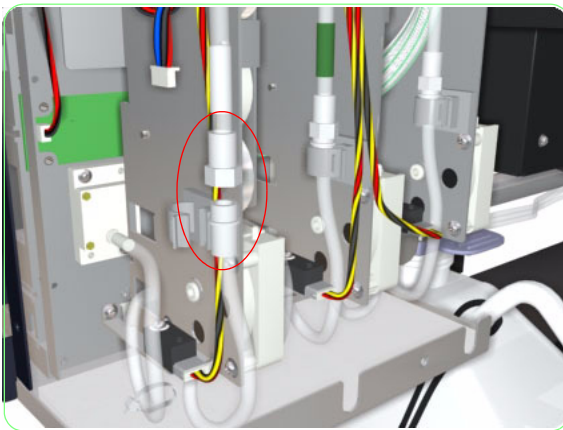




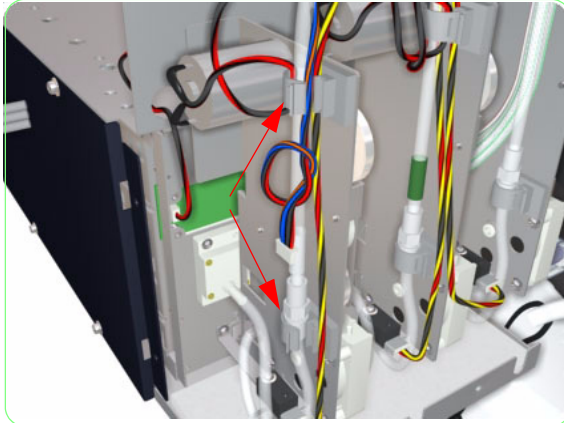
64. Connect the subtank tubes to the front of the capping-side subtank, and then attach three Insulock ties to ensure that the tubes remain in an upright positions. Snip away the extra length of the Insulock ties.



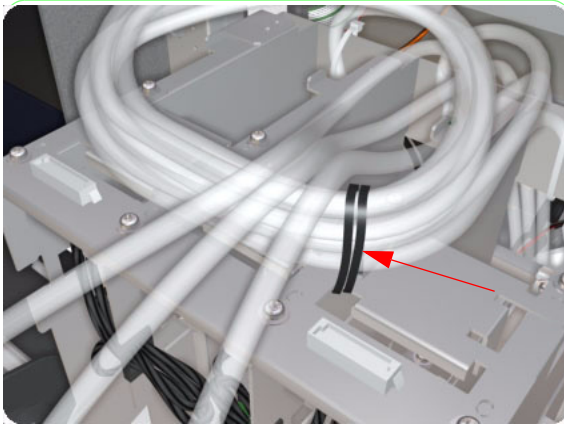
65. Feed the disconnected end of the subtank tube to the supply-pump side of the printer, and connect it to the supply pump.



66. Connect the subtank tube to the supply pump.

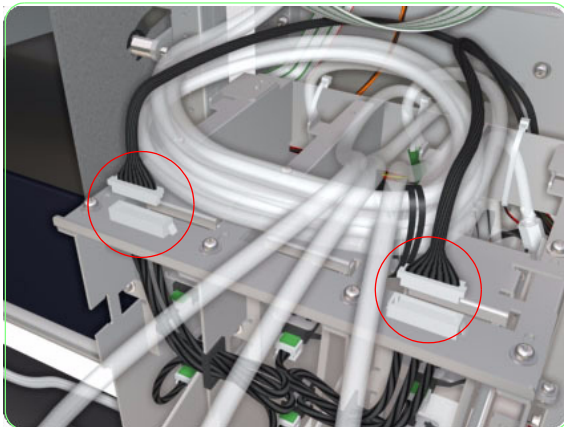


67. Clip the tube into the plastic securing clamp.

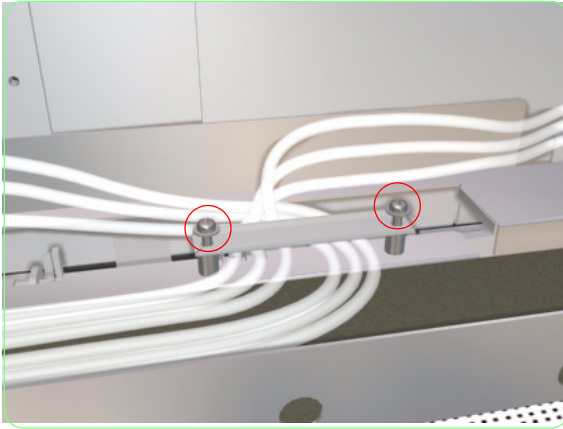


68. Secure the tubes to the subtank with the twist-tie.

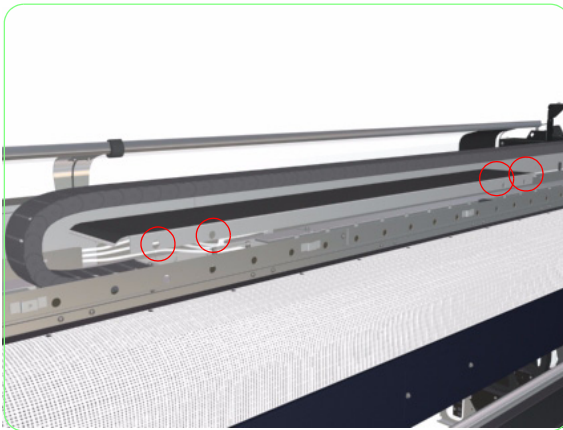
NOTE: It is important that the twist-tie is positioned on the subtank as shown in the image to avoid interference with the sensor board.



69. Connect the cables to the subtank.



70. Use two screws to secure the cable holder plate.



71. Use the four screws to attach the Angle.

72. Attach the covers in reverse order of removal.

73. Fill the ink system.

IC Door Sensor (Left or Right)

Removal

Switch off the product and remove the power cable.



1. Open the Ink Cartridge Door.

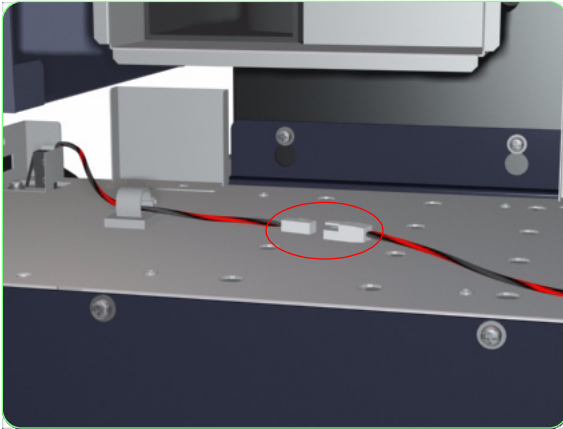


2. Remove two screws that secure the metal cover to the Ink Supply Station.

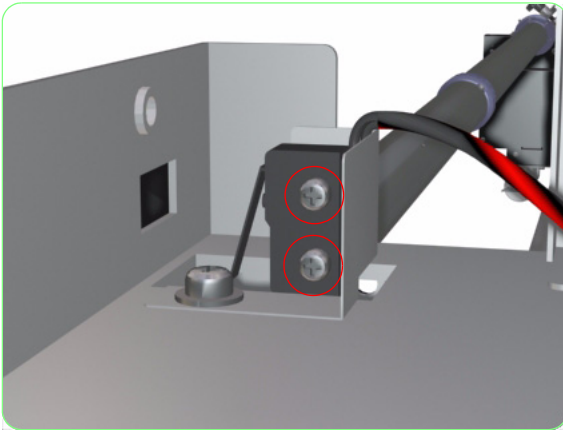


3. Remove the metal cover from the Ink Supply Station.

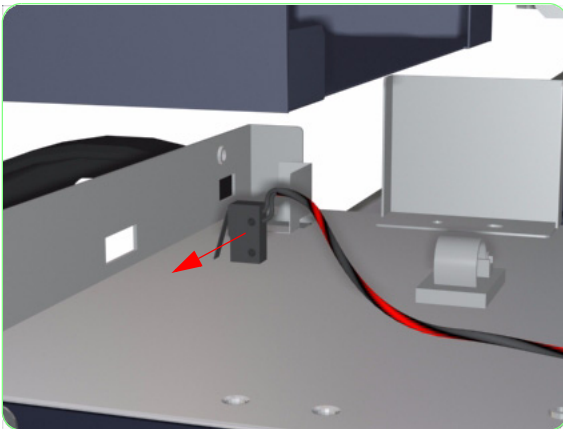
4. Remove the Lower Side Cover (Left or Right)
⇒ Page 8-8.



5. Disconnect the IC Door Sensor cable.



6. Remove two screws that secure the IC Door Sensor to the Ink Supply Station.



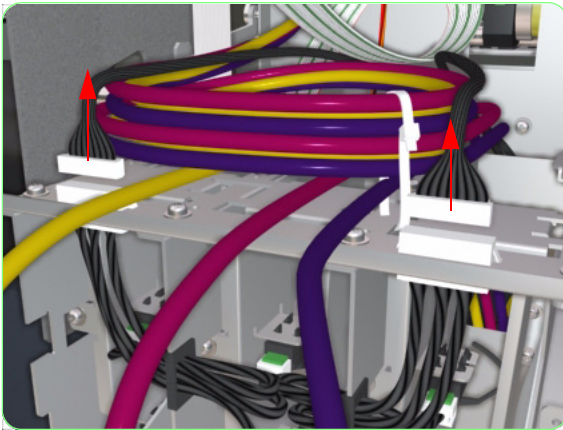
7. Remove the IC Door Sensor from the Ink Supply Station.

Subtank Sensors

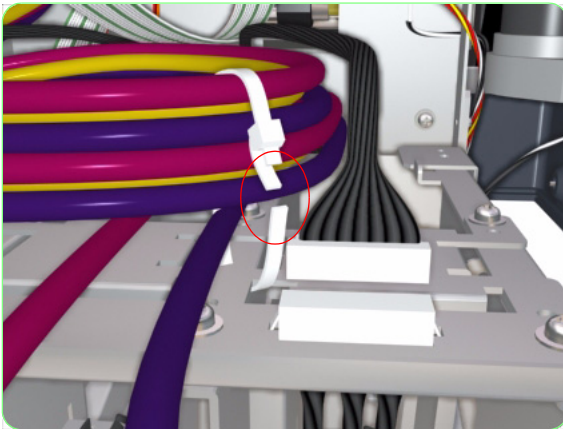
Removal

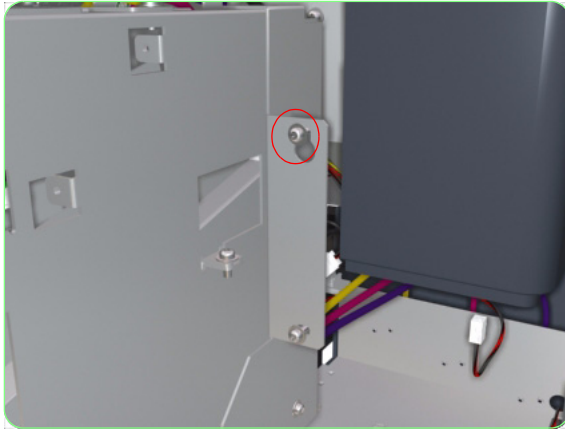
Switch off the product and remove the power cable.

1. Remove the Upper Side Cover (Left or Right) ⇒ Page 8-4.
2. Remove the Lower Side Cover (Left or Right) ⇒ Page 8-8.
3. Remove the Subtank Side Cover (Left or Right) ⇒ Page 8-9.
4. Disconnect the Subtank Station cables.



5. Cut the cable tie that secures the Ink Tubes.

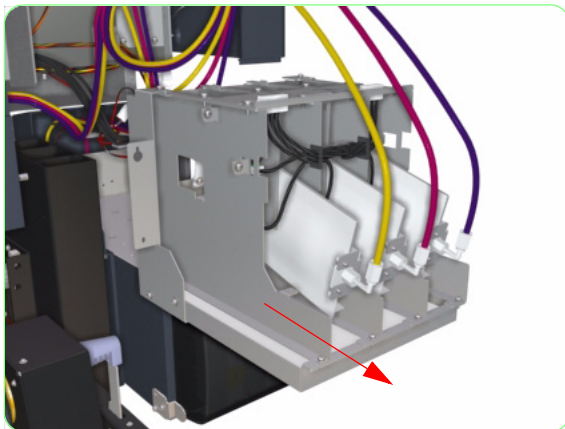




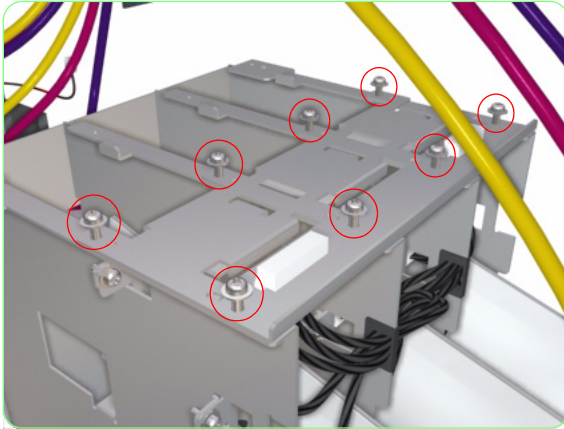
- 6.** Loosen one screw from each side of the Subtank Station.



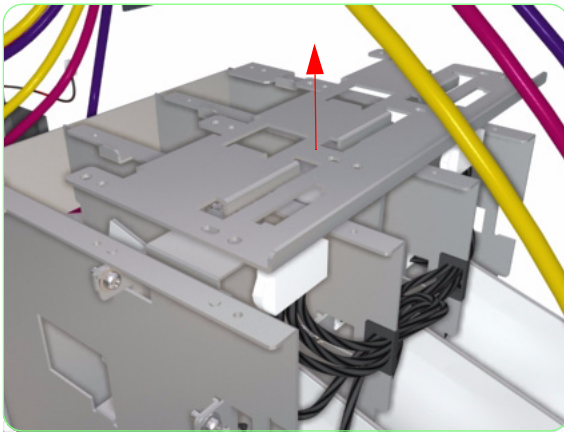
- 7.** Remove one screw from each side of the Subtank Station.



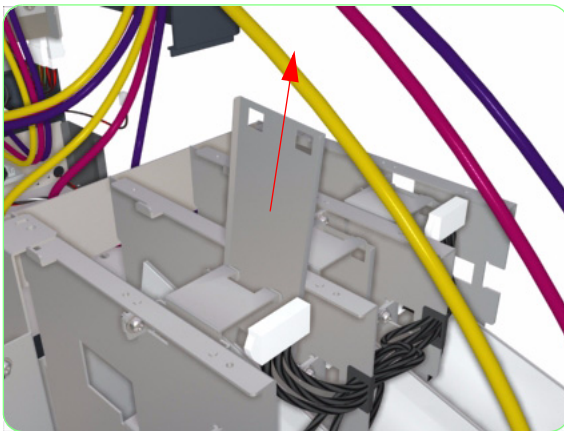
- 8.** Carefully pull out the Subtank Station slightly.



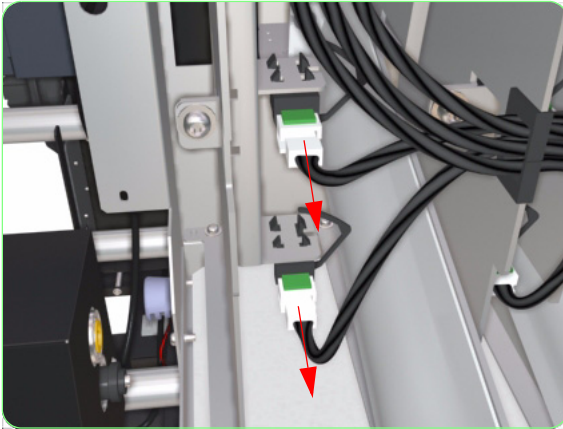
- 9.** Remove eight screws that secure the metal plate to the Subtank Station.



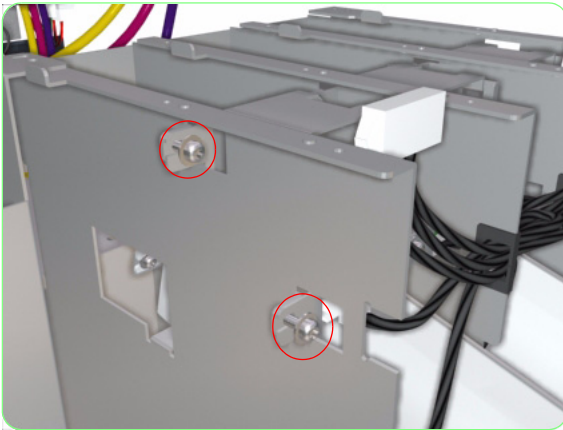
- 10.** Remove the metal plate from the Subtank Station.



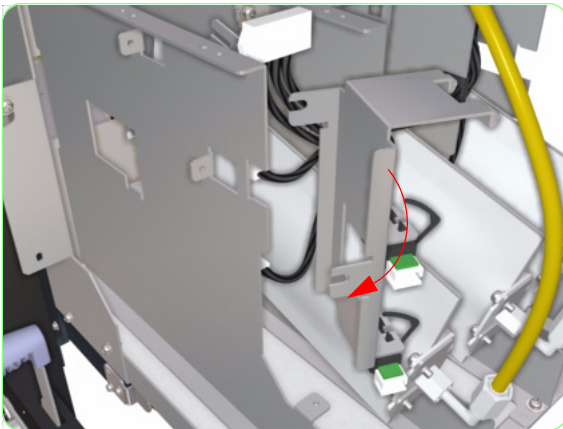
- 11.** Remove the Sensor Plate from the Subtank Station.



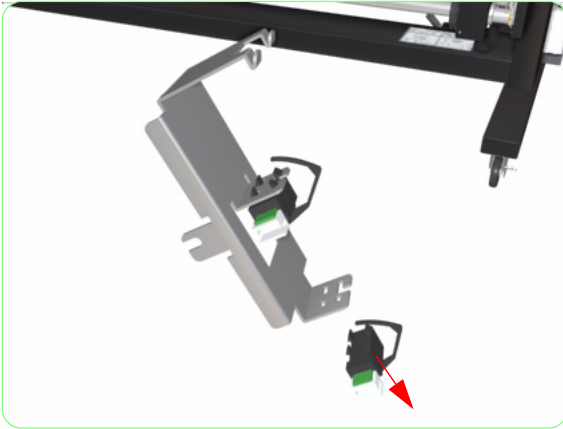
12. Disconnect the Subtank Sensor cables.



13. Remove two screws that secure the Subtank Sensors Assembly to the Subtank Station.



14. Remove the Subtank Sensors Assembly from the Subtank Station.



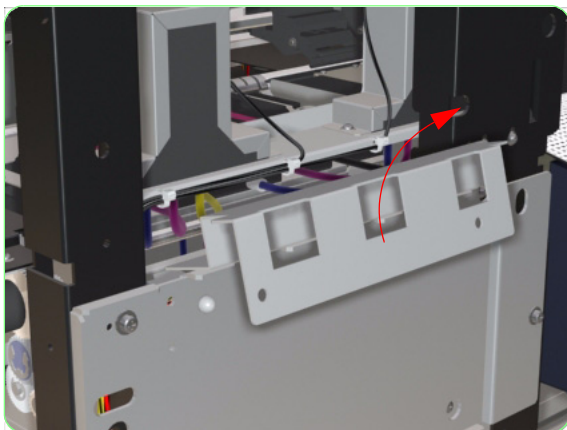
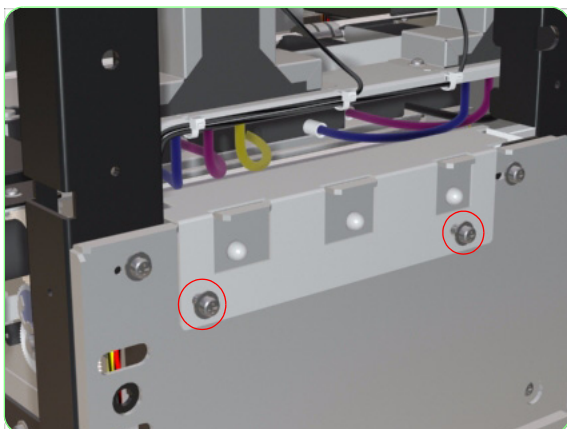
- 15.** Unclip the Sensors from the Subtank Sensors Assembly.

Capping Station Assembly

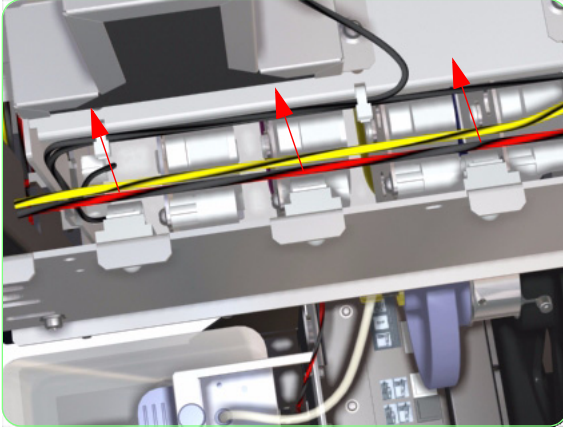
Removal

Switch off the product and remove the power cable.

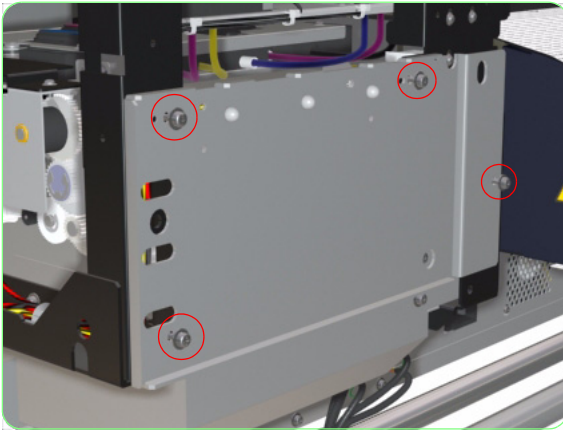
1. Uncap the Carriage and move it to the Wiping Station.
2. Remove the Upper Side Cover (Right) ⇒ Page 8-4.
3. Remove the Upper Side Cover (Right) ⇒ Page 8-4.
4. Remove the Top Side Cover (Right) ⇒ Page 8-5.
5. Remove the Lower Side Cover (Right) ⇒ Page 8-8.
6. Remove the Lower Capping Cover ⇒ Page 8-11.
7. Remove the Capping Door ⇒ Page 8-13.
8. Remove two screws that secure the metal bracket to the chassis (on the Capping Side).



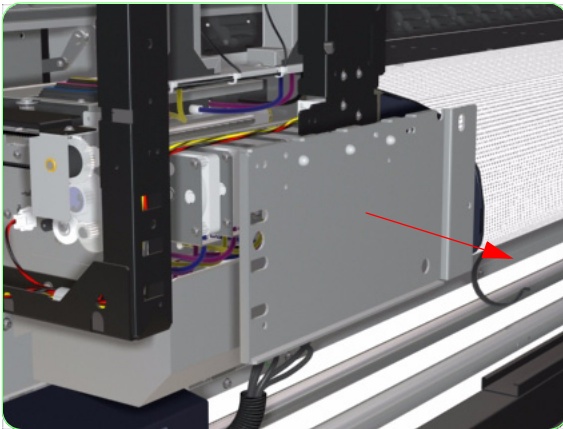
9. Remove the metal bracket from the Printer.



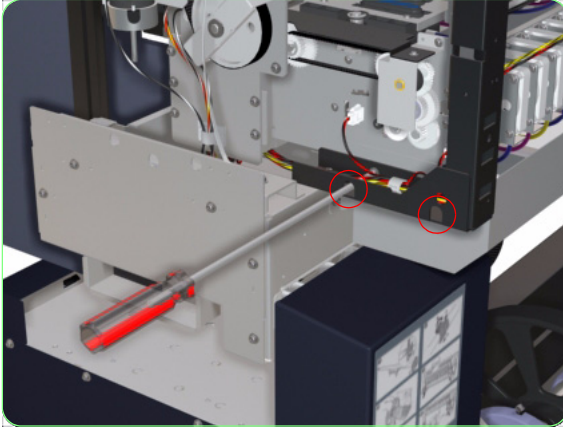
10. Release ALL the cables from the cable clips.



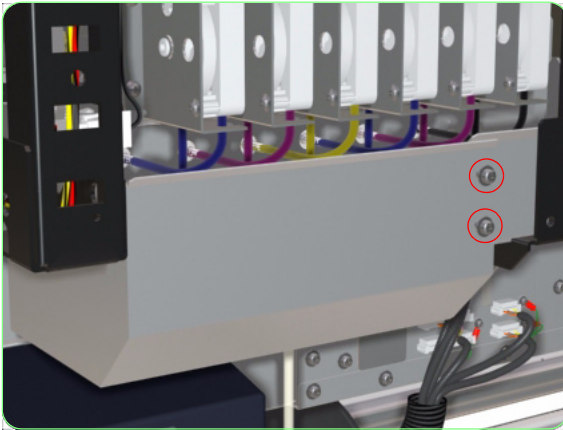
11. Remove four screws that secure the metal plate to the chassis.



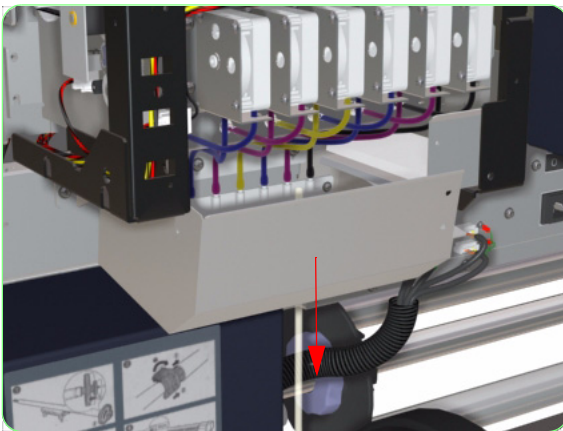
12. Remove the metal plate from the chassis.



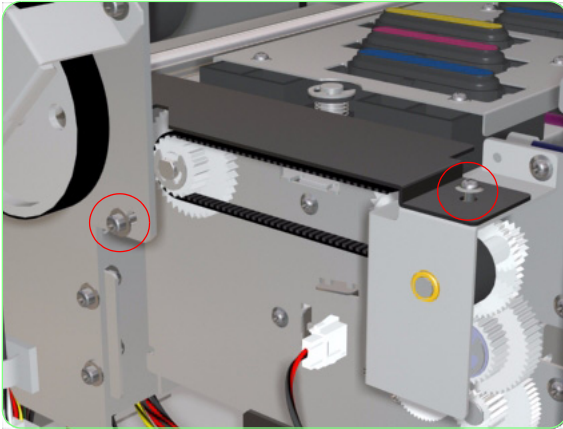
- 13.** Remove two screws that secure the metal cover to the side of the Printer.



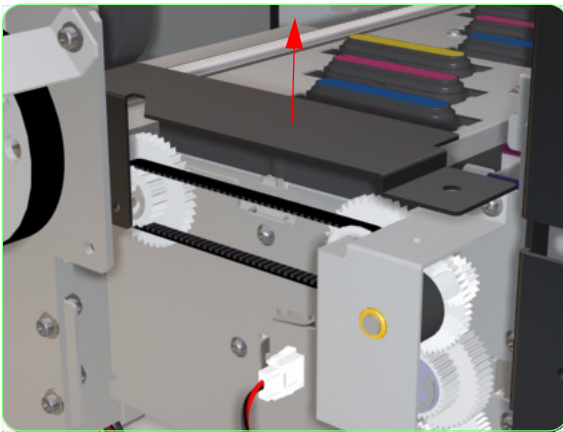
- 14.** Remove two screws that secure the metal cover to the front of the Printer.



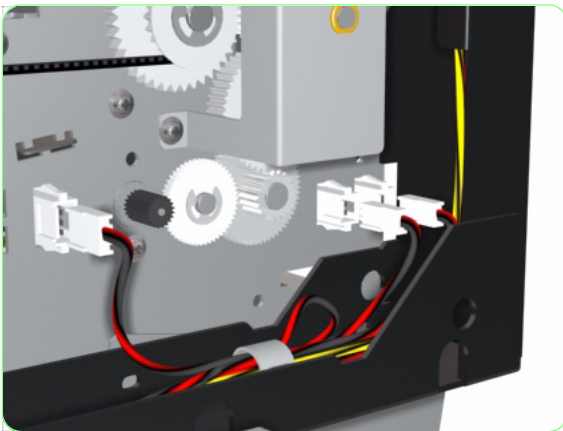
- 15.** Pull the metal cover down slightly so that the Priming Tubes are exposed.



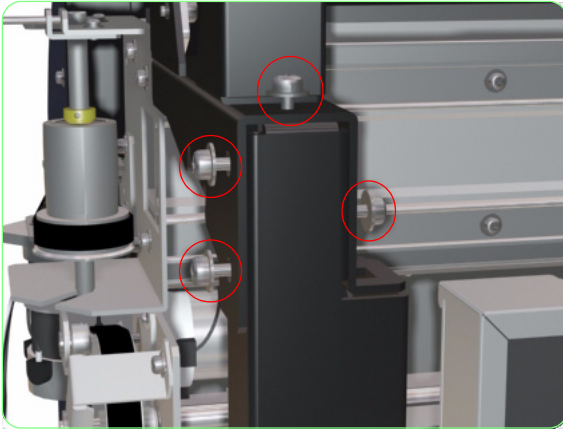
16. Remove two screws that secure the metal bracket to the Capping Station.



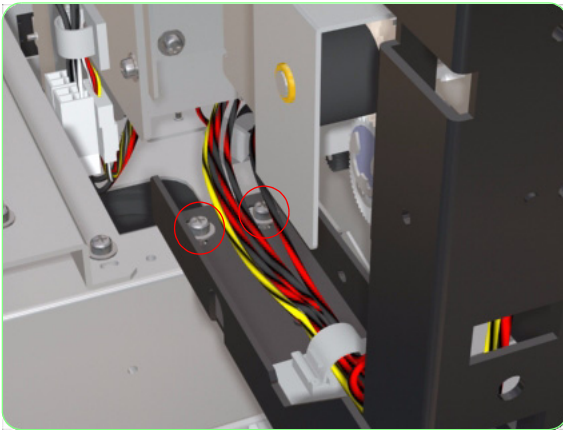
17. Remove the metal bracket from the Capping Station.



18. Disconnect the Capping Station cables.



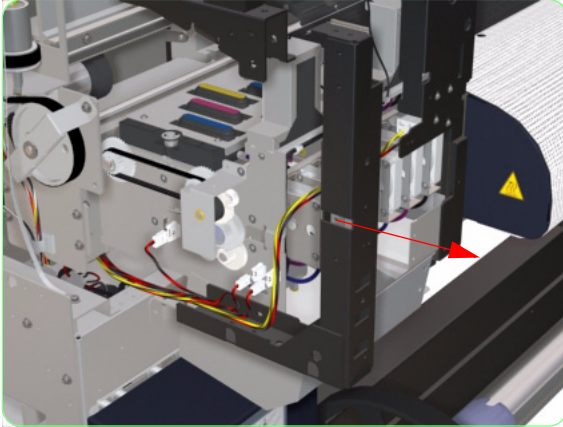
19. Remove four screws that secure the Left Capping Frame at the top.



20. Remove two screws that secure the Left Capping Frame to the bottom.



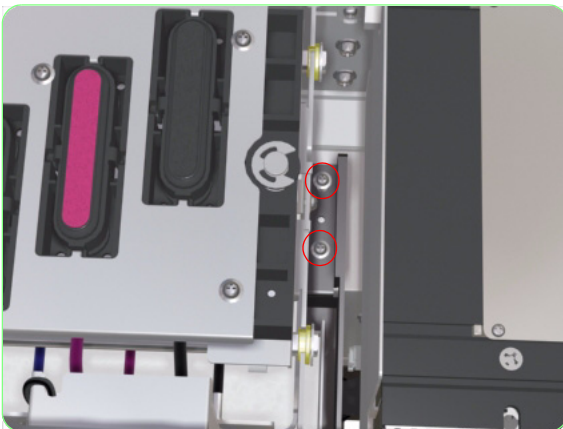
21. Remove one screw that secures the metal bracket.



22. Remove the Left Capping Frame from the Printer.



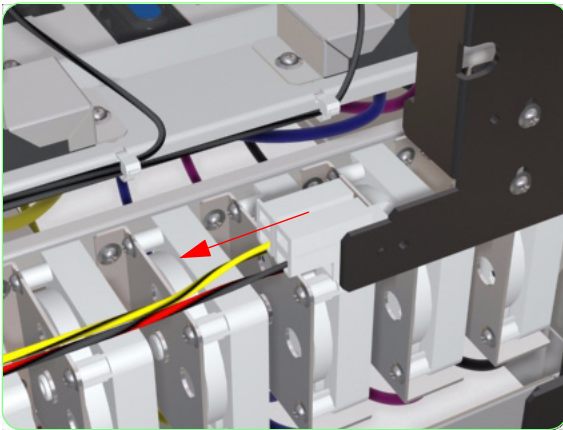
23. Remove four screws that secure the Right Capping Frame at the top.



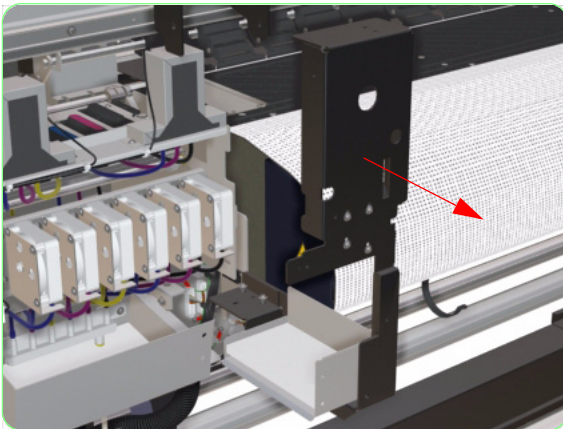
24. Remove two screws that secure the Right Capping Frame to the bottom.



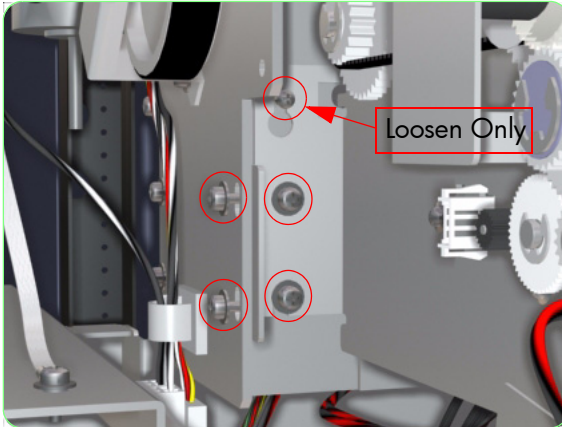
25. Remove one screw that secures the metal bracket.



26. Disconnect the Cable from the Right Rear Cover Sensor.



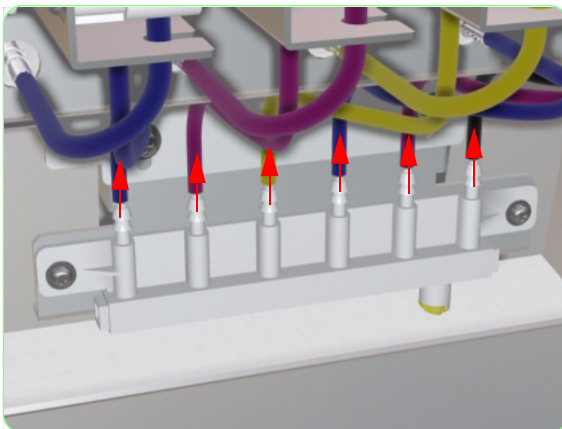
27. Remove the Right Capping Frame from the Printer.



28. Loosen one screw (from the top) and four screws that secure the Capping Station.

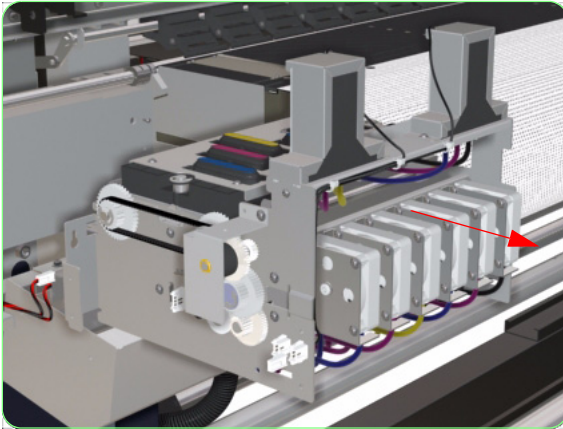


29. Loosen one screw (from the top) and two screws that secure the Capping Station.



30. Disconnect ALL six tubes from the Capping Tubes Bracket.

Make sure you have a suitable cloth to place under the tubes so that the ink does not drip all over the Printer parts.



31. Remove the Capping Station from the Printer.

You should remove the Solenoid Covers from the old Capping Station and install them on the new Capping Station (the new part comes without the Solenoid Covers).

Once the Capping Station Assembly has been installed correctly, you must perform the following adjustments:

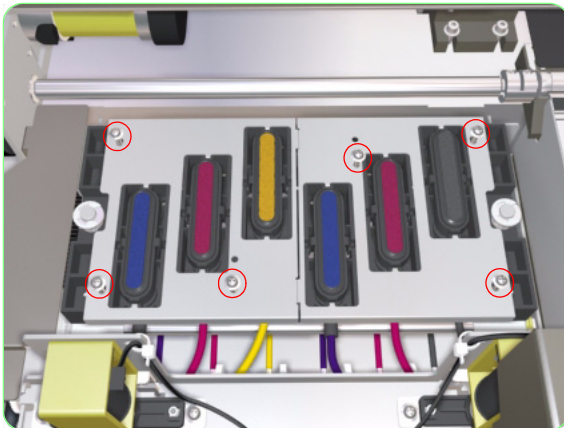
- **Capping Station Height Adjustment** ⇒ **Page 5-25.**
- **Printhead Capping Limit Adjustment** ⇒ **Page 5-27.**

Capping Unit

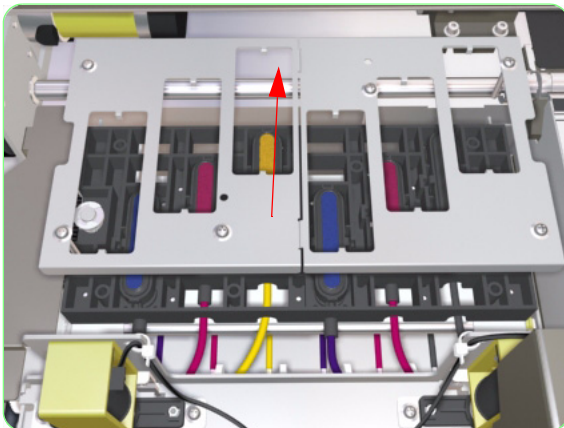
Removal

Switch off the product and remove the power cable.

1. Uncap the Carriage and move it to the Wiping Station.
2. Remove the Capping Door ⇒ Page 8-13.
3. Remove six screws that secure the Capping Plates to the Capping Station.

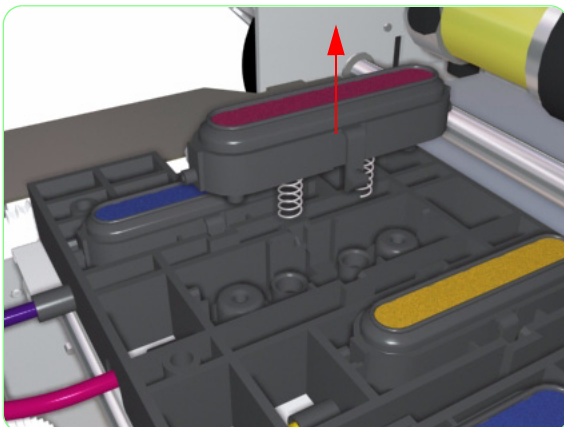


4. Remove the Capping Plates from the Capping Station.



5. Release the Capping Unit and remove from the Capping Station.

Once you have replaced the Capping Unit, make sure you reset the Capping Unit counter (for more information, refer to Page 4-92).

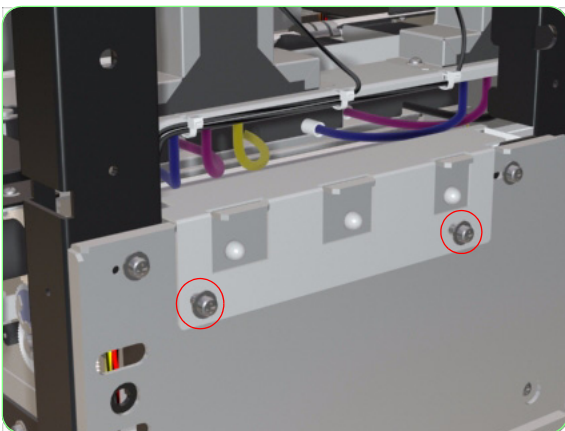


Prime Assembly

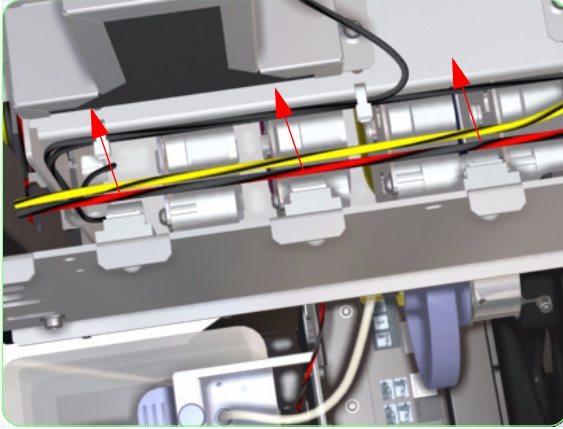
Removal

Switch off the product and remove the power cable.

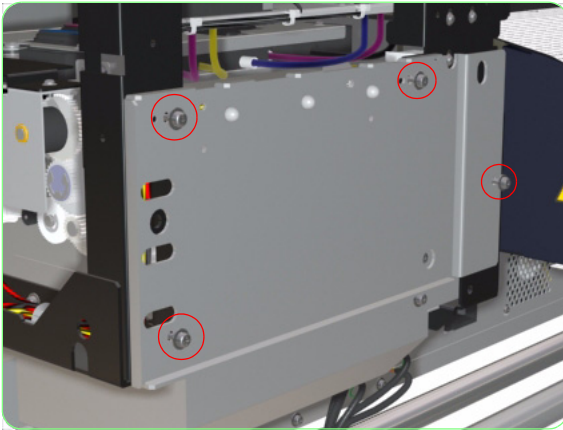
1. Remove the Upper Side Cover (Right) ⇒ Page 8-4.
2. Remove the Top Side Cover (Right) ⇒ Page 8-5.
3. Remove the Lower Side Cover (Right) ⇒ Page 8-8.
4. Remove the Lower Capping Cover ⇒ Page 8-11.
5. Remove the Capping Door ⇒ Page 8-13.
6. Remove two screws that secure the metal bracket to the chassis (on the Capping Side).



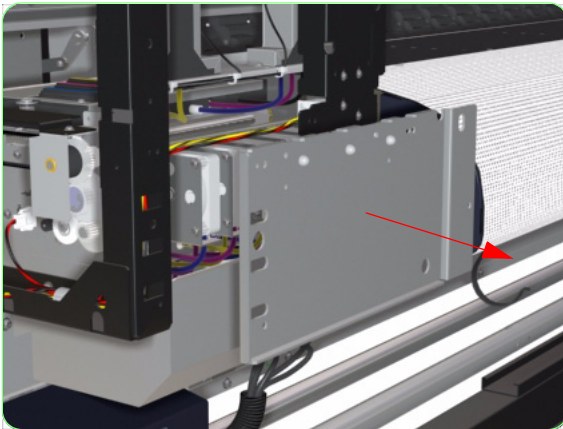
7. Remove the metal bracket from the Printer.



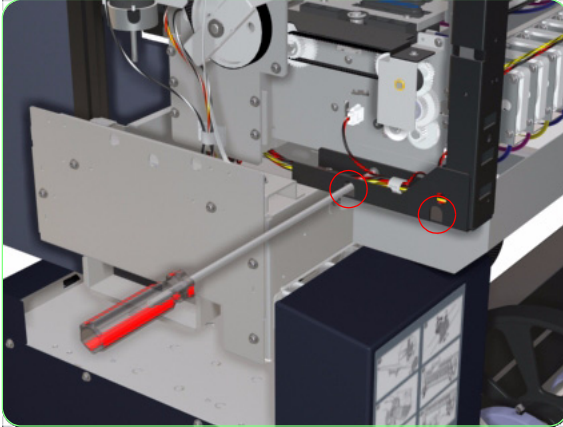
- 8.** Release ALL the cables from the cable clips.



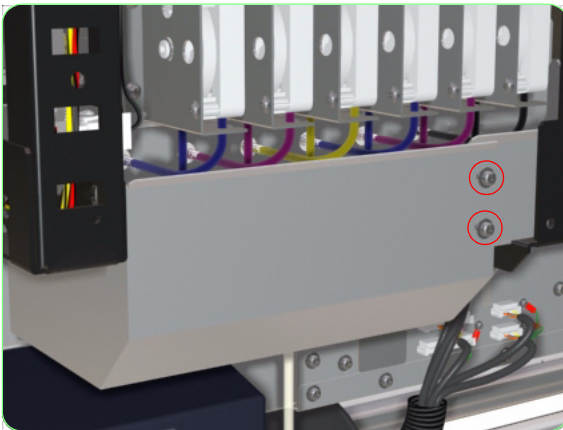
- 9.** Remove four screws that secure the metal plate to the chassis.



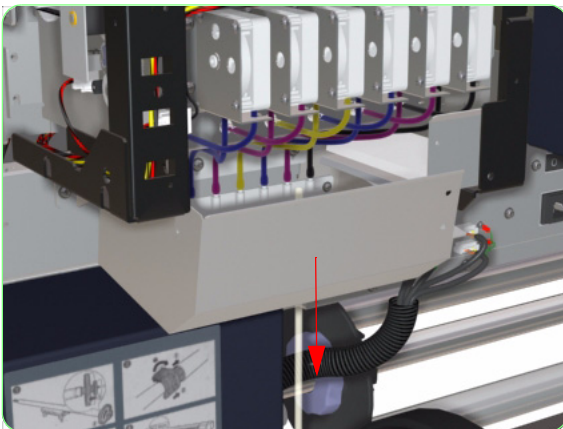
- 10.** Remove the metal plate from the chassis.



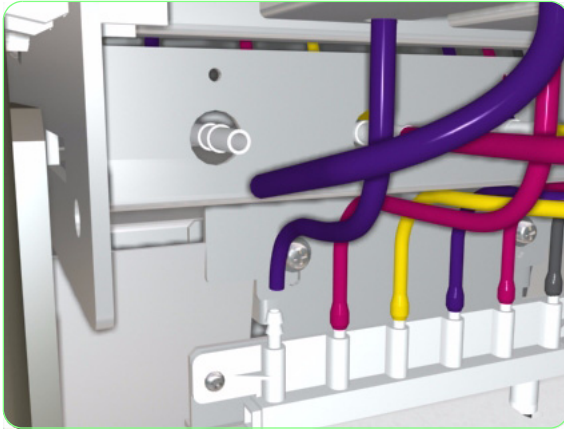
- 11.** Remove two screws that secure the metal cover to the side of the Printer.



- 12.** Remove two screws that secure the metal cover to the front of the Printer.

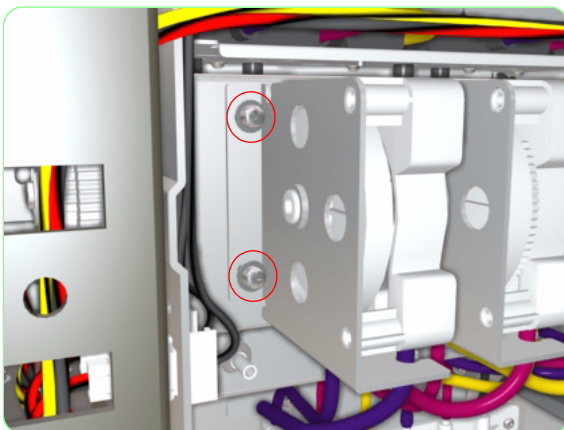


- 13.** Pull the metal cover down slightly so that the Priming Tubes are exposed.

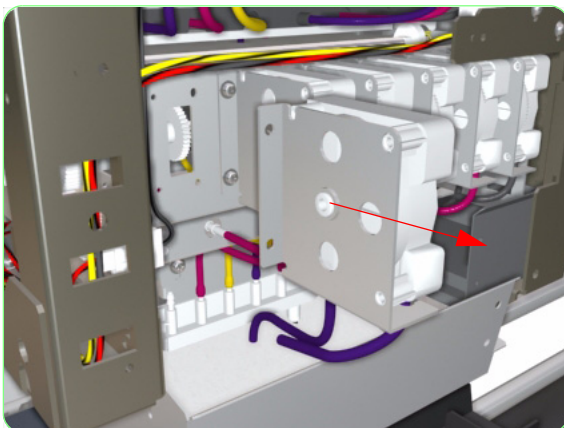


- 14.** Disconnect the Priming Tube from both ends.

Be very careful when disconnecting the Priming Tubes since waste ink may leak from them. Place a cloth underneath the tubes before disconnecting them and cover the end of the tubes with a clean cloth.



- 15.** Remove two screws that secure the Prime Assembly to the Capping Station.



- 16.** Remove the Prime Assembly from the Capping Station.

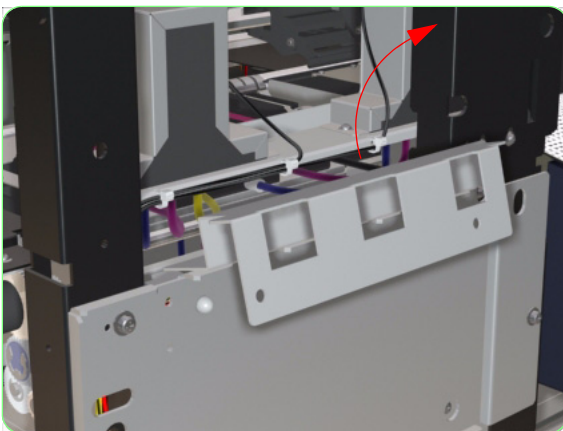
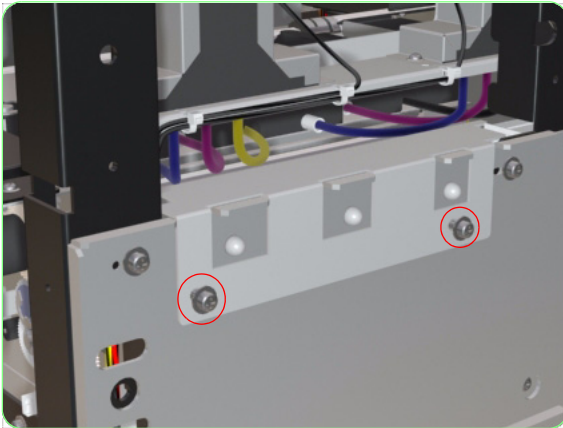
Once you have replaced the Prime Assembly, make sure you reset the Prime Assembly counter (for more information, refer to Page 4-90).

Solenoid Assembly

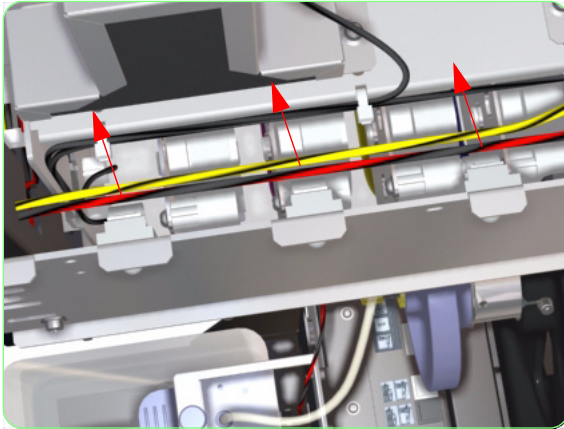
Removal

Switch off the product and remove the power cable.

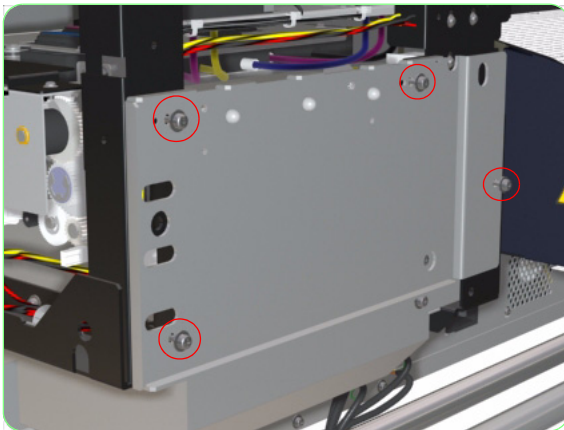
1. Uncap the Carriage and move it to the Wiping Station.
2. Remove the Upper Side Cover (Right) ⇒ Page 8-4.
3. Remove the Top Side Cover (Right) ⇒ Page 8-5.
4. Remove the Lower Side Cover (Right) ⇒ Page 8-8.
5. Remove the Lower Capping Cover ⇒ Page 8-11.
6. Remove the Capping Door ⇒ Page 8-13.
7. Remove two screws that secure the metal bracket to the chassis (on the Capping Side).



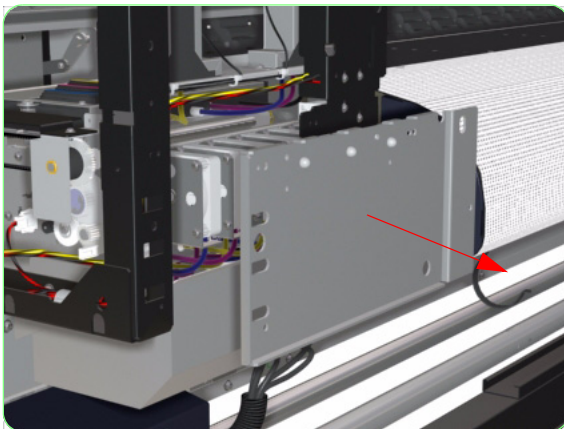
8. Remove the metal bracket from the Printer.



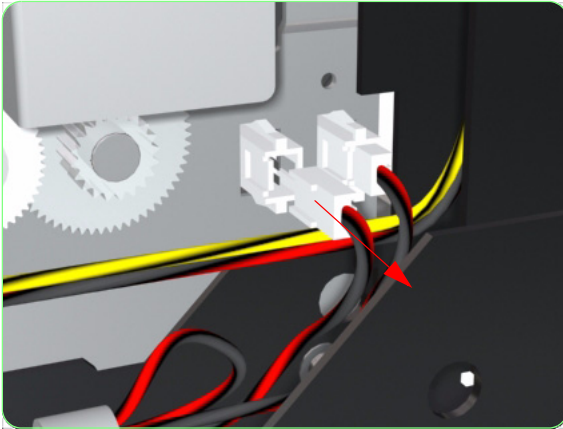
- 9.** Release ALL the cables from the cable clips.



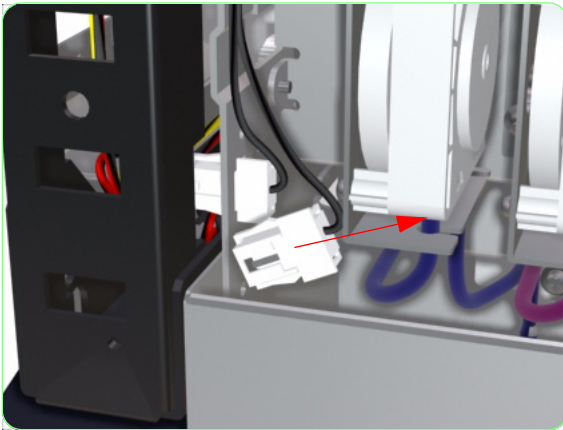
- 10.** Remove four screws that secure the metal plate to the chassis.



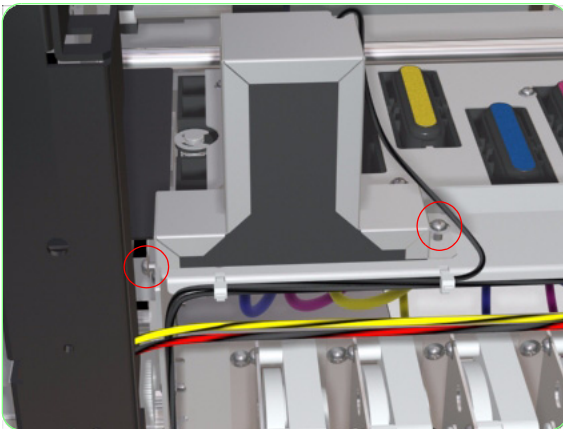
- 11.** Remove the metal plate from the chassis.



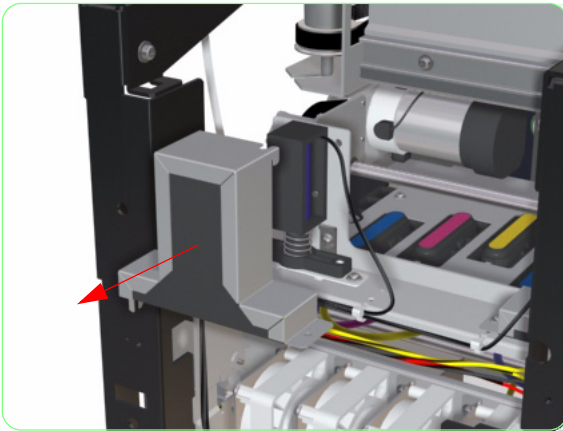
12. Disconnect the Solenoid Assembly cable.



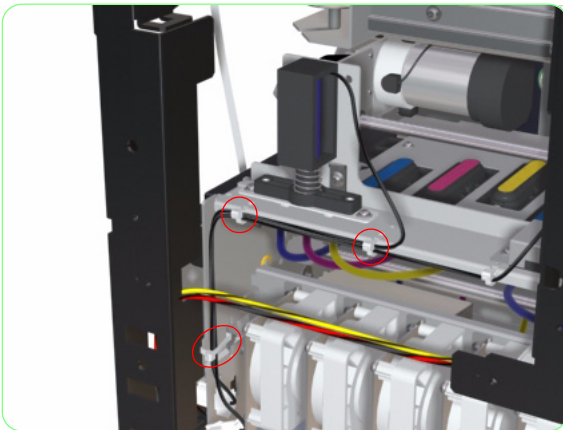
13. Release the Solenoid Assembly cable connector from the chassis.



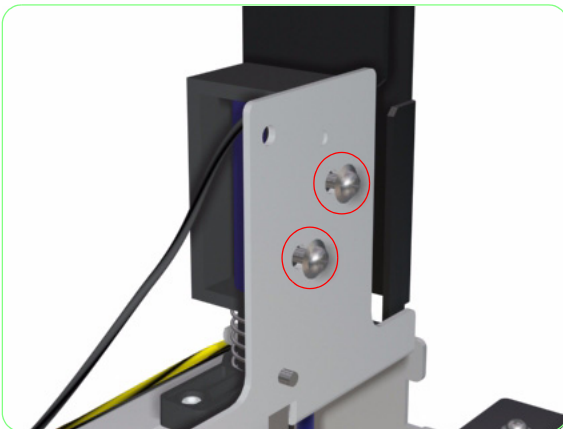
14. Remove two screws that secure the Solenoid Cover to the Capping Station.



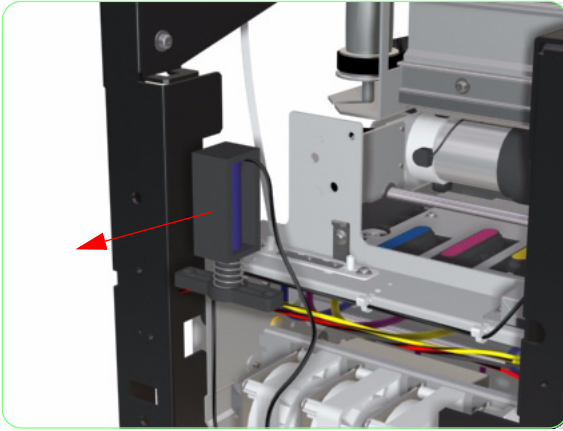
15. Remove the Solenoid Cover from the Capping Station.



16. Cut ALL cable ties that secure the Solenoid Assembly cable.



17. Remove two screws that secure the Solenoid Assembly to the Capping Station.



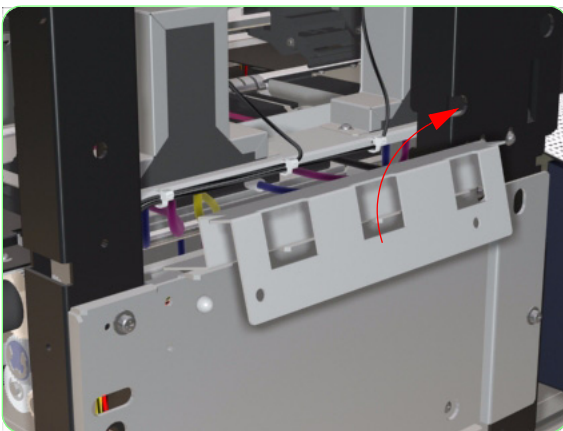
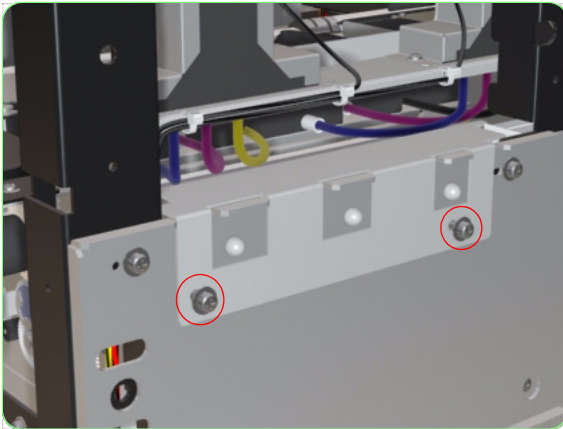
18. Remove the Solenoid Assembly from the Capping Station.

Waste Bottle Holder and Sensor Assembly

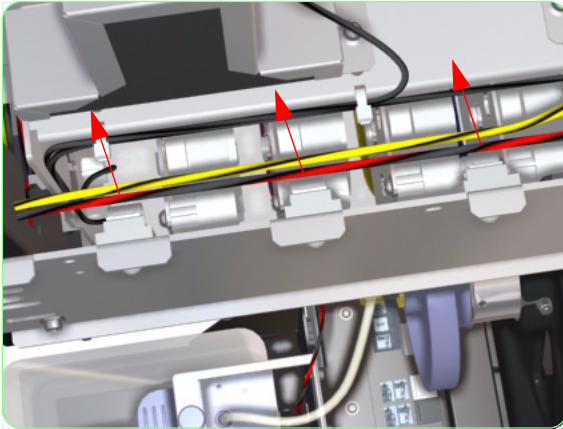
Removal

Switch off the product and remove the power cable.

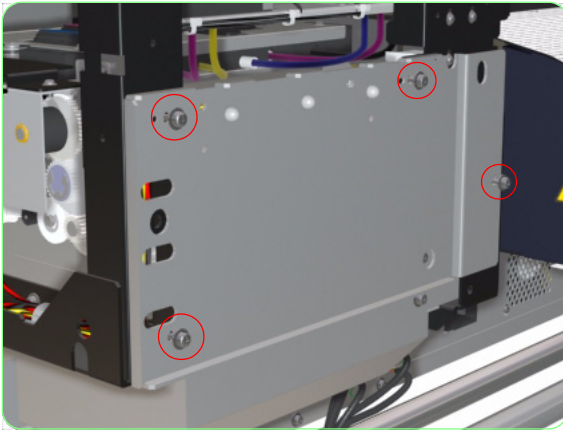
1. Remove the Upper Side Cover (Right) ⇒ Page 8-4.
2. Remove the Top Side Cover (Right) ⇒ Page 8-5.
3. Remove the Lower Side Cover (Right) ⇒ Page 8-8.
4. Remove the Lower Capping Cover ⇒ Page 8-11.
5. Remove the Capping Door ⇒ Page 8-13.
6. Remove two screws that secure the metal bracket to the chassis (on the Capping Side).



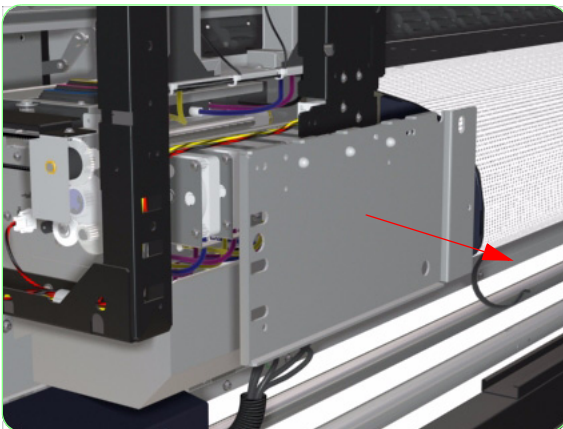
7. Remove the metal bracket from the Printer.



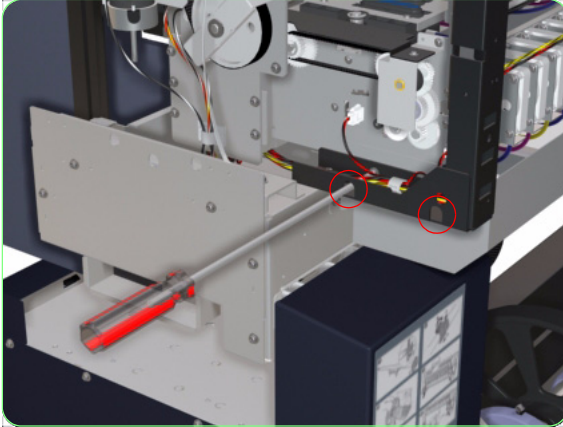
8. Release ALL the cables from the cable clips.



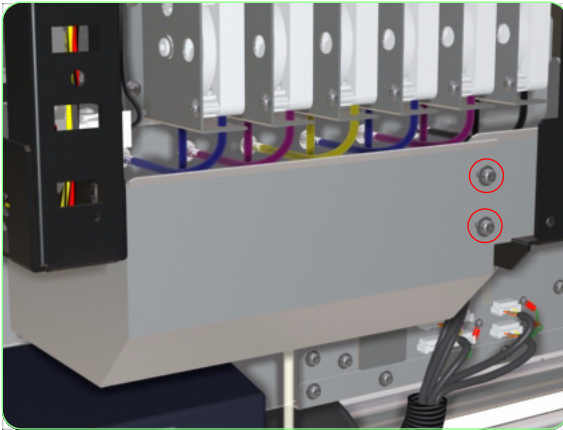
9. Remove four screws that secure the metal plate to the chassis.



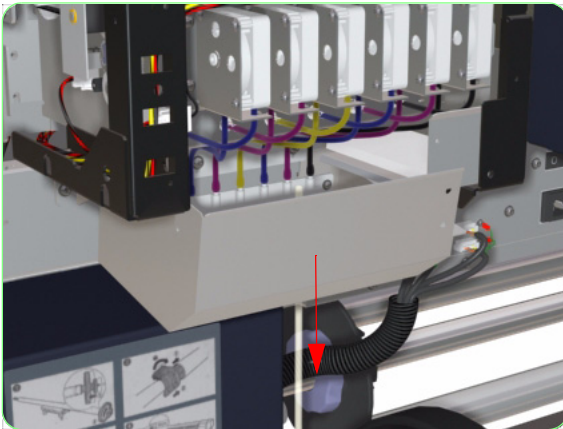
10. Remove the metal plate from the chassis.



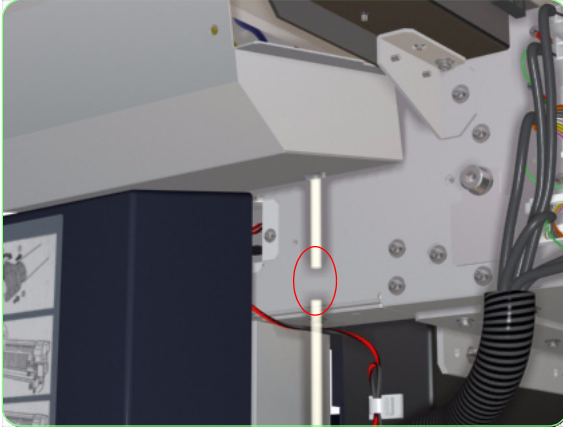
- 11.** Remove two screws that secure the metal cover to the side of the Printer.



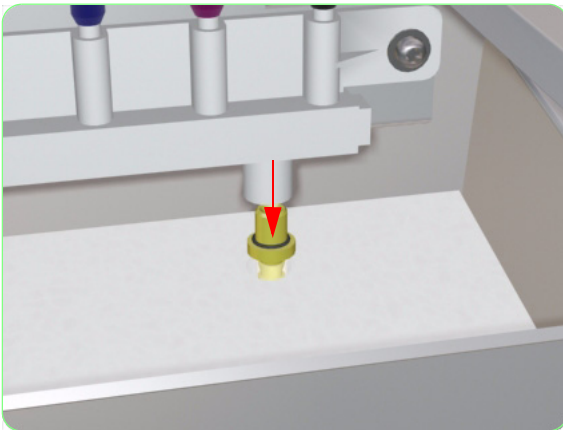
- 12.** Remove two screws that secure the metal cover to the front of the Printer.



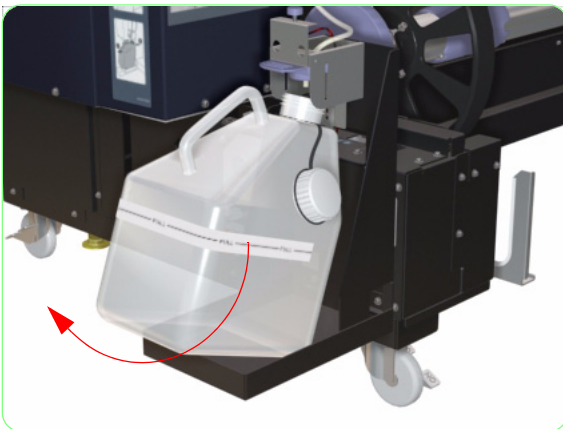
- 13.** Pull the metal cover down slightly so that the Priming Tubes are exposed.



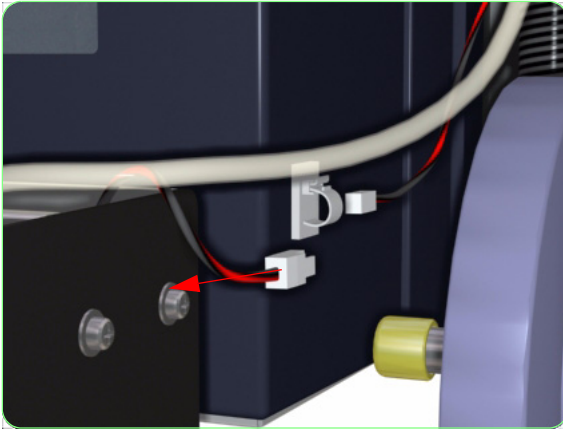
14. Carefully cut the Waste Tube at the point indicated.



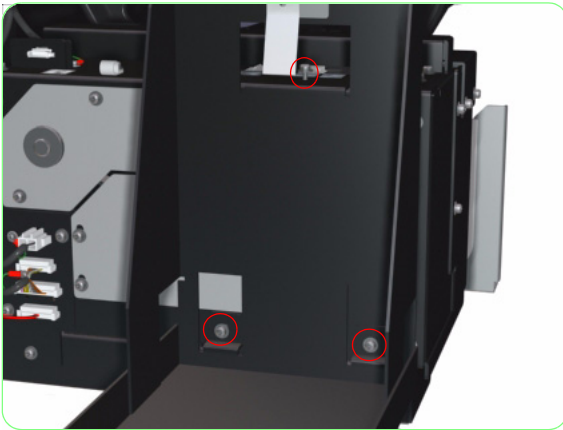
15. Disconnect (or unscrew) and discard the cut part of the Waste Tube (including Tube Joint and the O-Ring) from the Capping Tubes Bracket.



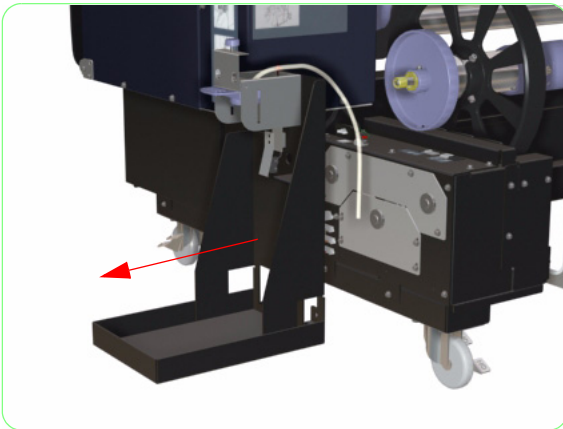
16. Remove the Waste Ink Bottle from the Printer.



17. Disconnect the Waste Bottle Sensor Cable.



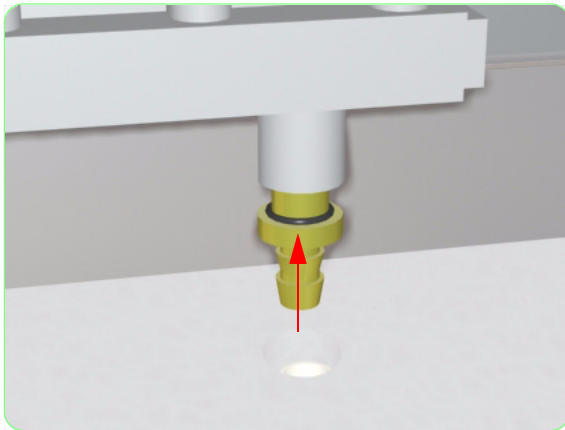
18. Remove three screws that secure the Waste Bottle Holder to the Drive Unit.



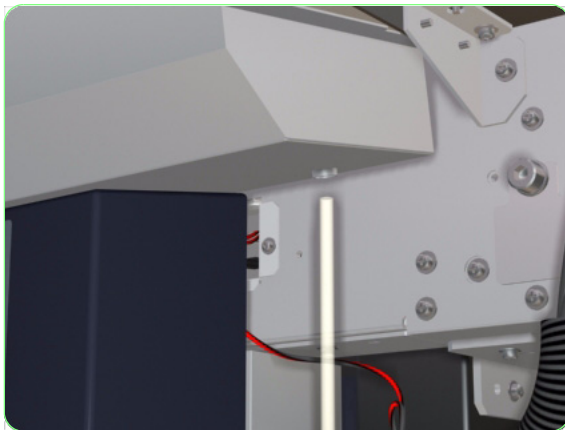
19. Remove the Waste Bottle Holder and Assembly from the Drive Unit.

Installation

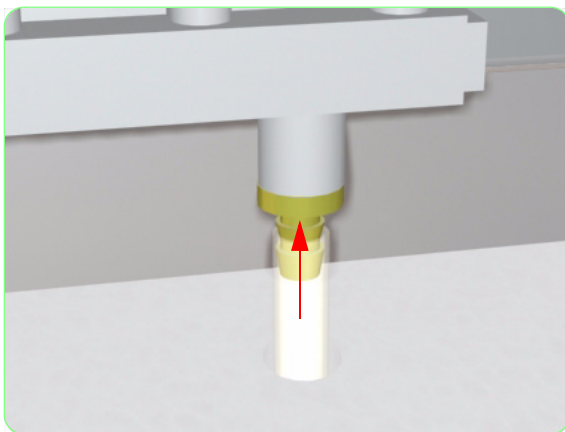
Once the Waste Bottle Holder has been correctly installed, connect the Waste Tube to the Capping Tubes Bracket as follows:



1. Connect (or screw) the Tube Joint and the O-Ring into the Capping Tubes Bracket.



2. Pass the Waste Tube through the hole in the metal cover (containing the foam).



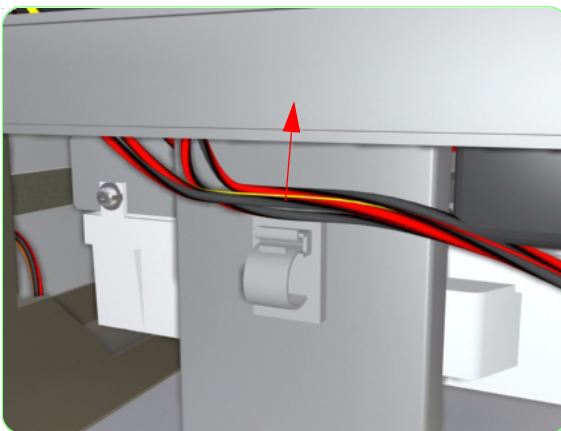
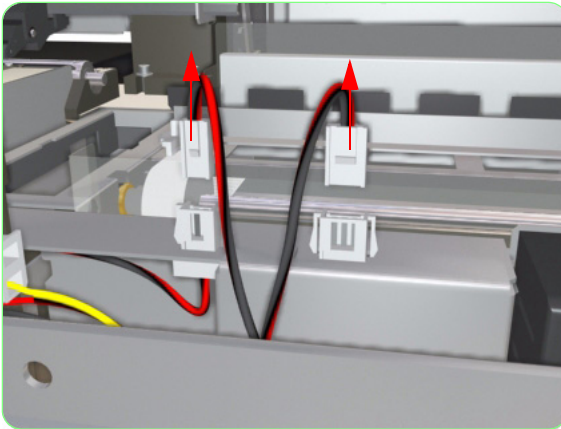
3. Connect the Waste Tube to the Tube Joint.

Wiping Station Assembly

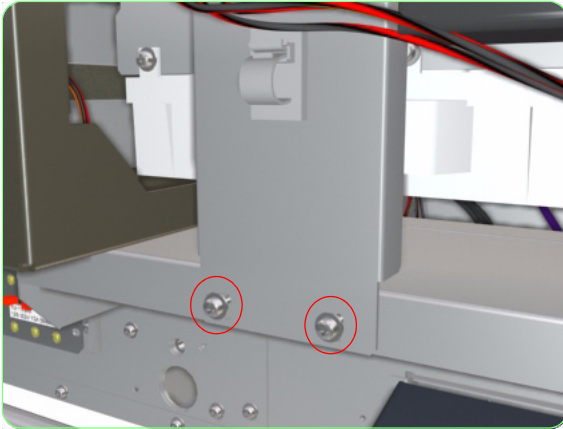
Removal

Switch off the product and remove the power cable.

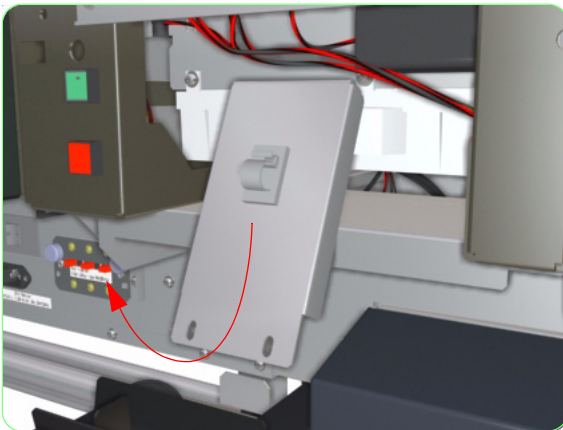
1. Remove the Upper Side Cover (Left) ⇒ Page 8-4.
2. Remove the Top Side Cover (Left) ⇒ Page 8-5.
3. Remove the Lower Side Cover (Left) ⇒ Page 8-8.
4. Remove the Lower Wiping Cover ⇒ Page 8-15.
5. Remove the Wiping Door ⇒ Page 8-17.
6. Disconnect the Wiping Station cables.



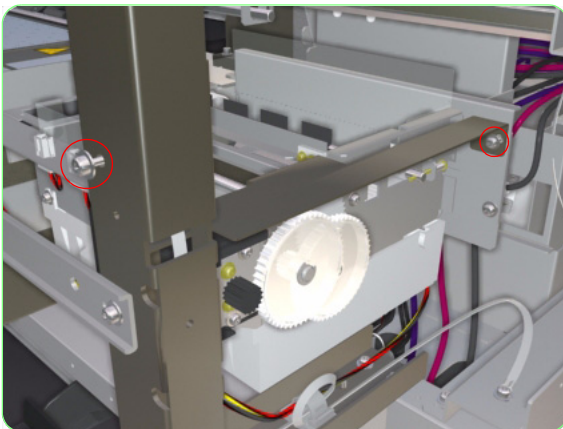
7. Release the Wiping Station cables from the cable clip.



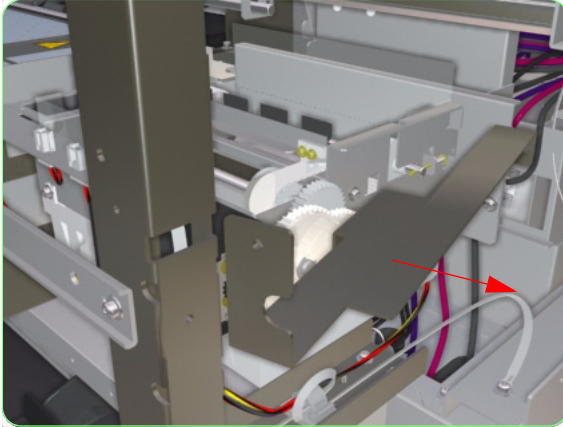
- 8.** Remove two screws that secure the metal bracket to the Wiping Station.



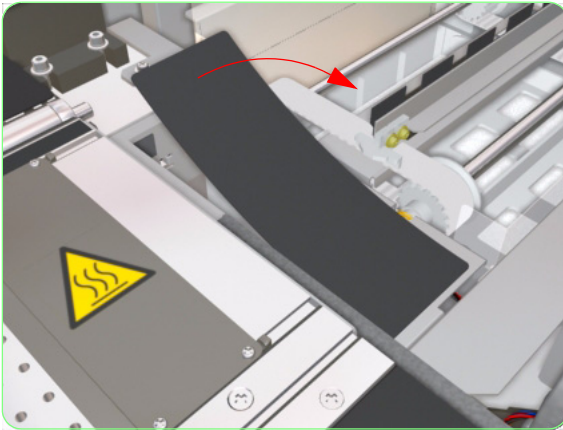
- 9.** Remove the metal bracket from the Wiping Station.



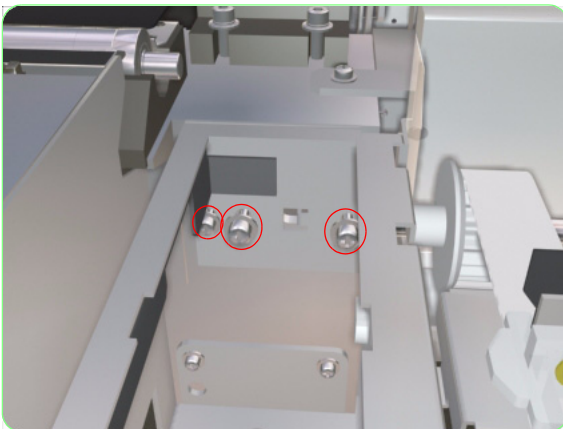
- 10.** Remove two screws that secure the Gear Cover to the Wiping Station.



- 11.** Remove the Gear Cover from the Wiping Station.



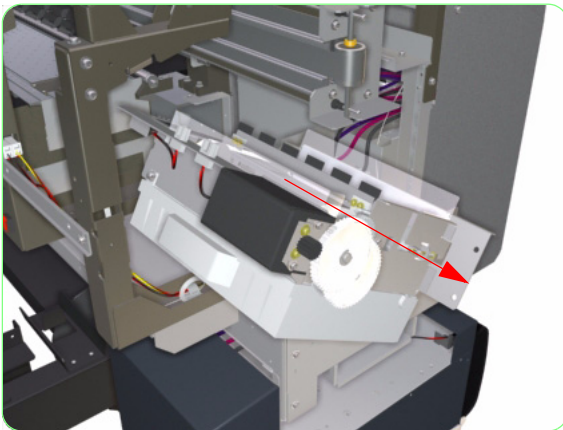
- 12.** Remove the Black Cover that is stuck over the hole in the Wiping Station.



- 13.** Remove three screws that secure the Wiping Station to the chassis.



- 14.** Remove one screw that secures the Wiping Station to the chassis.



- 15.** Remove the Wiping Station from the Printer.

Once the Wiping Station Assembly has been installed correctly, you must perform the Wiping Station Height Adjustment. For further information, refer to Page 5-18.

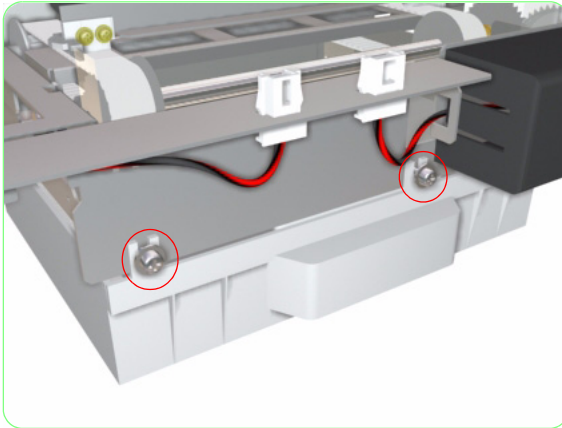
Once you have replaced the Wiping Station Assembly, make sure you reset the Wiper Blade counter ⇒ Page 4-92.

Wiper Cleaning Assembly

Removal

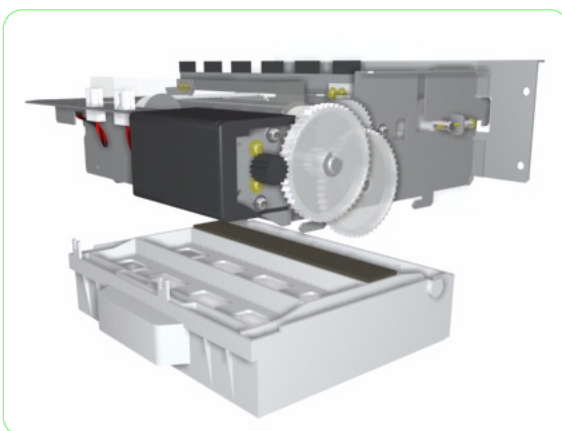
Switch off the product and remove the power cable.

1. Remove the Upper Side Cover (Left) ⇒ Page 8-4.
2. Remove the Top Side Cover (Left) ⇒ Page 8-5.
3. Remove the Lower Side Cover (Left) ⇒ Page 8-8.
4. Remove the Lower Wiping Cover ⇒ Page 8-15.
5. Remove the Wiping Door ⇒ Page 8-17.
6. Remove the Wiping Station Assembly ⇒ Page 8-181.
7. Remove two screws from both sides that secure the Wiper Cleaning Assembly to the Wiping Station Assembly.



8. Unclip the Wiper Cleaning Assembly from the Wiping Station Assembly.

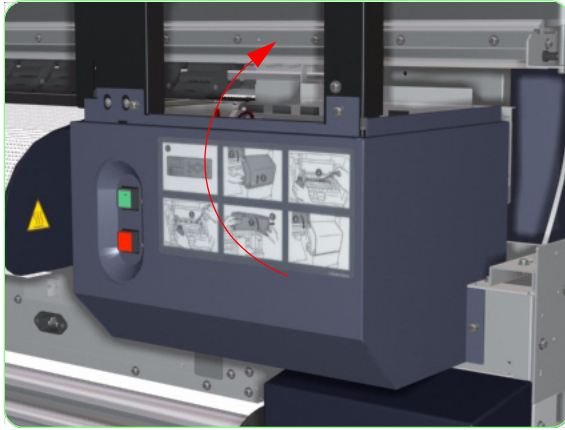
Once you have replaced the Wiper Cleaning Assembly, make sure you reset the Wiper Cleaning counter (for more information, refer to Page 4-)



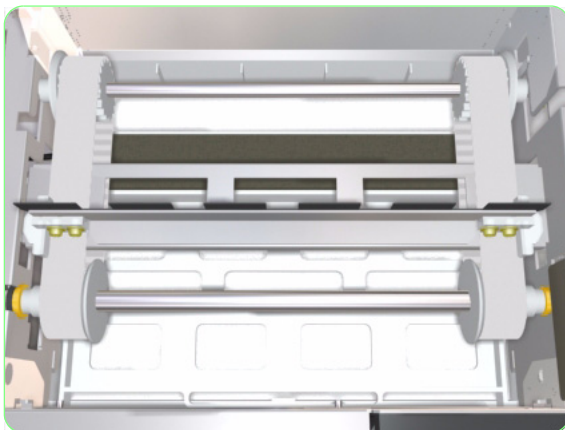
Wiper Blade

Removal

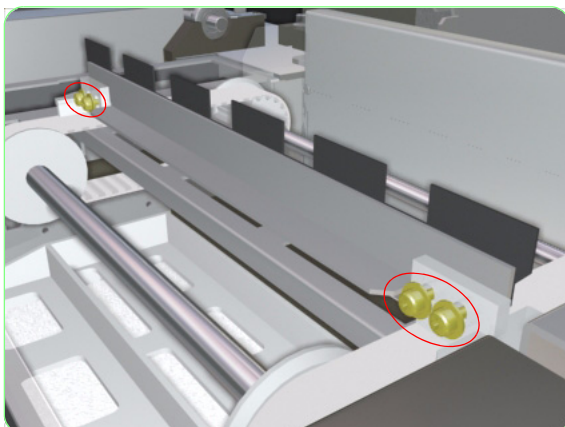
Switch off the product and remove the power cable.



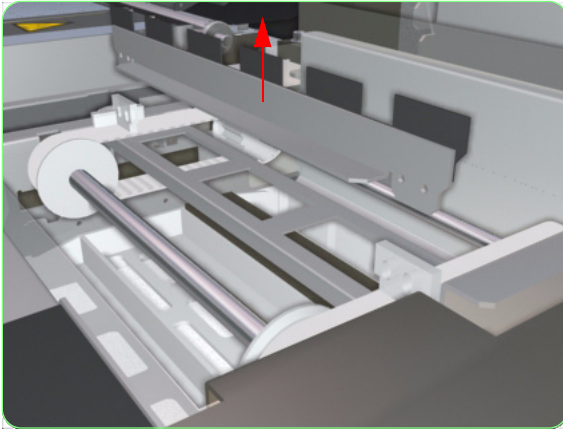
1. Open the Wiping Door.



2. Manually turn the Wiper Gear so that the Wiper Blade moves to upper position.



3. Remove four screws that secure the Wiper Blade to the Wiper Belts.



4. Remove the Wiper Blade from the Wiper Belts.

Once the Wiper Blade has been installed correctly, you must perform the Wiper Blade Height Adjustment. For further information, refer to Page 5-22.

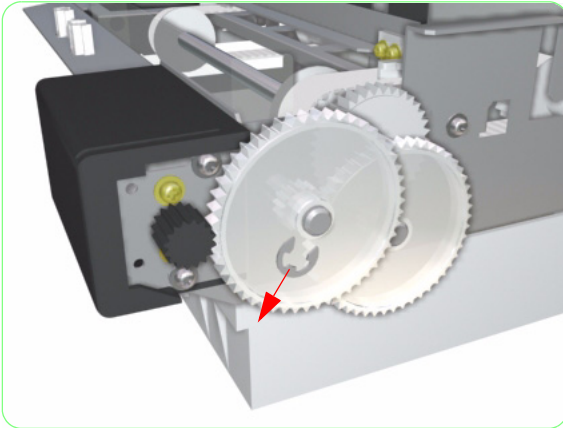
Once you have replaced the Wiper Blade, make sure you reset the Wiper Blade counter (for more information, refer to Page 4-92).

Wiper Belts

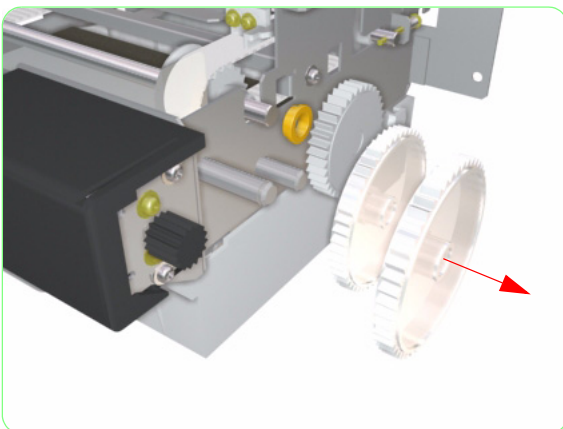
Removal

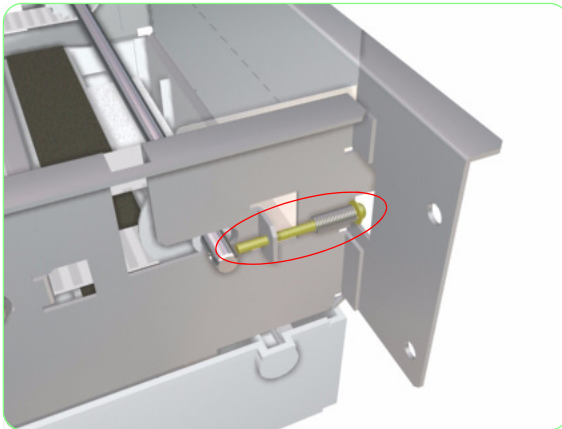
Switch off the product and remove the power cable.

1. Remove the Upper Side Cover (Left) ⇒ Page 8-4.
2. Remove the Top Side Cover (Left) ⇒ Page 8-5.
3. Remove the Lower Side Cover (Left) ⇒ Page 8-8.
4. Remove the Lower Wiping Cover ⇒ Page 8-15.
5. Remove the Wiping Door ⇒ Page 8-17.
6. Remove the Wiping Station Assembly ⇒ Page 8-181.
7. Remove the C ring that secures the Gears.

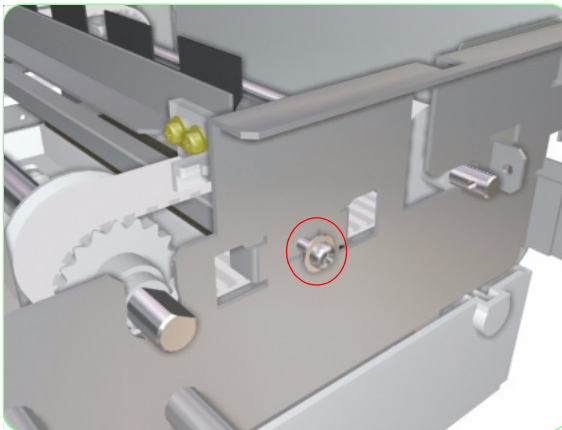


8. Remove the Gears from the Wiping Station.

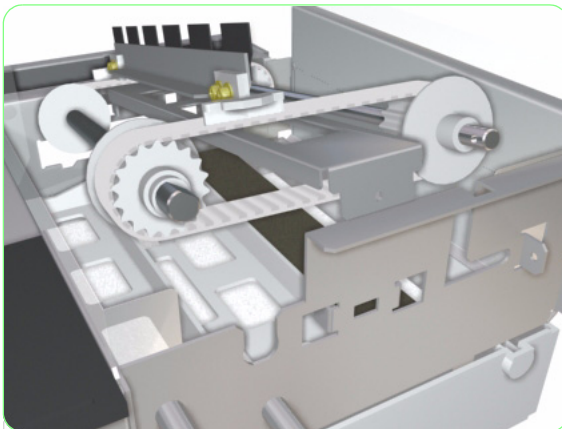




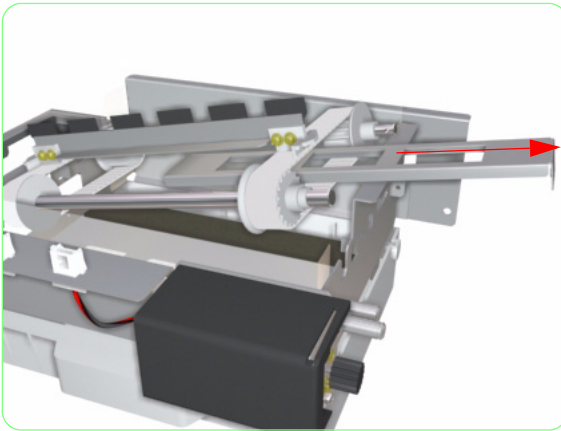
- 9.** Remove the screw and spring from each side of the Wiping Station.



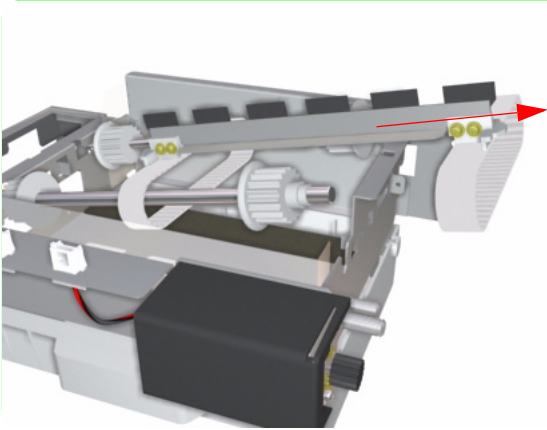
- 10.** Remove one screw that secures the metal plate.



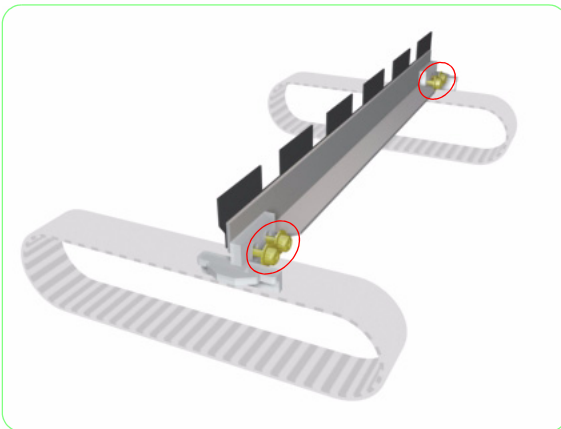
- 11.** Lift up the Wiping System.



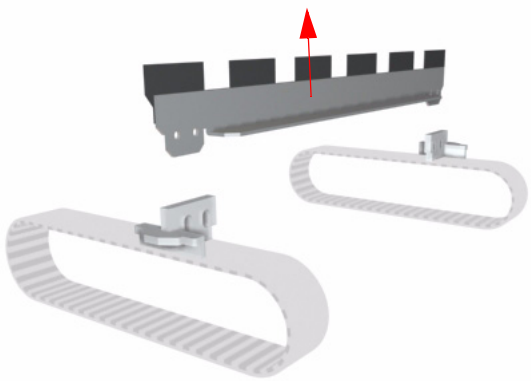
12. Remove the metal plate from the Wiping Station.



13. Remove the Wiper Blade and belts from the Wiping Station.



14. Remove four screws that secure the Wiper Blade to the Wiper Belts.



- 15.** Remove the Wiper Blade from the Wiper Belts.

Once the Wiper Belts and Blade have been installed correctly, you must perform the Wiper Belt Tension Adjustment (refer to Page 5-21) and the Wiper Blade Height Adjustment (refer to Page 5-22).

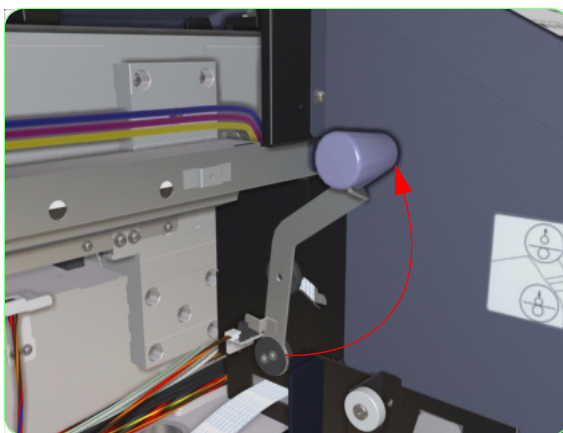
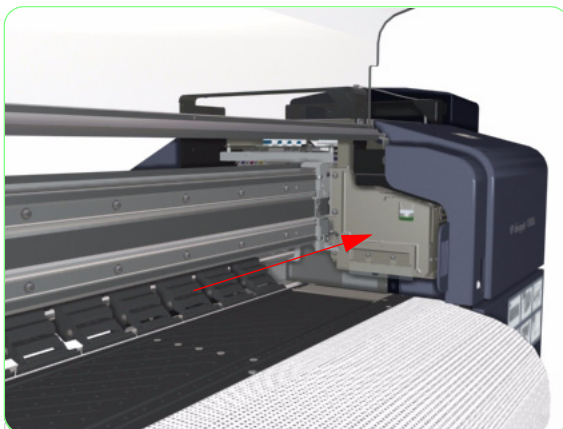
Also, Once the Wiping Station Assembly has been installed correctly, you must perform the Wiping Station Height Adjustment. For further information, refer to Page 5-18.

Pinchwheel Assembly

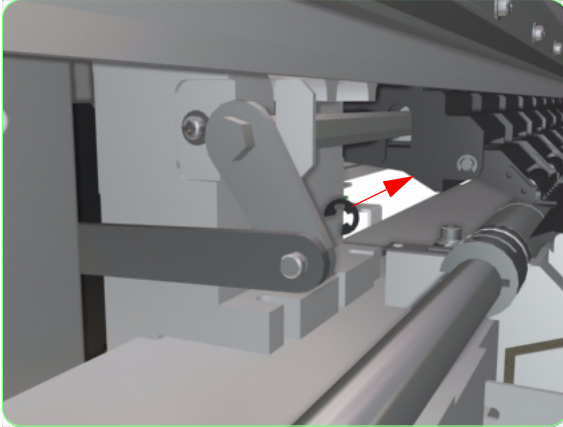
Removal

Switch off the product and remove the power cable.

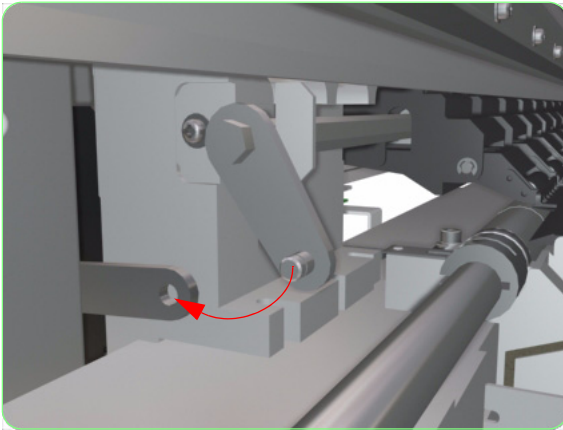
1. Remove the Rear Cover ⇒ Page 8-3.
2. Remove the Upper Side Cover (Left and Right) ⇒ Page 8-4.
3. Remove the Top Side Cover (left and Right) ⇒ Page 8-5.
4. Remove the Top Cover ⇒ Page 8-6.
5. Remove the Front Heater ⇒ Page 8-29.
6. Remove the Paper-Axis Motor ⇒ Page 8-68
7. Uncap the Carriage and move it to the Wiping Station.



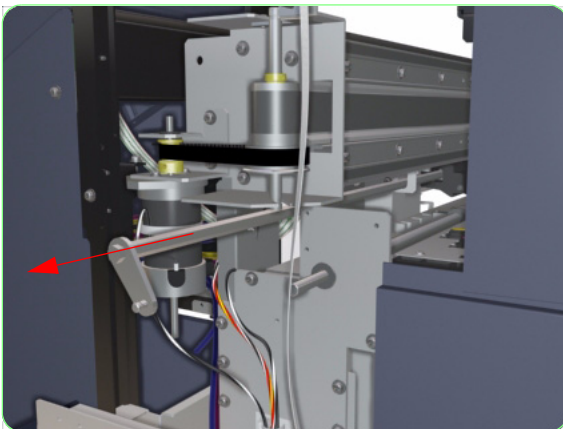
8. Raise the Media Lever.



9. Remove the C ring that secures the Linkage to the Pinchwheel Cam.



10. Release the Linkage from the Pinchwheel Cam.

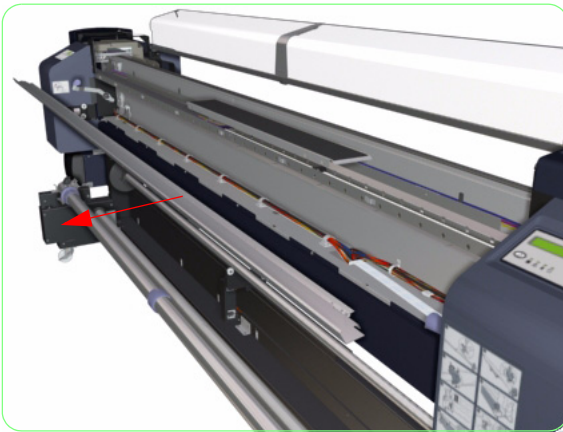


11. Pull out the Pinchwheel Cam until the Pinchwheel Assembly that you want to remove can be accessed.

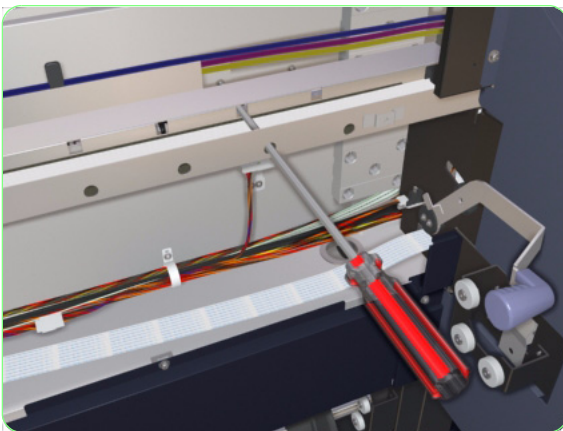
It is NOT necessary to remove the Pinchwheel Cam completely.



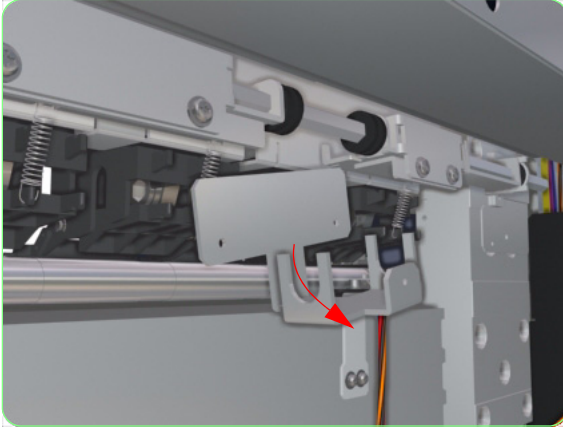
12. Remove nine screws that secure the Metal Cover.



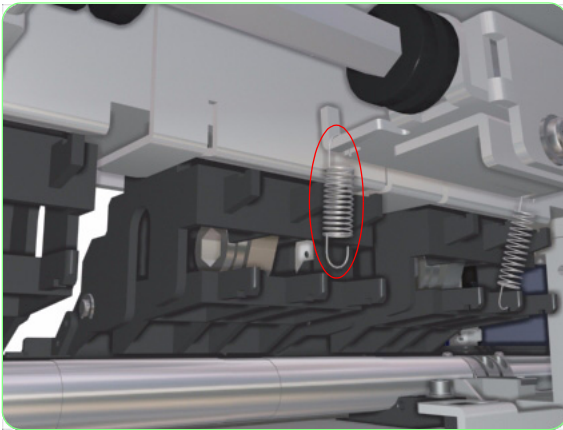
13. Remove the Metal Cover from the Printer.



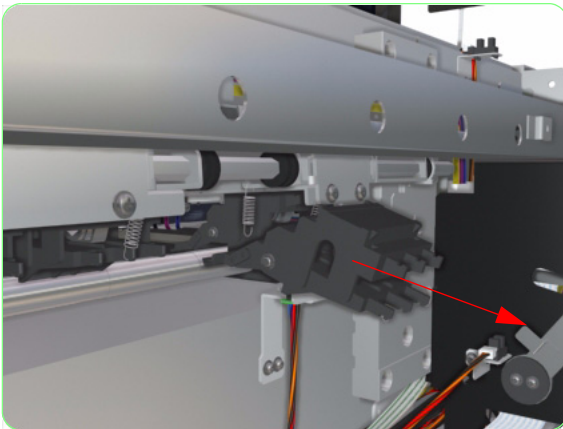
14. Remove two/three screws that secure the Pinchwheel Bracket (that secures the Pinchwheel Assembly that you want to remove).



15. Remove the Pinchwheel Bracket from the Printer.



16. Release the Spring from the Pinchwheel Assembly.



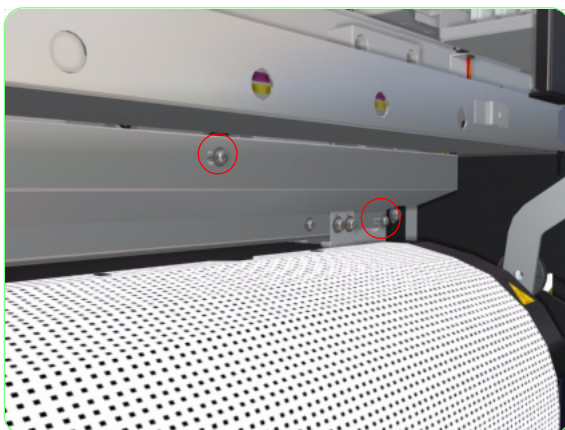
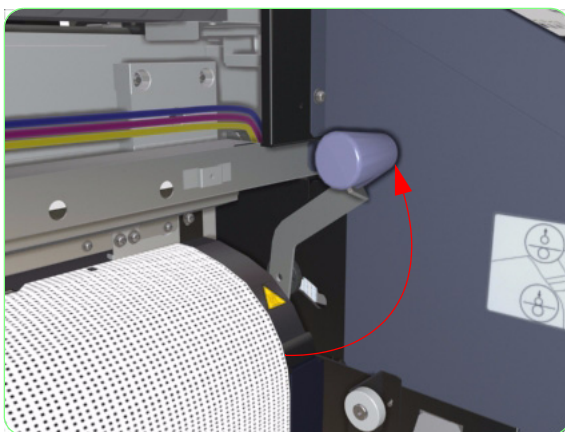
17. Remove the Pinchwheel Assembly from the Printer.

Drive Roller

Removal

Switch off the product and remove the power cable.

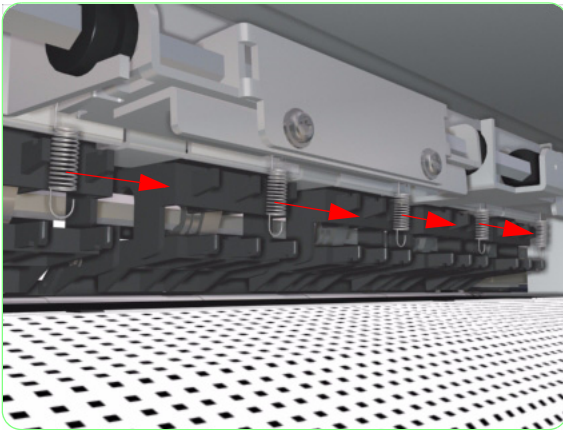
1. Remove the Rear Cover ⇒ Page 8-3.
2. Remove the Upper Side Cover (Left and Right) ⇒ Page 8-4.
3. Remove the Top Side Cover (left and Right) ⇒ Page 8-5.
4. Remove the Top Cover ⇒ Page 8-6.
5. Remove the Paper-Axis Motor ⇒ Page 8-68.
6. Raise the Media Lever.



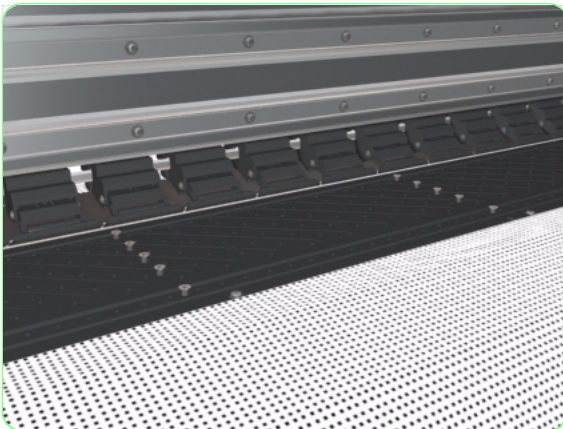
7. Remove nine screws that secure the Metal Cover.



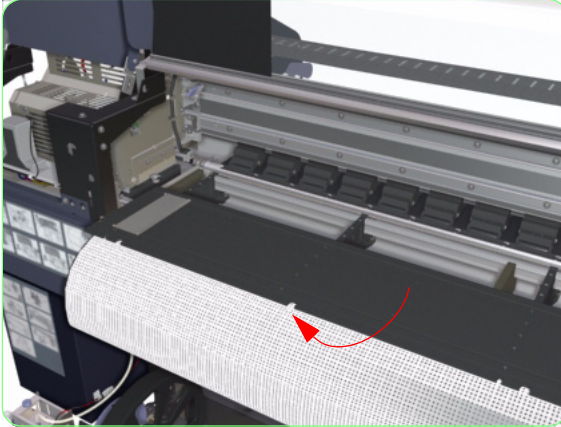
8. Remove the Metal Cover from the Printer.



9. Remove ALL the Springs from the Pinchwheels.

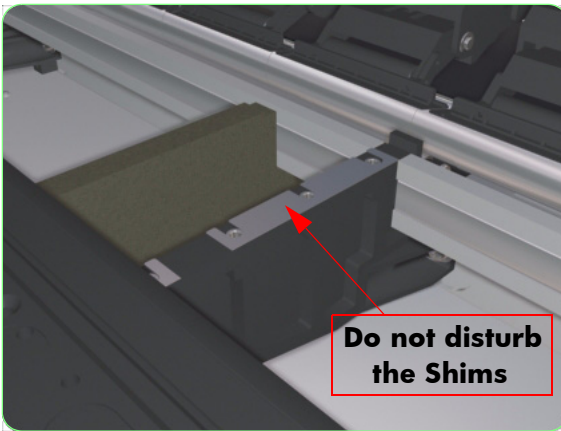


10. Remove 55 screws that secure the Center Platen to the Printer.

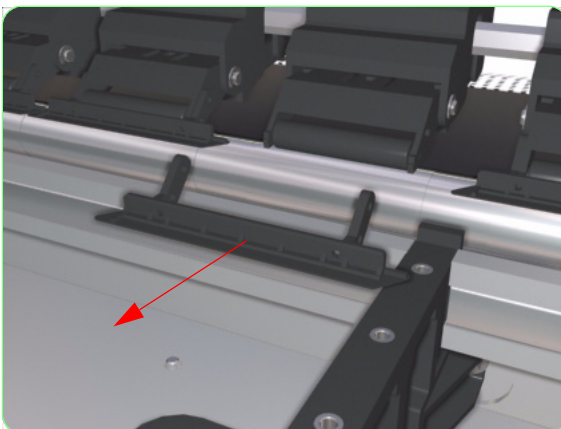


- 11.** Move the Center Platen upwards and then towards you slightly.

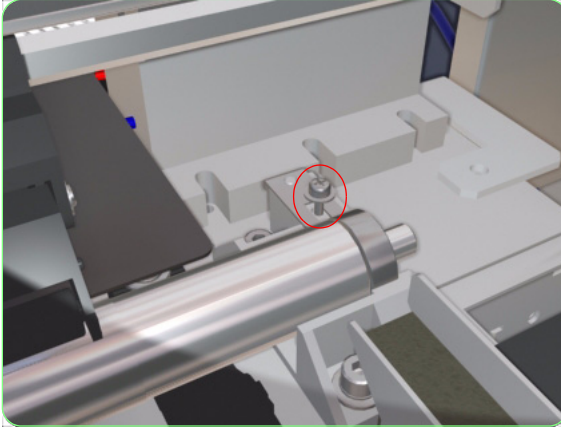
Do NOT remove the Center Platen from the Printer. It is only being moved in order to allow access to the Drive Roller.



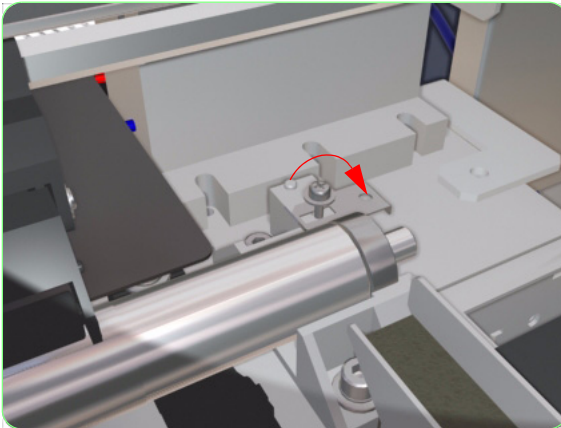
When moving the Center Platen, take care not to disturb the Shims that are placed underneath the Center Platen.



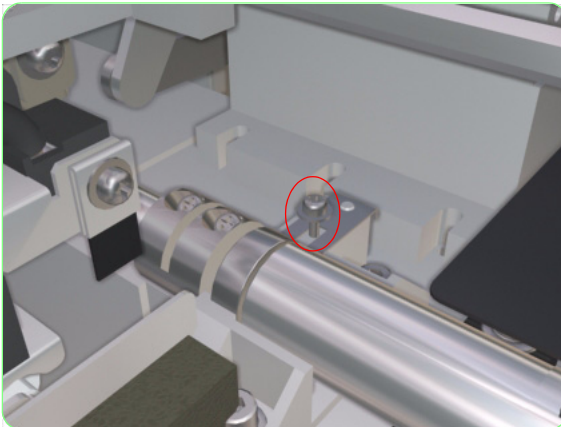
- 12.** Release the Blades from the Pinchwheels and remove from the Printer.



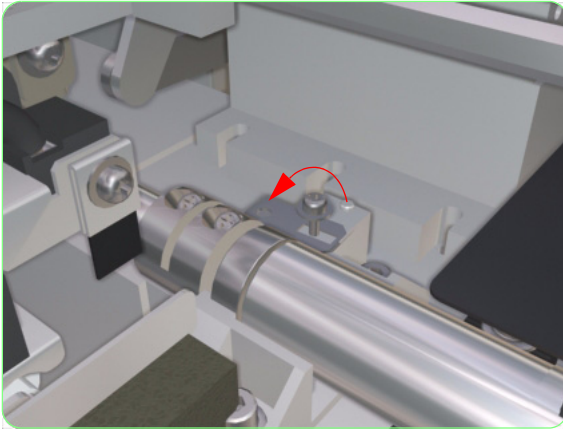
- 13.** Loosen one screw that secures the Locking Plate on the Wiping side.



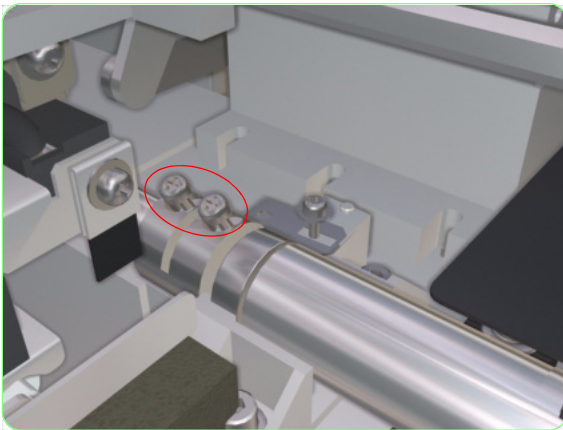
- 14.** Rotate the Locking Plate away from the Drive Roller.



- 15.** Loosen one screw that secures the Locking Plate on the Capping side.



16. Rotate the Locking Plate away from the Drive Roller.



17. Remove two screws from the Drive Roller.

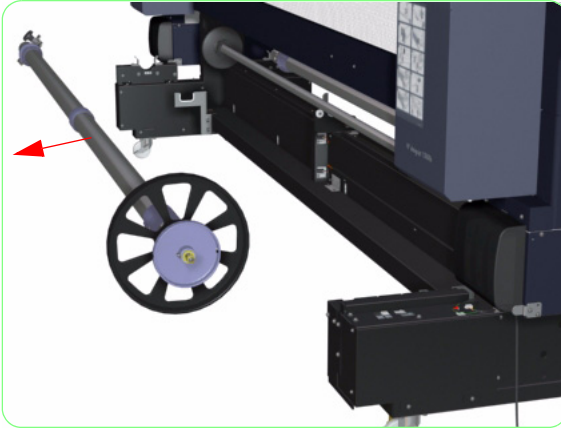


18. Remove the Drive Roller from the Printer.

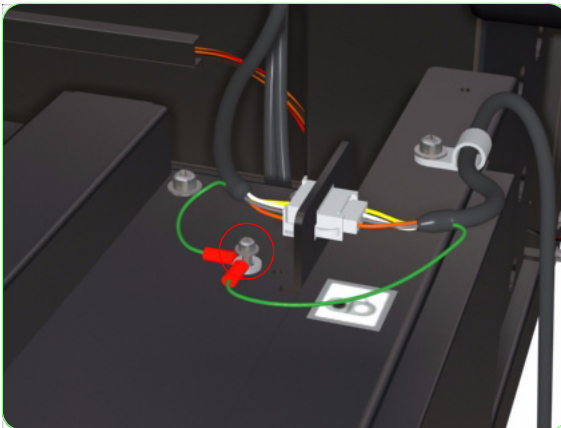
Media Feed Drive Unit Assembly

Removal

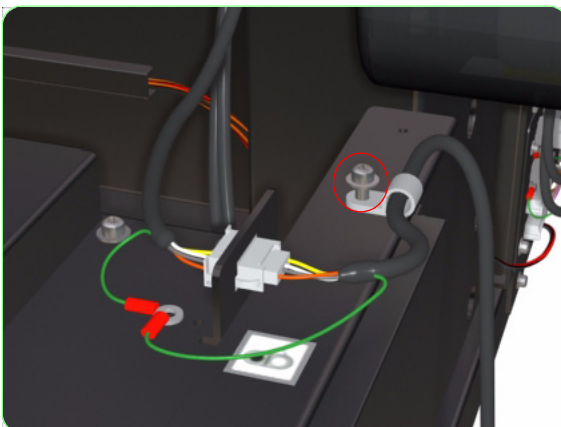
Switch off the product and remove the power cable.



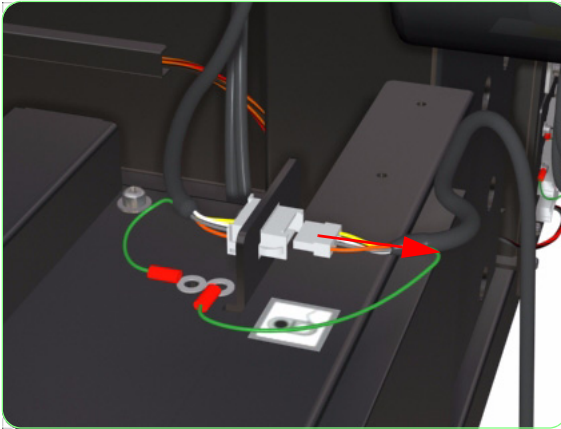
1. Remove the Main Scroller from the media Feed side of the Printer.



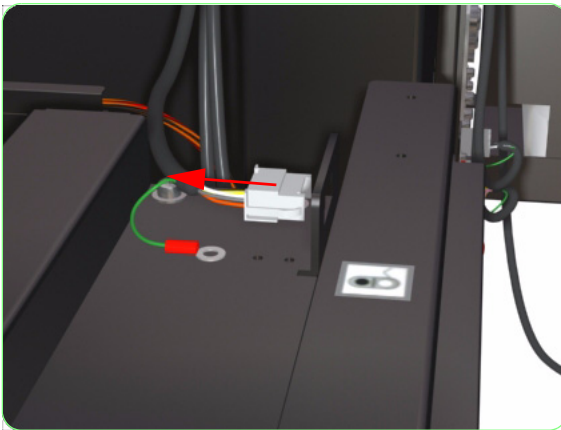
2. Remove one screw that secures the Grounding Cables.



3. Remove one screw from the Cable Clamp and release the Foot Switch Cable from the Cable Clamp.



- 4.** Disconnect the Foot Switch Cable from the Drive Unit Assembly and remove the Foot Switch from the Printer.



- 5.** Release the Connector from the mounting bracket.



- 6.** Remove a screw that secures each Grounding Cable to the side of the Drive Unit.



- 7.** Disconnect ALL Cables connected to the Drive Unit Assembly.



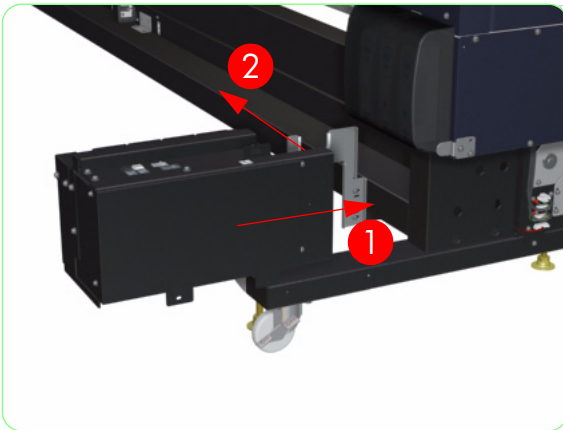
- 8.** Remove two screws that secure the Drive Unit Assembly on the left hand side.



- 9.** Remove two screws that secure the Drive Unit Assembly on the right hand side.



10. Remove the Drive Unit Assembly from the Printer.



When installing the Drive Unit, push it towards the Printer until it touches the Printer Leg and then move it towards the left to align the sides and then install the screws.

Once the Drive Unit Assembly has been installed correctly, you must perform the Media Feed and Take-Up-Reel Unit Adjustment. For further information, refer to Page 5-30.

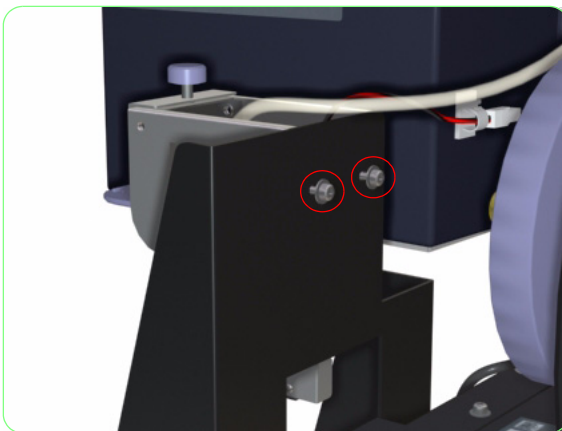
Take-Up-Reel Drive Unit Assembly

Removal

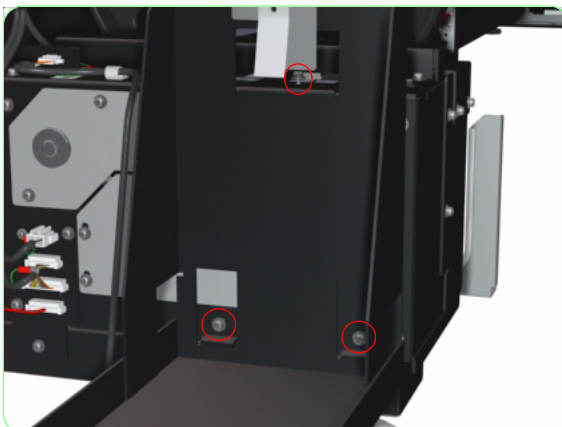
Switch off the product and remove the power cable.



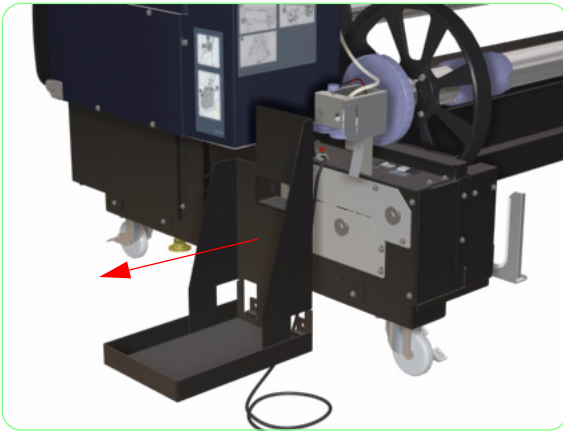
1. Remove the Waste Ink Bottle from the Printer.



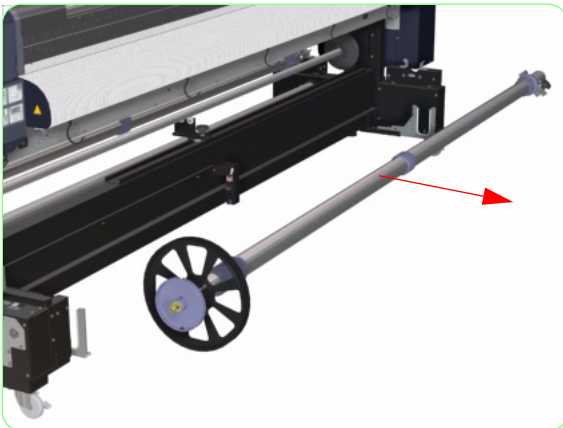
2. Remove two screws that secure the Waste Bottle Locking Bracket.



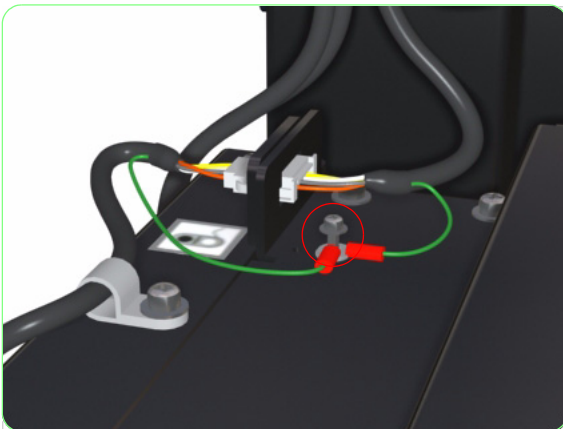
3. Remove three screws that secure the Waste Bottle Holder to the Drive Unit.



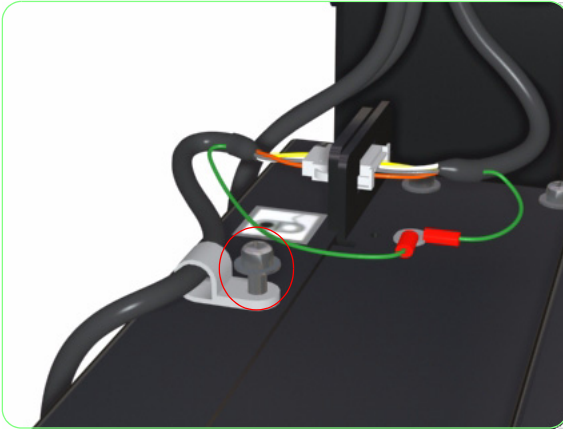
- 4.** Remove the Waste Bottle Holder from the Drive Unit.



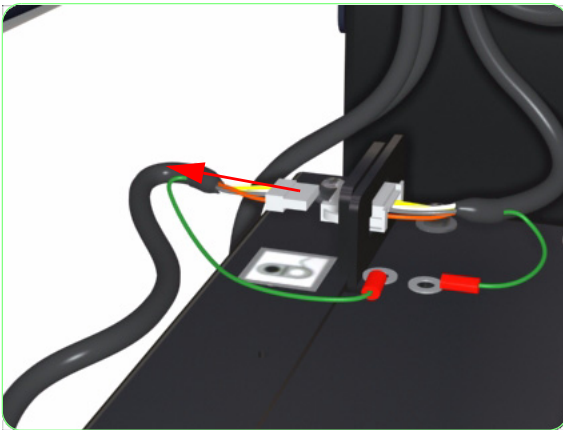
- 5.** Remove the Main Scroller from the Take-Up-Reel Feed side of the Printer.



- 6.** Remove one screw that secures the Grounding Cables.



7. Remove one screw from the Cable Clamp and release the Foot Switch Cable from the Cable Clamp.



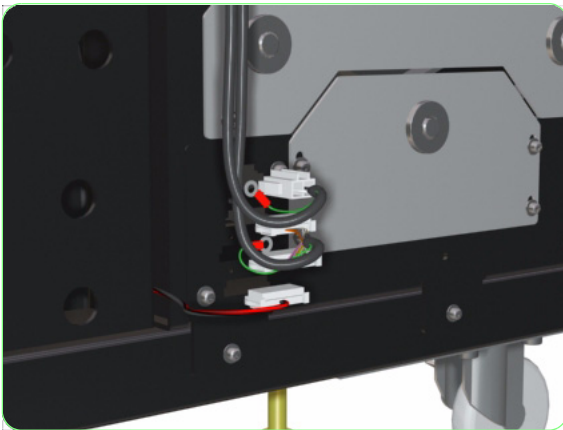
8. Disconnect the Foot Switch Cable from the Drive Unit Assembly and remove the Foot Switch from the Printer.



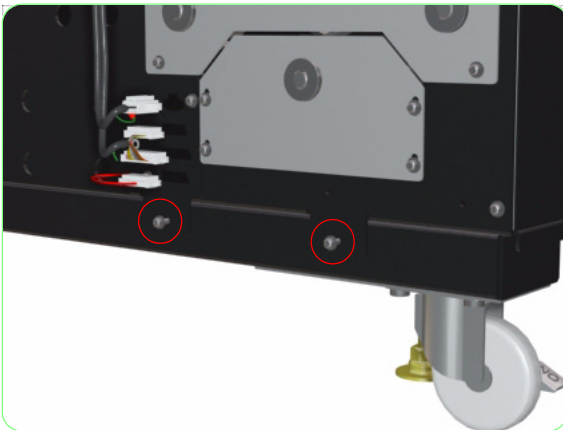
9. Release the Connector from the mounting bracket.



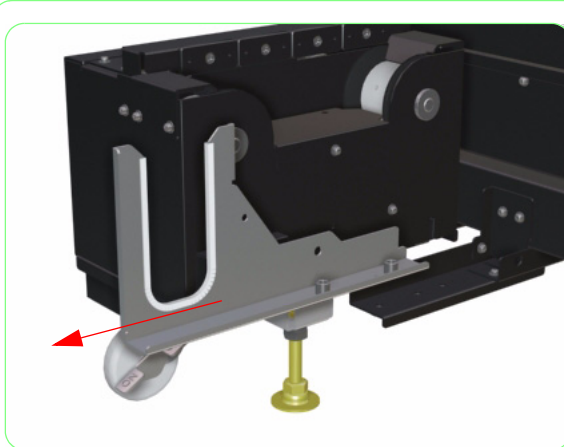
- 10.** Remove a screw that secures each Grounding Cable to the side of the Drive Unit.



- 11.** Disconnect ALL Cables connected to the Drive Unit Assembly.



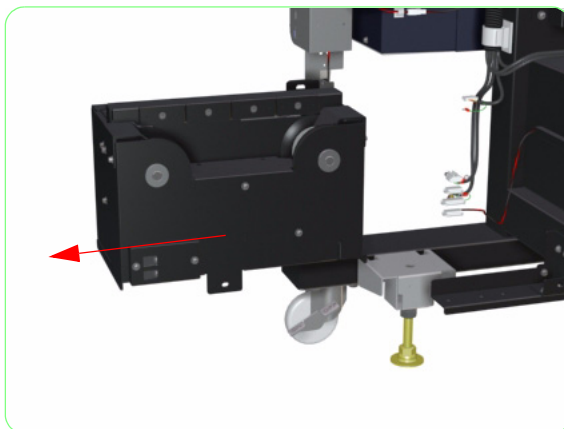
- 12.** Remove two screws that secure the Drive Unit Assembly on the left hand side.



- 13.** Remove two screws that secure the Tension Bar Guide and remove it from the Printer.



- 14.** Remove one screw that secures the Drive Unit Assembly on the right hand side.



- 15.** Remove the Drive Unit Assembly from the Printer.

When installing the Drive Unit, push it towards the Printer until it touches the Printer Leg and then move it towards the right to align the sides and then install the screws.

Once the Drive Unit Assembly has been installed correctly, you must perform the Media Feed and Take-Up-Reel Unit Adjustment. For further information, refer to Page 5-30.

Drive Unit Rollers

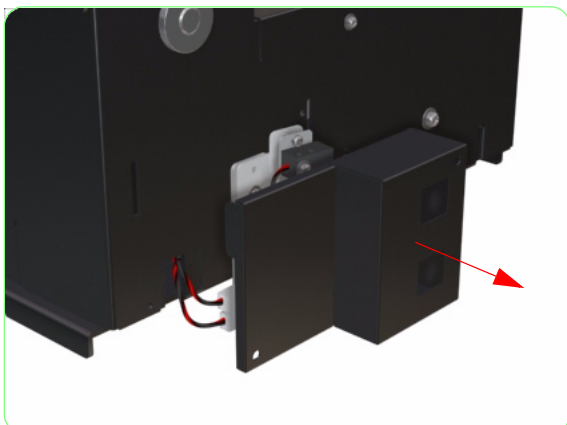
Removal

Switch off the product and remove the power cable.

1. Remove the Media Feed Drive Unit Assembly ⇒ Page 8-201 or the TUR Drive Unit Assembly ⇒ Page 8-205.
2. Remove two screws that secure the Sensor Cover to the Drive Unit Assembly.

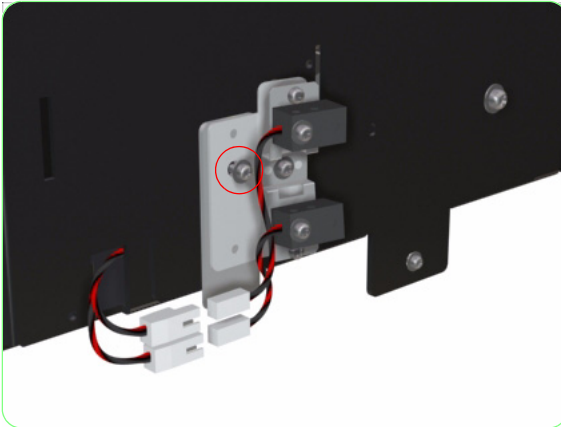


3. Remove the Sensor Cover from the Drive Unit Assembly.

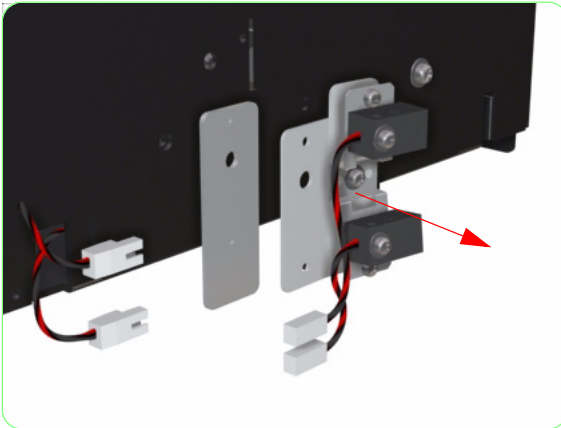


4. Disconnect the cables from the Sensors.





5. Remove one screw that secures the Sensor Bracket to the Drive Unit Assembly.



6. Remove the Sensor Bracket (including the Sensors) from the Drive Unit Assembly.



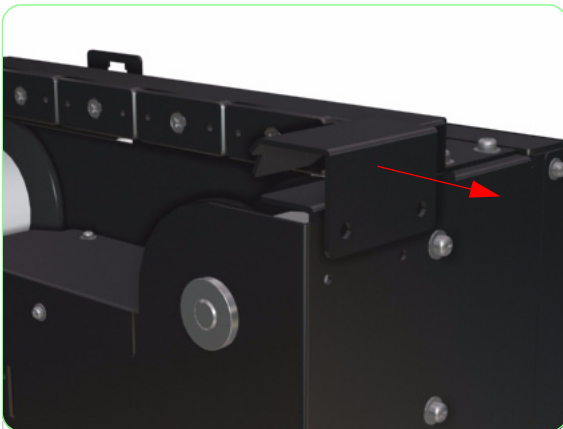
7. Remove two screws that secure the left Roller Cover to the Drive Unit Assembly.



- 8.** Remove the left Roller Cover from the Drive Unit Assembly.



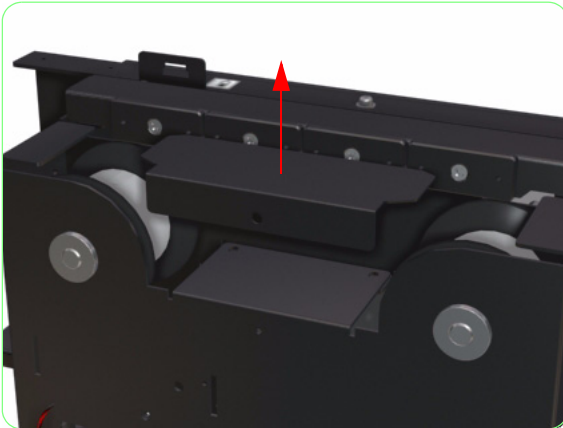
- 9.** Remove two screws that secure the right Roller Cover to the Drive Unit Assembly.



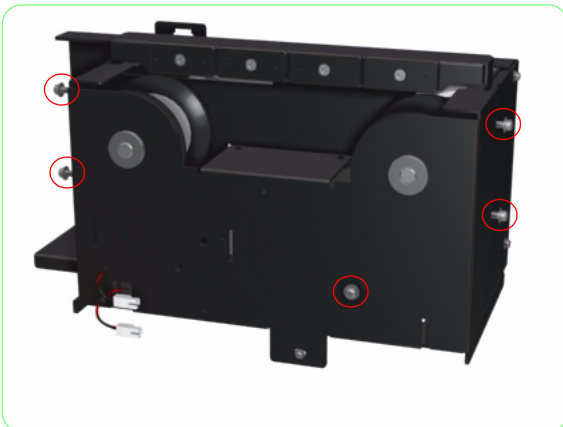
- 10.** Remove the right Roller Cover from the Drive Unit Assembly.



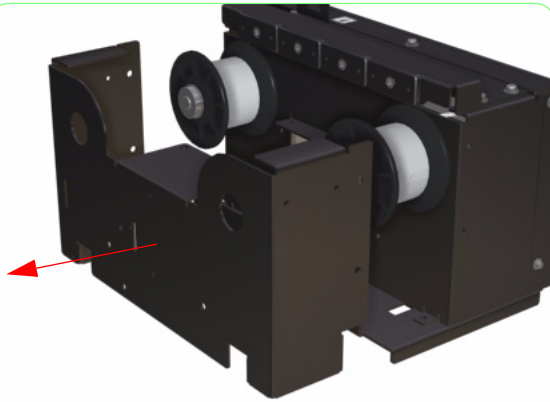
- 11.** Remove three screws that secure the top Roller Cover to the Drive Unit Assembly.



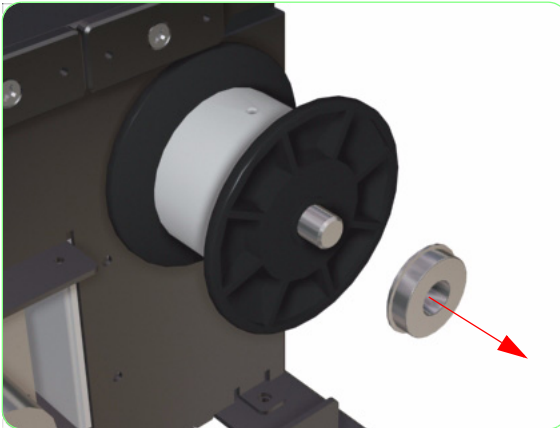
- 12.** Remove the top Roller Cover from the Drive Unit Assembly.



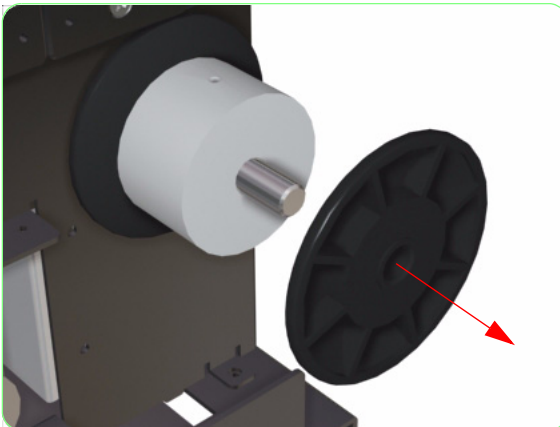
- 13.** Remove five screws that secure the side Roller Cover to the Drive Unit Assembly.



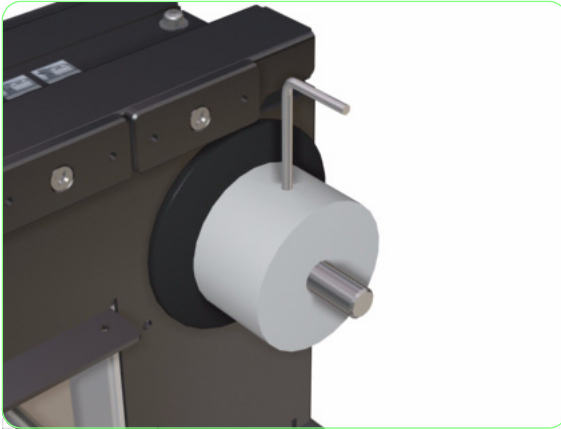
14. Remove the side Roller Cover from the Drive Unit Assembly.



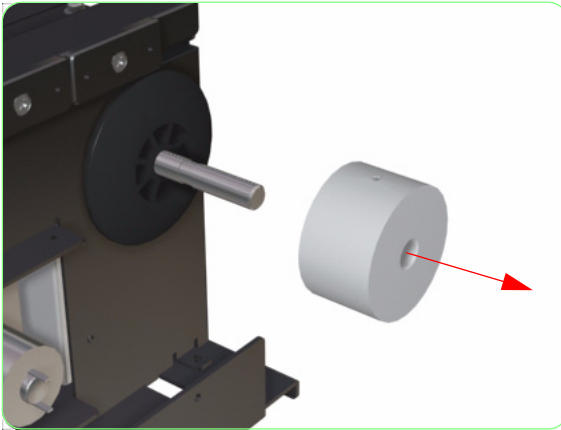
15. Remove the Bearing from the Roller Shaft.



16. Remove the Black Ring from the Roller Shaft.



17. Using an Allen Key, loosen the two screws that secure the Roller to the Roller Shaft.



18. Remove the Roller from the Roller Shaft.

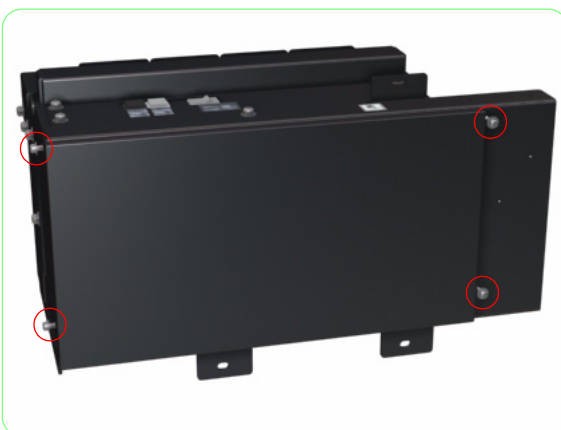
Drive Unit Timing Belt

Removal

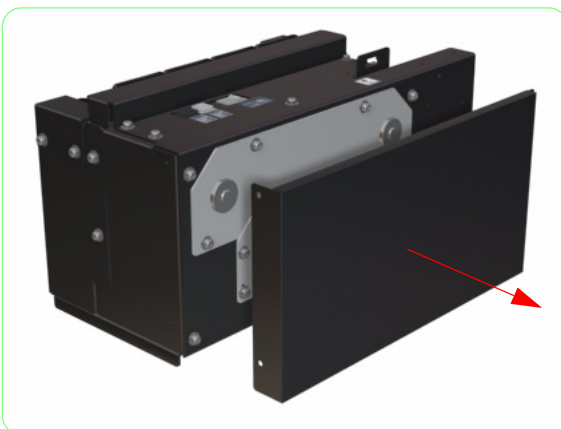
Switch off the product and remove the power cable.

1. Remove the Media Feed Drive Unit Assembly ⇒ Page 8-201 or the TUR Drive Unit Assembly ⇒ Page 8-205.

The side cover (as explained in steps 2 and 3) is only applicable to the Media Feed Drive Unit Assembly.



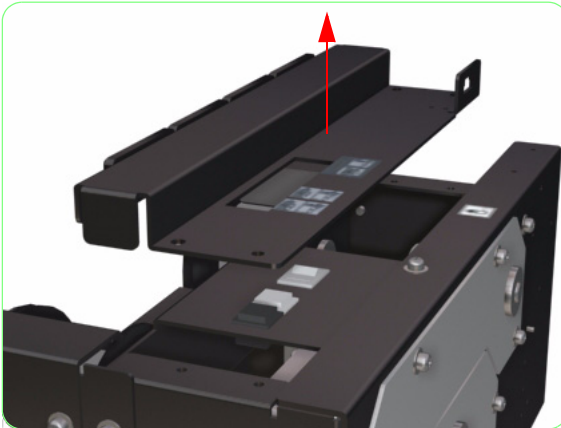
2. Remove four screws that secure the side cover to the Drive Unit Assembly.



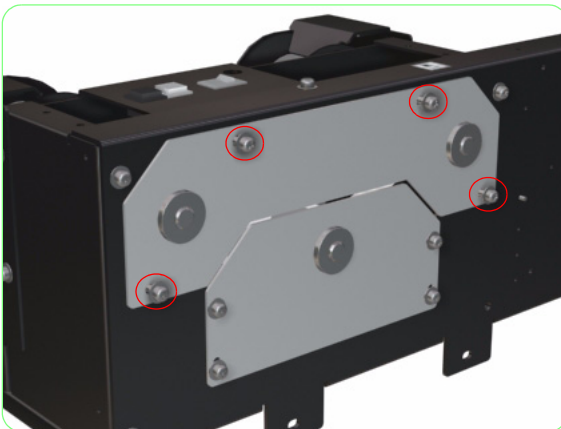
3. Remove the side cover from the Drive Unit Assembly.



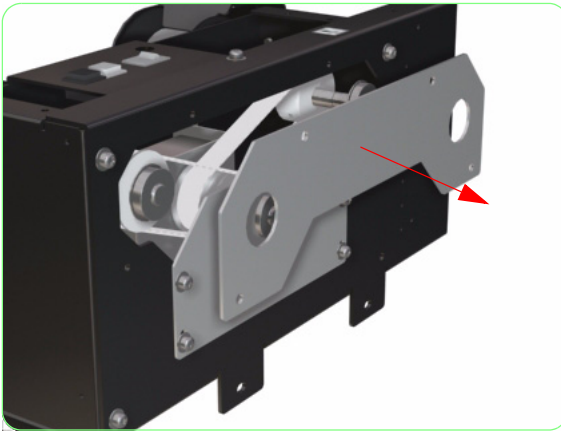
4. Remove four screws that secure the top cover to the Drive Unit Assembly.



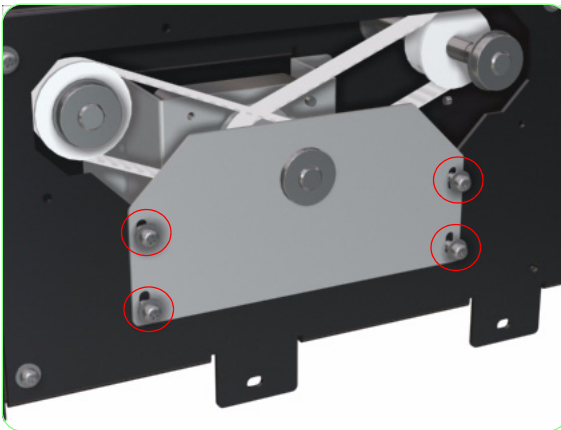
5. Remove the top cover from the Drive Unit Assembly.



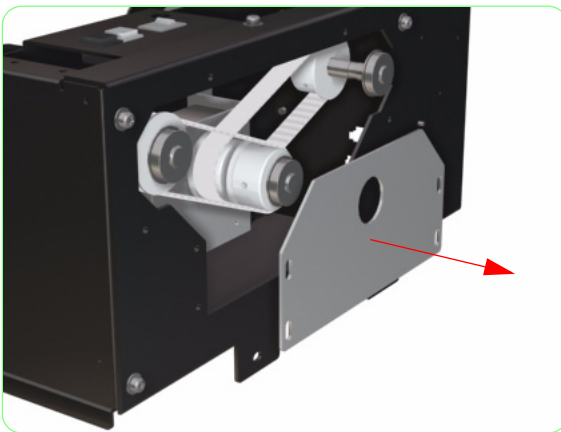
6. Remove four screws that secure the Top Drive Motor Cover to the Drive Unit Assembly.



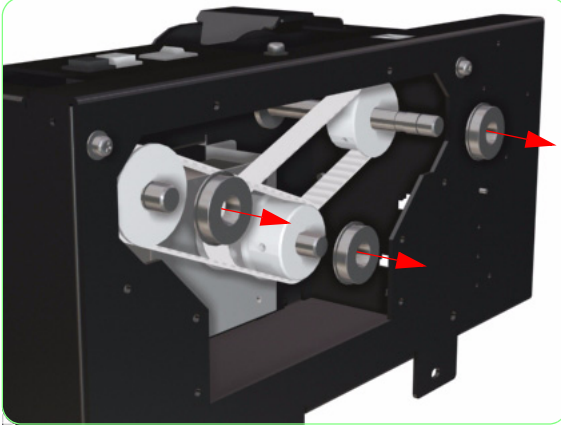
- 7.** Remove the Top Drive Motor Cover from the Drive Unit Assembly.



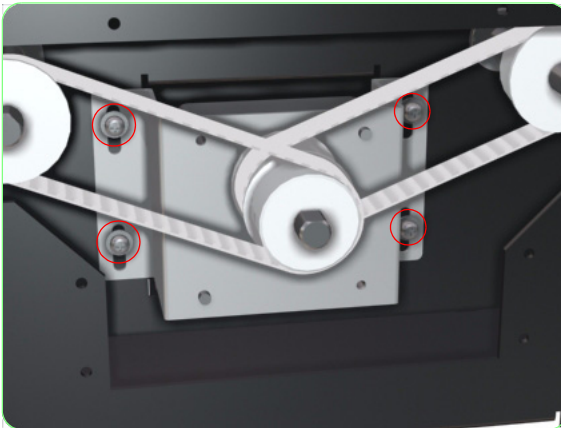
- 8.** Remove four screws that secure the Bottom Drive Motor Cover to the Drive Unit Assembly.



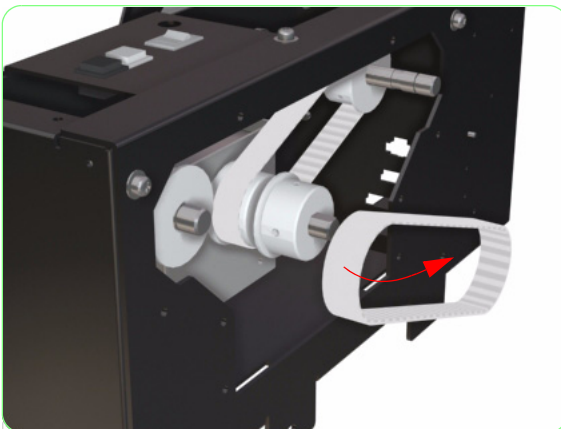
- 9.** Remove the Bottom Drive Motor Cover from the Drive Unit Assembly.



10. Remove the three Bearings from the shafts.



11. Loosen four screws that secure the Drive Motor Bracket to the Drive Unit Assembly.



12. Remove the Timing Belt (that needs to be replaced) from the Drive Unit Assembly.

Once the Timing Belts has been installed correctly, you must perform the Timing Belt Tension Adjustment. For further information, refer to Page 5-16.

Media Sensors (Media End, Media Slack and Take-Up-Reel)

Removal

Switch off the product and remove the power cable.

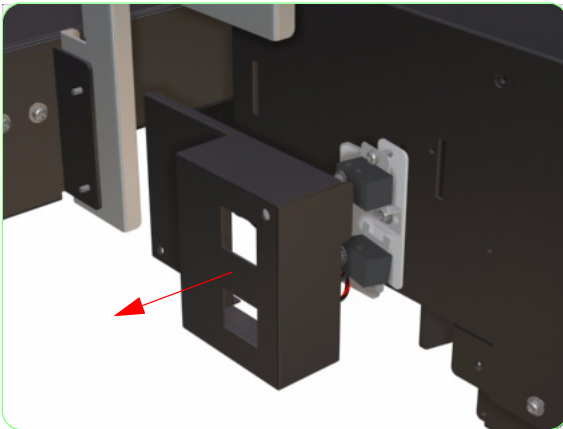
The Media Sensor Kit contains 2 Light Receiving Units and 2 Light Emission Units, so they should be used as necessary to replace any faulty Media Sensors, either on the Media Feed side, or the Take-Up-Reel side.

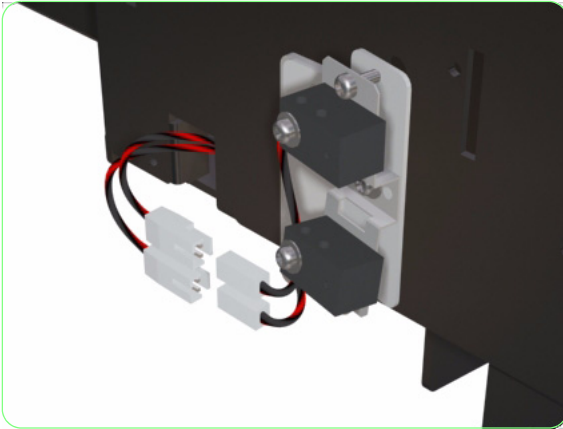
Media End/Slack Light Emission Units

1. Remove two screws that secure the Sensor Cover to the Drive Unit Assembly.

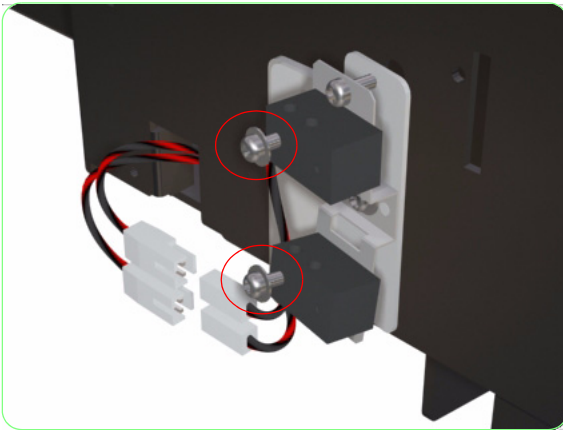


2. Remove the Sensor Cover from the Drive Unit Assembly.

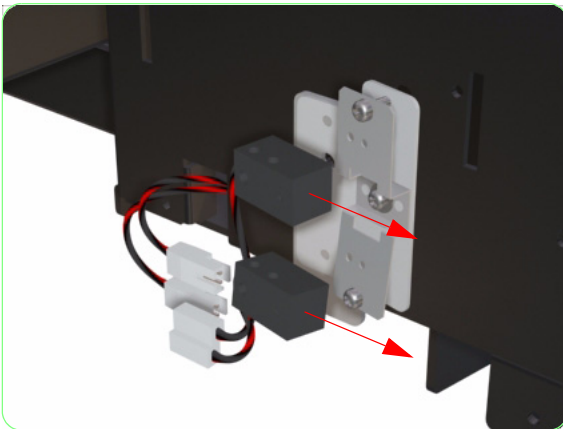




3. Disconnect the two connectors for the Media End/Slack Emission Units.

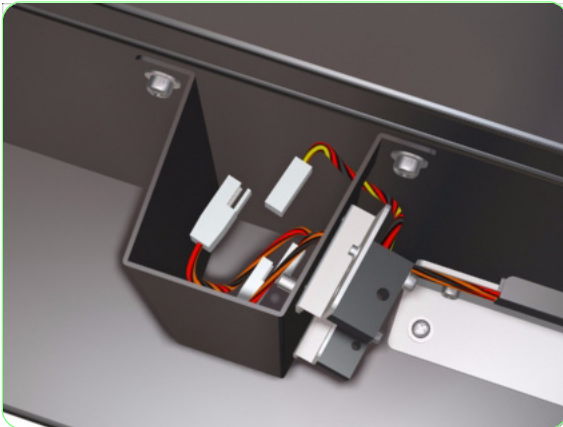


4. Remove one screw from each Media End/Slack Emission Unit.



5. Remove both Media End/Slack Emission Units from the Printer.

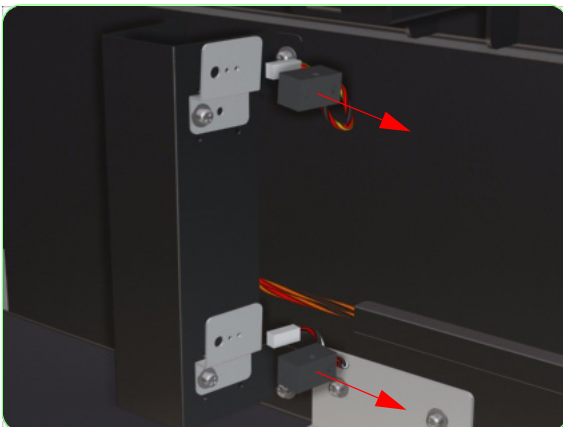
Once the Media End/Slack Emission Units have been installed correctly, you must perform the Media End/Slack Sensor Adjustment. For further information, refer to Page 5-33 and Page 5-36.

Media End/Slack Light Receiving Units

1. Disconnect the two connectors for the Media End/Slack Receiving Units.



2. Remove one screw from each Media End/Slack Receiving Unit.



3. Remove both Media End/Slack Receiving Units from the Printer.

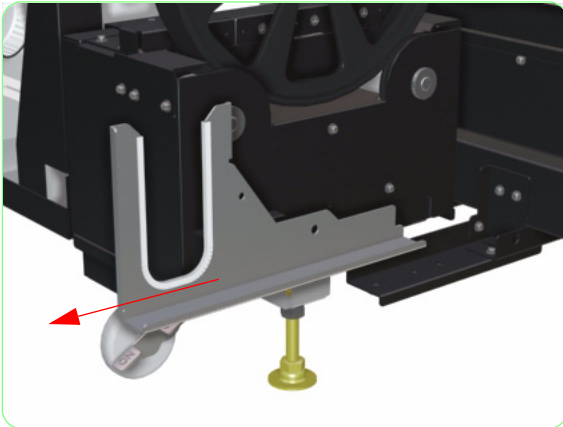
Once the Media End/Slack Emission Units have been installed correctly, you must perform the Media End/Slack Sensor Adjustment. For further information, refer to Page 5-33 and Page 5-36.

Note the following when installing the Media End/Slack Receiving Units:

- The Media End Receiving Unit (Upper Sensor) has Yellow, Black and Red cables and must be connected to the connector marked "K-end".
- The Media Slack Receiving Unit (Lower Sensor) has White, Black and Red cables and must be connected to the connector marked "K-slack".

Take-Up-Reel Light Receiving Units

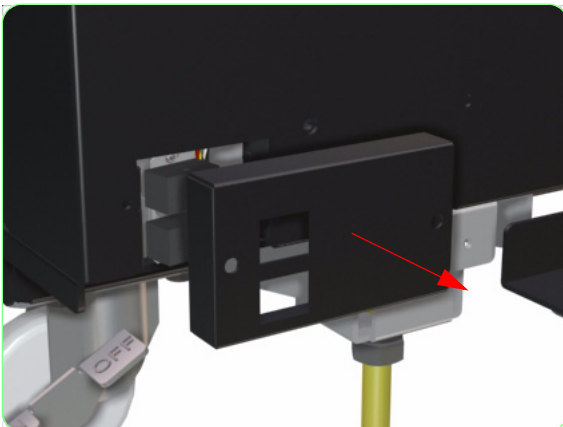
1. Remove two screws that secure the Tension Bar Guide and remove it from the Printer.



2. Remove two screws that secure the Sensor Cover to the Drive Unit Assembly.

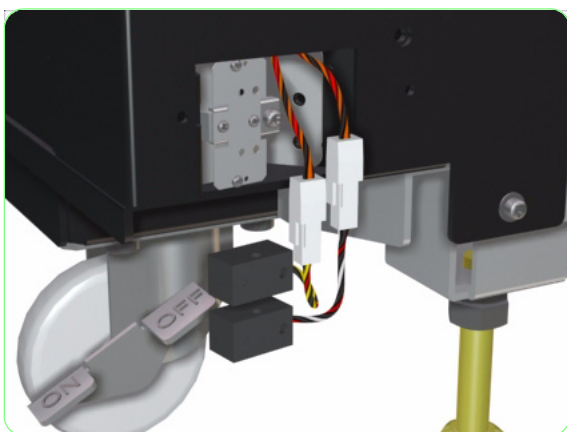


3. Remove the Sensor Cover from the Drive Unit Assembly.

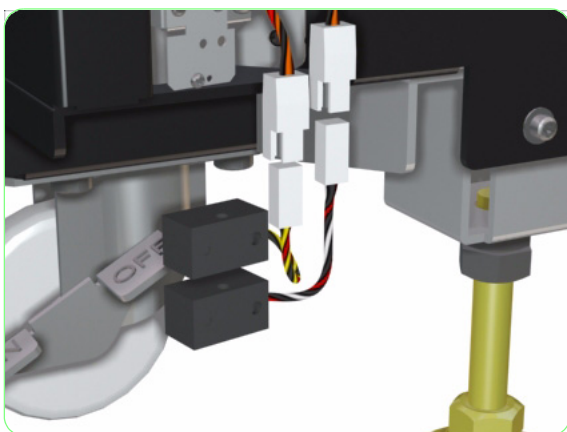




4. Remove one screw from each Take-Up-Reel Receiving Unit.



5. Remove the Take-Up-Reel Receiving Units and pull out the cables so that the connectors are accessible.



6. Disconnect the two connectors for the Take-Up-Reel Receiving Units and remove both units from the Printer.

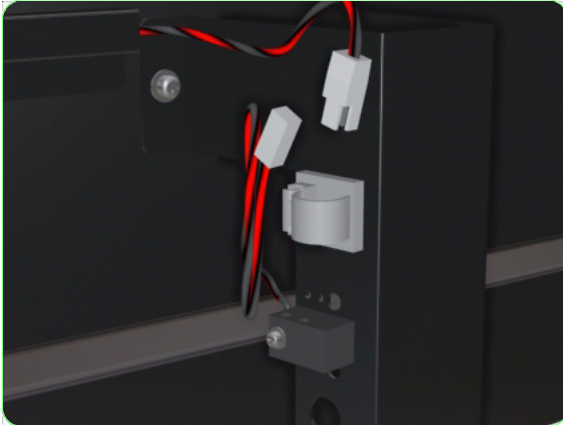
Once the Take-Up-Reel Receiving Units have been installed correctly, you must perform the Take-Up-Reel Sensor Adjustment. For further information, refer to Page 5-39.

Note the following when installing the Take-Up-Reel Receiving Units:

- The Upper Receiving Unit has Yellow, Black and Red cables and must be connected to the connector marked "M-Upper".
- The Lower Receiving Unit (Lower Sensor) has White, Black and Red cables and must be connected to the connector marked "M-Lower".

Take-Up-Reel Light Emission Unit

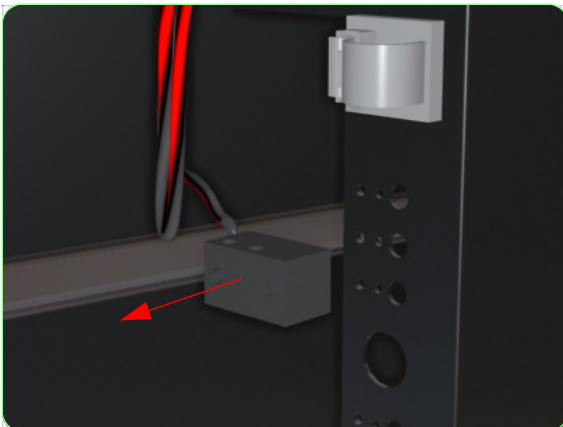
1. Disconnect the connector for the Take-Up-Reel Emission Unit.



2. Remove one screw from the Take-Up-Reel Emission Unit.



3. Remove the Take-Up-Reel Emission Unit from the Printer.



Once the Take-Up-Reel Emission Unit has been installed correctly, you must perform the Take-Up-Reel Sensor Adjustment. For further information, refer to Page 5-39.

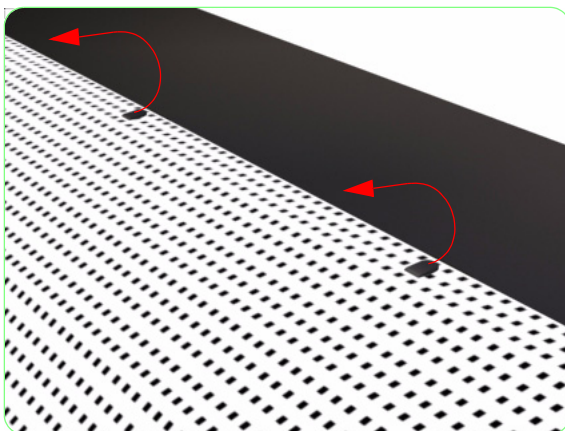
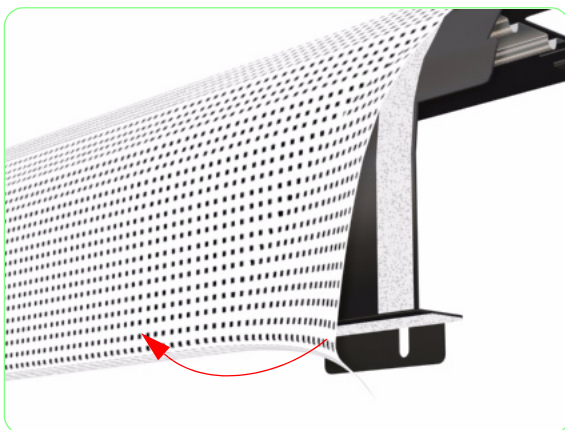
White Nets (For Front and Rear Heaters)

Removal

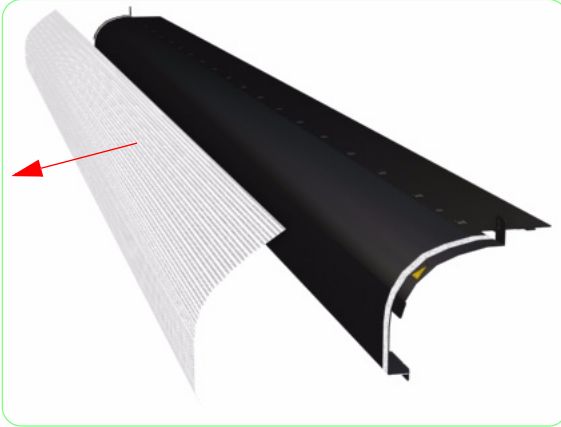
Switch off the product and remove the power cable.

Front White Net

1. Remove the Upper Side Cover (Left) ⇒ Page 8-4.
2. Remove the Lower Side Cover (Left) ⇒ Page 8-8.
3. Remove the Subtank Side Cover (Left) ⇒ Page 8-9.
4. Carefully pull out the Left Subtank Station slightly ⇒ Page 8-151.
5. Remove the Front Heater ⇒ Page 8-29.
6. Pull the side of the White Net so that the Velcro strip detaches from the Front Heater.



7. Unhook the White Net from the Hooks in the Front Heater.

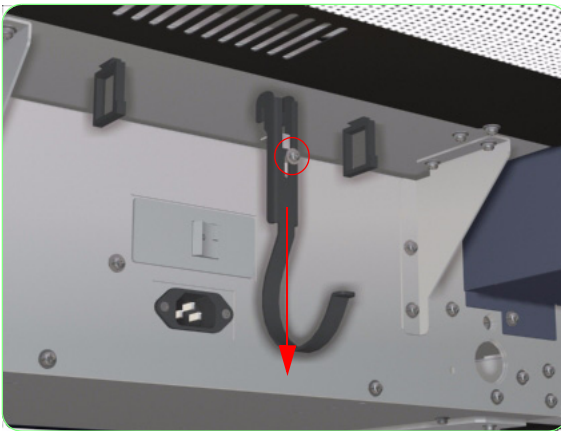


8. Remove the White Net from the Front Heater.

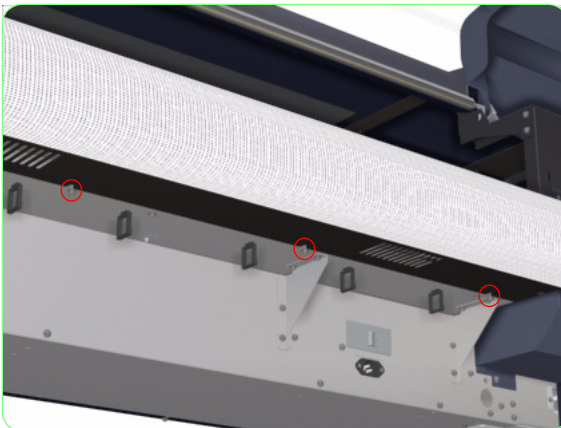
When re-installing the White Net, first hook the Net onto the Hooks in the Front Heater and then attach the Velcro while stretching the Net.

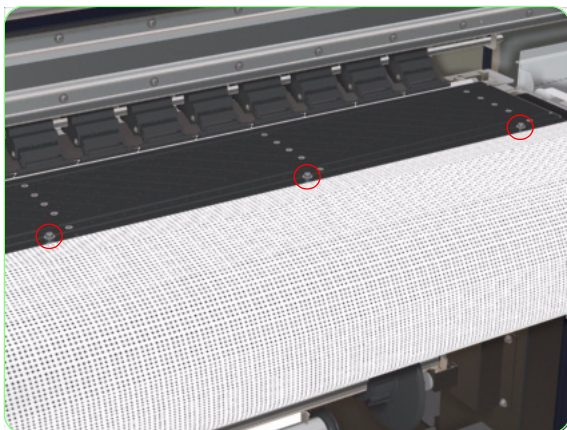
Rear White Net

1. Loosen the screw that secures each Tension Bar Holder and remove the five Holders from the Printer.



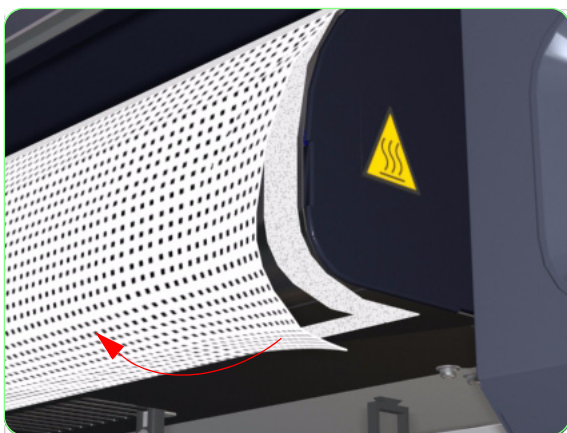
2. Loosen nine screws that secure the bottom of the Rear Heater to the Printer.



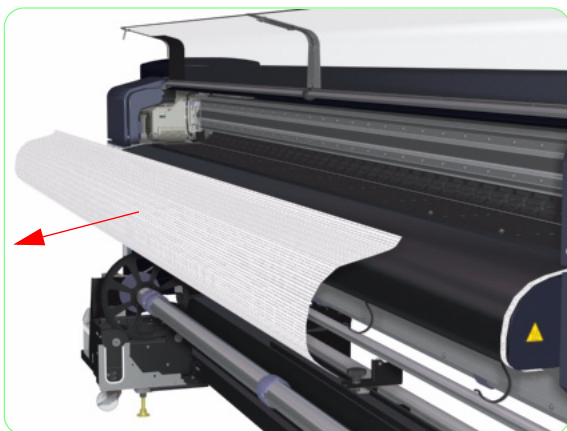


3. Remove 11 screws that secure the top of the Rear Heater to the Printer.

Make sure that the washers do NOT slip underneath the Center Platen.



4. Pull the side of the White Net so that the Velcro strip detaches from the Rear Heater.



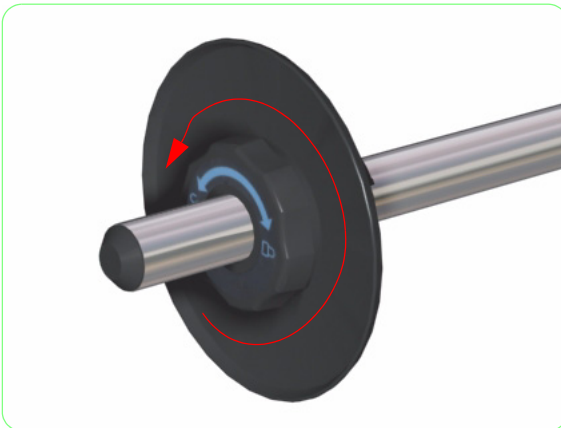
5. Remove the White Net from the Rear Heater.

When re-installing the Rear Net, make sure you push the white net evenly underneath the Center Platen (this can be done starting from the center and moving outwards).

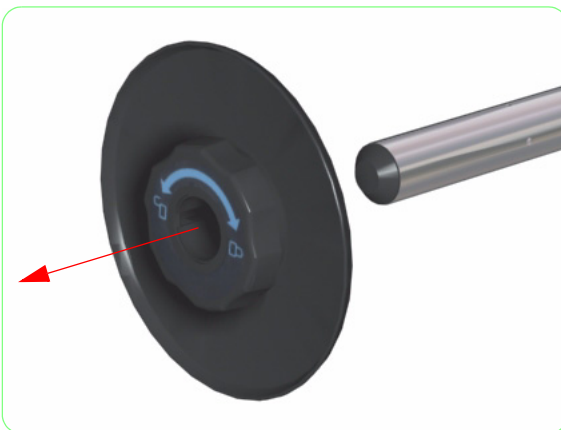
When installing the top 11 screws, make sure you tighten them starting from the center and then moving outwards.

Sub-Scroller Flange

Removal



1. Turn the Flange counter-clockwise to loosen it from the Sub-Scroller.



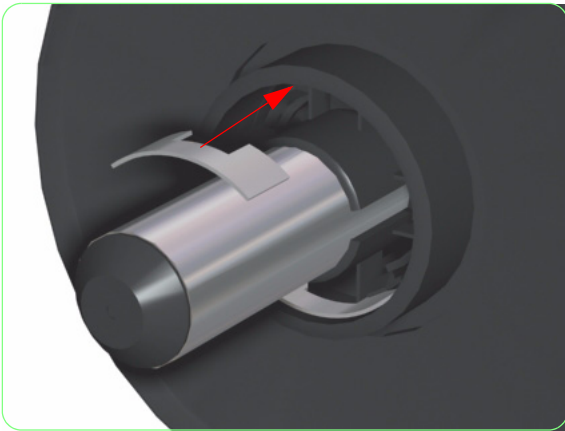
2. Remove the Flange from the Sub-Scroller.

Installation

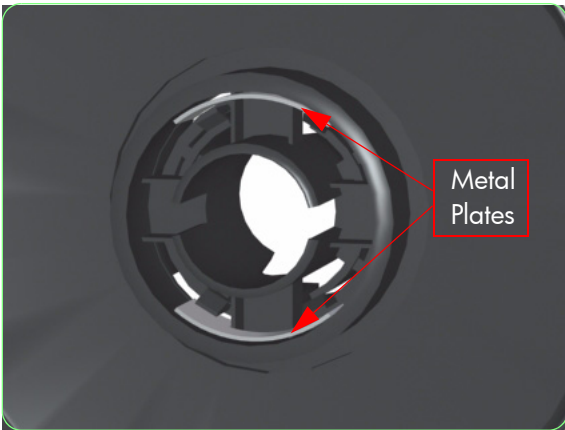
If the Locking Wheel of the Flange is unscrewed completely and is removed from the Flange, there is a risk that the two metal plates inside the Flange may fall out and that the Flange Hub will get unclipped from the Flange. If this happens, please follow these steps to re-install the parts.



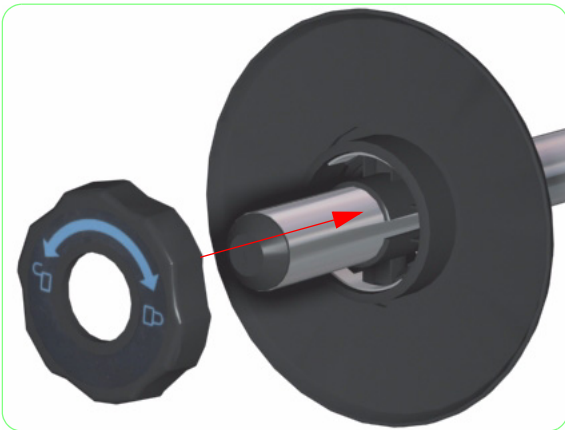
1. Align the clips of the Flange Hub with the guides on the Flange.



- 2.** Once the Flange Hub is correctly clipped into the Flange, position the two metal plates into the Flange.



- 3.** Make sure the two metal plates are securely positioned as shown.



- 4.** Screw the Locking Wheel onto the Flange.

Preventive Maintenance

9

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Preventive Maintenance

In order to keep the Printer in an optimal condition, it is recommended to perform routine maintenance. This Chapter explains the necessary procedures to be performed on a daily, weekly or monthly basis.

A Printer Maintenance Guide is supplied with the Printer which the customer must follow. The information in this Chapter is to be used as a reference for the Service Engineers in the case that the Printer Maintenance Guide is not available.

Printheads Maintenance

In order to ensure Image Quality, the Printheads in the Printer must be maintained on a frequent basis. If the Printheads are not looked after correctly, it is possible to get clogged or misdirected nozzles due to dried ink which can cause banding. If the Printhead cannot be recovered, it means the replacement of the Printhead which can be very expensive.

In order to prevent the Printhead from malfunctioning, the customer has the responsibility to:

1 Perform daily maintenance of the Printheads.

The daily maintenance is necessary to:

- Clean any dried ink that remains on the Capping or Wiping systems.
- Keep the Wiping system wet so that it can efficiently clean the Printhead's nozzle plate.

2 Don't switch Off the Printer.

The Printer has an internal clock which allows to automatically perform a fill cap operation, flushing some ink through the Printhead, which keeps the Printheads in good condition. This is done after the first 20 hours without printing and every 3 days.

If the Printer is switched Off for a long period, this process does not happen. If the ink does not flow through the Printheads from time to time, the ink will dry inside the nozzles, reaching a point where it is impossible to recover them and the Printhead will fail. This will mean an expensive Printhead replacement.

If the Printer must be switched Off for a long period of time, the customer must use either an Ink System Storage Kit to store (and protect) the Printheads or an Ink System Cleaning kit to recover the Printheads.

Tips and Tricks

- If the Printer will not be maintained for a couple of days (i.e. weekends), make sure that the customer performs the daily maintenance before switching Off the Printer.
- If a customer has not been able to perform the daily maintenance for more than one week, ask them to fill up the Wiper Sponge with Wiper Liquid, using a full syringe for each day the Printer has not been used. Also advise the customer to perform a Printhead Recovery, using a "Strong" level.

Daily Inspection and Maintenance

The following procedures should be performed on a daily basis in order to ensure acceptable print quality:

- Wiper Blade Cleaning.
- Moistening the Wiper Sponge.
- Capping Unit Cleaning.
- Waste Ink Bottle Disposal.
- Test Print.
- Normal Printhead Recovery (Only if Printheads require cleaning).

Wiper Blade Cleaning

- 1 When the "Printer Ready" message appears on the Front Panel, press the **Online** key to take the Printer offline.

PRINTER READY
ROLL: 64/PAPER

- 2 When the following screen is displayed on the Front Panel, press the **Shift** key once.

▲ INK MEDIA REG ▼
◀ MEDIA M.ADV ▶

- 3 When the following screen is displayed on the Front Panel, press the ▲ key to enter into the PH Main Menu.

▲ PH. MAIN FEED ▼
◀ PH RECOVERY ▶

- 4 In the PH Main submenu, scroll to "Wiper Cleaning" and press the **OK** key.

WIPER CLEANING
>

- 5 You will need to confirm that you want to perform the Wiper Cleaning procedure by pressing the **OK** key.

WIPER CLEANING
* OK?

- 6 The Wiper Blade will automatically come up for cleaning during which the following message will be displayed on the Front Panel.



Wiper Blade

WIPER MOVING
PLEASE WAIT

- 7 When the following message is displayed on the Front Panel, open the Rear Cover and the Wiping Door.

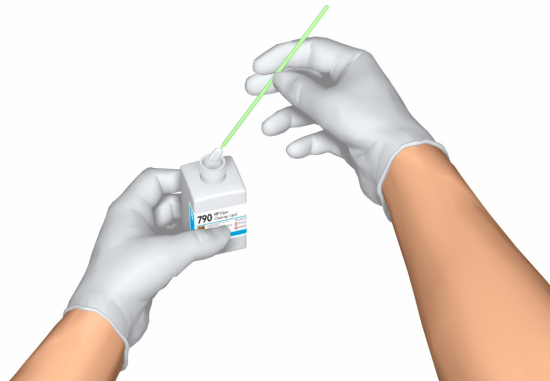


Rear Cover

OPEN REAR COVER
WIPER CLEANING

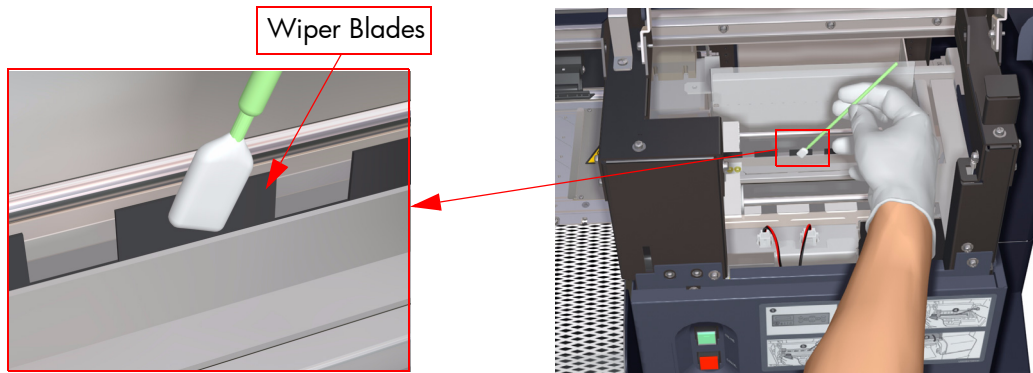
Wiping Door

- 8 Make sure that there is no dried ink stuck on the Wiper Blade. Also make sure that the Wiper Blade is not damaged.
- 9 Dip a **new** cleaning swab into the Wiper Cleaning Liquid.



Make sure that you use the Wiping Cleaning Liquid and NOT the Cap Cleaning Liquid to clean the Wiper Blade. The Cap Cleaning Liquid is not strong enough to clean the Wiper Blade properly and could cause damage to the Printheads.

- 10** Use the cleaning swab to clean the front and back parts of the Wiper Blade.



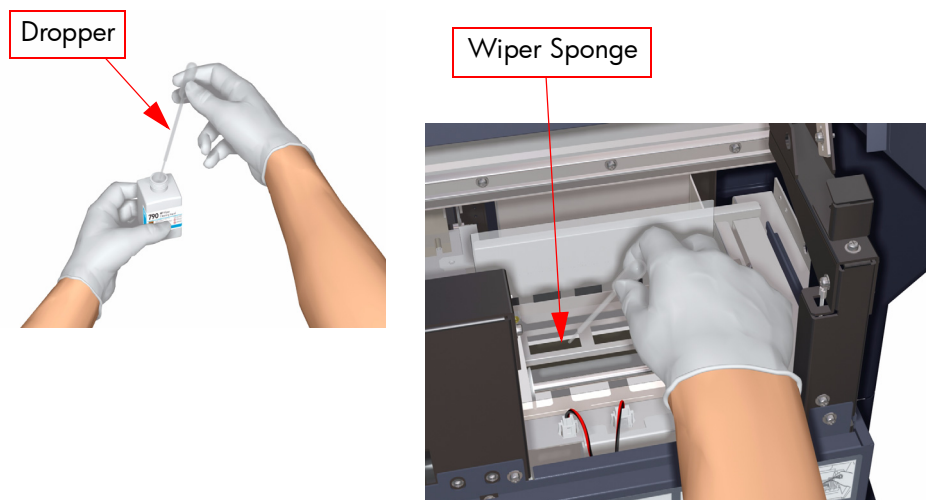
Make sure that the Wiper Cleaning Liquid does not drip on to other parts of the Printer. If the Wiper Cleaning Liquid drips on to the Belt or any nearby Sensors, this could cause serious damage to the Printer.

- 11** After the Wiping Blades have been thoroughly cleaned, close the Wiping Door and the Rear Cover to automatically return the Wiping Blades to their original position.

Moistening the Wiper Sponge

The Wiper Sponge has to always be moist so that the Wiper Blade can correctly clean the Printheads. The following should be done on a daily basis:

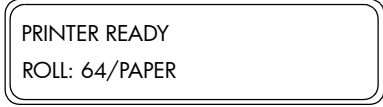
- 1** Before printing, check if the Wiper Sponge is moist by pressing a dry swab down on the sponge.
- 2** If the Wiper Sponge is dry, apply a few drops of the Wiper Cleaning Liquid on to the Wiper Sponge using the Dropper.



Make sure that the Wiper Cleaning Liquid does not drip on to other parts of the Printer. If the Wiper Cleaning Liquid drips on to the Belt or any nearby Sensors, this could cause serious damage to the Printer.

Capping Unit Cleaning

- 1 When the "Printer Ready" message appears on the Front Panel, press the **Online** key to take the Printer offline.



PRINTER READY
ROLL: 64/PAPER

- 2 When the following screen is displayed on the Front Panel, press the **Shift** key once.




▲ INK MEDIA REG ▼
◀ MEDIA M.ADV ▶

- 3 When the following screen is displayed on the Front Panel, press the ▲ key to enter into the PH Main Menu.




▲ PH. MAIN FEED ▼
◀ PH RECOVERY ▶

- 4 In the PH Main submenu, scroll to "Cap Cleaning" and press the **OK** key.




CAP CLEANING
>

- 5 You will need to confirm that you want to perform the Cap Cleaning procedure by pressing the **OK** key.



CAP CLEANING
* OK?

- 6 The Carriage will automatically move to the wiping side of the Printer so that the Capping Unit can easily be accessed, during which the following message will be displayed on the Front Panel.



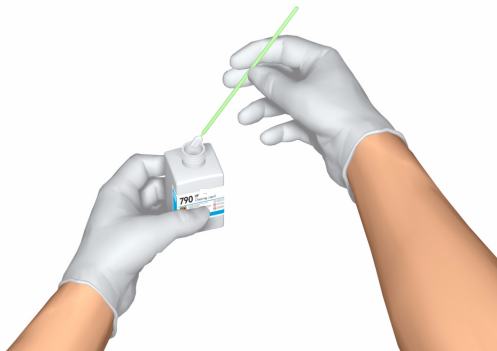
CARRIAGE MOVING
PLEASE WAIT

Once the Carriage is out of the Capping Station, the cleaning procedure should be done as quickly as possible so as not to permanently damage the Printheads. The Printer will emit an acoustic warning (beeps) while the Carriage is out of the Capping Station.

- 7 When the following message is displayed on the Front Panel, open the Rear Cover and the Capping Door.

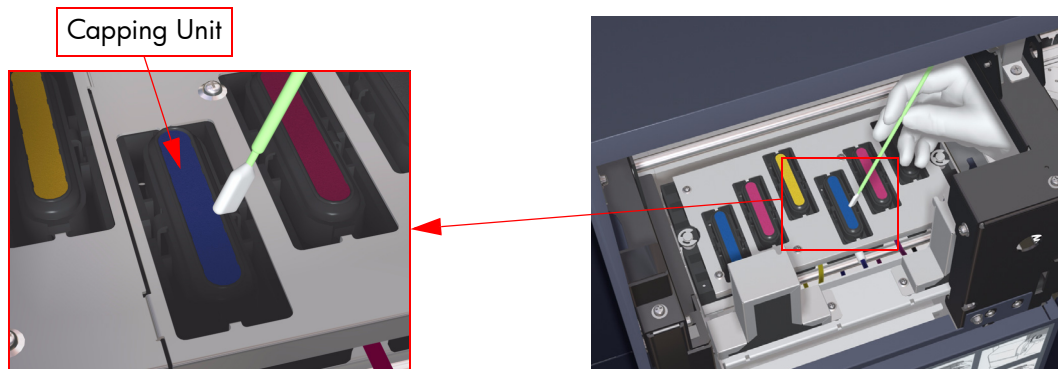


- 8 Dip a **new** cleaning swab into the Cap Cleaning Liquid.



Make sure that you use the Cap Cleaning Liquid and NOT the Wiper Cleaning Liquid to clean the Capping Unit, otherwise you could cause damage to the Printheads.

- 9 Use the cleaning swab to clean the edges and the upper surfaces of ALL six Capping Units.



Make sure that the Cap Cleaning Liquid does not drip on to other parts of the Printer. If the Cap Cleaning Liquid drips on to the Belt or any nearby Sensors, this could cause serious damage to the Printer.

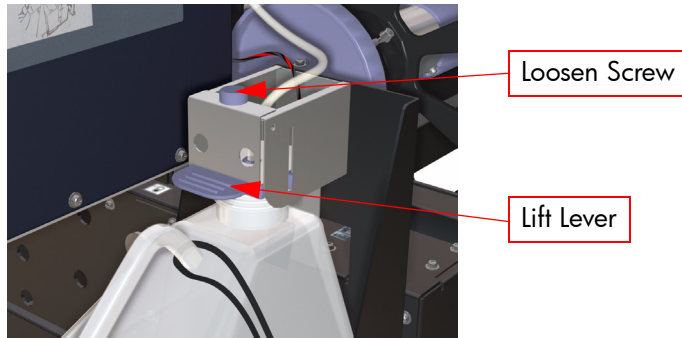
- 10 After the Capping Unit has been thoroughly cleaned, close the Capping Door and the Rear Cover to automatically return the Carriage to it's home position.

Waste Ink Bottle Disposal

The Waste Ink Bottle should be checked on a daily basis to make sure that it is not full. The Waste Ink Bottle should be emptied as follows:

It is the customer that has the responsibility to dispose of the Waste Ink whenever necessary. The ink should be disposed as industrial waste. Please refer to the Printer User's Guide for complete information (including safety notes) on waste handling and disposal instructions.

- 1 Loosen the screw and lift up the lever to release the Waste Ink Bottle.



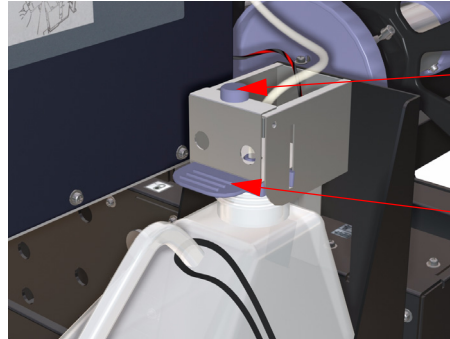
- 2 Carefully pull out the Waste Ink Bottle, taking care not to spill any on the Printer or on the floor.



- 3 Securely screw on the top on the full Waste Ink Bottle and store in a safe place until it can be taken for disposal.
- 4 Install a **new** Waste Ink Bottle into position.



- 5 Lower the lever and tighten the screw, making sure that the Waste Ink Bottle is securely in position.



Tighten Screw

Lower Lever

- 6 Once the Waste Ink Bottle is correctly installed, the Front Panel will request you to reset the Waste Counter.

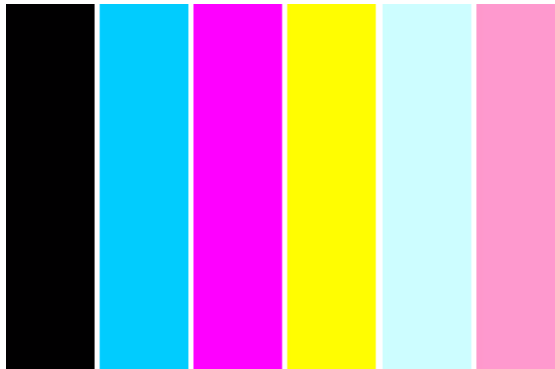
```
# BOTTLE EMPTY
* NO
```

- 7 Select "Yes" and press the **OK** key to reset the Waste Counter by indicating that the Waste Bottle is empty.

```
# BOTTLE EMPTY
* YES
```

IQ Print

The IQ Print can be used to check for Print Quality problems (like banding) and can be used to isolate the root cause of the problem.



- 1 When the "Printer Ready" message appears on the Front Panel, press the **Online** key to take the Printer offline.

PRINTER READY
ROLL: 64/PAPER

- 2 When the following screen is displayed on the Front Panel, press the **Shift** key twice.

▲ INK MEDIA REG ▼
◀ MEDIA M.ADV ▶

- 3 When the following screen is displayed on the Front Panel, press the ◀ key to enter into the Adjust Menu.

▲ PRINTER SETUP ▼
◀ ADJUST

- 4 In the Adjust submenu, scroll to "Test Prints" and press the **OK** key.

TEST PRINTS
> IQ PRINT

- 5 In the Test Prints submenu, scroll to "IQ Print" and press the **OK** key.

TEST PRINTS
* IQ PRINT

- 6 You will need to confirm that you want to print the IQ Print by pressing the **OK** key.

TEST PRINTS
* IQ PRINT OK?

- 7 The Printer will start to print the IQ Print and the following message will appear on the Front Panel.

```
# TEST PRINTS
* EXECUTING
```

- 8 The IQ Print can be cancelled at any time by pressing the **Cancel** key.

```
# TEST PRINTS
* CANCELING
```

If problems are found in the IQ Print, try the following:

- If the problem detected is banding in one or several colors, it is recommended to perform the Printhead Recovery procedure.
- If the problem detected is banding across ALL the colors, it is recommended to perform the Media Advance adjustment on the media that is currently being used ⇒ Refer to the User's Guide.
- For further information regarding Print Quality problems, please refer to Chapter 6 - Print Quality.

Normal Printhead Recovery

Printhead Recovery should be performed only if a Print Quality defect has been found in the IQ Print. Otherwise, Printhead Recovery should only be performed once a month.

- 1 When the "Printer Ready" message appears on the Front Panel, press the **Online** key to take the Printer offline.

```
PRINTER READY
ROLL: 64/PAPER
```

- 2 When the following screen is displayed on the Front Panel, press the **Shift** key once.

```
▲INK          MEDIA REG▼
◀MEDIA        M.ADV▶
```

- 3 When the following screen is displayed on the Front Panel, press the ◀ key to enter into the PH Recovery Menu.

```
▲PH. MAIN    FEED▼
◀PH RECOVERY ▶
```

- 4 In the PH Recovery submenu, press the **OK** key.

```
# PH RECOVERY
> NORMAL ALL
```

- 5 In the PH Recovery submenu, select the level of recovery you would like and then press the **OK** key.

PH RECOVERY
* NORMAL ALL

Recommended cleaning
level is NORMAL

The different levels of Printhead Recovery are as follows:

- Normal All - Activates a normal recovery for all Printheads.
 - Strong All - Activates a strong recovery for all colors.
 - Strong K, Lm, Lc - Activates a strong recovery for the Black, Light Magenta and Light Cyan Printheads.
 - Strong Y, M, C - Activates a strong recovery for the Yellow, Magenta and Cyan Printheads.
- 6 You will need to confirm that you want to perform the selected Printhead Recovery procedure by pressing the **OK** key.

PH RECOVERY
* OK?

- 7 When the following message appears on the Front Panel, check whether the Waste Ink Bottle is present and is NOT full. Press the **OK** key once the Waste Ink Bottle has been checked.

PH RECOVERY
* BOTTLE OK?

- 8 The Carriage will begin to perform the recovery process by pumping ink through the Printheads and performing the wiping procedure in order to unblock any nozzles that could be blocked. During the recovery process, the following message will be displayed on the Front Panel.

PH RECOVERY
* EXECUTING XXX

- 9 Once the recovery process has finished, the Front Panel will return to the following screen.

PH RECOVERY
> NORMAL ALL

When Leaving the Printer Off for more than 2 weeks

It is important to remember that the Printer should not be switched Off so that the Printer can automatically trigger the internal Printhead maintenance procedures to prevent the Printheads from failing.

But there might be certain circumstances where the Printer needs to be switched Off for a long period of time. In order to do this, the customer must follow the storage procedure using the HP 790 Ink System Storage Kit together with the internal storage option. This procedure replaces the ink from the Ink System with a lower solvent liquid which will maintain the health of the Printheads, preventing them from failing.

Before leaving the printer switched Off for more than 2 weeks, perform the Store Ink System procedure ⇒ Page 4-30.

In order to perform the Service Clean procedure, you will need the HP 790 Ink System Storage Kit (part number CB297A). This kit includes:

- Six Ink System Purging Cartridges.
- Six Ink System Storage Liquid Cartridges.

If the Printer is switched On after leaving it switched Off for more than one month (31 days), Error Code 11E0 will be displayed on the Front Panel.

When Returning to the Printer after more than 2 weeks

When returning to the Printer, a Printhead recovery procedure will need to be done using the Ink System Cleaning Kit together with the Printhead Wash option to clean the Ink System from the maintenance liquid. Once the Ink System is cleaned, the Ink Charge option is used to refill the Ink System with regular ink.

After returning to the Printer after leaving it switched Off for more than 2 weeks, perform the following:

- Daily Maintenance ⇒ Page 9-3.
- Clean Ink System ⇒ Page 4-36.
- Charge Ink ⇒ Page 4-25.

In order to perform the Clean Ink System procedure, you will need the HP 790 Ink System Cleaning Kit (part number CB296A). This kit includes:

- Six Ink System Purging Cartridges.
- Six Ink System Cleaning Liquid Cartridges.

If the Printer is Switched Off for less than 2 weeks

If a customer accidentally leaves the Printer switched Off for less than 2 weeks, they will be able to recover the Printheads if the nozzles have been blocked with dried ink. The success of recovering the Printheads will depend on how long the Printer has been left switched Off. If the Printer has been switched Off for longer than 2 weeks, it could mean the replacement of some or ALL of the Printheads.

After returning to the Printer after leaving it switched Off for less than 2 weeks, perform the following:

- Daily Maintenance ⇒ Page 9-3.
- Clean Ink System ⇒ Page 4-36.
- Charge Ink ⇒ Page 4-25.


In order to perform the Clean Ink System procedure, you will need the HP 790 Ink System Cleaning Kit (part number CB296A). This kit includes:

- Six Ink System Purging Cartridges.
- Six Ink System Cleaning Liquid Cartridges.

If the Printer is Switched Off for more than one Month

If the Printer is switched On after leaving it switched Off for more than one month (31 days), Error Code 11E0 will be displayed on the Front Panel. In order to clear this Error Code, perform the following:

- 1 Turn the Printer ON in error skip mode by holding down the **Cancel** and **Shift** keys and pressing the ON button.
- 2 When the following screen is displayed on the Front Panel, you will be requested to enter a password. Press the following keys in this order: ◀, ▶, **Shift** and **OK**.



MAINTENANCE MODE
PASSWORD?

- 3 Switch the Printer OFF and then ON again.

Preventive Maintenance Strategy

The solvents that are used by the printer are aggressive liquids, and components that come into contact with the solvents need to be replaced periodically. To avoid image-quality issues and to ensure that the printer functions correctly, the printer tracks usage and notifies the user when the components need to be replaced.

When maintenance is required, a front panel message is shown:

SERVICE NEEDED
XXXXXXXXXX

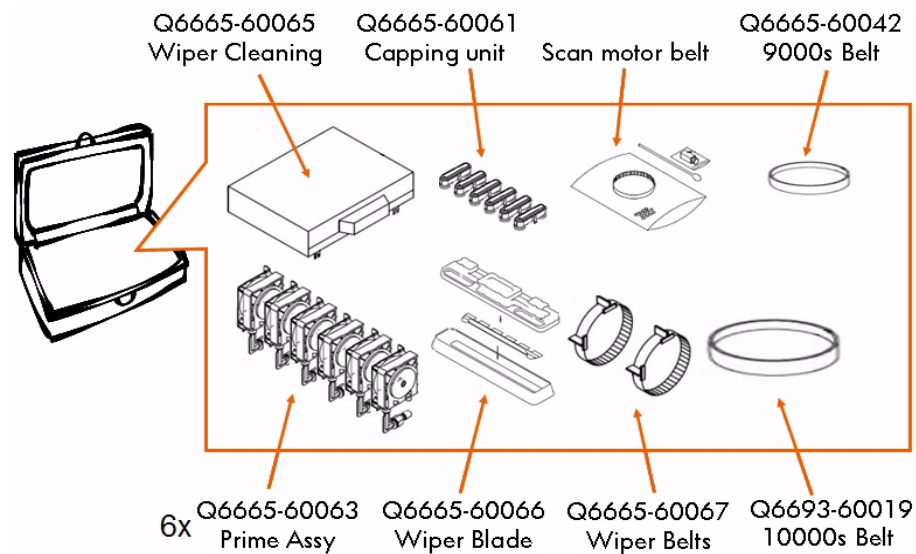
Likewise, the error LED blinks until corrective action is performed and the maintenance counters are reset.



The user can continue printing after the front-panel maintenance message is shown and the error LED is blinking; however, doing so will jeopardize image quality and might damage the printer. HP strongly recommends that the user call an HP representative to arrange for an on-site preventive-maintenance visit.

Preventive Maintenance Kit

With normal use, the printer components will fail at approximately the same time. To reduce printer downtime and the need for multiple maintenance visits, the 9000s/10000s Preventive Maintenance Kit (Q6665-60083) is available. The kit contains all of the components necessary to perform full printer maintenance in one maintenance session.



Preventive Maintenance Warnings and Counters

The following tables explain the specific maintenance warnings. The table headings are defined as follows:

- Front panel warning - The front panel message that indicates the need for maintenance.
- Trigger event - An event which is tracked by the printer and used as a maintenance indicator. The front panel warning appears when the trigger event reaches its warning limit.
- Warning limit - The number of trigger-event occurrences before a front panel warning is shown.
- Stop limit - The number of trigger-event occurrences before the printer stops functioning.
- System error message - Displays the system error code

As a result of testing and data gathering, printers running firmware versions 1.10_10 or earlier have slightly different values than printers running firmware versions 1.20_10 and later.

Firmware versions 1.10_10 or earlier

The table below identifies the maintenance warnings for firmware version 1.10_10 or earlier.

Front panel warning	Trigger	Warning limit	Stop limit	System error message
SERVICE NEEDED SCAN AXIS BELT	Printing carriage scans performed	1,100,000	NA	NA
SERVICE NEEDED CAPPING UNIT	Up/down capping cycles performed	10,000	NA	NA
SERVICE NEEDED ALL PRIME ASSY	Gears moving time	200,000 sec	210,000 sec	SYSTEM ERROR 1290 POWER OFF/ON
SERVICE NEEDED WIPER CLEANING	Time from the last replacement	12 months	NA	NA
SERVICE NEEDED WIPER BLADE	Number of wipes performed	30,000	NA	NA
SERVICE NEEDED WIPER BELT	Time from the last replacement	12 months	NA	NA

Front panel warning	Trigger	Warning limit	Stop limit	System error message
SERVICE NEEDED XX PUMP TUBE	Gears moving time	200,000 sec	210,000 sec	SYSTEM ERROR 12AX POWER OFF/ON

You can see the current values for the printer in the configuration print and in the **Counters** menu, which is accessed from the **Maintenance** mode.

Firmware versions 1.20_10

The table below identifies the maintenance warnings for firmware version 1.20_10.

Front panel warning FW 1.10_10	Front panel warning FW 1.20_10	Trigger	Warning limit	Stop limit	System error message
SERVICE NEEDED SCAN AXIS BELT	SERVICE NEEDED CALL SERVICE	Printing carriage scans performed	1,100,000	NA	NA
SERVICE NEEDED CAPPING UNIT	SERVICE NEEDED CALL SERVICE	Up/down cycles performed	20,000	NA	NA
SERVICE NEEDED ALL PRIME ASSY	SERVICE NEEDED CALL SERVICE	Gears moving time	250,000 sec	265,000 sec	SYSTEM ERROR 1290 POWER OFF/ON
SERVICE NEEDED WIPER CLEANING	ELIMINATED	ELIMINATED	NA	NA	NA
SERVICE NEEDED WIPER BLADE	SERVICE NEEDED CALL SERVICE	Number of wipes performed	30,000	NA	NA
SERVICE NEEDED WIPER BELT	ELIMINATED	ELIMINATED	NA	NA	NA
SERVICE NEEDED XX PUMP TUBE	SERVICE NEEDED CALL SERVICE	Gears moving time	NA	262,500 sec	SYSTEM ERROR 12AX POWER OFF/ON

In firmware version 1.20_10, all of the warning limits and stop limits are based on printer usage instead of elapsed time. You can see the current values for the printer in the configuration print and in the **Counters** menu,

which is accessed from the **Maintenance** mode.

Preventive maintenance messages and actions

For printers running firmware version 1.10_10 or earlier, the front panel shows the following warning messages after 12 months have elapsed:

SERVICE NEEDED
WIPER CLEANING

SERVICE NEEDED
WIPER BELT

If a customer reports that the front panel is showing one or both of these warning messages, a firmware upgrade should be recommended. When the firmware has been upgraded, these warning messages should no longer appear.

If either of these warning messages persists after the firmware has been upgraded, try the following remedies:

- Use the 9000s/10000s Service Preventive Maintenance Kit (Q6665-60083) and perform all of the recommended maintenance tasks.
- After using the kit to perform the maintenance tasks, reset all of the preventive maintenance counters except the pump tube counter, which is not replaced during preventive maintenance.

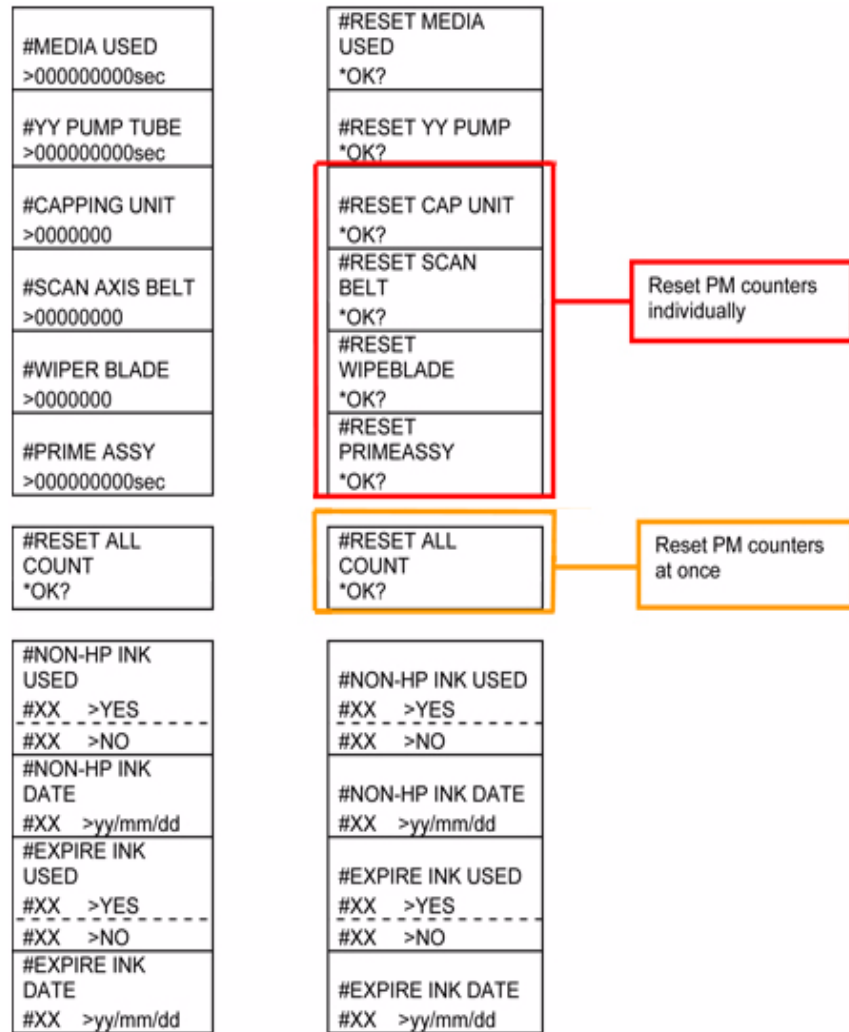
For printers running version 1.20_10, the front panel shows the following warning message when service is needed:

SERVICE NEEDED
CALL SERVICE

Check, modify, and reset the preventive maintenance counters

To check, modify, and reset the preventive maintenance counters, enter the

Maintenance mode and select the **Counter** menu.



About this Edition

This is the 2nd edition of this Service Manual

1st edition, titled

HP Designjet 10000s Series Printers Service Manual (Model Q6693A) -
September 2006

2nd edition, titled

HP Designjet 10000s Series Printers Service Manual (Model Q6693A) -
March 2007

What's in this Service Manual

This manual contains information necessary to test, calibrate and service:

- HP Designjet 10000s Series Printers (Model Q6693A).

For information about using these printers, refer to the corresponding User Guide.

The procedures described in this manual are to be performed by HP-qualified Service Personnel only.

