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# Removal and Installation

# 8

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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.*

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<b>NOTE</b>	<b>THE INSTRUCTIONS IN THIS CHAPTER APPLY BOTH TO THE DESIGNJET 5000 AND 5500 SERIES UNLESS OTHERWISE NOTED. EVEN THOUGH THE ILLUSTRATIONS ARE SHOWN USING THE DESIGNJET 5000 SERIES, THESE ARE ALSO APPLICABLE TO THE DESIGNJET 5500 SERIES.</b>
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<b>NOTE</b>	<b>Before using this chapter to remove and/or replace a component or assembly, always make sure that you have performed the relevant service test for each component as described in 4, <i>Service Tests and Utilities</i>. If the test passes you will not need to replace the component.</b>
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<b>NOTE</b>	<b>To install a component perform the removal procedures in reverse order unless a specific installation procedure is provided.</b>
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<b>NOTE</b>	<b>After removing and/or replacing a component, the relative procedure will state whether any calibrations and/or tests are required (Chapter 5, <i>Service Calibrations</i>).</b>
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### Safety Precautions

*(Safety symbols - Immediately after the table of contents.)*

*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.*

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<b>WARNING</b>	<b>Serious shock hazard leading to death or injury may result if you do not take the following precautions:</b>
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**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.**

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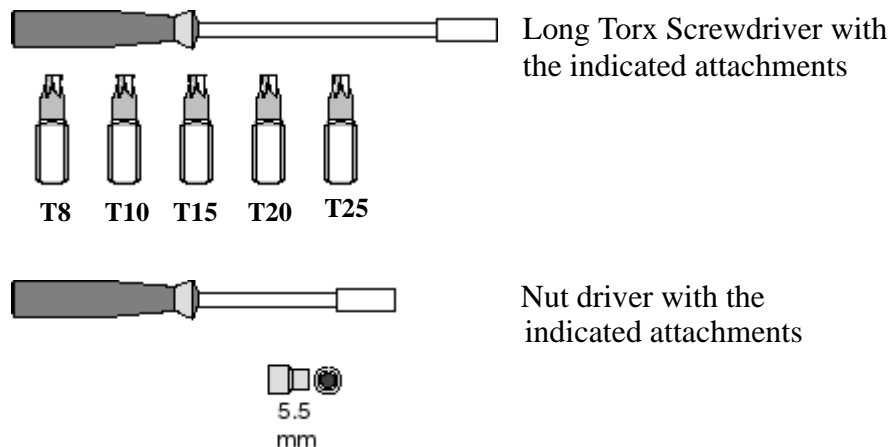
## Electrostatic Discharge (ESD) Precautions

*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.

## Required Tools

The following tools are required to disassemble and repair the Printer.



## Screw Types

### **WARNING**

Chassis screws have a copper washer and should never be removed.

Type	Torx	Length (mm)	Head Type	Thread Type	Part Number
A	T-20	17	Pan	Taptite	0515-1743
B	T-15	12	Pan	Machined	0515-0382
C	T-20	10	Pan	Taptite	0515-2282
D	T-15	12.5	Pan Washer	Plastite	0515-3040
E	T-15	12.7	Pan	Plastite	0624-0769
F	T-15	20	Pan	Plastite	0624-0771
G	T-8	12.7	Pan	Plastite	0624-0768
H	T-15	9.5	Pan	Plastite	0515-2981
I	T-10	7.5	Flat	Taptite	0515-2984
J	T-15	27.4	Pan	Machined	0515-2986
K	T-10	8	Pan	Taptite	0515-2200
L	T-20	14	Pan	Taptite	0515-2248
M	T-15	-	Flat	Taptite	0515-2250
N	T-15	24	Flat	Machined	C6071-20026
O	T-15	10	Pan Washer	Machined	0515-0380
P	T-10	8	Pan	Machined	0515-2246
Q	T-20	10	Pan Washer	Taptite	0515-2278
R	T-10	8	Flat	Countersunk	2200-1294
S	T-25	54	Pan	Machined	C6071-20005
T	T-20	20	Pan	Machined	C3180-20001
U	T-25	10	Pan	Taptite	0515-4268
V	T-8	14	Pan	Machined	0624-0737

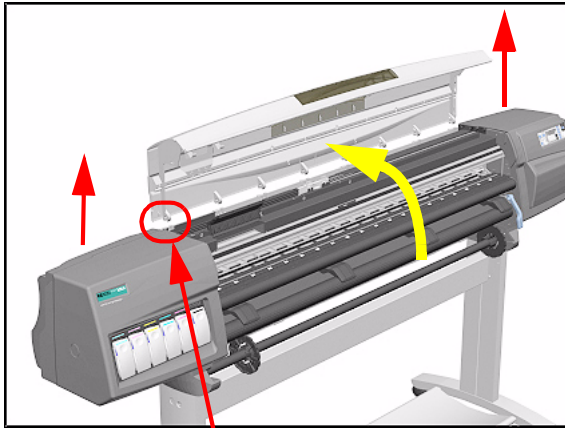


## Top Cover Assembly

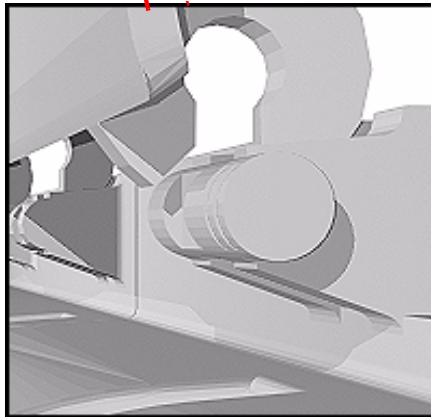
### Removal

#### **WARNING**

Switch off the Printer and remove the power cable.



1. Open the Top Cover and lift UP and remove from Printer (see detail of hinge mechanism below).



#### **NOTE**

Detail of hinge mechanism.

## Left Hand Cover

### Removal

#### **WARNING**

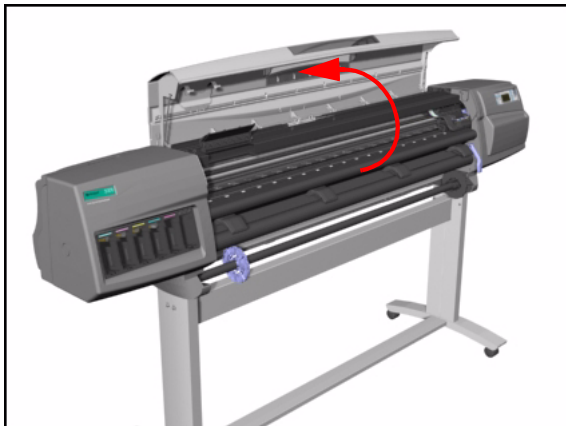
Switch off the Printer and remove the power cable.

#### **NOTE**

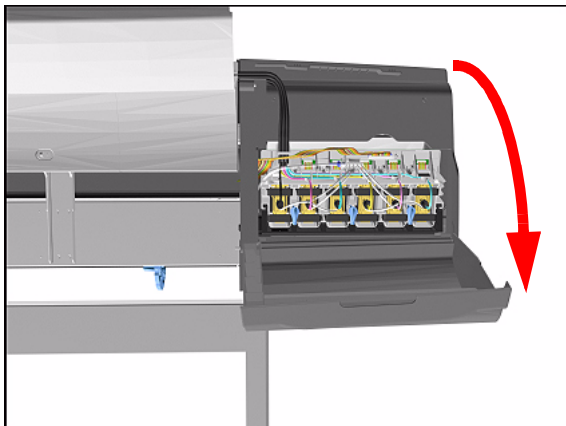
Refer to the table on Page 8-4 for information on screw types.



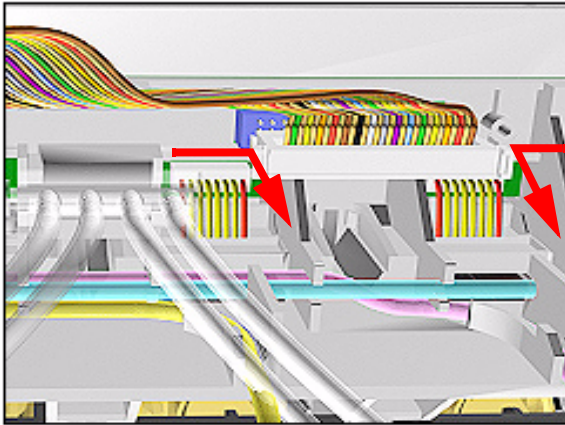
1. Remove ALL the Ink Cartridges from the Printer.



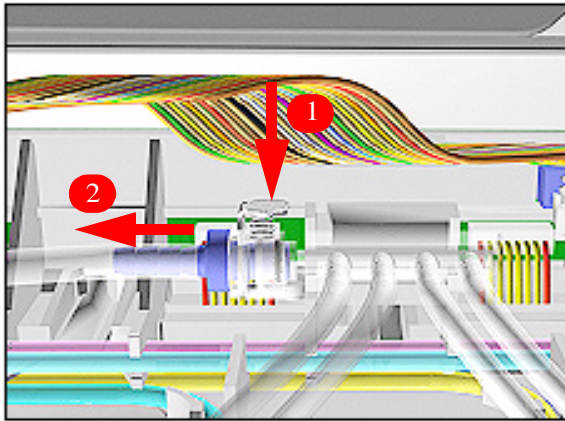
2. Open the Top Cover.



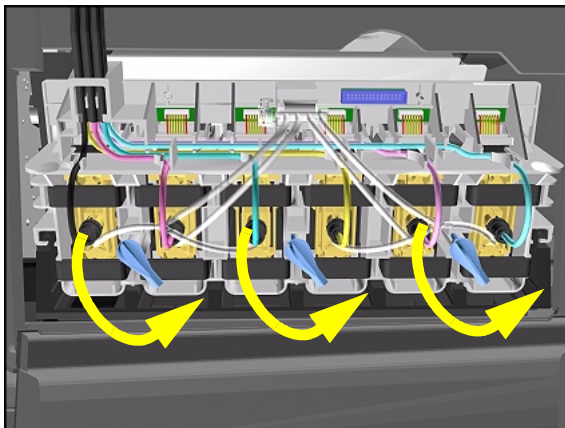
3. Open the door at the back of the Left Hand Cover.



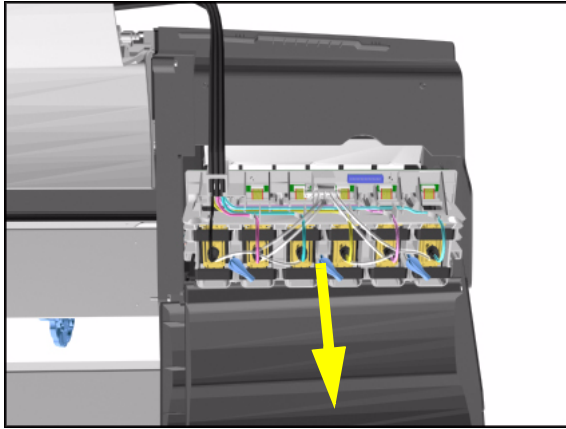
4. Disconnect the Electrical Cable from the rear of the Ink Cartridge Tube Connector.



5. Disconnect the Air Tube.



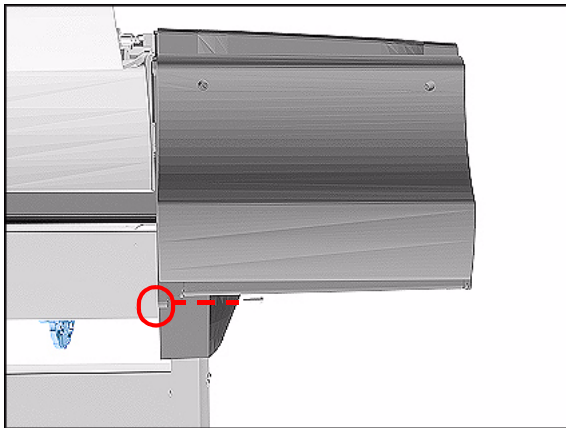
6. Twist the 3 latches at the rear of the Ink Cartridge Tube Connector and release the complete Assembly.



7. Remove the Ink Cartridge Tube Connector and place safely on the window.



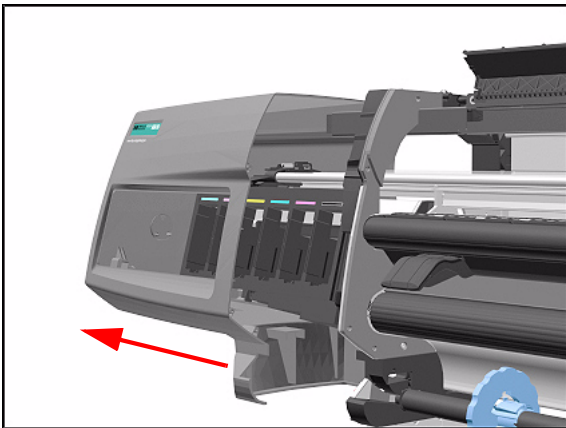
8. Remove 1 T-15 screw (**Type F**) from the Left Hand Cover (rear).



9. Close the Left Back door and remove 1 T- 25 screw (**Type U**) from bottom side (rear) of Left Hand Cover.



- 10.** Remove 3 T-15 screws (**Type F**) from the Left Hand Cover (front).



- 11.** Remove the Left Hand Cover from the Printer.

### Installation of Left Hand Cover

#### **WARNING**

When handling the Tubes make sure you do not damage them by twisting.

#### **WARNING**

When inserting the Left Hand Cover, be careful not to pinch/ twist the air tube or the electrical cable.

## Right Hand Cover

### Removal

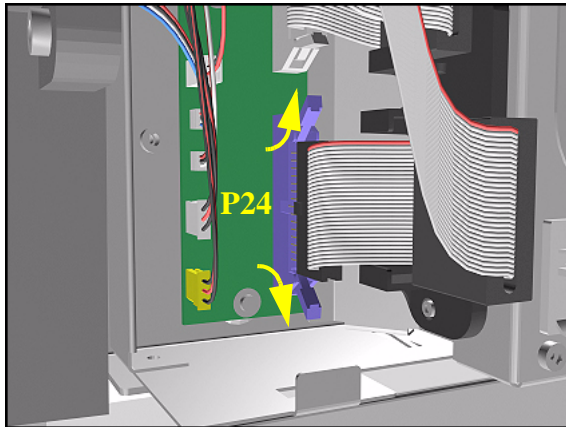
**WARNING** Switch off the Printer and remove the Power Cord.

**WARNING** To remove the Right Hand Cover you must open the Right Cover door and push in the Printhead Cleaner Carriage.

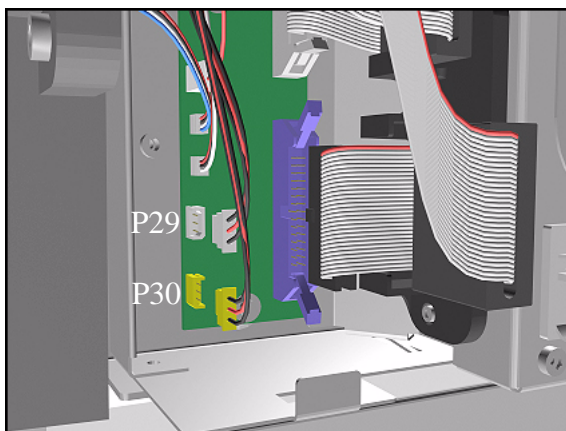
**NOTE** Refer to the table on Page 8-4 for information on screw types.

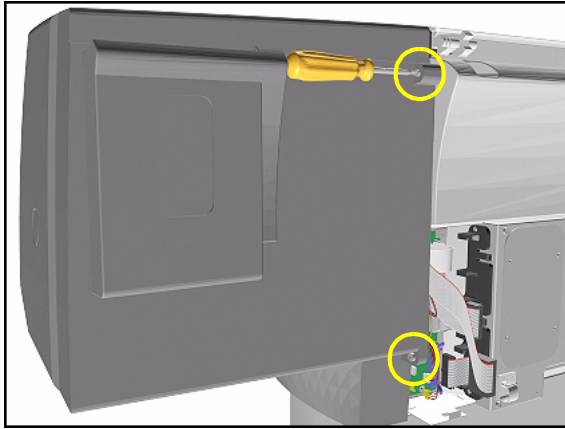
1. Remove the Right Rear Cover - Refer to Page 8-16.

2. Remove the Ferrite (if present) and disconnect the Front Panel cable from the Main PCA (P24) from the left side of the Electronics Module.

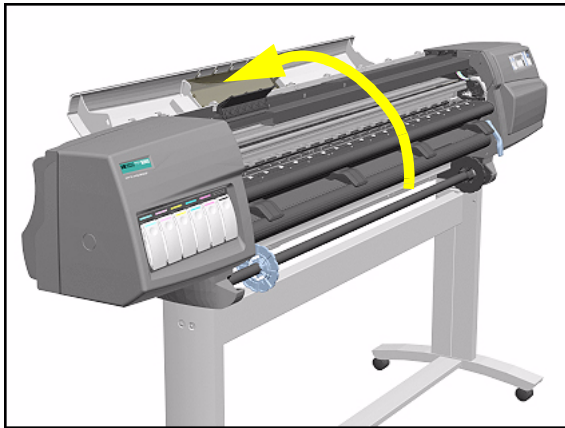


3. On the Main PCA, disconnect the Aerosol Fan cable from position P30 and the service station door from position P29.

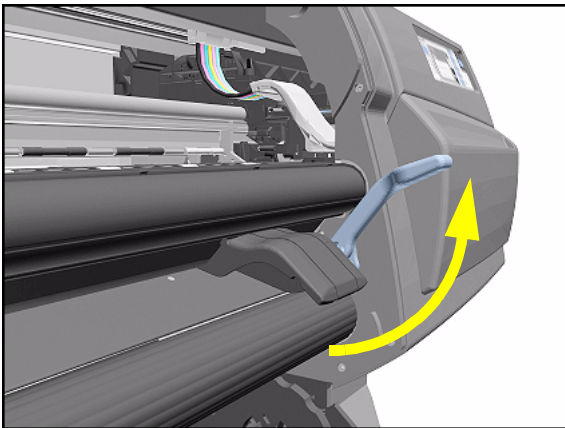




4. Remove 1 T-15 screw (**Type F**) and 1 T-25 screw (**Type U**) (bottom) from the rear of the Right Hand Cover.



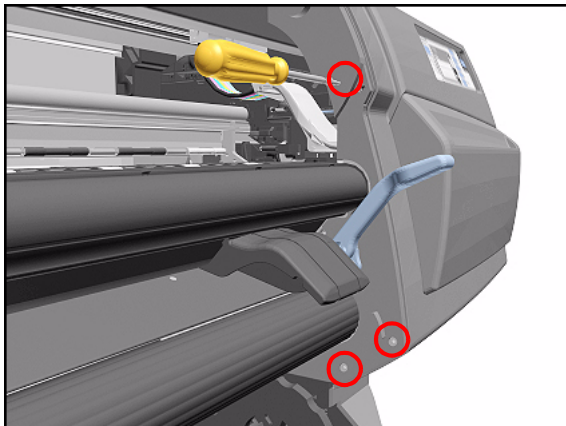
5. Open the Top Cover.



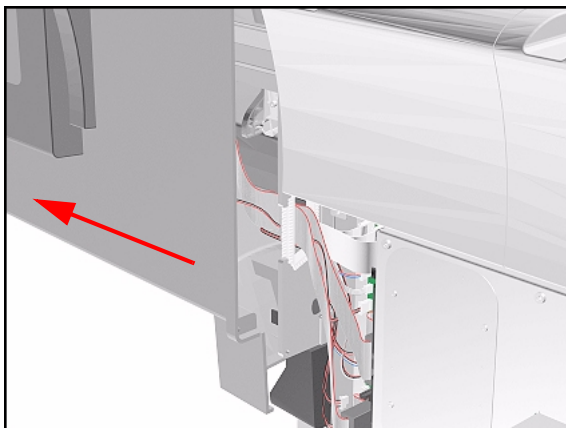
6. Raise the Media Lever.



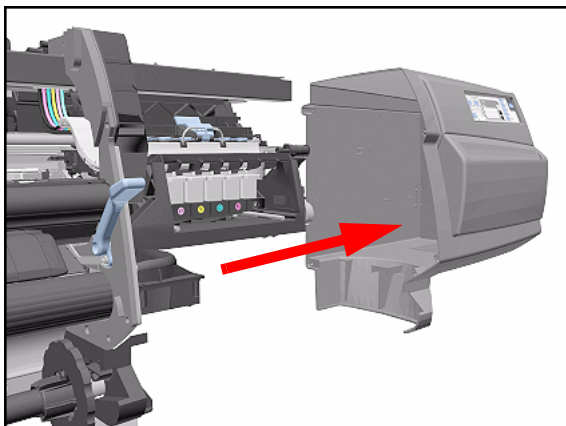
**NOTE** Take care not to drop the Cover when removing the screws. Support the Cover throughout the next step.



7. Remove 3 T-15 (**Type F**) screws from the front of the Right Hand Cover.

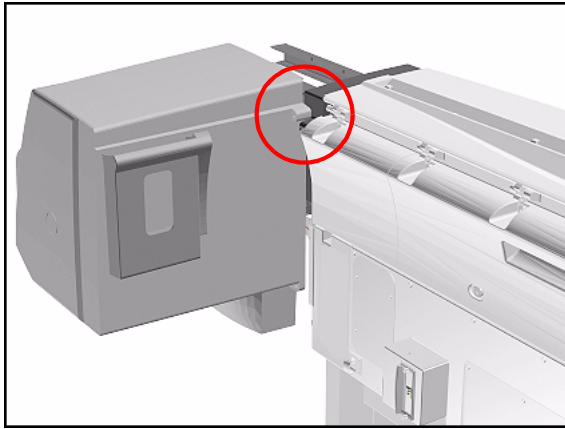


8. To release the cables, **carefully** pull out the Right Hand Cover until the cables can be accessed.



9. Remove the Right Hand Cover.





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**TIP** To check correct functioning of serviced parts on the Printer axis you can do the following:

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- a Reinsert the top T-15 screw (**Type F**) at the rear of the Printer.
- b Hang the Cover on the screw.
- c Connect all cables at the Rear of the Right Cover and turn on the Printer.

## Installation of Right Hand Cover

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**NOTE** Make sure the Front Panel cable and the Aerosol Fan cables are secured inside the Right Hand Cover with cable clamps and retaining pins.

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**WARNING** Make sure cables pass through slot at rear of chassis on the right hand side otherwise the Cover cannot be properly installed and cables may be damaged.

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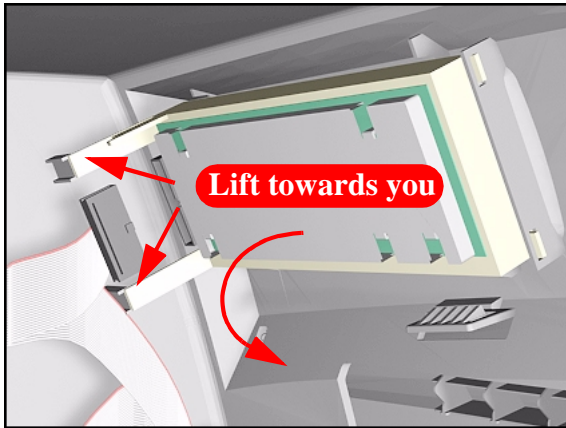
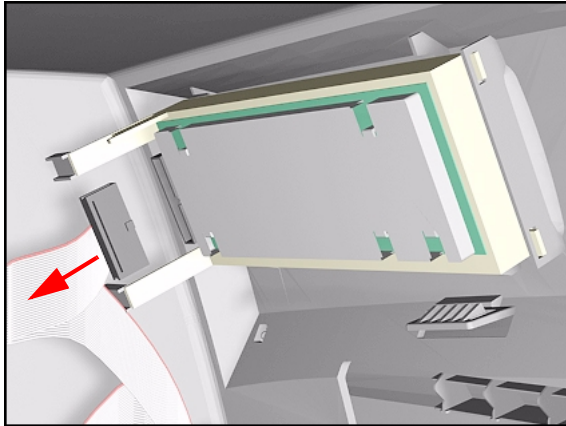
## Front Panel Assembly

### Removal

#### **WARNING**

**Switch off the Printer and remove the Power Cord.**

1. Remove Right Rear Cover - Refer to Page 8-15.
2. Remove Right Hand Cover - Refer to Page 8-10.
3. Disconnect the cable from Front Panel.



4. Unclip Front Panel supports inside the Right Hand Cover and remove.

## Left Rear Cover

### Removal

#### **WARNING**

Switch off the Printer and remove the Power Cord.

#### **NOTE**

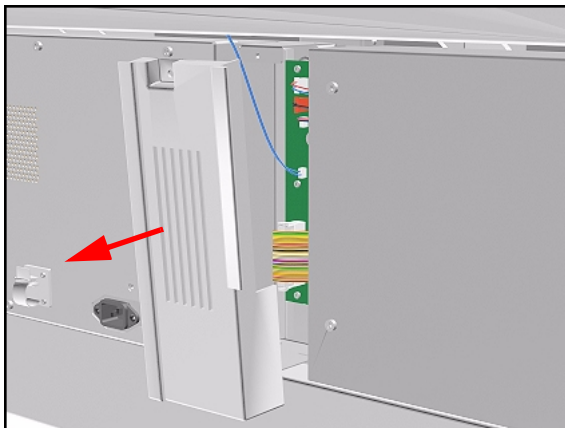
Refer to the table on Page 8-4 for information on screw types.



1. Remove one T-15 screw (**Type B**) from the Left Rear Cover.

#### **NOTE**

Support the Cover as it is released.



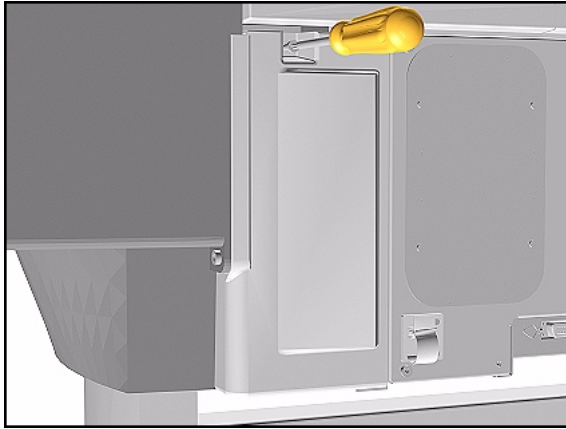
2. Remove the Left Rear Cover.

## Right Rear Cover

### Removal

**WARNING** Switch off the Printer and remove the Power Cord.

**NOTE** Refer to the table on Page 8-4 for information on screw types.



1. Remove one T-15 screw (**Type B**) from the Right Rear Cover.

**NOTE** Support the Cover as it is released.

2. Remove the Right Rear Cover.

## Extension Cover (60" Model only)

### Removal

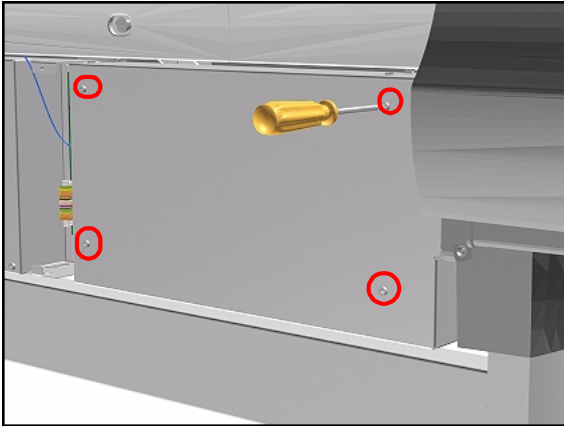
**WARNING**

Switch off the Printer and remove the Power Cord.

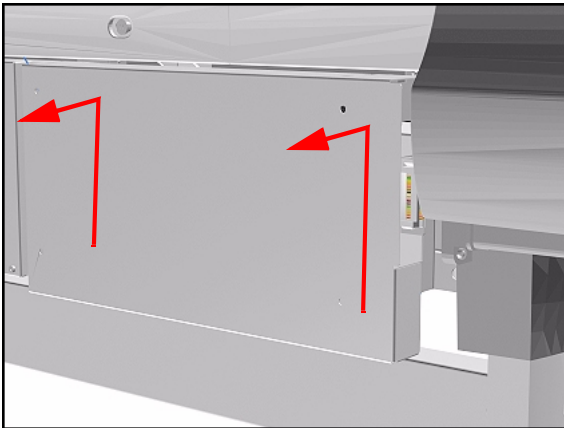
**NOTE**

Refer to the table on Page 8-4 for information on screw types.

1. Remove the Left Rear Cover - Refer to Page 8-15.
2. Remove 4 T-15 screws (**Type B**) from the Extension Cover.



3. Lift the Cover and remove from the Printer.



## Media Lever Assembly

### Removal

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**WARNING**

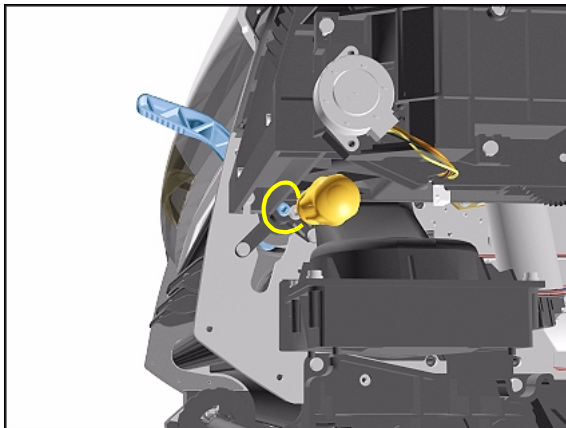
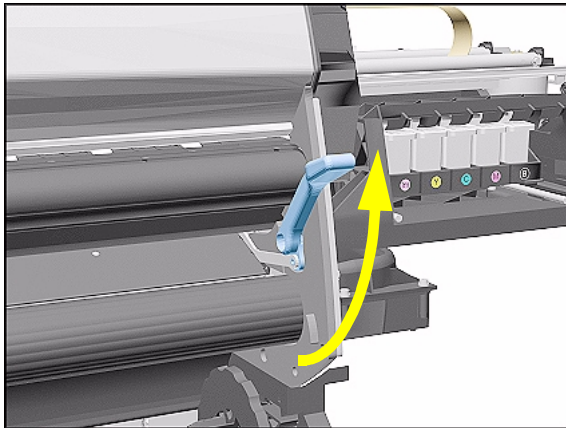
Switch off the Printer and remove the Power Cord.

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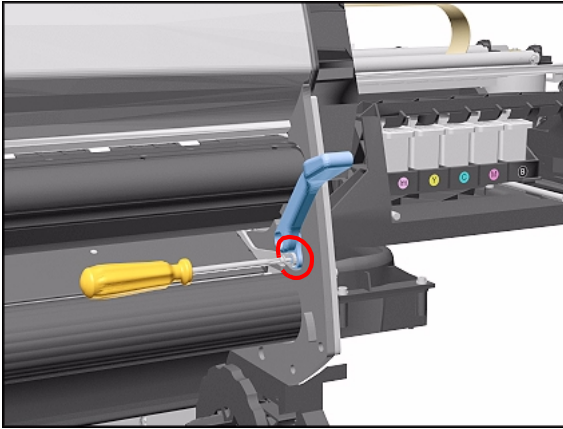
**NOTE**

Refer to the table on Page 8-4 for information on screw types.

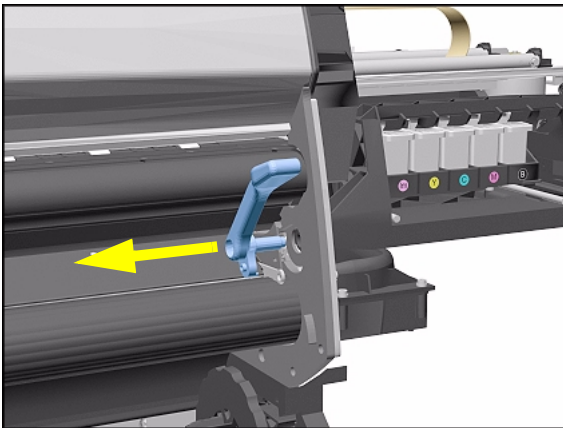
1. **Only applicable to the DesignJet 5000 Series** - Remove the Deflector closest to the Right Cover - Refer to Page 8-119.
2. Remove the Right Hand Cover - Refer to Page 8-10.
3. Raise the Media Lever.



4. Remove 1 T-15 screw (**Type D**) from the support that attaches the Media Lever to the Sideplate.



5. Remove 1 T-15 screw (**Type H**) that attaches the Lever Arm to the Lever.

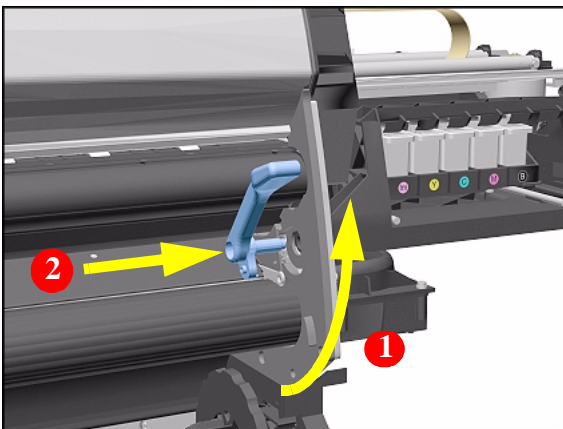


6. Remove the Media Lever.

## Installation of the Media Lever Assembly

### **WARNING**

When installing the Media Lever, you must insert it in the Trim and Sideplate in the UP position to avoid damaging the Lever Spring in the Trim.



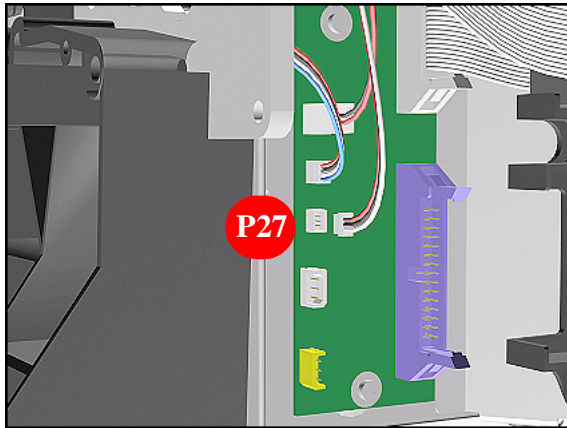
## Right Hand Trim

### Removal

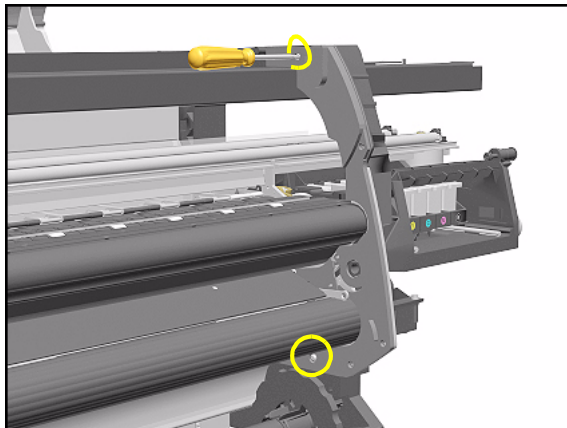
**WARNING** Switch off the Printer and remove the Power Cord.

**NOTE** Refer to the table on Page 8-4 for information on screw types.

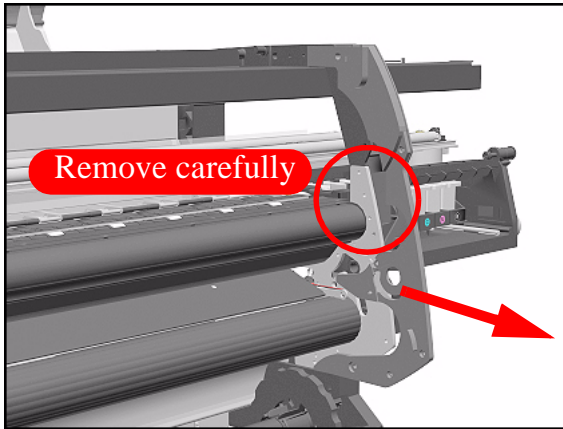
1. Remove Right Rear Cover - Refer to Page 8-16.
2. Remove Right Hand Cover - Refer to Page 8-10.
3. Remove Media Lever Assembly - Refer to Page 8-18.
4. Disconnect the Sensors cable from position P27 on the Main PCA.



5. Remove 1 T-15 screws (**Type F**) and 1 T-20 (**Type L**) from the Right Hand Trim.





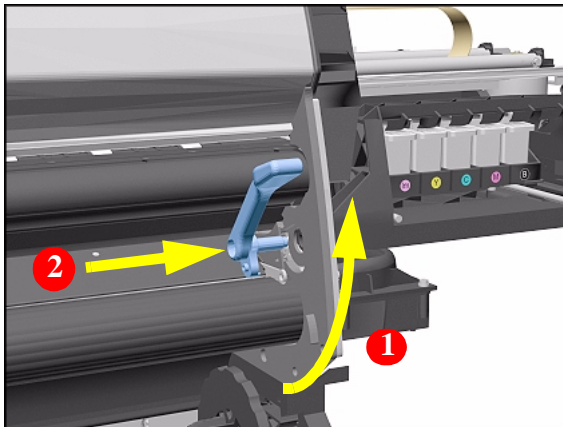


6. Carefully remove the Right Hand Trim.

### Installation of Right Hand Trim

#### **WARNING**

When installing the Media Lever in the Trim, install with the Lever in the UP position to avoid damaging the Lever spring in the Trim.

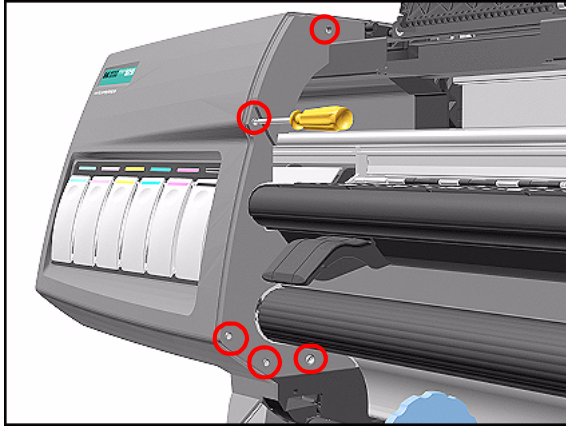


## Left Hand Trim

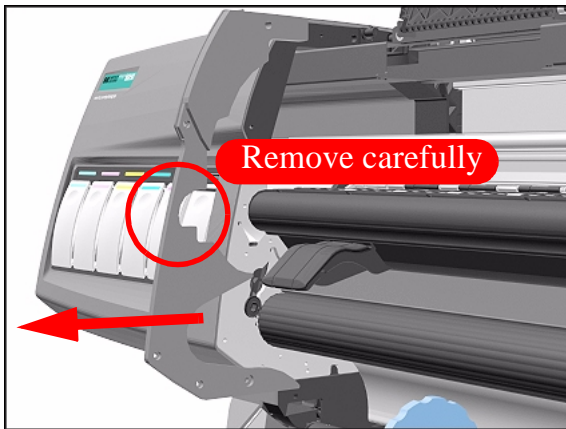
### Removal

**WARNING** Switch off the Printer and remove the Power Cord.

**NOTE** Refer to the table on Page 8-4 for information on screw types.



1. Remove 4 T-15 screws (**Type F**) and 1 T-20 screw (**Type L**) from the Left Hand Trim.



2. Carefully remove the Left Hand Trim.

## Back Cover

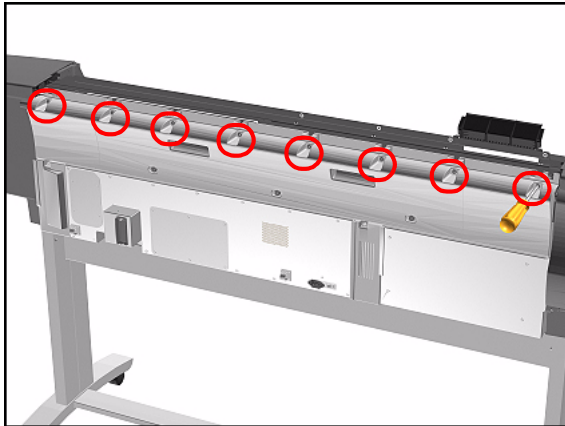
### Removal

**WARNING**

Switch off the Printer and remove the Power Cord.

**NOTE**

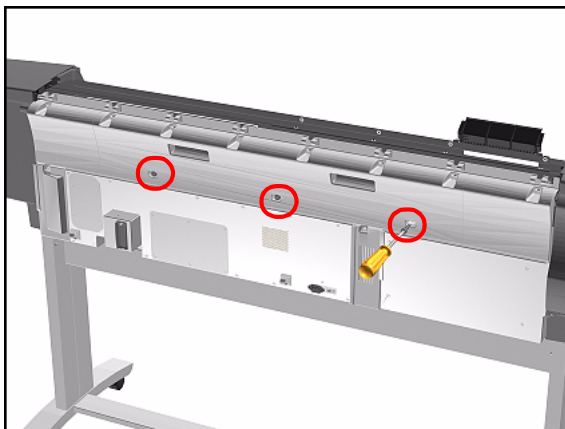
Refer to the table on Page 8-4 for information on screw types.



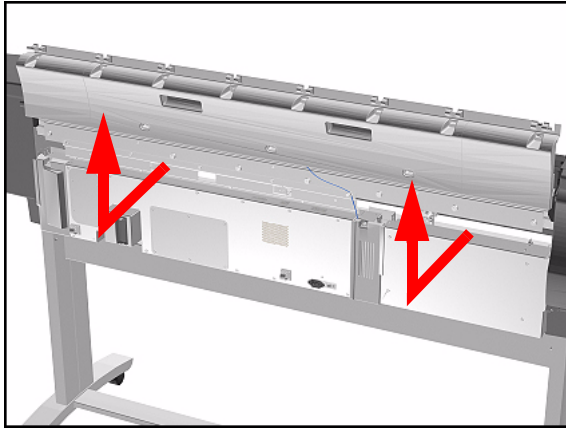
1. Remove the Top Cover - Refer to Page 8-5.
2. Remove the following (**Type B**) screws from the upper part of the Back Cover:
  - 8 Screws (T-15) for the 60" Model.
  - 6 Screws (T-15) for the 42" Model.

**NOTE**

Support the Back Cover as it is released.



3. Remove 3 T-15 screws (**Type N**) from the lower part of the Back Cover.



4. Remove the Back Cover.

### Installation of the Back Cover

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#### NOTE

If the Back Cover is replaced, remember to apply a new Printer Label to the new Back Cover before it is installed. Once the new label has been applied, copy the product number and serial number onto it.

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## Ink Tubes System

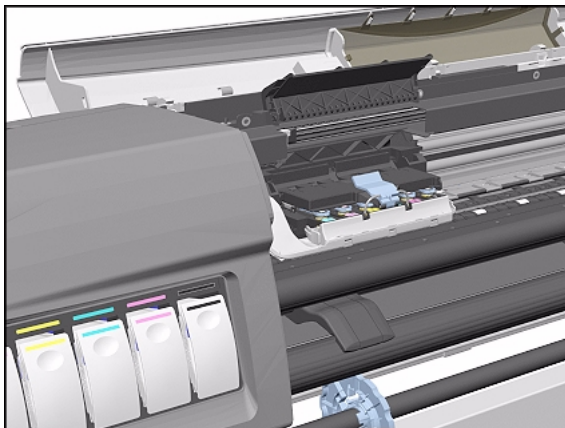
### Removal

#### **WARNING**

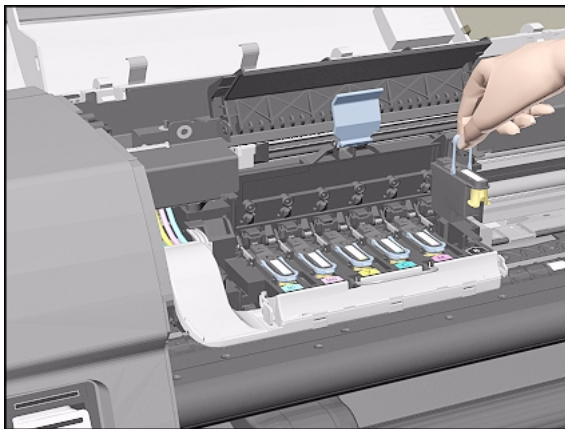
**Switch off the Printer and remove the Power Cord.**



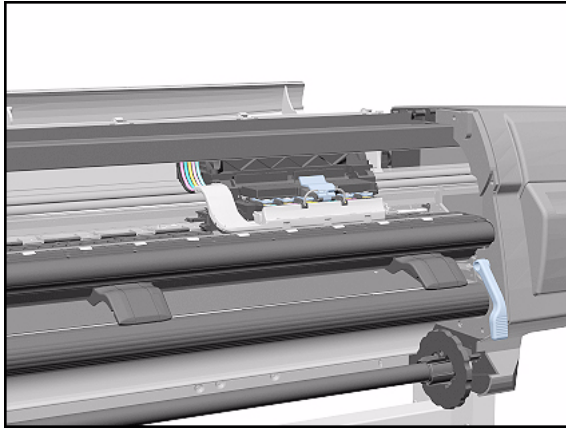
1. Open the Right Cover door and pull out the Printhead Cleaner Carriage.



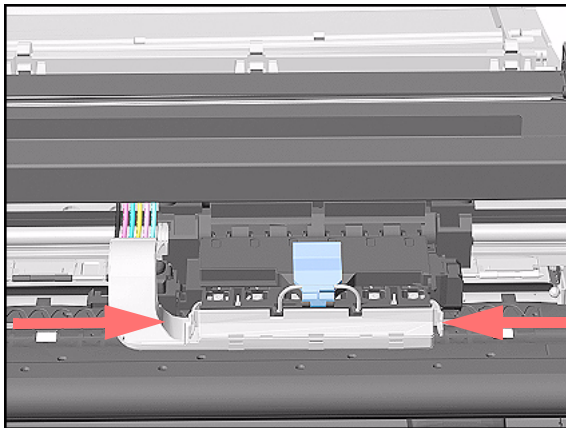
2. Open the Top Cover and pull the Carriage out along the Printer to the position shown.



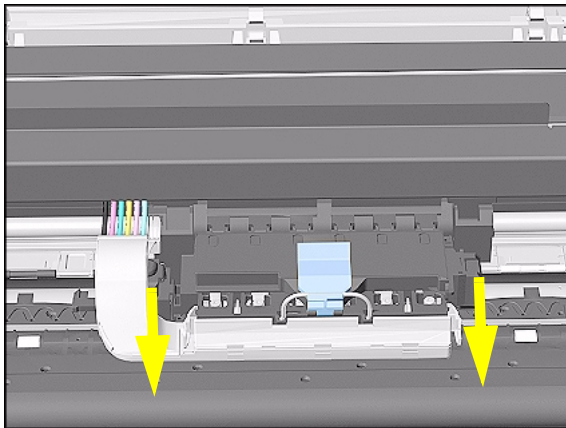
3. Lift up the Carriage Cover and remove ALL the Printheads and close the Carriage Cover.



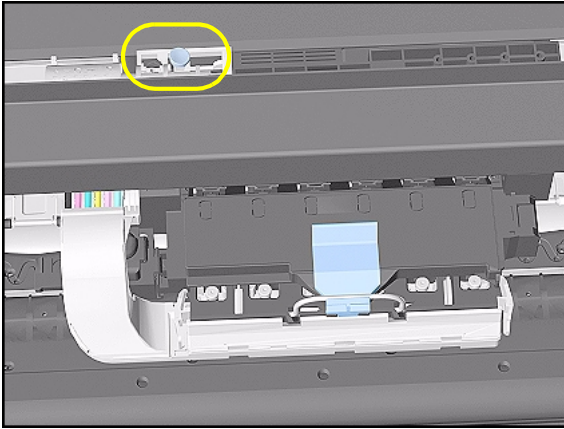
4. Slide the Carriage to the position shown.



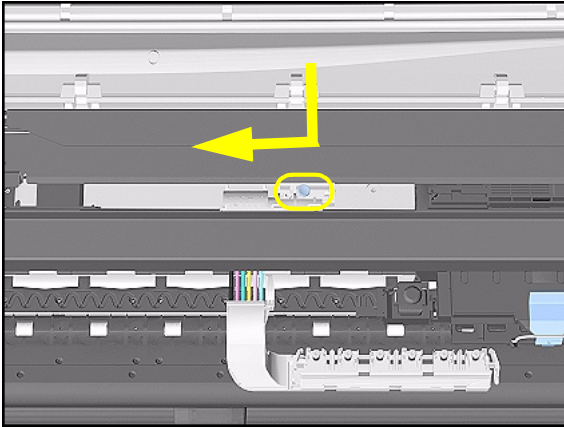
5. Push in the 2 retaining clips either side of the Printhead Tube Connector.



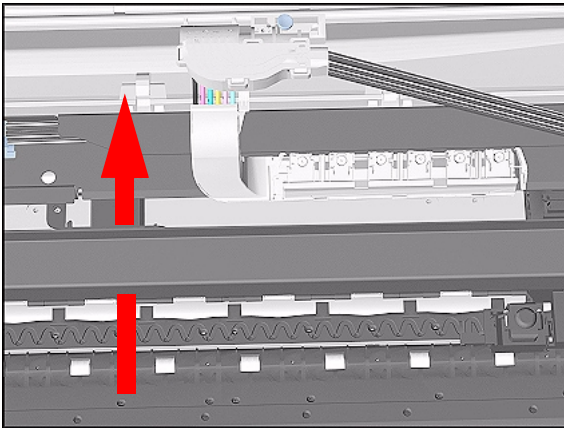
6. Pull the Printhead Tube Connector towards you.



7. Push the button to release the Printhead Tubes in the Carriage.

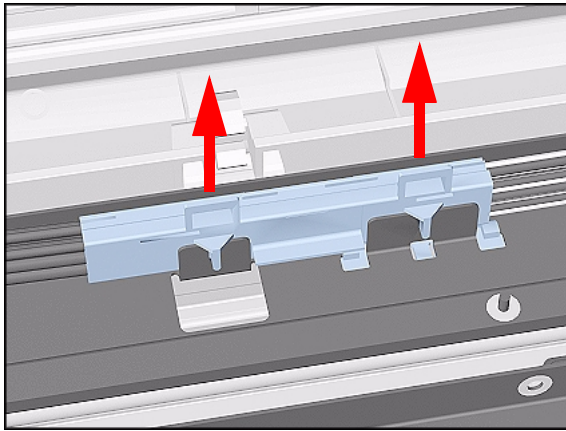


8. Release the Retaining Clip by pulling it away from the holding brackets.



9. Pull the Printhead Tube Connector up between the two Tube Guides.

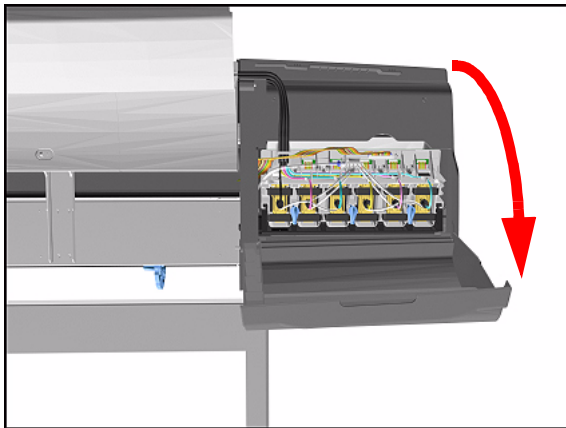




**10.** Lift out the blue Retaining Clip.

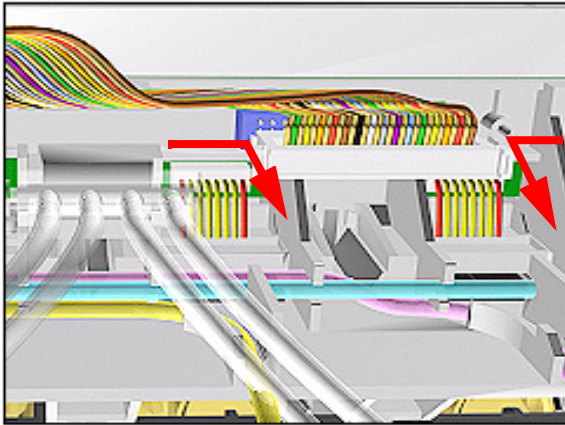


**11.** Remove ALL the Ink Cartridges from the Printer.

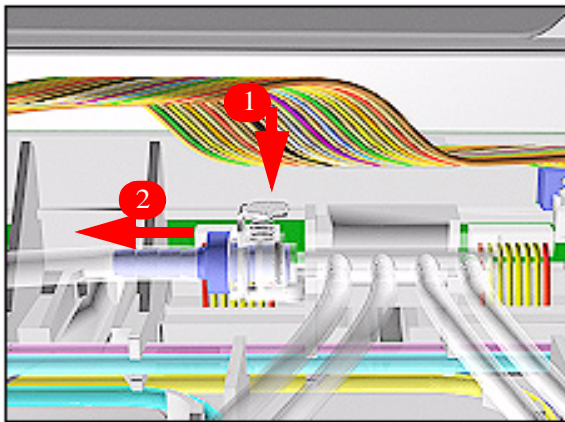


**12.** Open the door at the back of the Left Cover.

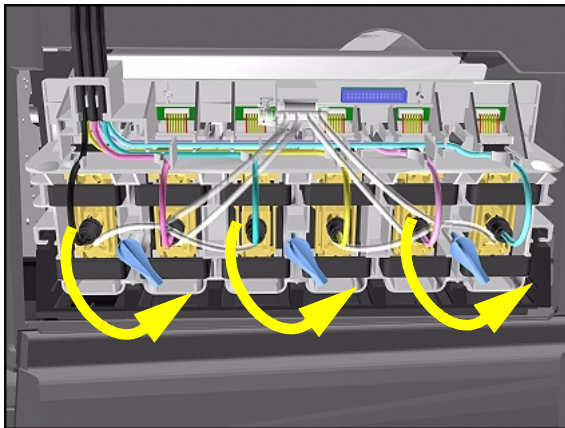




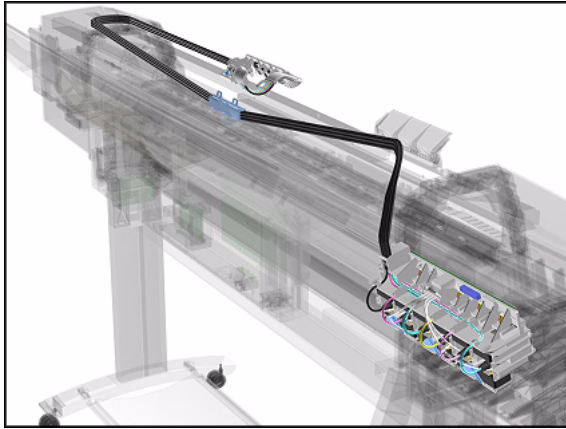
- 13.** Disconnect the Electrical Cable from the rear of the Ink Cartridge Tube Connector.



- 14.** Disconnect the Air Tube.



- 15.** Twist the 3 latches at the rear of the Ink Cartridge Tube Connector and release the complete Assembly.



16. The complete assembly can now be removed by sliding the Ink Cartridge Connector out from the rear of the Left Hand Cover.

### Installation of Ink Tubes System

#### **WARNING**

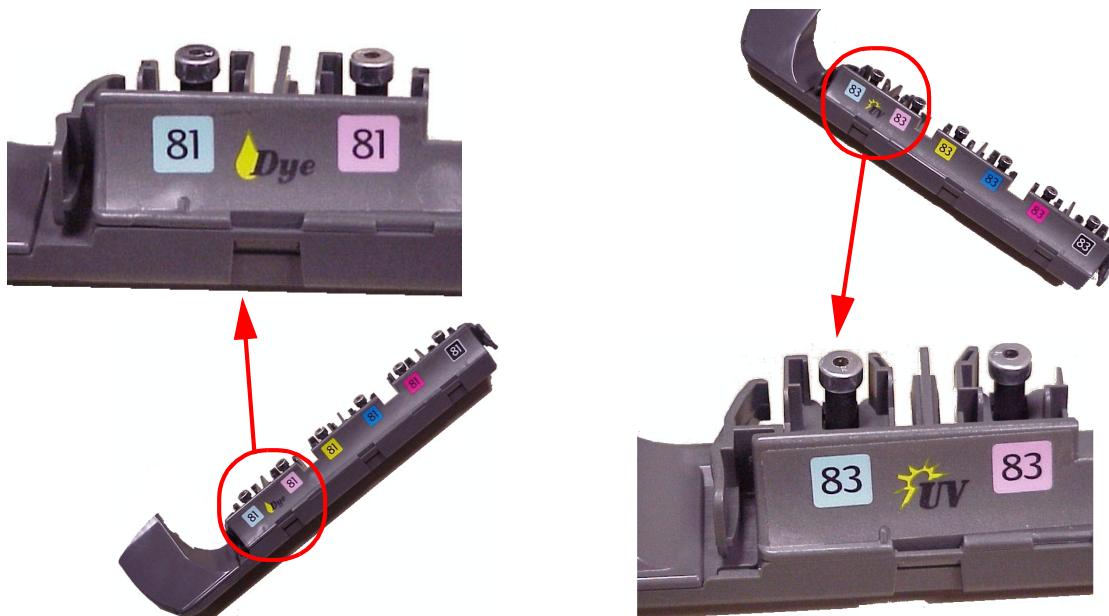
When installing the Ink Tubes System it is very important that the Tubes are **NOT TWISTED**. Make sure that the Tubes are correctly routed at the rear of the Left Cover and before powering On the printer, check again that they are **NOT TWISTED**.

#### **NOTE**

Do not install NEW Ink Tubes System with Ink Cartridges that indicate Low or Very Low ink levels.

#### **NOTE**

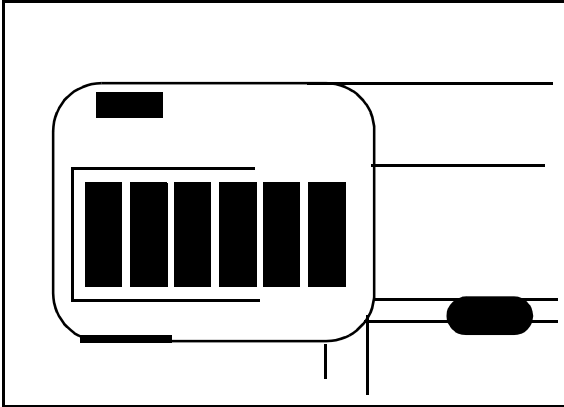
Before installing the new Ink Tubes System, make sure that the Ink Type (Dye or UV) of the Tubes is the same as the ones that you are replacing.



**NOTE**

**When the Ink Tubes System is replaced, to restart the Printer perform the following procedures.**

1. Install the Setup Printheads (refer to the User's Guide).
2. Connect the Power Cable and turn on the main Power Switch at the rear of the Printer.
3. The Front Panel warns that there are no Ink Cartridges installed.



**INK STARTUP**  
Initializing Printer  
Please wait 60 sec

4. Install the Ink Cartridges (refer to the User's Guide for details).
5. The Front Panel displays the message shown.
6. Wait about 60 seconds for the next instruction.
7. Remove the Setup Printheads from the Printhead Carriage.
8. Install the Printheads and the Printhead Cleaners (refer to the User's Guide for details).

## EMC Covers

### Removal

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**WARNING** Switch off the Printer and remove the Power Cord.

---

---

**NOTE** Refer to the table on Page 8-4 for information on screw types.

---

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**NOTE** The EMC Cover is composed of three parts; Top, Lower Left and Lower Right. Procedures below describe removal of the EMC Covers as; one assembly, the Top only, the Lower Right only. The procedure you select depends on the part you want to access.

---

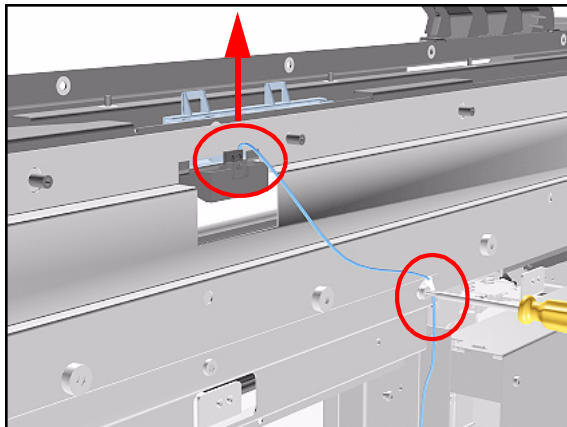
#### EMC Covers as one assembly

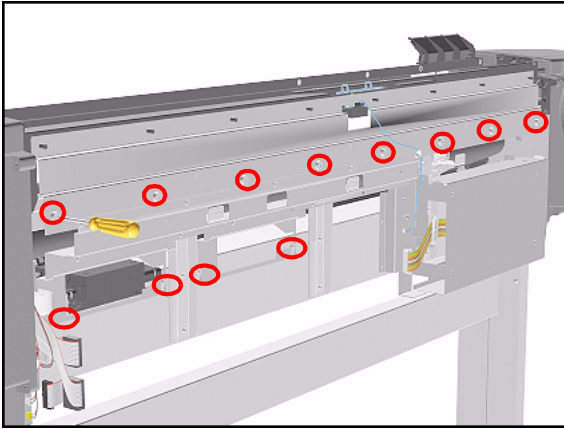
1. Remove the Top Cover - Refer to Page 8-5.
2. Remove the Back Cover - Refer to Page 8-23.
3. Remove Right Rear Cover - Refer to Page 8-16.
4. Remove Left Rear Cover - Refer to Page 8-15.
5. Remove Electronics Module - Refer to Page 8-97.
6. Disconnect connector from Ink Leak Detector and remove 1 T-15 screw (**Type B**) to remove Ink Leak Detector cable clamp.

---

**NOTE** The Ink Leak Detector is NOT present in the DesignJet 5500 Series and in some DesignJet 5000 Series printers.

---

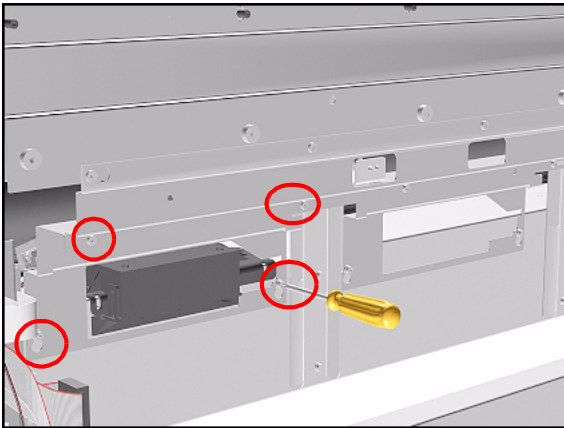




7. Remove the following screws (**Type N**) from the Top EMC Cover.
  - 8 T-15 screws for the 60" Model.
  - 6 T-15 screws for the 42" Model.
8. Loosen 4 T-15 screws (**Type L**) on Lower Covers and remove all Covers as one assembly.

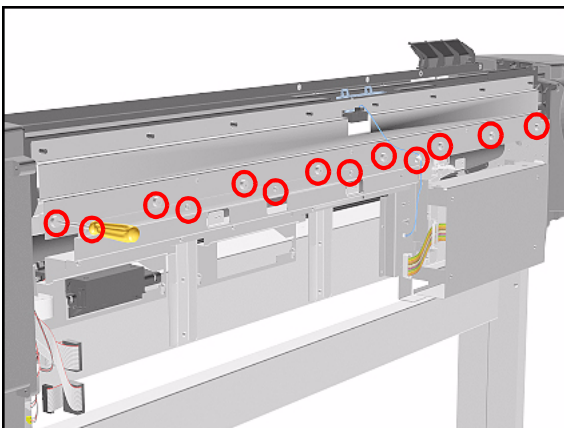
#### Lower Right Cover

1. Do steps 1 to 5 of the **EMC Covers as one assembly** procedure.
2. Remove 2 T-15 screws (**Type B**) and loosen 2 T-15 bottom screws (**Type L**) to remove cover.



#### Top EMC Cover

1. Do steps 1, 2 and 6 of the **EMC Covers as one assembly** procedure.
2. Remove the following screws (**Type B and N**) screws from the Top EMC Cover.
  - 13 T-15 screws for 60" Model.
  - 11 T-15 screws for 42" Model.
3. Lift the Top EMC Cover off Printer.



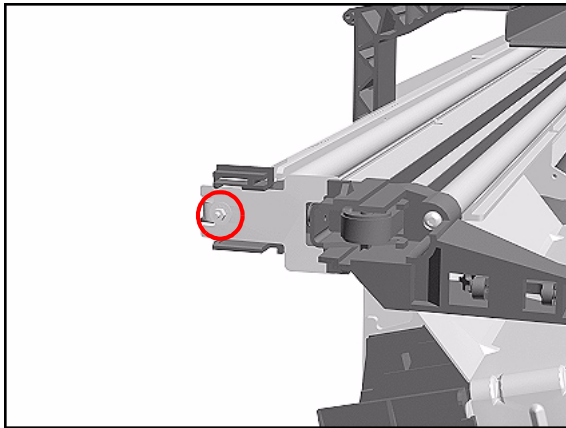
## Encoder Strip

### Removal

#### **WARNING**

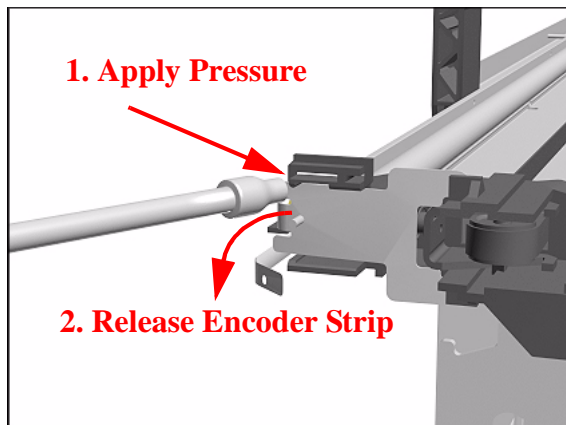
**Switch off the Printer and remove the Power Cord.**

1. Remove the Left Hand Cover - Refer to Page 8-6.
2. Remove the Right Hand Cover - Refer to Page 8-10.
3. Remove the Top Cover - Refer to Page 8-5.
4. Remove the Back Cover - Refer to Page 8-23.
5. Remove the Top EMC Cover - Refer to Page 8-32.
6. Remove the 5.5 mm nut from the left hand side of the Printer that attaches the Encoder Strip to the Spring Clip.



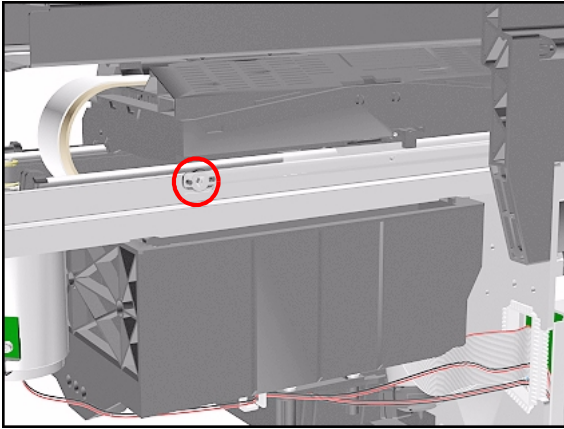
#### **TIP**

**The next step is performed by putting pressure on the Spring Clip as shown.**

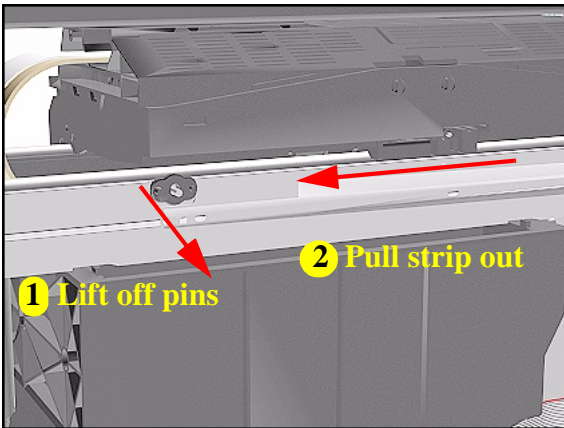


7. Release the Encoder strip from the Spring Clip.





8. Remove the 5.5 mm nut from the right hand side of the Printer.

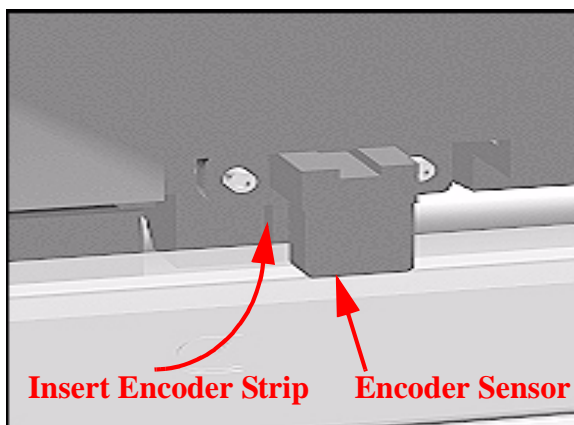


9. Remove the Encoder Strip from the Printer.

## Installation of Encoder Strip

### **WARNING**

When Installing the Encoder Strip, make sure it is placed in the Encoder Sensor on the rear of the Carriage Assembly as shown below.



## Trailing Cable

### Removal

---

**WARNING**

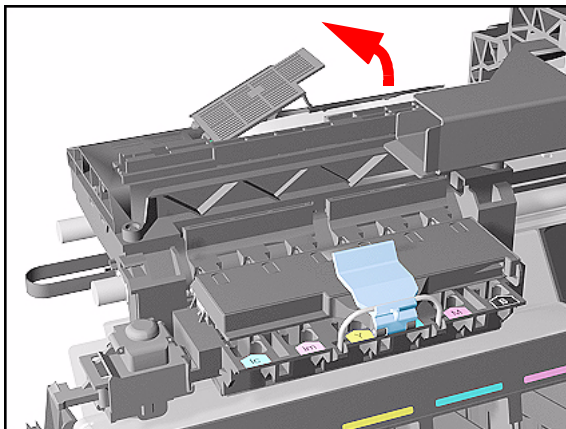
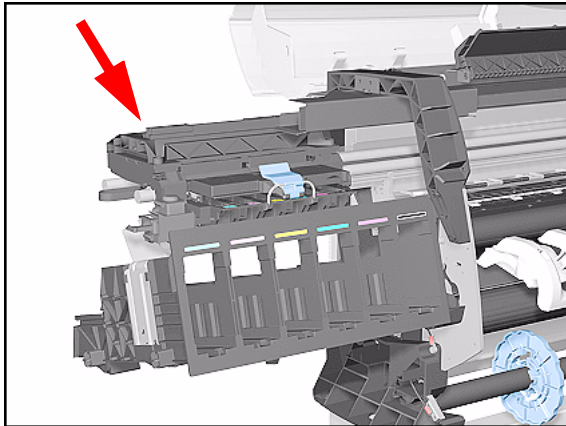
Switch off the Printer and remove the Power Cord.

---

**NOTE**

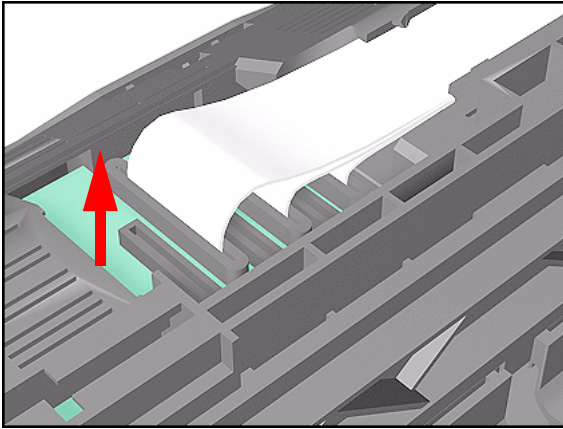
Refer to the table on Page 8-4 for information on screw types.

1. Remove the Top Cover - Refer to Page 8-5.
2. Remove the Right Rear Cover - Refer to Page 8-16.
3. Remove the Right Hand Cover - Refer to Page 8-10.
4. Remove the Left Hand Cover - Refer to Page 8-6.
5. Slide the Carriage to the left side of the Printer.



6. Unclip and remove the Carriage Cover to access the Trailing Cable in the Carriage.

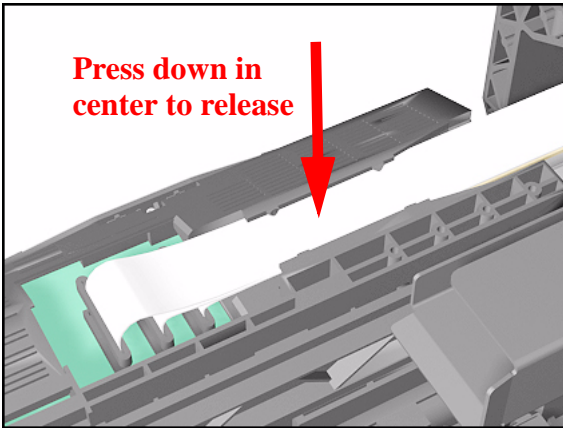




7. Carefully disconnect the Trailing Cables (3) from the connectors in the Carriage PCA.

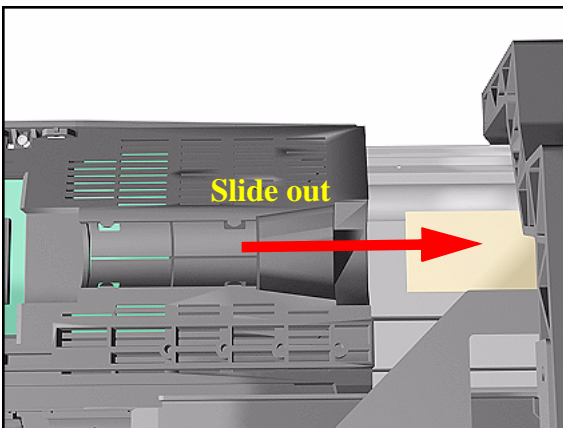
**NOTE** Remove Trailing Cable Ferrites if they fall into the Carriage

- 3 for 60" Model
- 1 for 42" Model

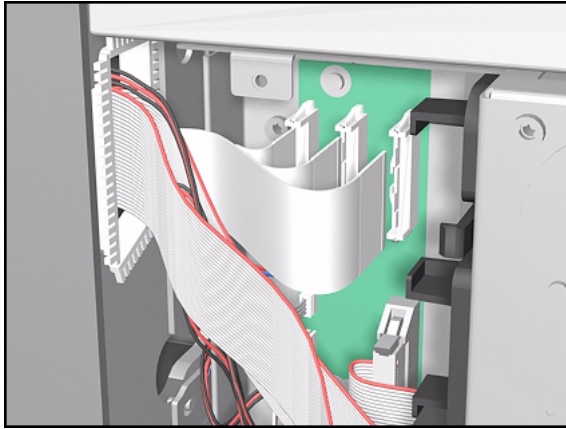


8. Remove the Trailing Cables from the Trailing Cable Holder.

**TIP** Press the Trailing Cables firmly in the center to release.

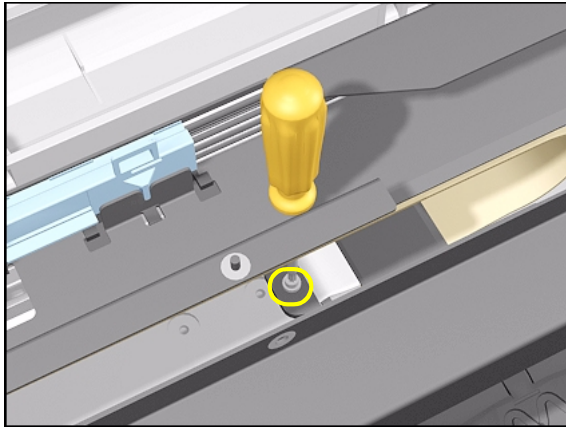


9. Slide the Trailing Cable Guide out of the Carriage.



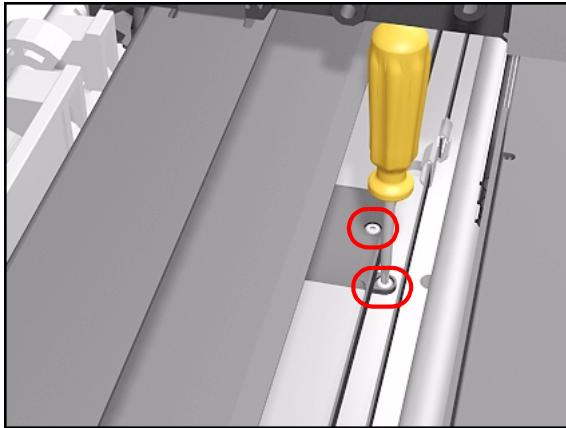
10. Carefully disconnect the Trailing Cable from the Main PCA.

**NOTE** Unclip the Trailing Cable when disconnecting from the Main PCA.



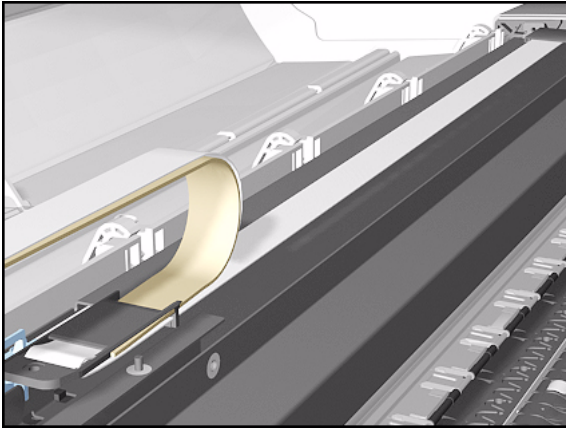
11. Remove the T-20 screw (**Type C**) from the Trailing Cable Clip on the left.

**NOTE** There is a hole in the Tube Guide to access the screw.



12. Remove 2 T-10 screws (**Type I**) from the Trailing Cable Clip on the right.

**NOTE** Take care when removing and inserting these screws as they are easily damaged and not easy to access.

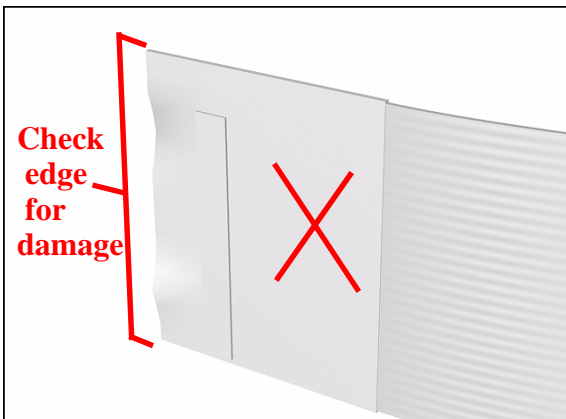


13. Carefully lift the Clips and the Trailing Cable from the Printer.

### Installation of Trailing Cable

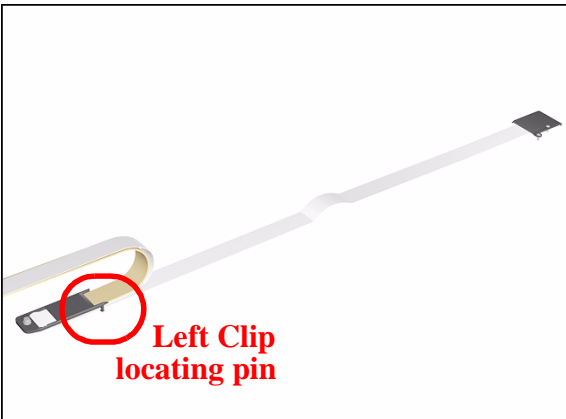
#### **WARNING**

Do not install damaged Trailing Cables. If the Trailing Cable is incorrectly installed or it is damaged, a "Power Supply Error #1" message will appear on the Front Panel during initialization.

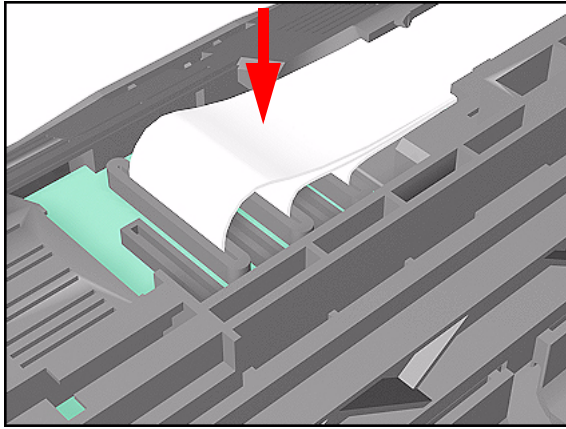


#### **WARNING**

When Installing the Trailing Cable, make sure you install it as follows:



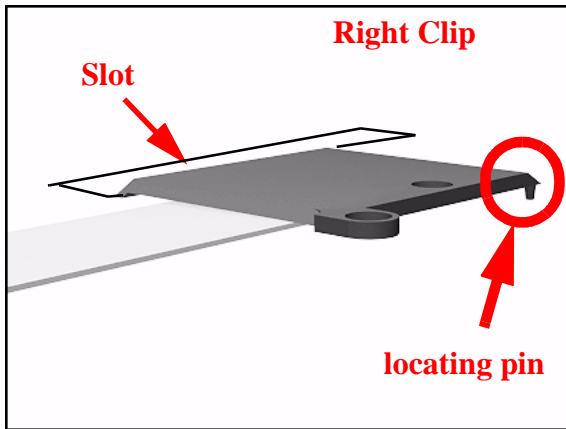
1. Install the Trailing Cable starting from the Clip on the left as this will provide a reference point for adjusting the length of the Trailing Cable.



2. Insert the Trailing Cable Guide into the Carriage and connect the Trailing Cables.

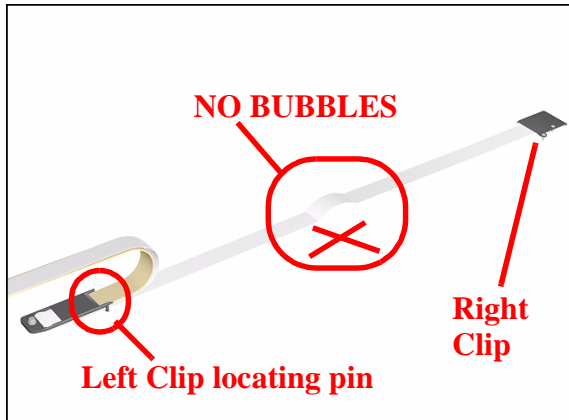
**NOTE** Remember to pass the Trailing Cables through the Ferrite(s).

- 3 for 60" Model.
- 1 for 42" Model.



3. Insert the Trailing Cable through the Chassis slot next to the Trailing Cable Clip on the right (see diagram in step 4).
4. Place the Right Trailing Cable Clip in position and adjust the length of the Trailing Cable.

**NOTE** This clip has a locating pin so make sure this is in position and the Trailing Cable is the right length before installing the screw.

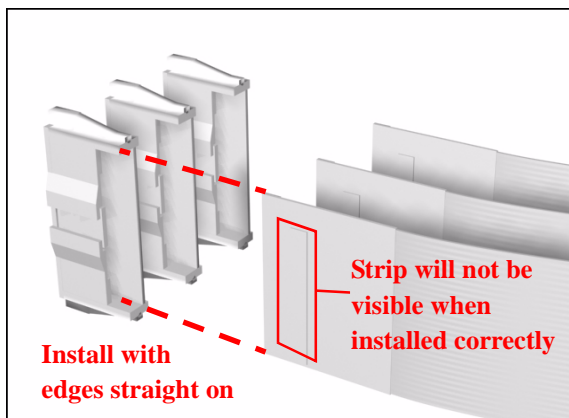


**TIP**

Make sure the Trailing Cable is flat on the chassis without bubbles.

**NOTE**

Check the cable and clips are correctly installed by sliding the carriage along the Printer to see if it moves freely.



5. Connect the Trailing Cables to the Main PCA.

**NOTE**

Make sure the vertical strips on Trailing Cable ends are fully inserted inside the connectors. The strip should not be visible when inserted correctly.

## Tensioner Assembly

### Removal

---

**WARNING**

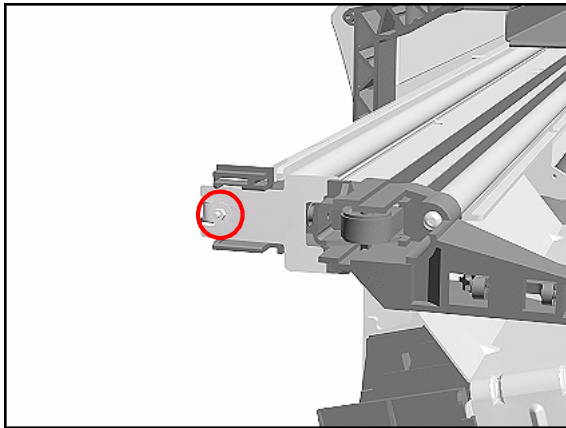
Switch off the Printer and remove the Power Cord.

---

**NOTE**

Refer to the table on Page 8-4 for information on screw types.

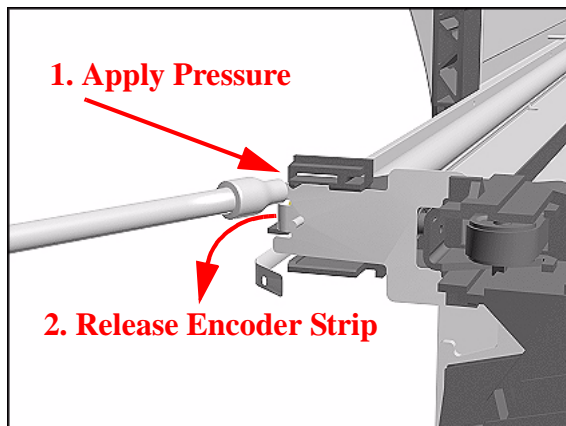
1. Remove the Left Hand Cover - Refer to Page 8-6.
2. Remove the Right Hand Cover - Refer to Page 8-10.
3. Remove the 5.5 mm nut from the left hand side of the Printer that attaches the Encoder Strip to the Spring Clip.



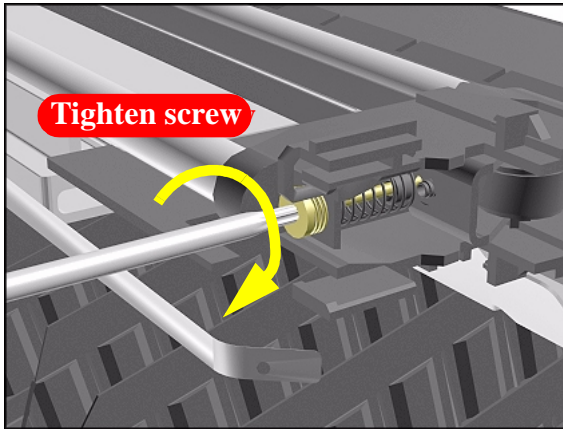
---

**TIP**

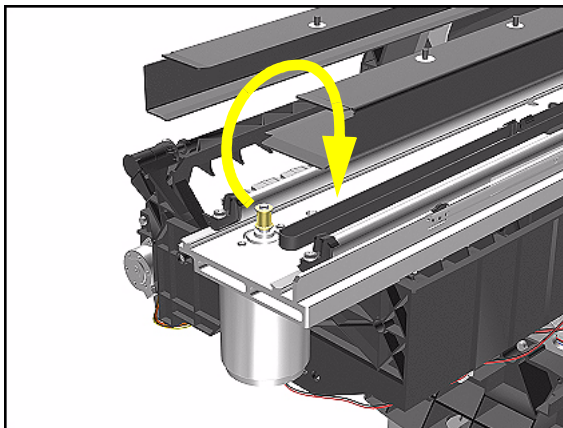
The next step is performed by putting pressure on the Spring Clip as shown.



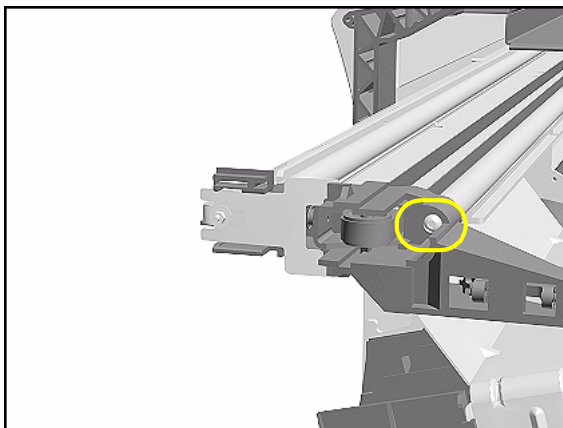
4. Release the Encoder Strip from the retaining pin on the Spring Clip.



5. Using a screwdriver, fully tighten the Spring Release Screw to release the tension on the Belt.

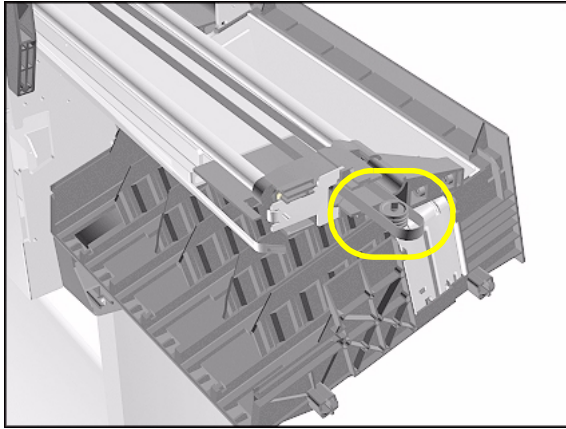


6. From the right-hand side, lift the Tensioner Belt off the Scan-Axis Motor.

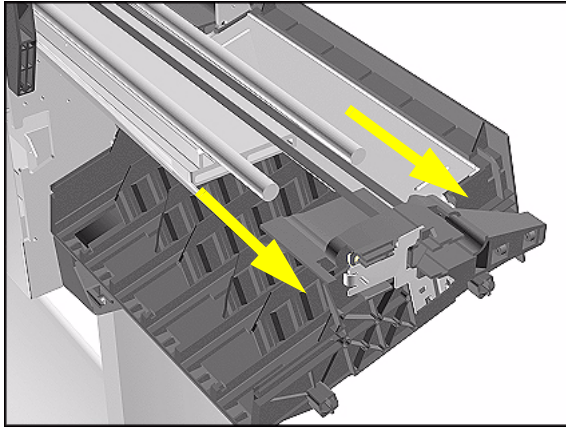


7. Remove 1 T-15 screw (**Type L**) from the Tensioner Assembly.





8. Remove the Belt Wheel on the left side.



9. Remove the Tensioner Assembly from the left-hand side.

## Installation of Tensioner Assembly

---

**NOTE** Before installation, clean and oil the Slider Rods using the User's Slider Rods Lubrification Kit (Refer to Page 9-8).

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---

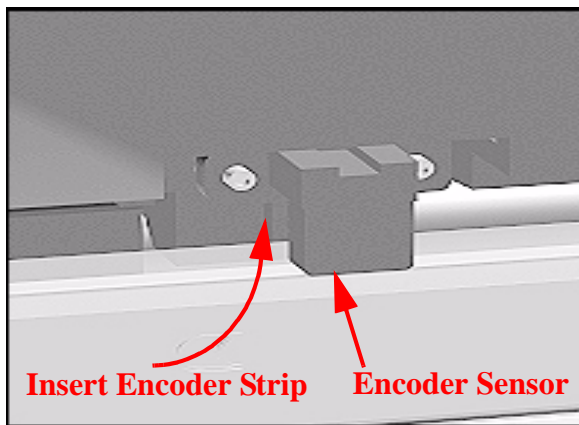
**WARNING** Be careful not to twist the Belt when installing the Tensioner Assembly.

---

---

**WARNING** When installing the Encoder Strip, make sure it is inserted in the Encoder Sensor on the rear of the Carriage Assembly as shown below.

---



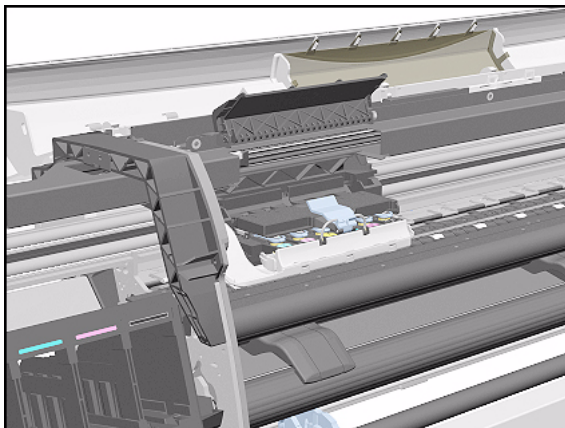
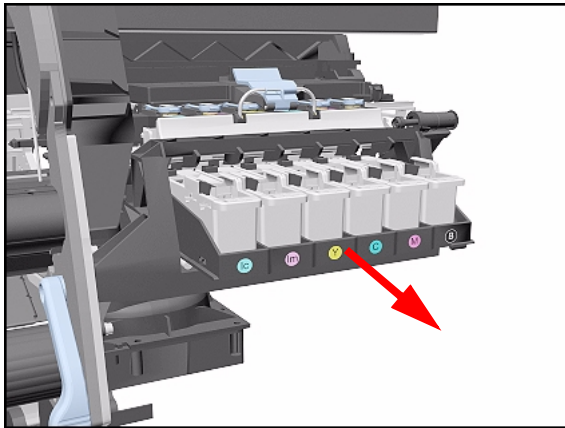
## Carriage Assembly and Belt

### Removal

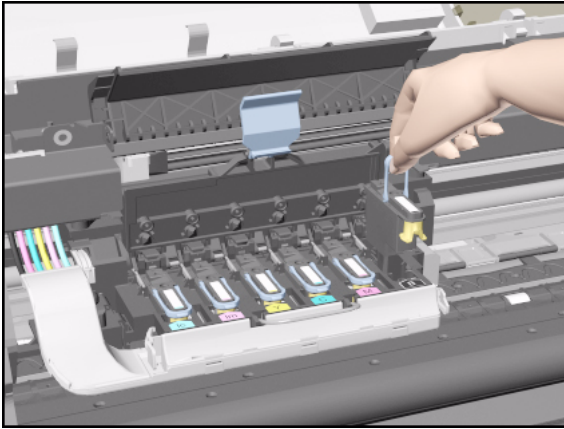
#### **WARNING**

**Switch off the Printer and remove the power cord.**

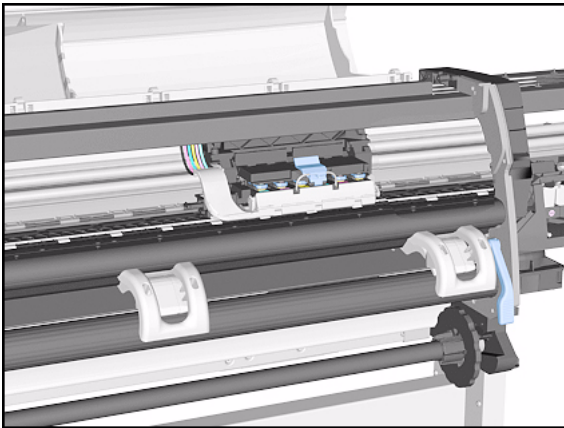
1. Remove the Left Hand Cover - Refer to Page 8-6.
2. Remove the Right Rear Cover - Refer to Page 8-16.
3. Remove the Right Hand Cover - Refer to Page 8-10.
4. Remove the Tensioner Assembly - Refer to Page 8-42.
5. Pull out Printhead Cleaner Carriage.



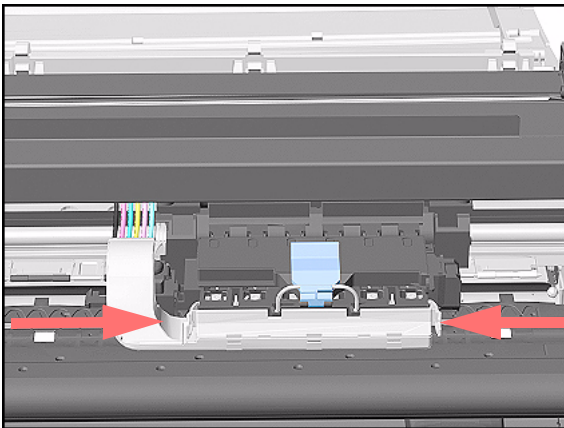
6. Slide Carriage Assembly to position shown.



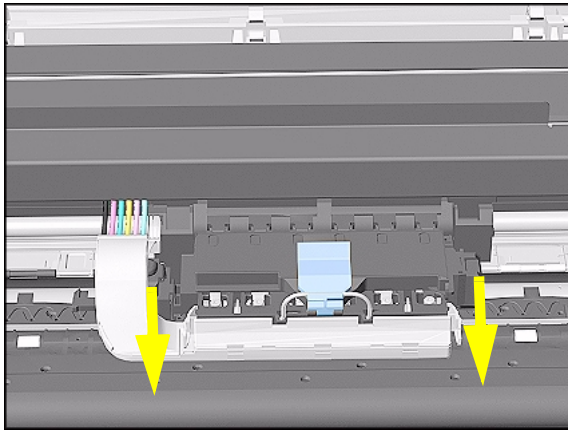
7. Lift up the Carriage Cover and remove ALL the Printheads and close the Carriage Cover.



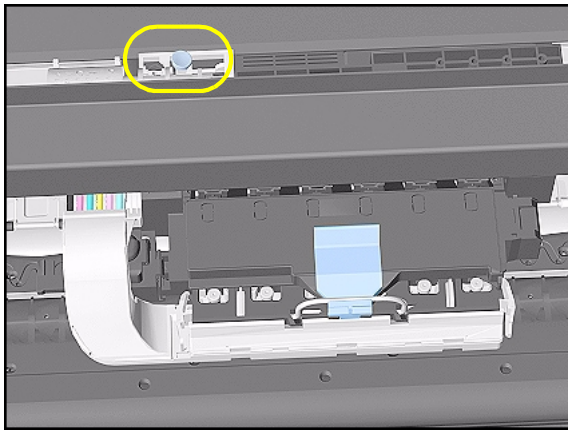
8. Slide the Carriage along the Printer to the position shown.



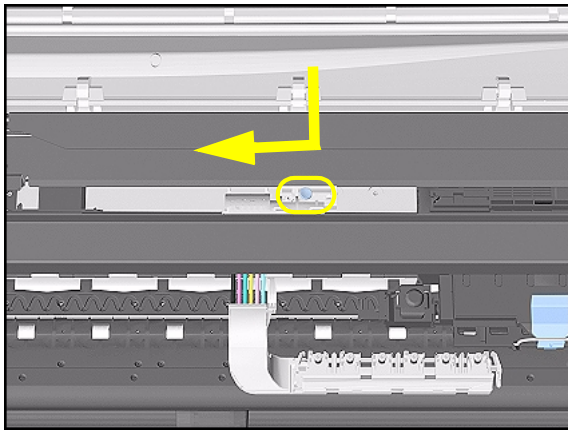
9. Push in the 2 retaining clips either side of the Printhead Tube Connector.



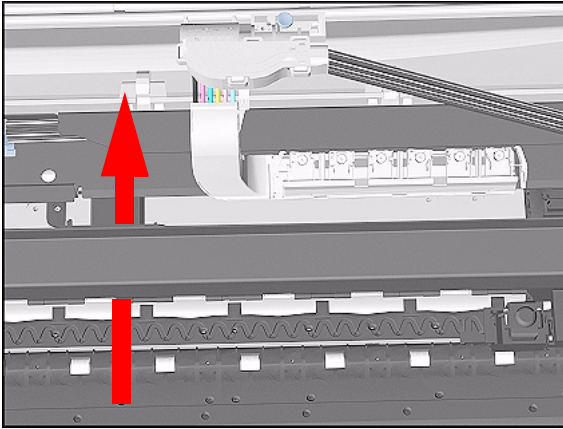
- 10.** Pull the Printhead Tube Connector towards you.



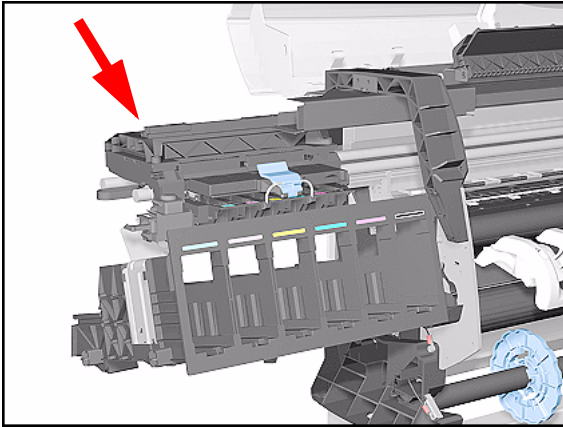
- 11.** Push the button to release the Printhead Tubes in the Carriage.



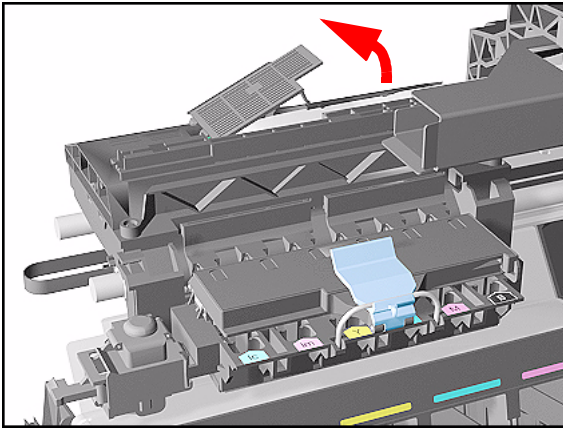
- 12.** Release the retaining clip by pulling it away from the holding brackets.



- 13.** Pull the Printhead Tube Connector up between the two Tube Guides.

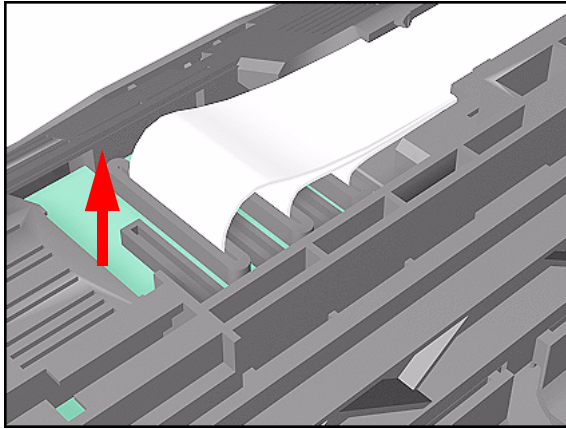


- 14.** Slide the Carriage to the left side of the Printer.



- 15.** Unclip and remove the Carriage Cover to access the Trailing Cable in the Carriage.

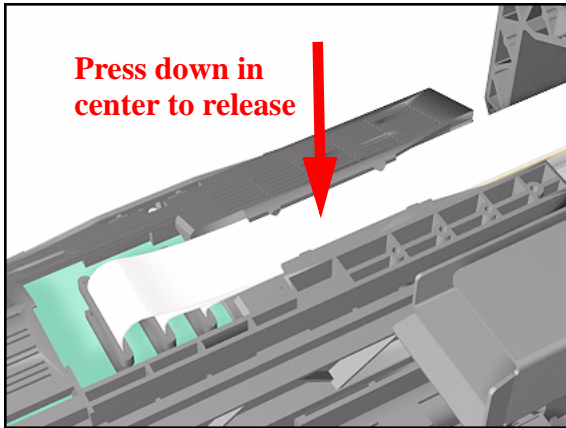




- 16.** Carefully disconnect the Trailing Cables (3) from the connectors in the Carriage PCA.

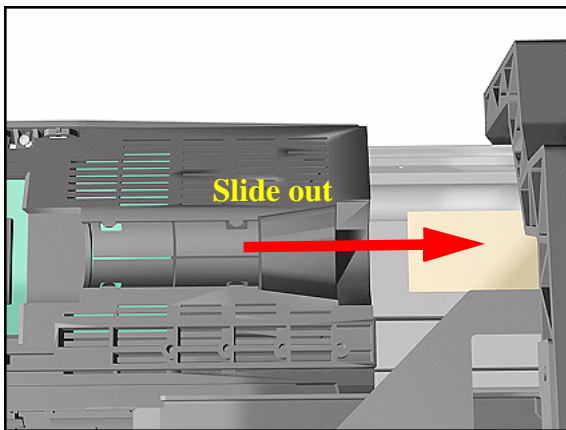
**NOTE** Remove Trailing Cable Ferrites if they fall into the Carriage

- 3 for 60" Model.
- 1 for 42" Model.



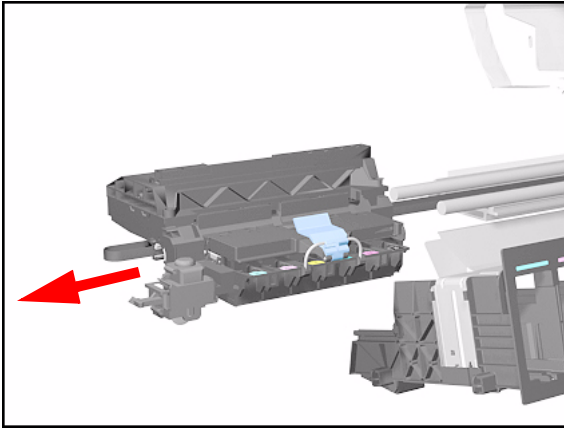
- 17.** Remove the Trailing Cables from the Trailing Cable Holder.

**TIP** Press the Trailing Cables firmly in the center to release.

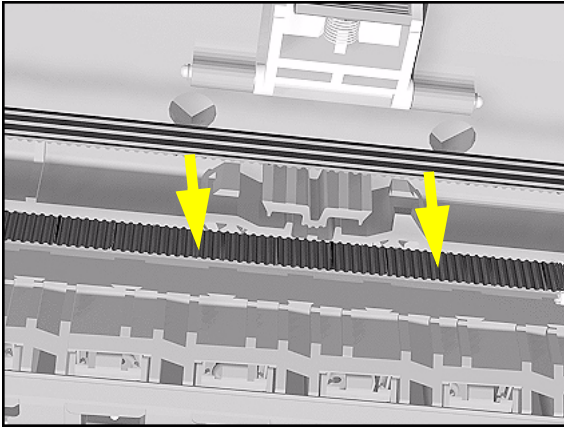


- 18.** Slide the Trailing Cable Guide out of the Carriage.





- 19.** Slide the Carriage (including the Belt) to the left and out of the Printer.



- 20.** Remove the Belt from the Carriage by releasing it from the retaining clips underneath the Carriage.

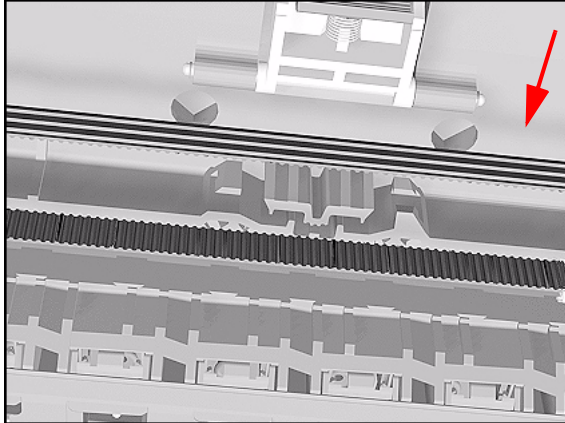
## Installation of Carriage and Belt

### NOTE

Before installation, clean and oil the Slider Rods using the User's Slider Rods Lubrification Kit (Refer to the User's Guide).

### WARNING

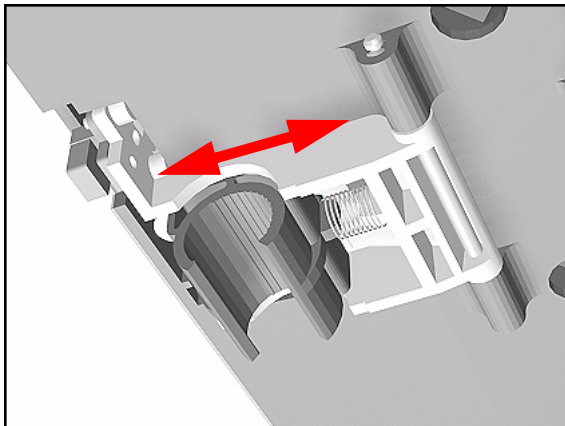
Make sure you install the Carriage Assembly and Belt as follows:



1. Insert belt as indicated on the underside of Carriage.

### TIP

An arrow on the bottom of the Carriage indicates position and direction.



2. Line up the Carriage Guide, on the underside of the carriage, with the Slider Rods on the Printer.

### NOTE

Perform the following Service Calibrations after the installation of the Carriage Assembly:

- Carriage Height ⇒ Page 5-18.
- Service Station ⇒ Page 5-11.
- Scan Axis ⇒ Page 5-7.
- Printhead Alignment ⇒ User Guide.
- Color Calibration ⇒ User Guide.

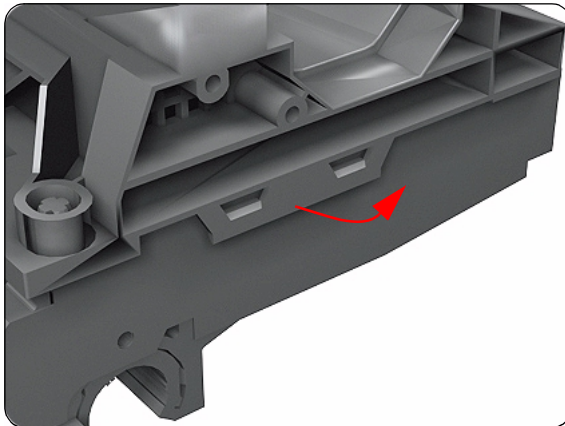
## Line Sensor

### Removal

**WARNING** Switch off the Printer and remove the Power Cord.

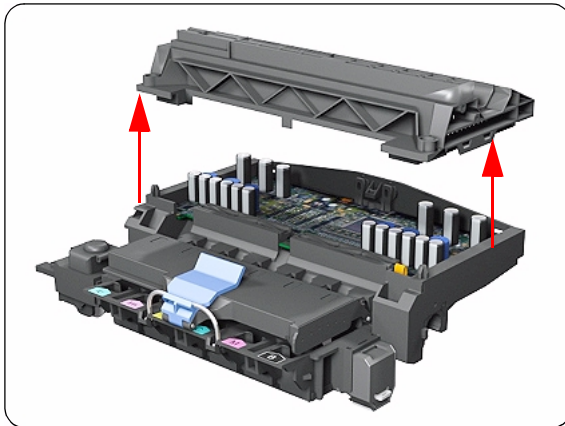
**NOTE** Refer to the table on Page 8-4 for information on screw types.

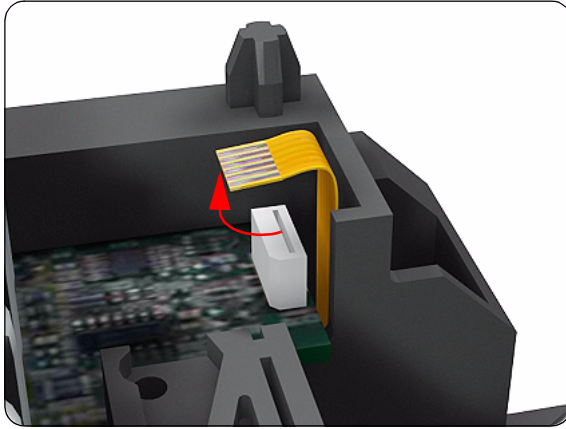
1. Remove the Carriage Assembly - Refer to Page 8-46.
2. Unclip the Carriage Cover from **both** sides of the Carriage Assembly.



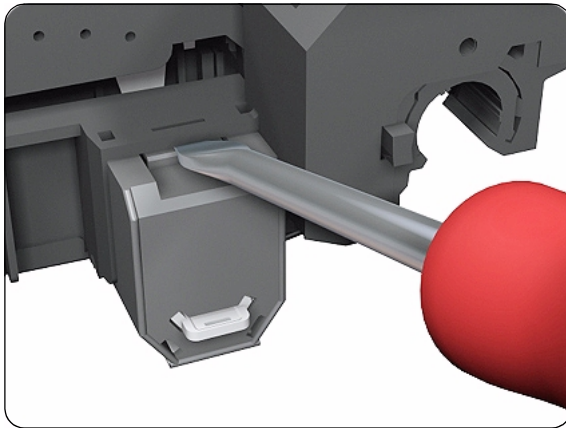
3. Remove the Carriage Cover.

**NOTE** Make sure both sides of the cover are unclipped before removing. Also make sure the cover is removed vertically, if not the Cover Retaining Pins can be broken.

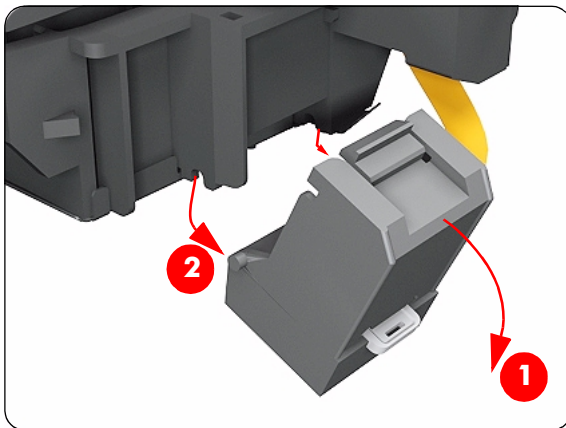




4. Disconnect the Line Sensor Connector from the Carriage PCA.

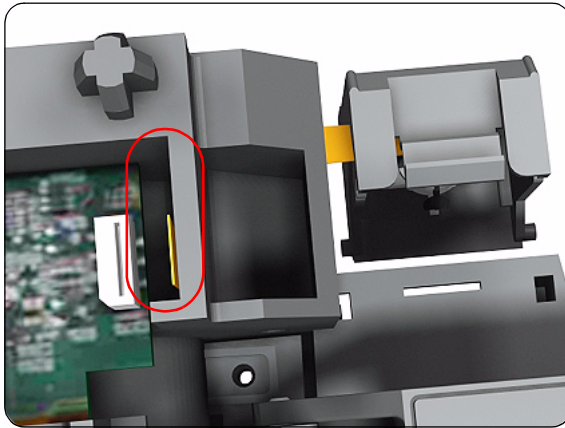


5. Insert a flat screwdriver inside the Line Sensor clip in order to release it.

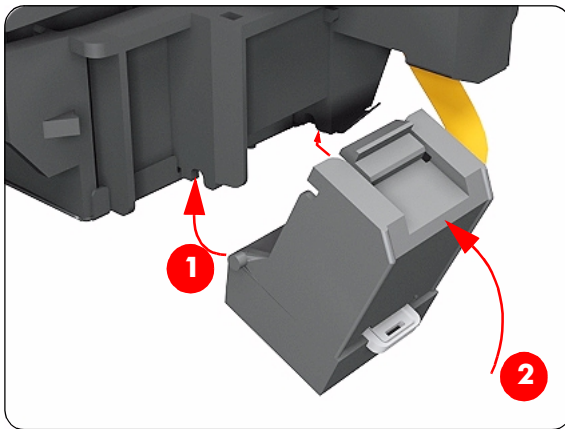


6. Once the clip is released, rotate the Line Sensor downwards so that the locating pins on **both** sides are also released.

## Installation

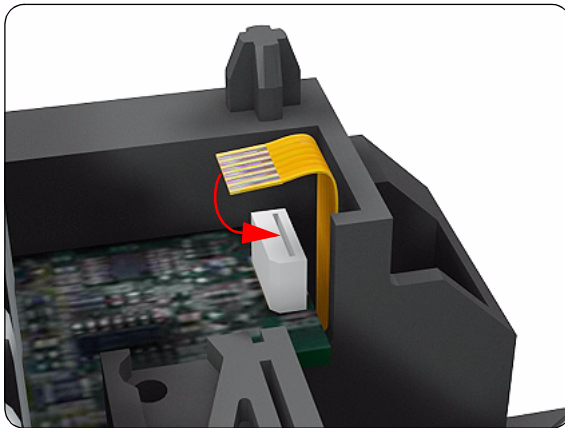


1. When installing the new Line Sensor, make sure you insert the Line Sensor Cable through the correct hole (as highlighted).

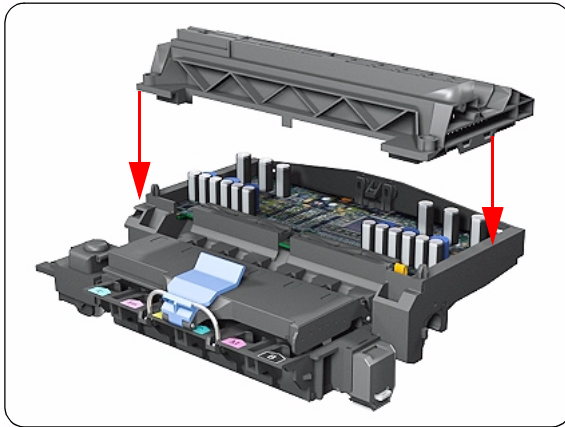


2. Install the Line Sensor by first inserting the 2 locating pins and then rotating upwards so that the clip locks into place.

**NOTE** Make sure the Line Sensor is clipped correctly and securely, if not the Line Sensor will malfunction.

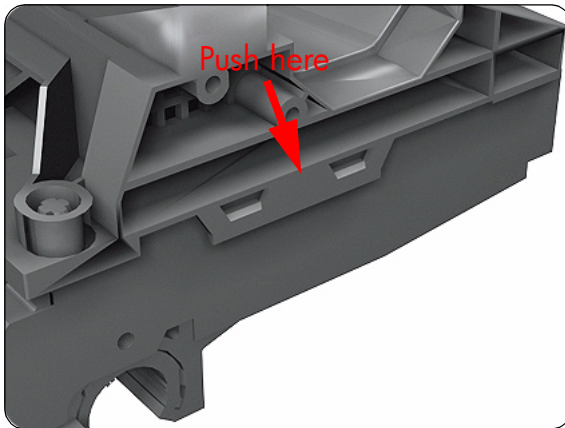


3. Connect the Line Sensor Connector to the Carriage PCA.



**4. Install the Carriage Cover.**

**NOTE** Make sure the cover is installed vertically, if not the Cover Retaining Pins can be broken.



**5. Clip the Carriage Cover on both sides of the Carriage Assembly by pushing the clip downwards (with force if necessary).**

**NOTE** Make sure the clips are locked correctly, if not the Carriage Cover could become loose and cause major damage to the printer.

**NOTE** You must perform the following Calibration when the Line Sensor is replaced:

- Scan Axis Calibration ⇒ Page 5-7.



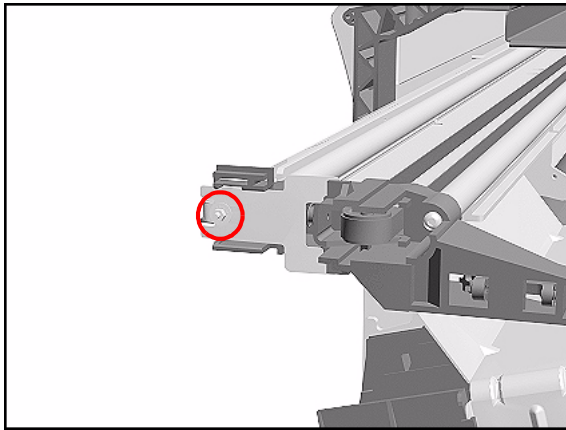
## Scan-Axis Motor

### Removal

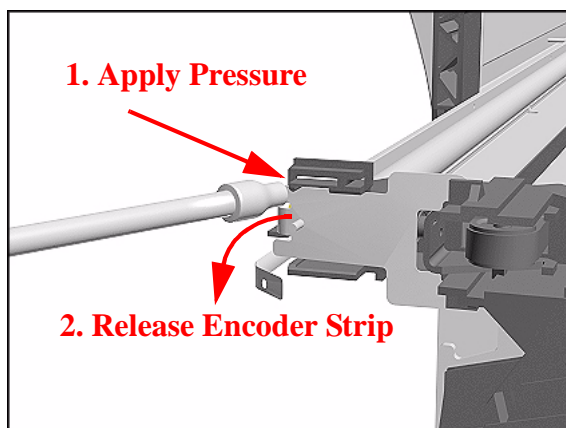
**WARNING** Switch off the Printer and remove the Power Cord.

**NOTE** Refer to the table on Page 8-4 for information on screw types.

1. Remove the Right Rear Cover - Refer to Page 8-16.
2. Remove the Left Hand Cover - Refer to Page 8-6.
3. Remove the Right Hand Cover - Refer to Page 8-10.
4. Remove the 5.5 mm nut from the left hand side of the Printer that attaches the Encoder Strip to the Spring Clip.

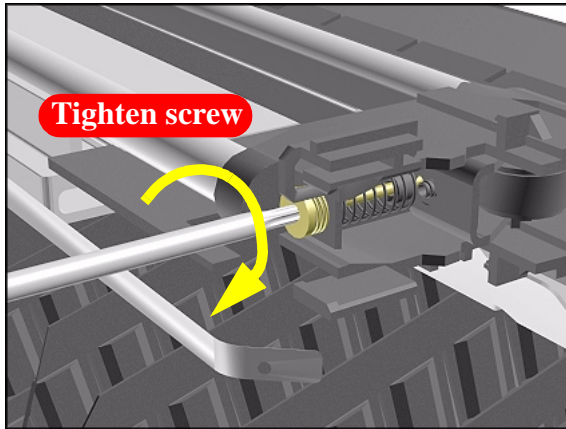


**TIP** The next step is performed by putting pressure on the Spring Clip as shown.

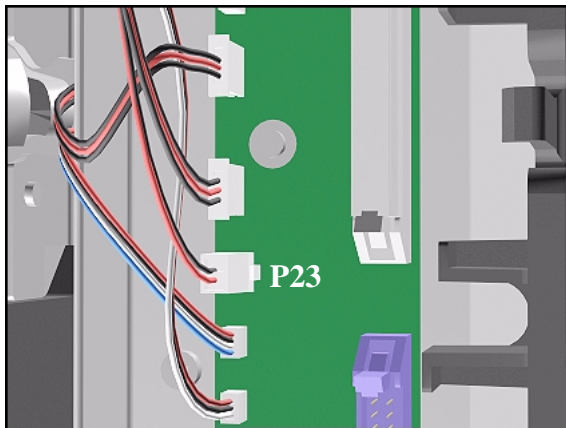


5. Release the Encoder strip from the Spring Clip.

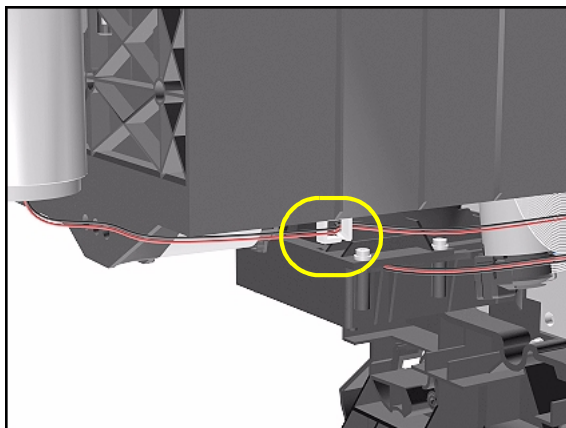




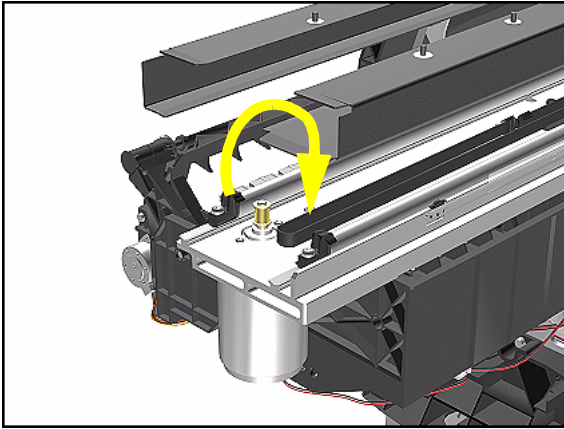
6. Using a screwdriver, fully tighten the Spring Release Screw to release the tension on the Belt.



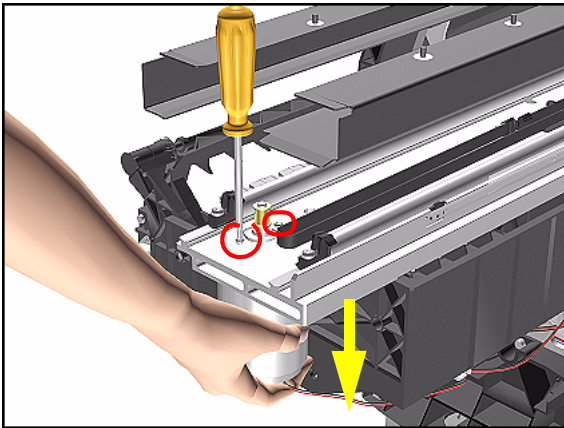
7. Disconnect the Scan-Axis Motor Cable from position P23 on the Main PCA.



8. Unclip the Scan-Axis Motor Cable from underneath the Service Station.



9. From the right-hand side, lift the Tensioner Belt off the Scan-Axis Motor.



10. While supporting the Scan-Axis Motor, remove 2 T-15 screws (**Type B**).

11. Lower the Scan-Axis Motor and remove from the Printer.

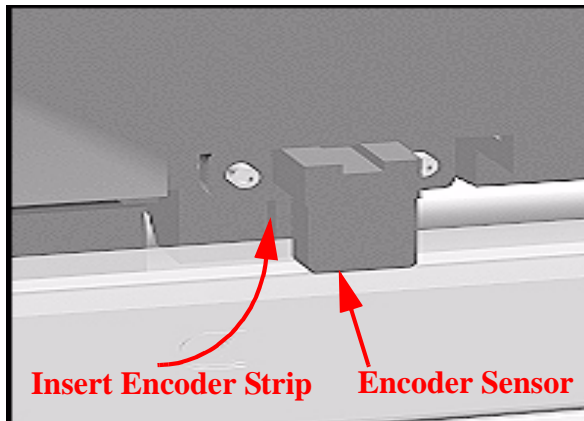
## Installation of the Scan-Axis Motor

### NOTE

Before installation, clean and oil the Slider Rods using the User's Slider Rods Lubrification Kit (Refer to Page 9-8).

### WARNING

When installing the Encoder Strip, make sure it is inserted in the Encoder Sensor on the rear of the Carriage Assembly.



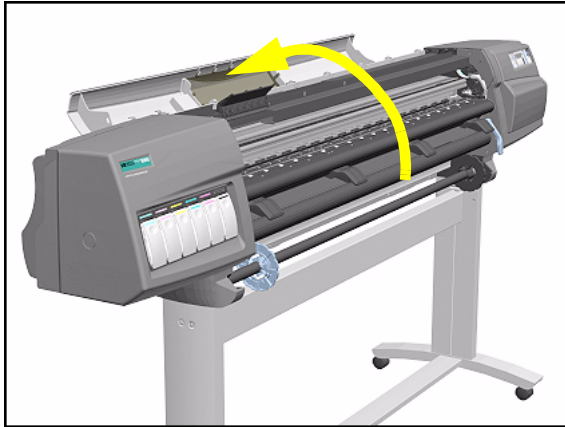
**Note:** When installing the Belt, make sure that it is not twisted.

## Cutter Assembly

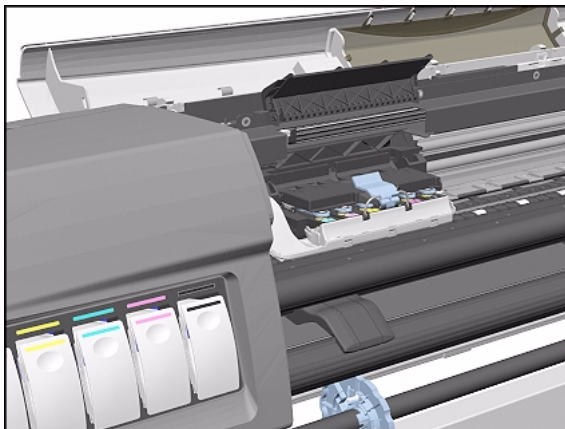
### Removal

**WARNING** Switch off the Printer and remove the Power Cord.

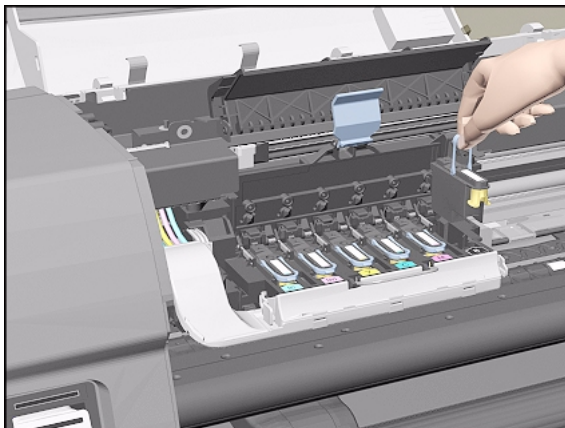
**NOTE** Refer to the table on Page 8-4 for information on screw types.



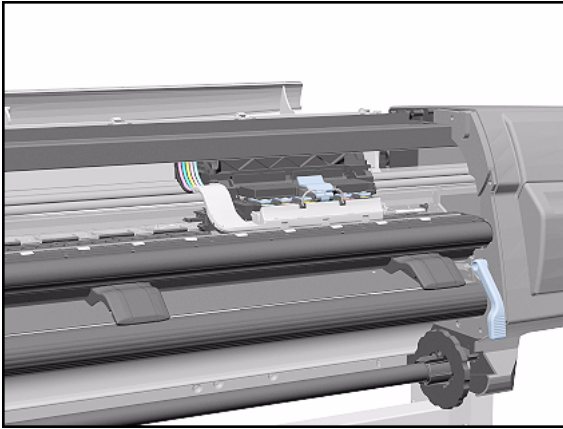
1. Open the Top Cover.



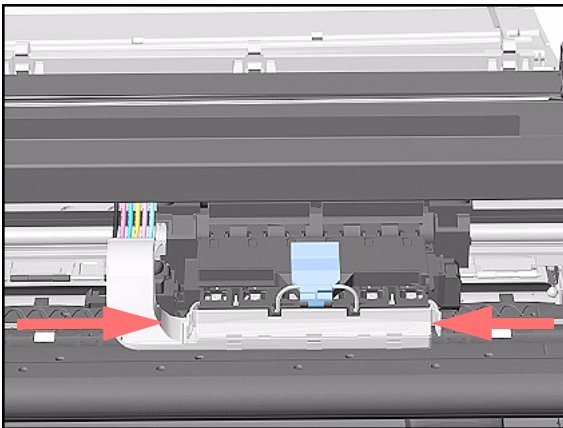
2. Pull the Carriage out along the Printer to the position shown.



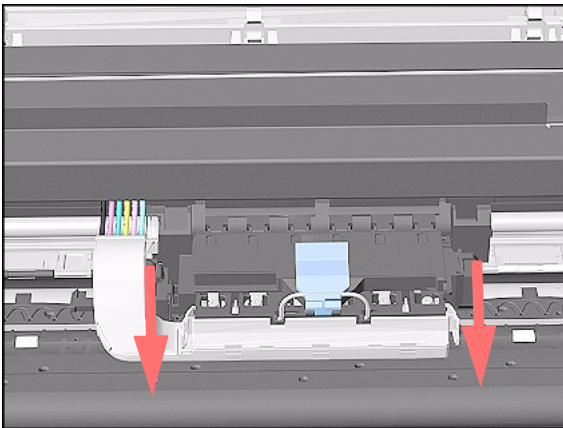
3. Lift up the Carriage Cover and remove ALL the Printheads and close the Carriage Cover.



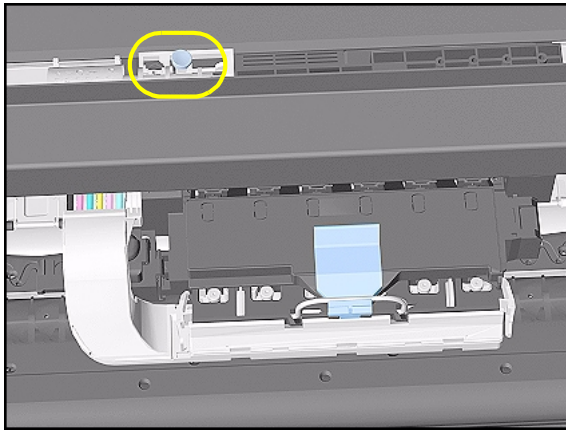
- 4.** Slide the Carriage to the position shown.



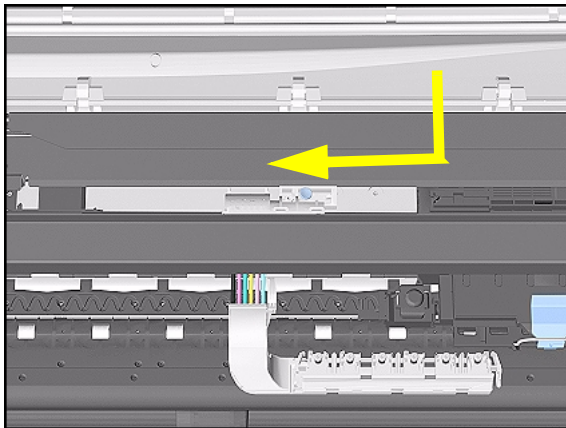
- 5.** Push in the 2 retaining clips either side of the Printhead Tube Connector.



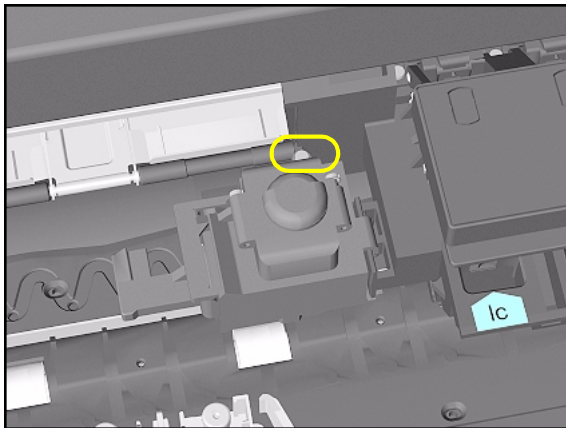
- 6.** Pull the Printhead Tube Connector towards you.



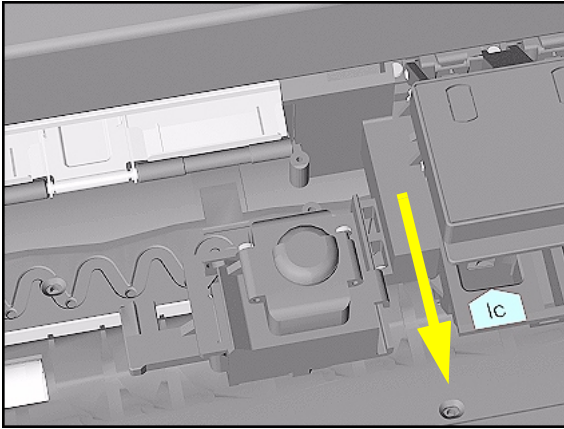
7. Push the button to release the Printhead Tubes from the Carriage.



8. Release the retaining clip by pulling it away from the holding brackets.



9. Remove 1 T-8 screw (**Type V**) and washer that attaches the Cutter to the Carriage.



- 10.** Slide the Cutter towards you and remove from the Printer.



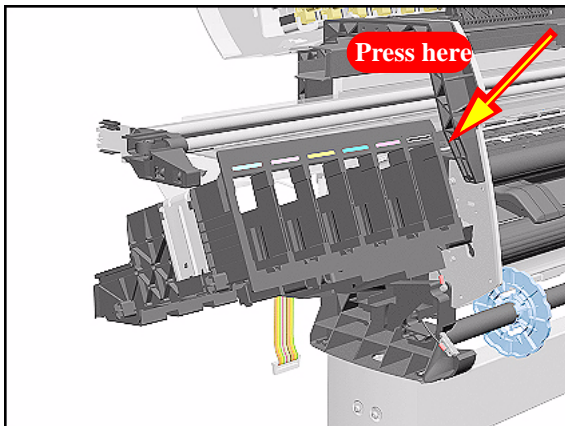
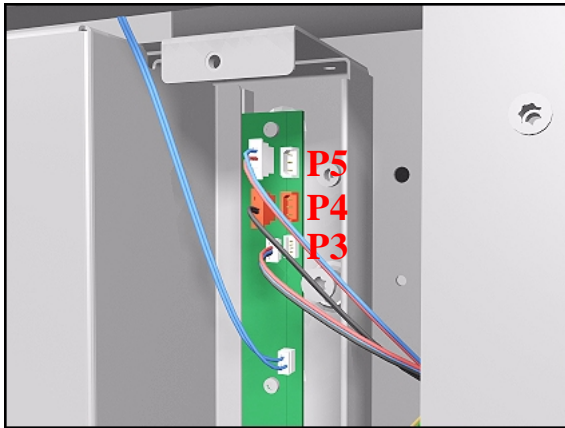
## Ink Supply Station (ISS)

### Removal

#### **WARNING**

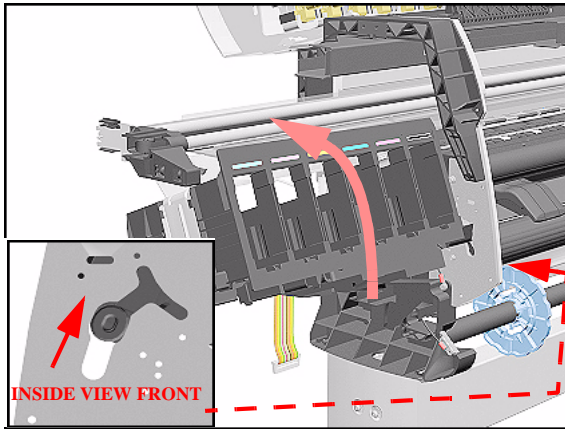
**Switch off the Printer and remove the Power Cord.**

1. Remove the Left Hand Cover - Refer to Page 8-6.
2. Remove the Left Rear Cover - Refer to Page 8-15.
3. Remove the Back Extension Cover (Only for the 60" Model) - Refer to Page 8-17.
4. Disconnect APS Cables (P5, P4 and P3) from the ISS PCA.

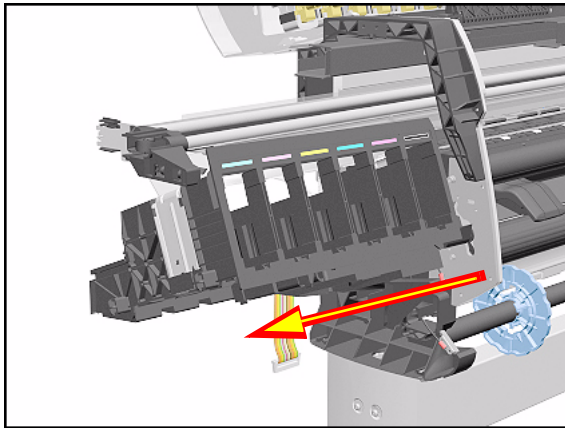


5. To remove the ISS, stand at the end of the Printer and press in the retaining clip on the ISS.

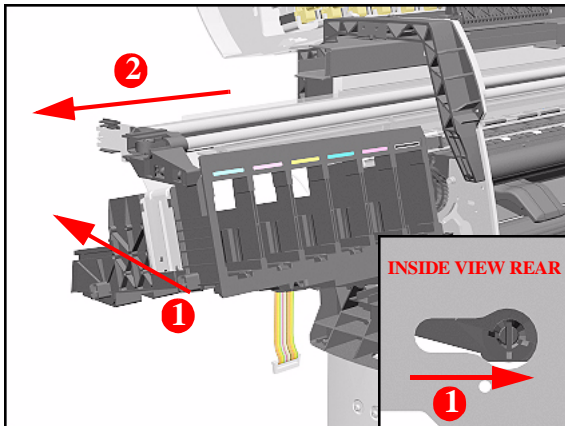




6. While pressing in the retaining clip (step 5), rotate the right side of the ISS up and left.



7. Pull out the right side of the ISS.



8. Slide the ISS to the left and pull out the left side to remove from the Printer.

## Installation of ISS

---

### NOTE

If the ISS is to be replaced, make sure you remove the APS from the old ISS and, after installing the Grounding Plate, reinstall it on the new ISS.

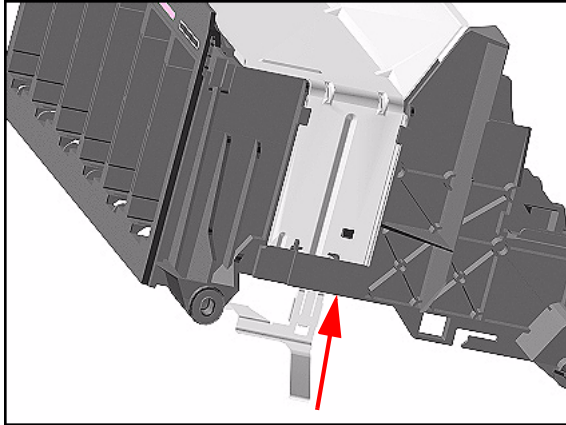
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### WARNING

When replacing the ISS remember to insert the Grounding Plate into the slot as shown (before reinstalling the APS).

---



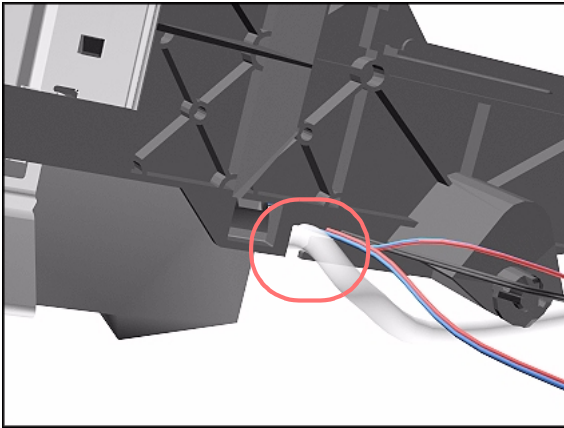
## Air Pressurization System (APS)

### Removal

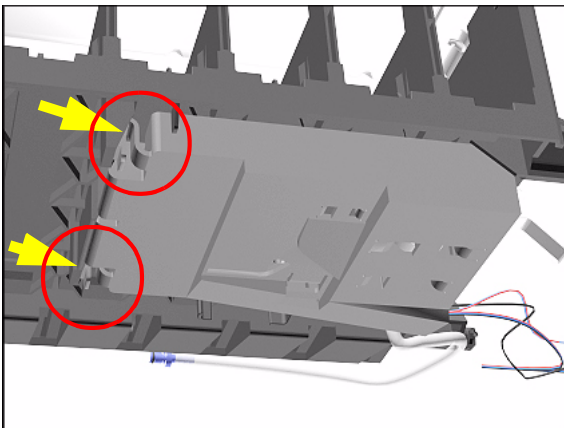
**WARNING**

Switch off the Printer and remove the Power Cord.

1. Remove the Left Hand Cover - Refer to Page 8-6.
2. Remove the Left Rear Cover - Refer to Page 8-15.
3. Remove the Back Extension Cover (Only for the 60" Model) - Refer to Page 8-17.
4. Remove the ISS - Refer to Page 8-64.
5. Remove the cables and tube from the slot on the ISS.
  - For the 42" Model, open the Cable Clip under the ISS holding the APS Cables to the ISS.

**NOTE**

When removing the APS from the ISS, take care with the tube and cables attached to the ISS.

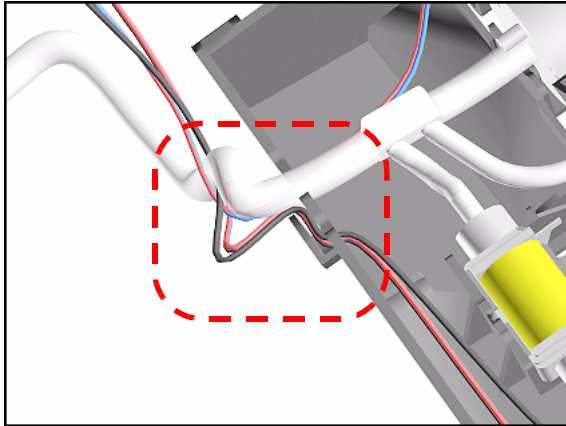


6. Push the retaining clips on the left side of the APS to release it from the ISS.

## Installation of APS

### **WARNING**

**When Installing the Air Pressurization System make sure the tube and wires are placed in the dedicated slots and perform the following steps:**



1. Before installing the APS on the ISS, insert first the 3 cables and then the tube in the dedicated slot.
2. Install the APS on the ISS.
3. For the 42" Model, secure the APS Cables to the ISS using the Cable Clip under the ISS.

### **NOTE**

**Before installing the ISS on the Printer, make sure the cable and tube are inserted in the ISS slot.**

## Service Station Assembly

### Removal

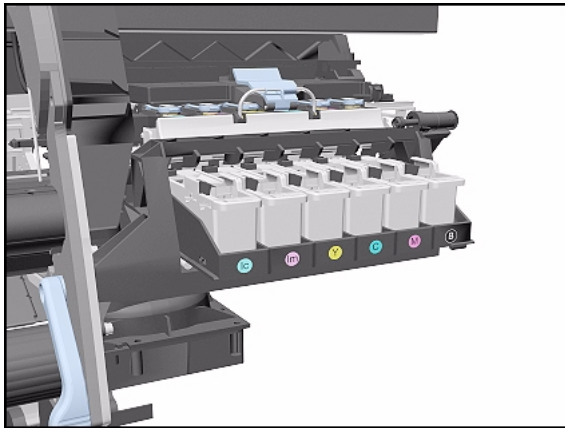
#### **WARNING**

Switch off the Printer and remove the Power Cord.

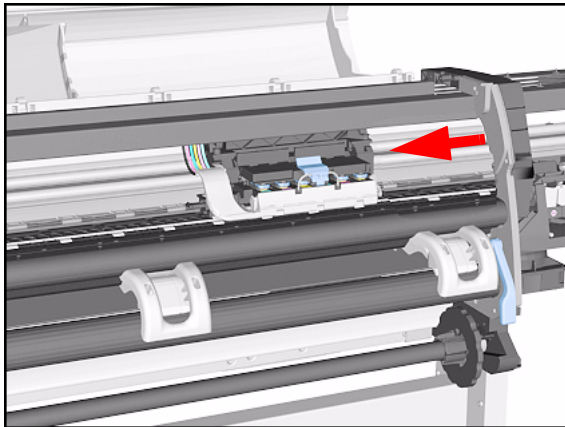
#### **NOTE**

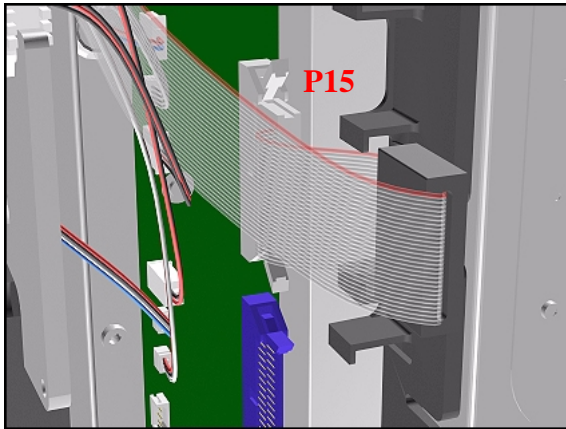
Refer to the table on Page 8-4 for information on screw types.

1. Remove the Right Rear Cover - Refer to Page 8-16.
2. Remove the Right Hand Cover - Refer to Page 8-10.
3. Remove the Printhead Cleaners.

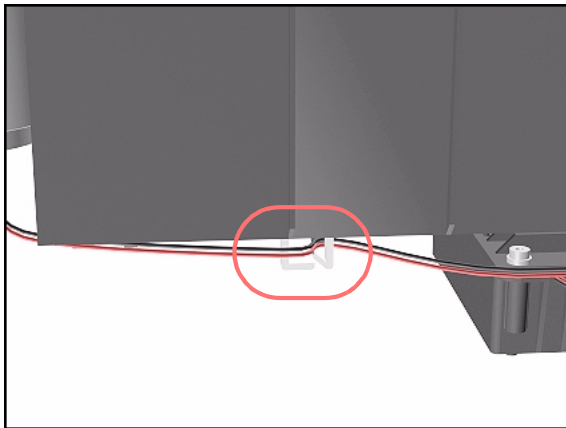


4. Manually slide the Carriage out of the Service Station.





5. Disconnect the Service Station Cable from the Main PCA (P15).

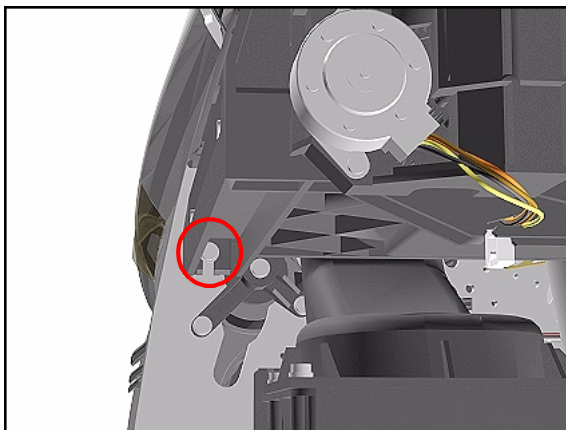


6. Unclip the Scan-Axis Motor Cable from the Service Station.

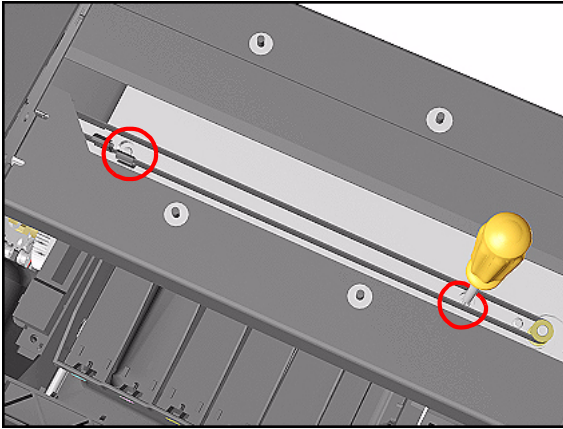
---

**NOTE** Follow the instructions in step 7 carefully; **LOOSEN** the screw and **DO NOT** remove.

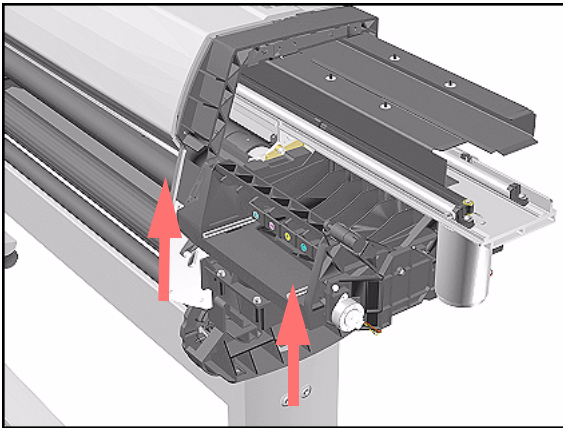
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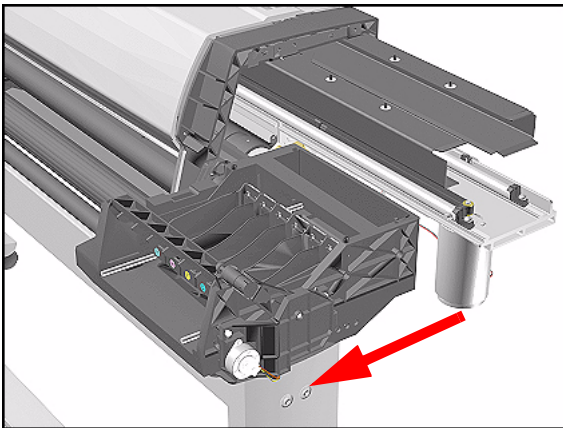
7. Loosen the T-20 screw (**Type A**) securing the Service Station to the side plate.



8. Remove 2 T-15 screws (**Type F**) between the two slider rods that attach the Service Station to the Chassis.



9. Standing in front of the Service Station, lift it off the loosened screw.



10. Pull the assembly out towards you and remove from the Printer.

**NOTE** Perform the following Service Calibration if the Service Station Assembly is replaced:

■ Service Station ⇒ Page 5-11.



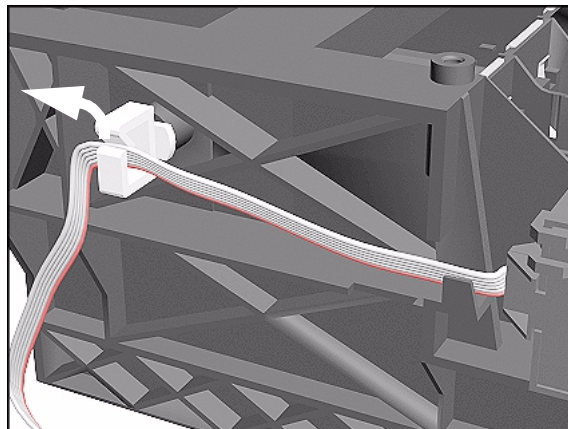
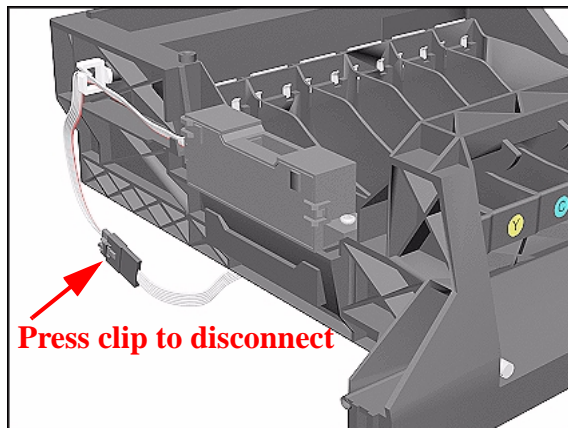
## Drop Detector Assembly

### Removal

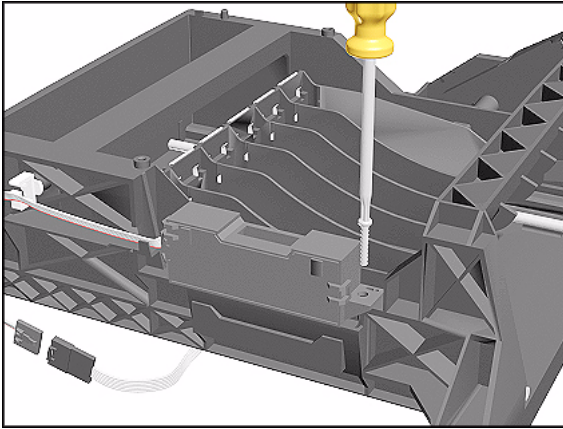
#### **WARNING**

**Switch off the Printer and remove the Power Cord.**

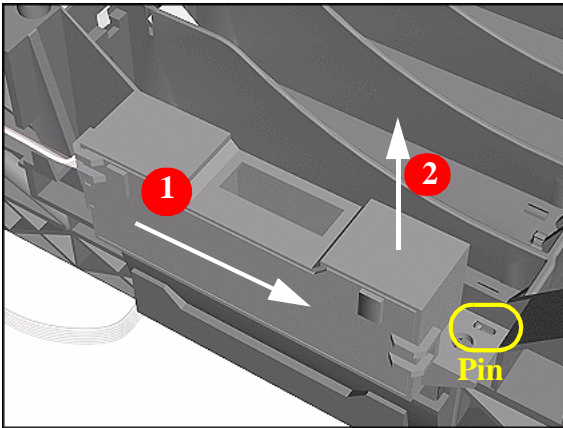
1. Remove the Right Rear Cover - Refer to Page 8-16.
2. Remove the Right Hand Cover - Refer to Page 8-10.
3. Remove the Service Station Assembly - Refer to Page 8-69.
4. Disconnect the Drop Detector cable from the Service Station Cable.



5. Release the cable from the Service Station.

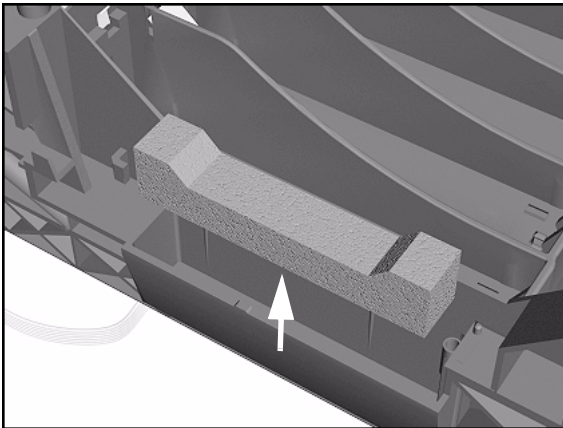


6. Remove the T-15 screw (**Type F**) that attaches the Drop Detector Assembly to the Service Station.



7. Remove the Drop Detector from the Service Station.

**NOTE** Move the Drop Detector towards the front of the Service Station until the locating pin reaches the end.



8. Lift the Foam from the Service Station.

**NOTE** The Foam may be full of ink so be careful when handling it.

**NOTE** If you replace the Drop Detector you must perform the following Service Calibration:

- Service Station ⇒ Page 5-11.

## Hard Disk Drive (HDD)

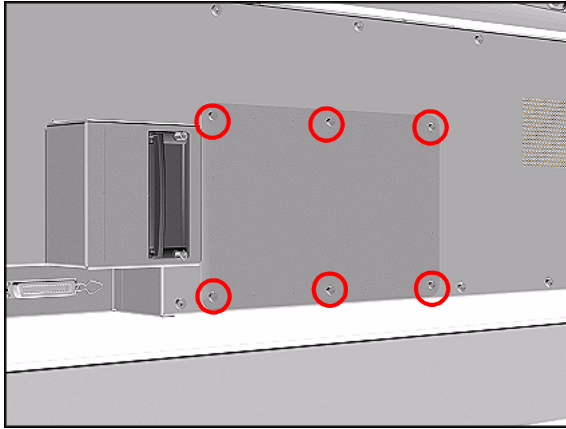
### Removal

#### **WARNING**

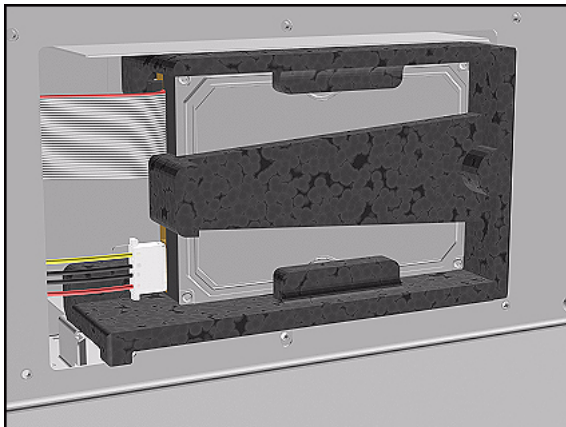
Switch off the Printer and remove the Power Cord.

#### **NOTE**

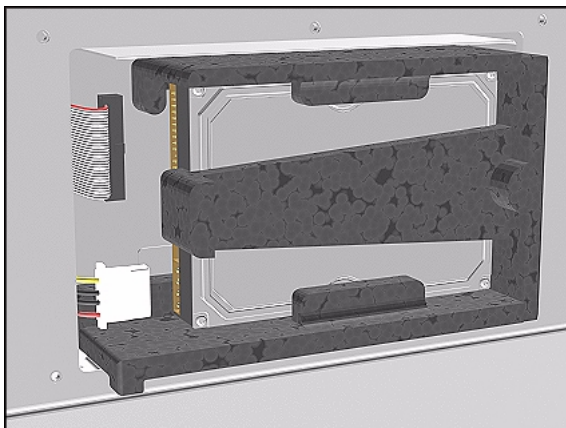
Refer to the table on Page 8-4 for information on screw types.



1. Remove 6 T-15 screws (**Type B**) from the HDD Access Cover. Remove the HDD Access Cover.



2. Remove the HDD with its foam holder.



3. Disconnect the HDD Cable and Power Supply Cable from the HDD.

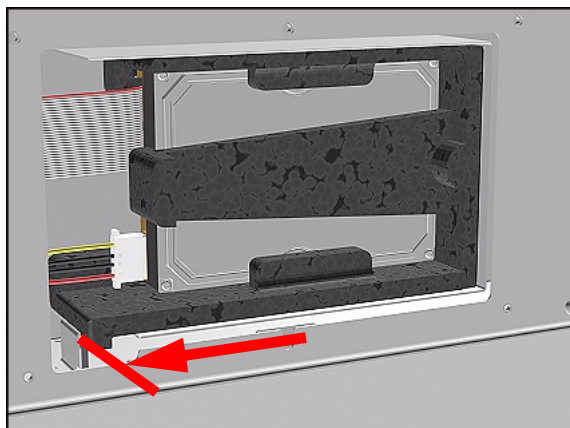
## Installation of Hard Disk Drive

### NOTE

If you replace the Main PCA and the HDD at the same time you must perform **ALL Service Calibrations** (⇒ Page 5-3) and the **EEROM Setup Service Utility** (⇒ Page 4-23).

### WARNING

When Installing the Hard Disk Drive make sure the holder is placed in the right position so that it cannot move.



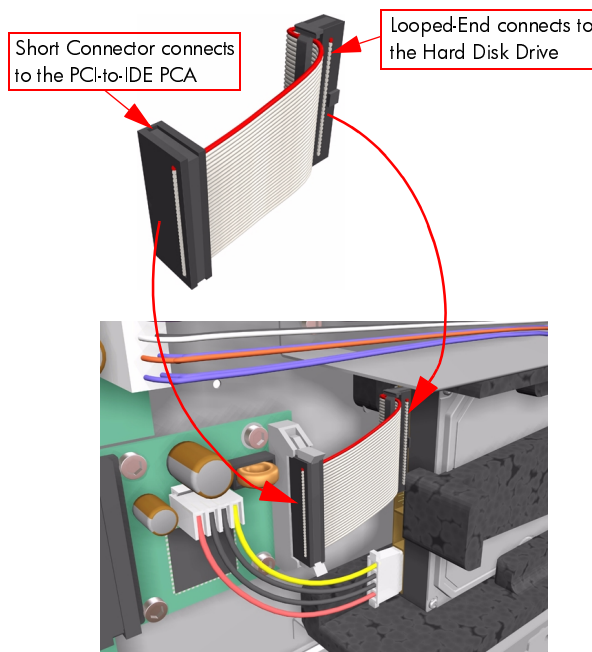
### NOTE

When the Hard Disk Drive is replaced perform the following Service Utility:

- Backup EEROM (select HDD replaced) ⇒ Page 4-30.

### NOTE

If you have to replace the HDD Cable, refer to the following drawing:



**IF THE HDD CABLE IS NOT CONNECTED CORRECTLY, IT MAY CAUSE SOME INTERMITTENT PROBLEMS.**

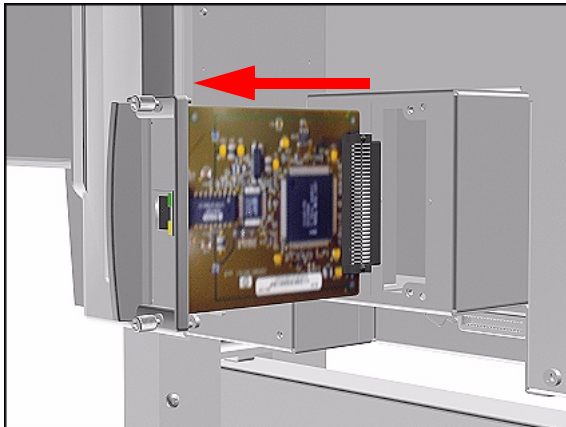
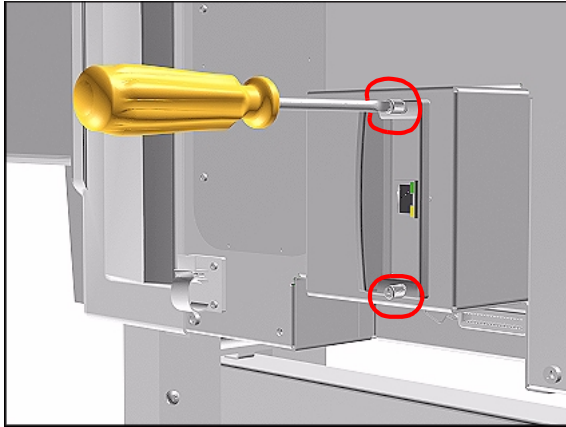
## LAN Card

### Removal

#### **WARNING**

**Switch off the Printer and remove the Power Cord.**

1. Disconnect the LAN cable from the LAN Card at the rear of the Printer.
2. Using a flat end screwdriver, unscrew the two screws that attach the LAN Card to the Printer.
3. Remove the LAN Card and store in a safe place.



## Memory and BootROM DIMM's

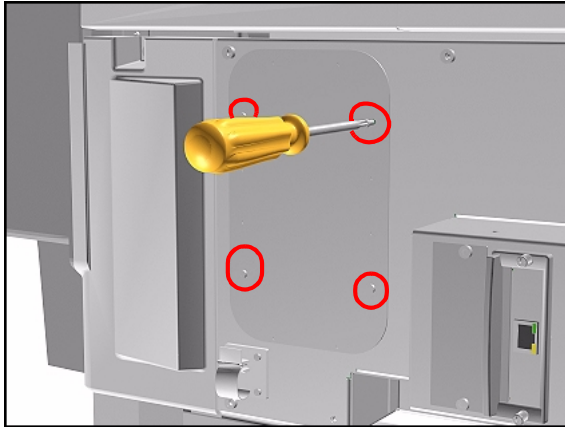
### Removal

**WARNING**

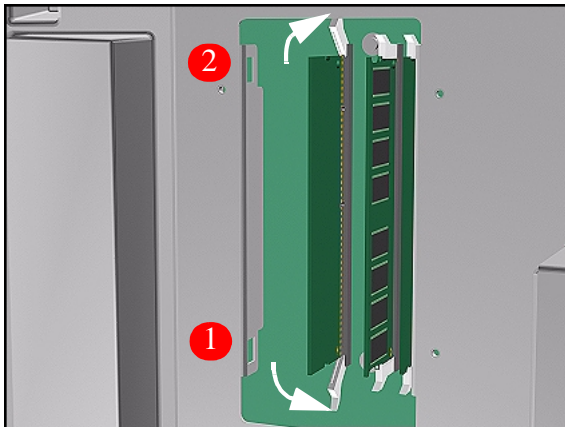
Switch off the Printer and remove the Power Cord.

**NOTE**

Refer to the table on Page 8-4 for information on screw types.

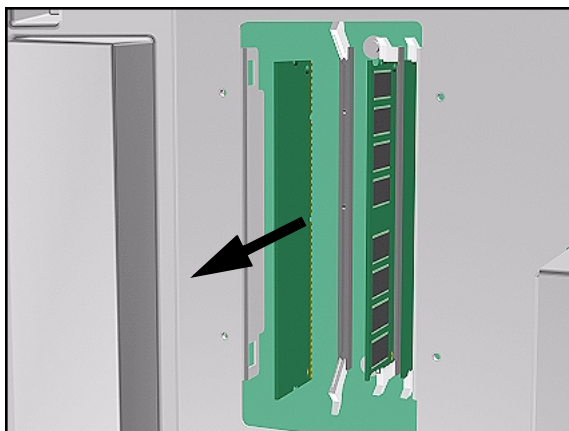


1. Remove 4 T-10 screws (**Type P**) from the DIMM Access Cover. Remove the DIMM Access Cover.



2. To remove a DIMM, first push down the lower locking tab and then push up the upper locking tab to release the DIMM.





3. Pull out the DIMM. Take care that it does not fall out.

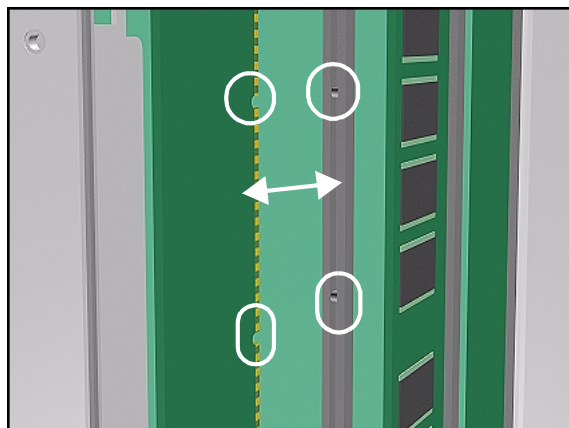
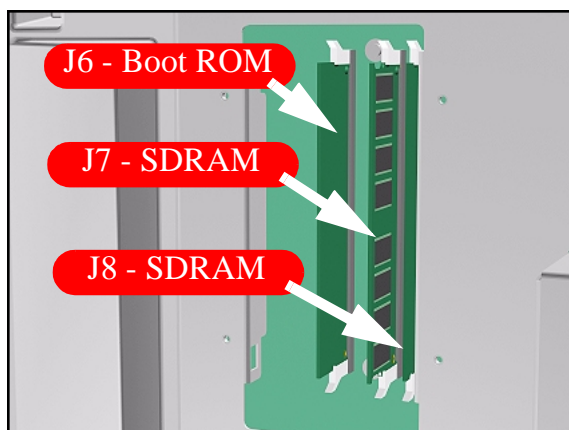
### Installation of DIMM's

#### **WARNING**

When installing the DIMM's make sure they are in the correct position as shown in the diagram.

#### **NOTE**

Note the position of the BootROM and the SDRAM (memory) modules.





## Electronics Module Cover

### Removal

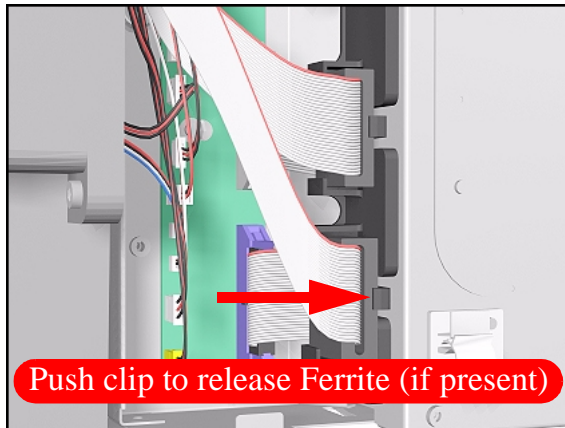
**WARNING**

Switch off the Printer and remove the Power Cord.

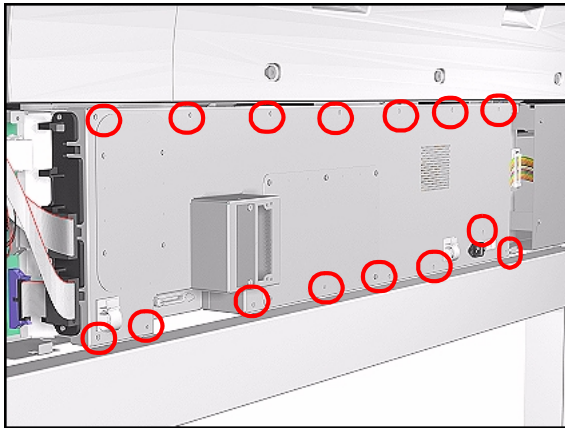
**NOTE**

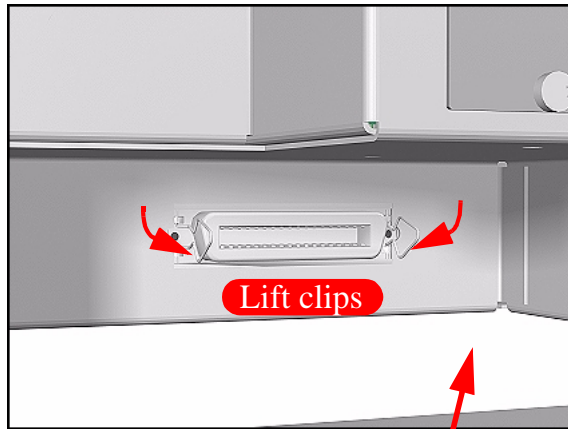
Refer to the table on Page 8-4 for information on screw types.

1. Remove the LAN Card - Refer to Page 8-76.
2. Remove Left Rear Cover - Refer to Page 8-15.
3. Remove Right Rear Cover - Refer to Page 8-16.
4. If present, remove the Ferrites from the Ferrite Holder on the right side.

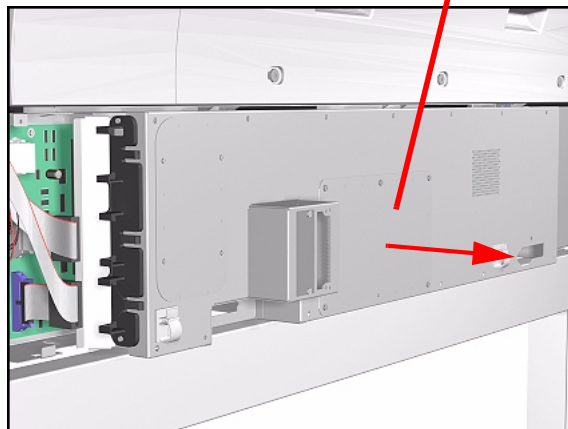


5. Remove 15 T-15 screws (**Type B**) from the Electronics Module Cover.





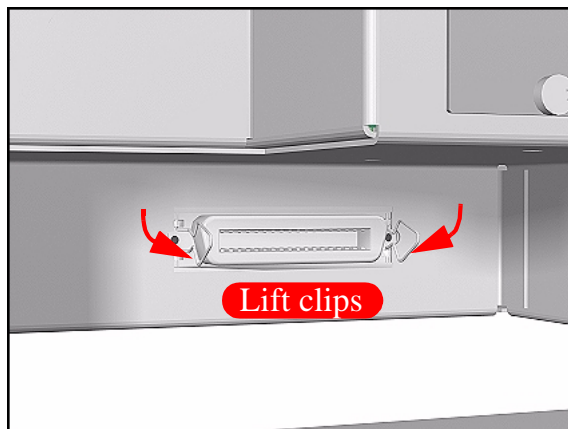
**NOTE** Lift the Parallel Port Clips before removing the Cover.



6. Remove the Electronics Module Cover.

## Installation of the Electronics Module Cover

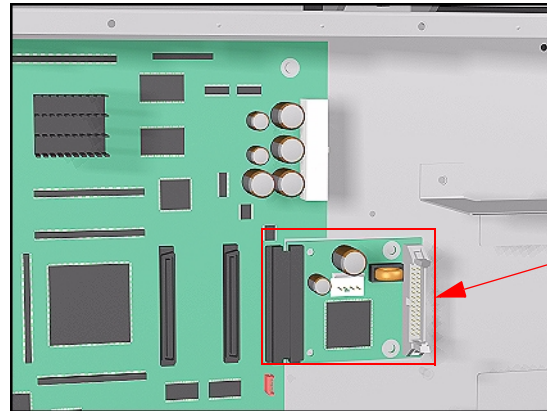
**NOTE** When Installing the Electronics Module Cover make sure the parallel port connector clips are in closed position i.e. UP, so that they pass through the slot in the Cover.



## Main PCA

### **WARNING**

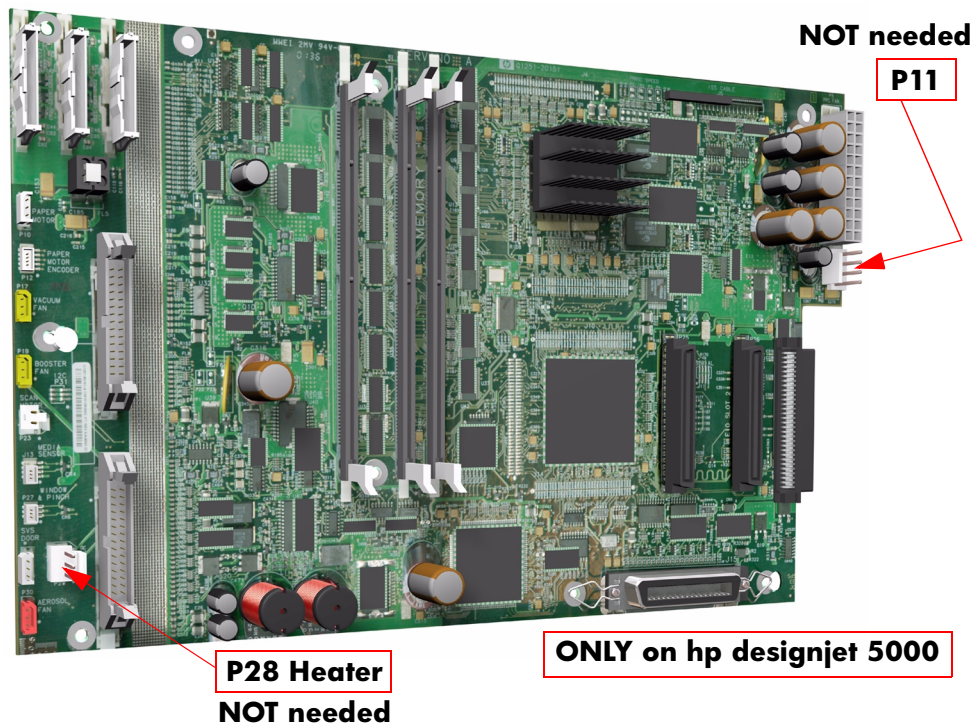
This assembly does **NOT** include the PCI-to-IDE PCA (the small PCA that connects the Main PCA to the Hard Disk Drive) as it used to in the past. When installing the new Main PCA, make sure that you reuse the PCI-to-IDE PCA that was disassembled previously.



**PCI-to-IDE PCA**

### **WARNING**

If you are working with an hp designjet 5000 (C6090A/V/I, C6091A/V, C6095A/V/I, C6096A/V) and the new Main PCA has the following connectors, you do **NOT** need to use them (they can be ignored):



**NOT needed**

**P11**

**P28 Heater  
NOT needed**

**ONLY on hp designjet 5000**

## Removal

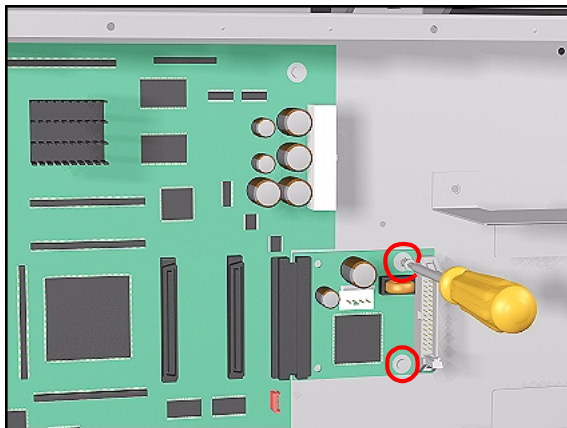
**WARNING** Switch off the Printer and remove the Power Cord.

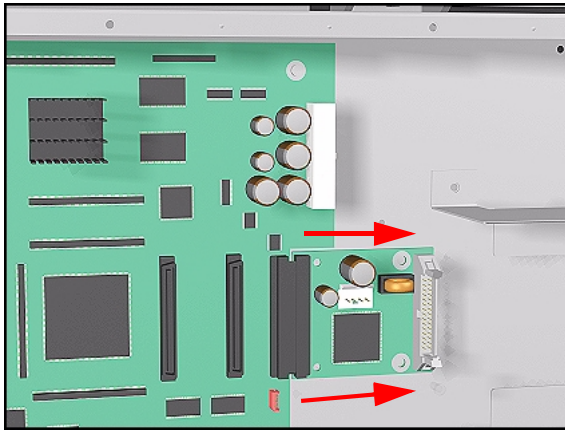
**NOTE** Refer to the table on Page 8-4 for information on screw types.

1. Remove the LAN Card - Refer to Page 8-76.
2. Remove the Left Rear Cover - Refer to Page 8-15.
3. Remove the Right Rear Cover - Refer to Page 8-16.
4. Remove the Electronics Module Cover - Refer to Page 8-79.
5. Disconnect and remove the Hard Disk Drive for safety reasons - Refer to Page 8-74.
6. Remove ALL Firmware/Memory DIMMs - Refer to Page 8-77.

**NOTE** Make sure you reinstall the Firmware/Memory DIMMs on the new Main PCA.

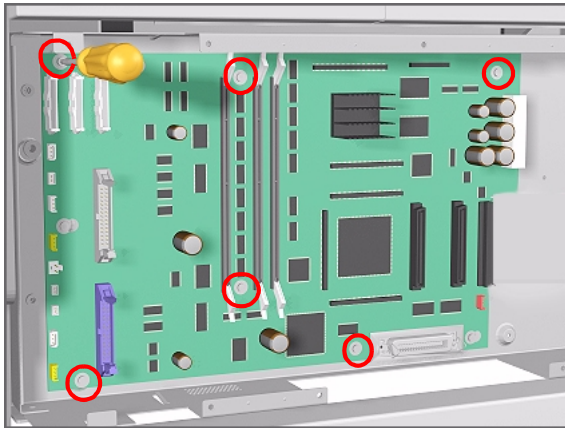
7. Disconnect ALL Cables from the Electronics Module.
8. Remove 2 T-10 screws (**Type K**) to remove the PCI-to-IDE PCA.



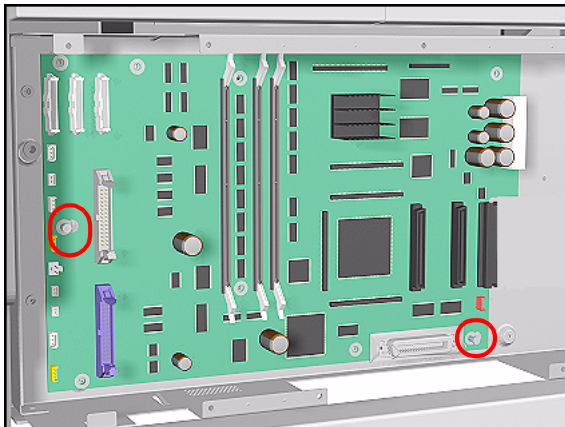


9. Disconnect the PCI-to-IDE PCA and remove from the Printer.

**NOTE** Make sure you reuse the PCI-to-IDE PCA when reassembling.

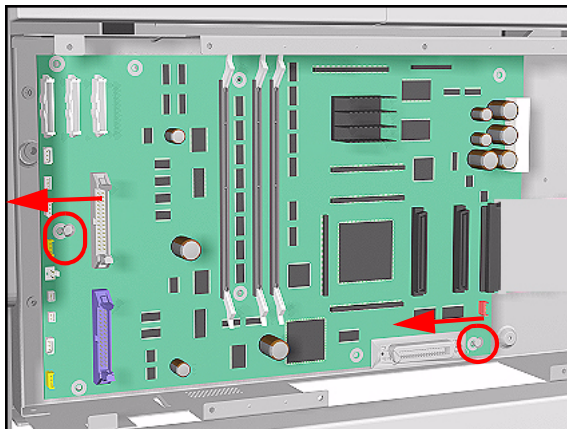


10. Remove 6 T-10 screws (Type K) from the Main PCA.

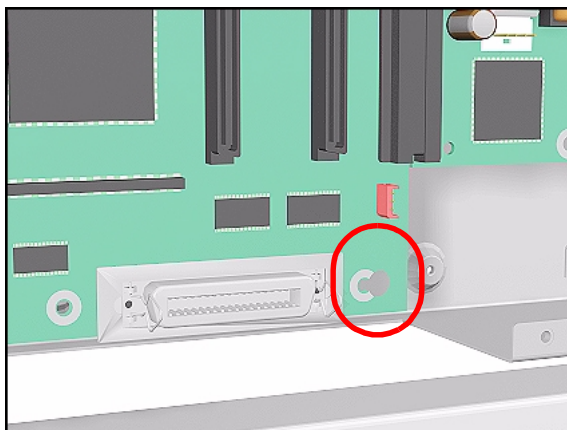


11. Loosen 2 T-10 screws on the Main PCA.





12. Remove by sliding the Main PCA to the left and lifting out (see detail below).



**NOTE** Detail of Main PCA removal.

### Installation of Main PCA

**NOTE** When the Main PCA has been replaced, perform the Backup EEROM ⇒ Page 4-30.

**NOTE** If you replace the Main PCA and the HDD at the same time you must perform ALL Service Calibrations (⇒ Page 5-3) and the EEROM Setup Service Utility (⇒ Page 4-23).

**NOTE** If you are not sure how the cables are connected on the Main PCA, each connector is labelled with the name of the assembly to which it is connected.

**NOTE** When installing the Hard Disk Drive, please refer to the instructions for the installation of the PCI-to-IDE PCA (Refer to Page 8-86) and the installation of the HDD Cable (Refer to Page 8-87).

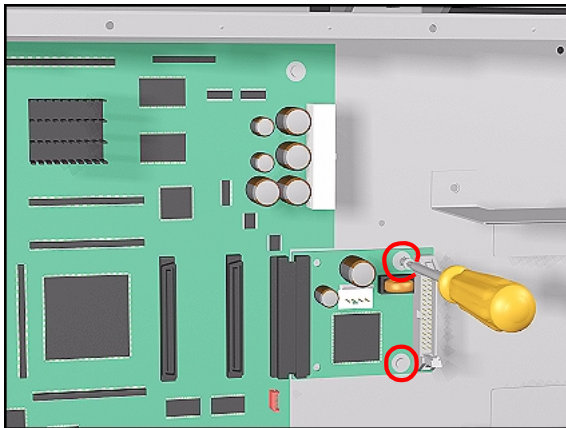
## PCI-to-IDE PCA

### Removal

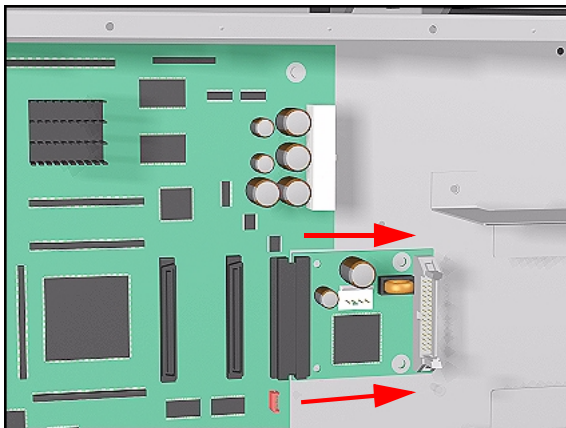
**WARNING** Switch off the Printer and remove the Power Cord.

**NOTE** Refer to the table on Page 8-4 for information on screw types.

1. Remove the LAN Card - Refer to Page 8-76.
2. Remove the Left Rear Cover - Refer to Page 8-15.
3. Remove the Right Rear Cover - Refer to Page 8-16.
4. Remove the Electronics Module Cover - Refer to Page 8-79.
5. Disconnect and remove the HDD for safety reasons - Refer to Page 8-74.
6. Remove 2 T-10 screws that secure the PCI-to-IDE PCA.



7. Disconnect the PCI-to-IDE PCA and remove from the Printer.

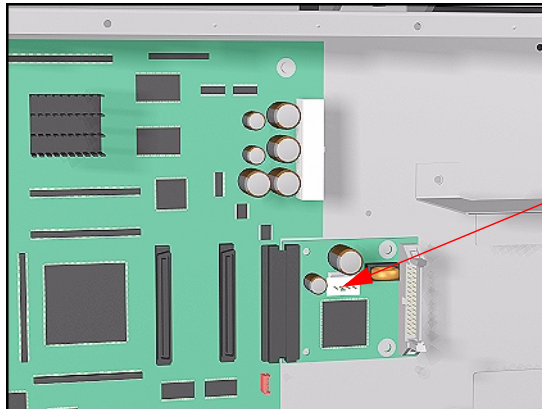




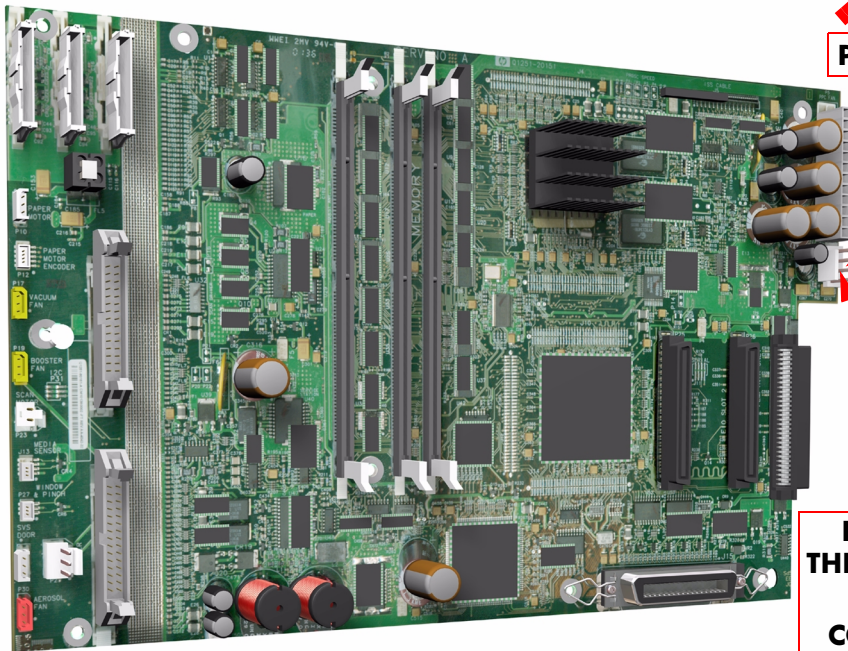
## Installation of the PCI-to-IDE PCA

### NOTE

When installing the new PCI-to-IDE PCA, CONNECT THE HDD POWER CABLE TO THE P36 CONNECTOR (IF PRESENT) ON THE PCI-TO-IDE PCA AND NOT TO THE P11 CONNECTOR ON THE MAIN PCA (even if the P11 connector is present and the HDD Power Cable was connected there previously).



**✓ OK**  
**P36 Connector**

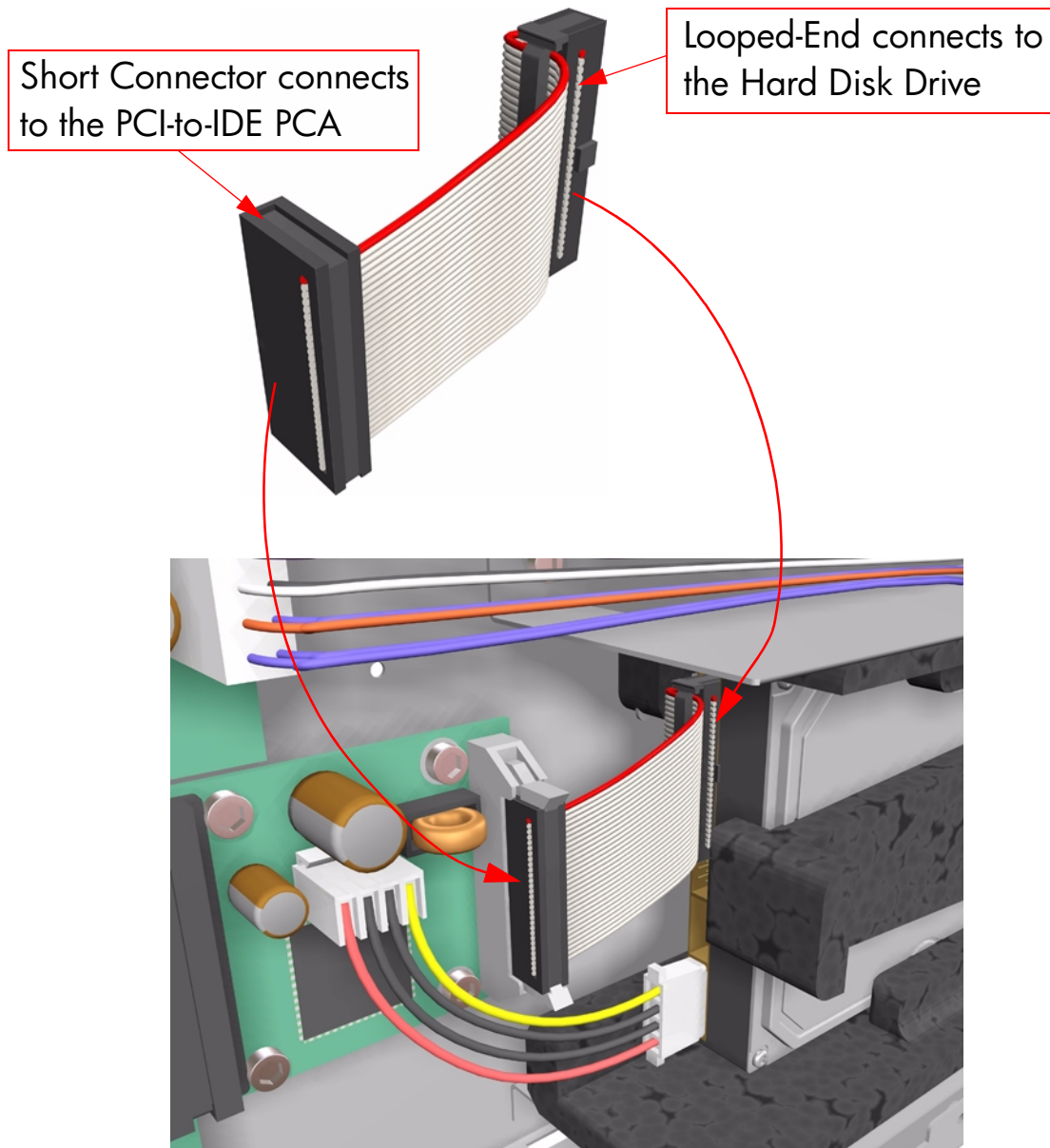


**✗ NO**  
**P11 Connector**

**DO NOT USE  
THIS CONNECTOR  
IF THE P36  
CONNECTOR IS  
PRESENT ON THE  
PCI-to-IDE PCA**

## Installing the HDD Cable

When installing the HDD Cable between the HDD and the PCI-to-IDE PCA, make sure you connect the correct ends as follows:



**IF THE HDD CABLE IS NOT CONNECTED CORRECTLY, IT MAY CAUSE SOME INTERMITTENT PROBLEMS.**

## Power Supply Unit (PSU)

### Removal

---

**WARNING**

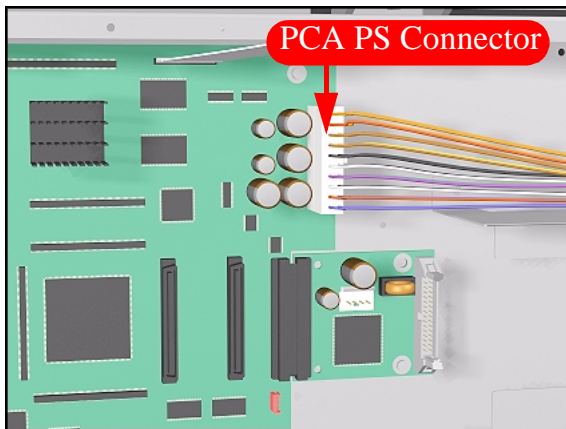
Switch off the Printer and remove the Power Cord.

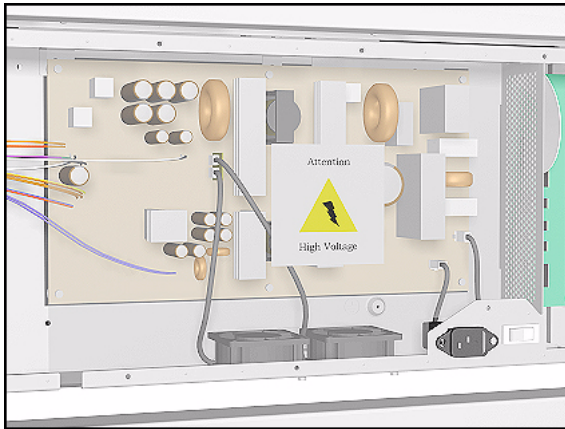
---

**NOTE**

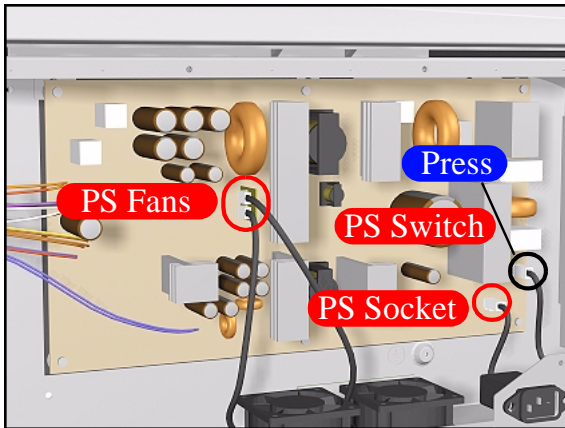
Refer to the table on Page 8-4 for information on screw types.

1. Remove the LAN Card - Refer to Page 8-76.
2. Remove the Left Rear Cover - Refer to Page 8-15.
3. Remove the Right Rear Cover - Refer to Page 8-16.
4. Remove the Electronics Module Cover - Refer to Page 8-79.
5. Disconnect and remove the Hard Disk Drive for safety reasons - Refer to Page 8-74.
6. Disconnect the PCA Power Supply connector from the Main PCA.

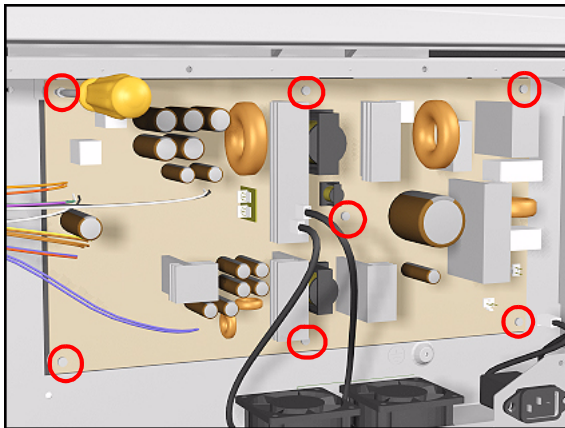




7. Remove the plastic protective cover from the Power Supply Unit.



8. Disconnect ALL Cables from the PSU (see Installation of PSU for connections).

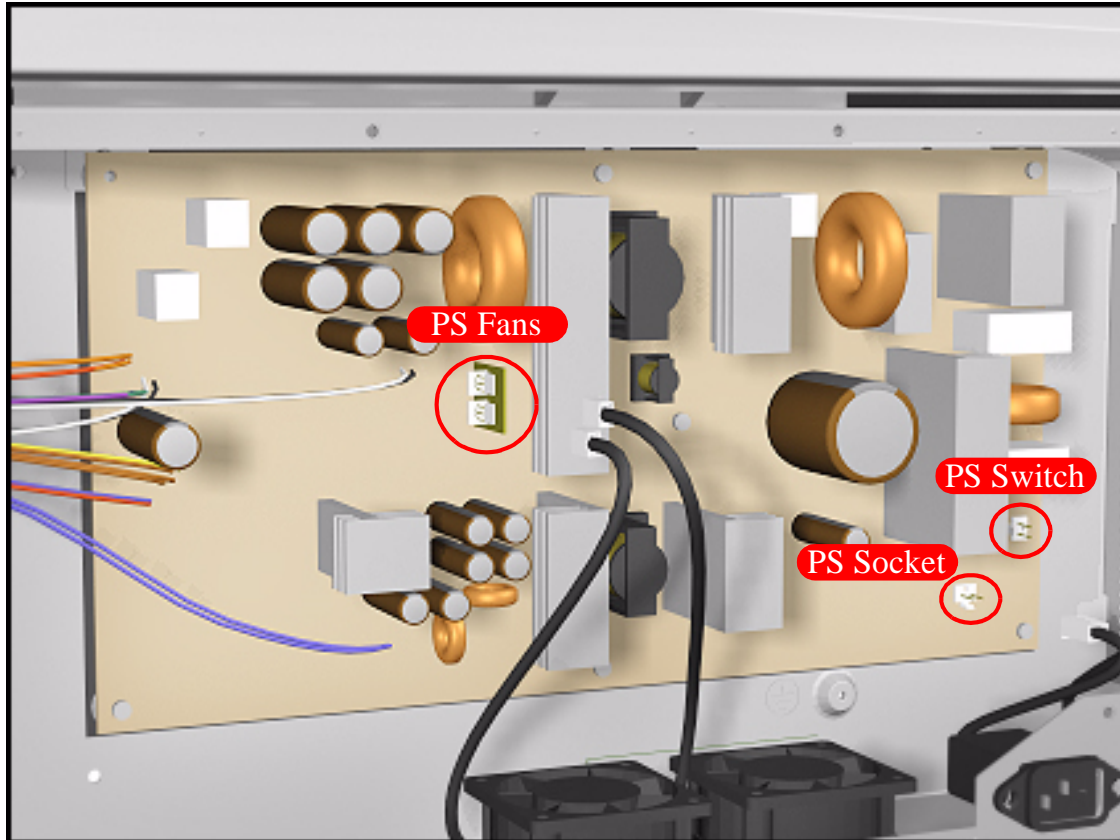


9. Remove 7 T-10 screws (**Type K**) and remove the PSU.

## Installation of the Power Supply Unit (PSU)

**WARNING** After installing the Power Supply Unit, remember to place the plastic protective cover over the unit.

**NOTE** The Power Supply Unit connections are illustrated below.





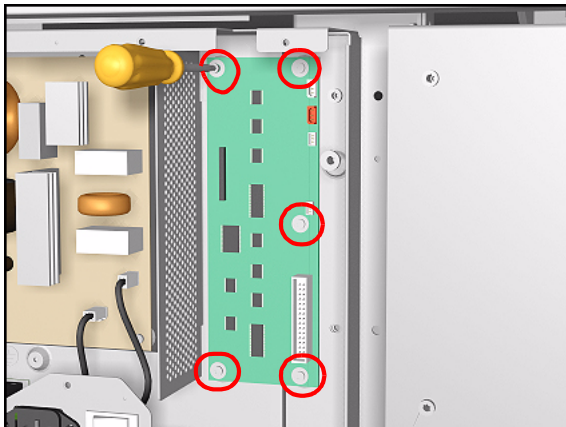
## Ink Supply Station (ISS) PCA

### Removal

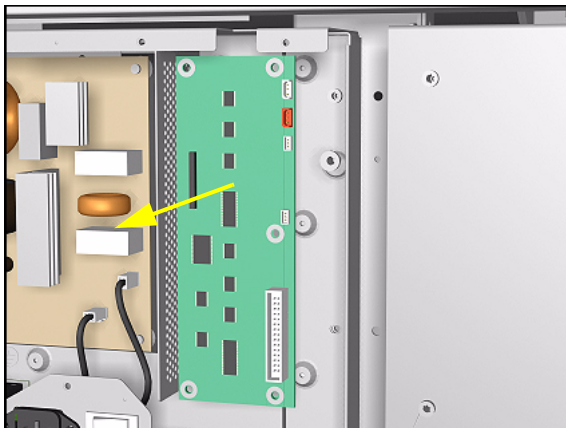
**WARNING** Switch off the Printer and remove the Power Cord.

**NOTE** Refer to the table on Page 8-4 for information on screw types.

1. Remove the LAN Card - Refer to Page 8-76.
2. Remove the Left Rear Cover - Refer to Page 8-15
3. Remove the Right Rear Cover - Refer to Page 8-16.
4. Remove the Electronics Module Cover - Refer to Page 8-79.
5. Disconnect ALL Cables from the ISS PCA (see installation of ISS PCA for connections).
6. Remove 5 T-10 screws (**Type K**) from the ISS PCA.

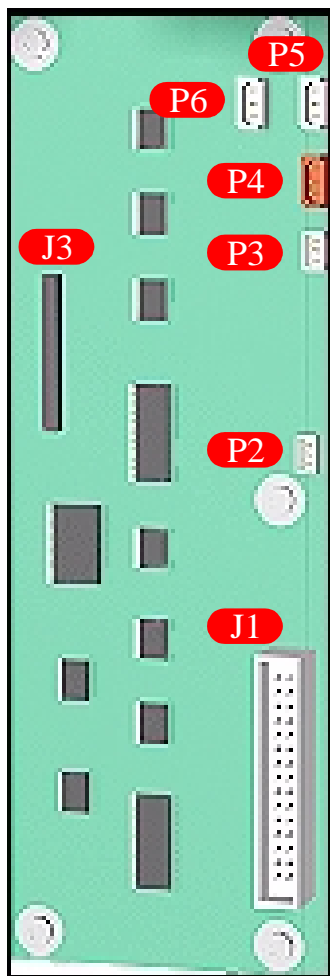


7. Remove the ISS PCA.



## Installation of the ISS PCA

**NOTE** The ISS PCA connections are illustrated below.



J Position	Connection	Connector Color	P Position	Connection	Connector Color
J1	ISS Cable	white	P2*	Ink Leak Detector	white
J3	Main PCA	white	P3	APS Temperature	white
			P4	APS Valve	red
			P5**	APS Pump	white
			P6**	APS Pump (Spare)	white

\* The Ink LeakDetector has been discontinued so this connector is no longer used.

\*\* There are 2 connectors available for the APS Pump and any one of them can be used.



## Ink Leak Detector - If Present (Only Applicable to the 5000 Series)

### Removal

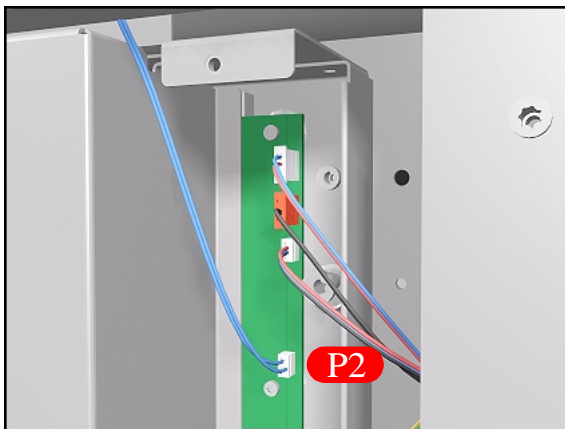
**WARNING**

Switch off the Printer and remove the Power Cord.

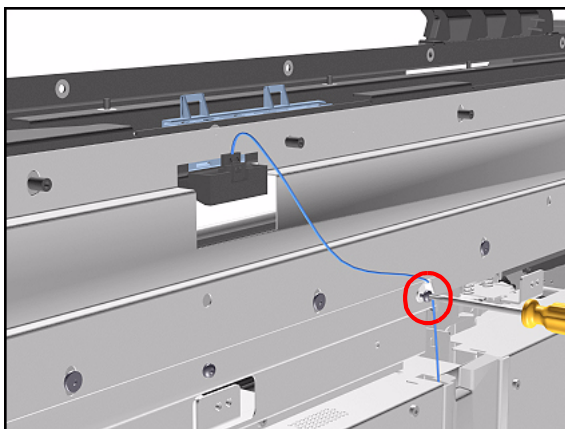
**NOTE**

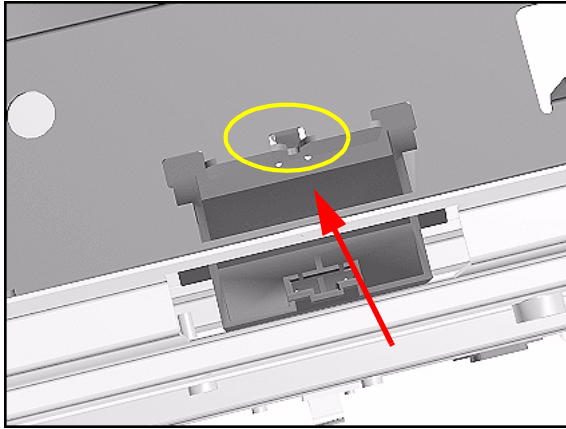
Refer to the table on Page 8-4 for information on screw types.

1. Remove the Left Rear Cover - Refer to Page 8-15.
2. Remove the Top Cover - Refer to Page 8-5.
3. Remove the Back Cover - Refer to Page 8-23.
4. Disconnect the Ink Leak Detector cable at position P2 from the ISS PCA.



5. Remove one T-15 screw (**Type B**) to release the cable clip on the Top EMC cover.





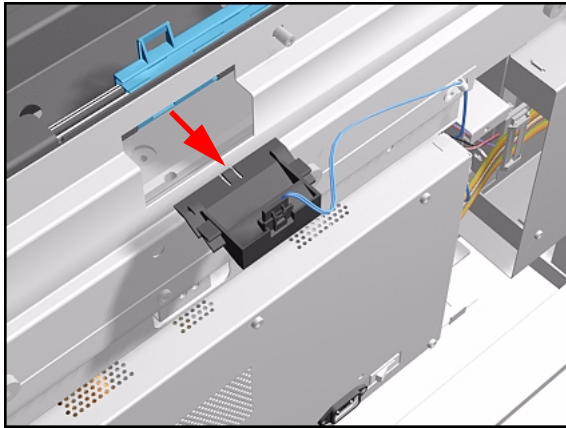
6. Press the retaining clip on the Ink Leak Detector and release it.

---

**TIP**

---

**A screwdriver can be used to press the retaining clip down.**



7. Remove the Ink Leak Detector from the Printer.

## Cooling Fans

### Removal

---

**WARNING**

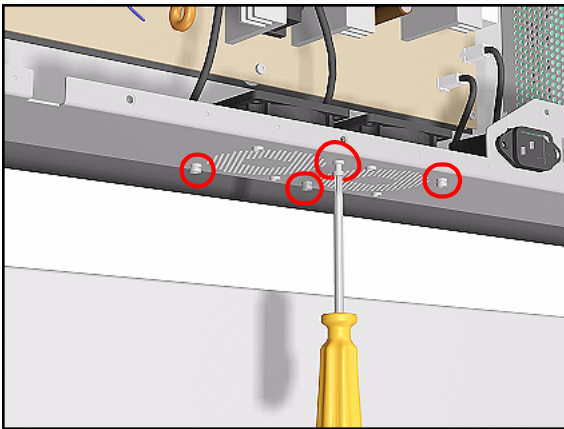
Switch off the Printer and remove the Power Cord.

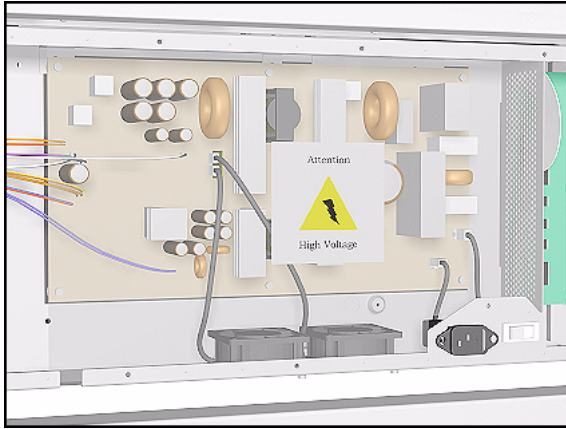
---

**NOTE**

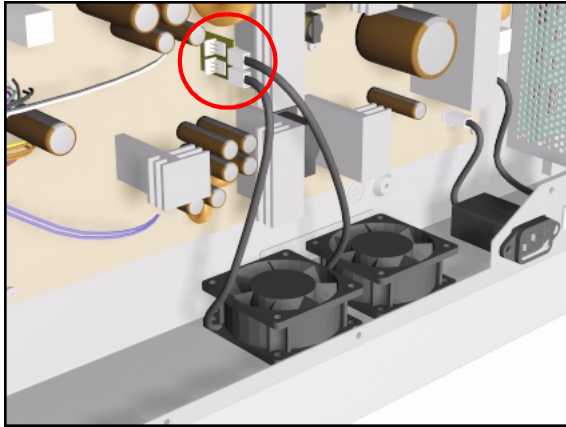
Refer to the table on Page 8-4 for information on screw types.

1. Remove the LAN Card - Refer to Page 8-76.
2. Remove the Left Rear Cover - Refer to Page 8-15.
3. Remove the Right Rear Cover - Refer to Page 8-16.
4. Remove the Electronics Module Cover - Refer to Page 8-79.
5. Disconnect and remove the Hard Disk Drive for safety reasons - Refer to Page 8-74.
6. Remove 2 screws for each Cooling Fan from underneath the Electronics Module.

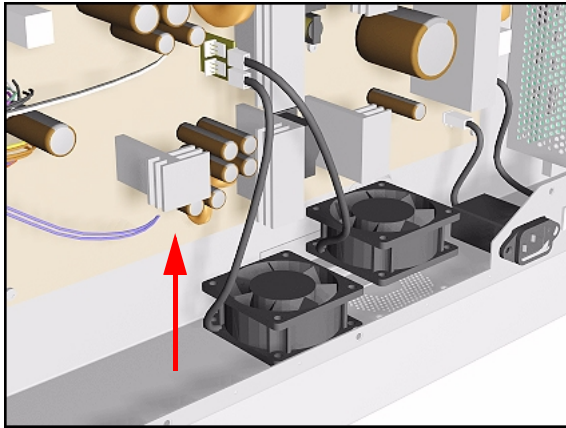




7. Remove the plastic Protective Cover from the Power Supply Unit.



8. Disconnect the Cooling Fan Cables from the Power Supply Unit.



9. Remove the Cooling Fans from the Printer.

## Electronics Module (as one complete Assembly)

### Removal

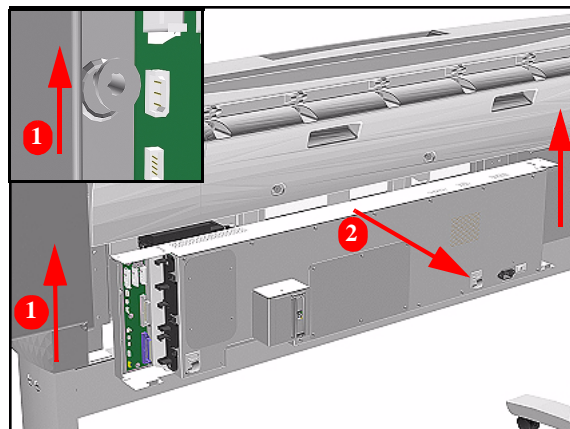
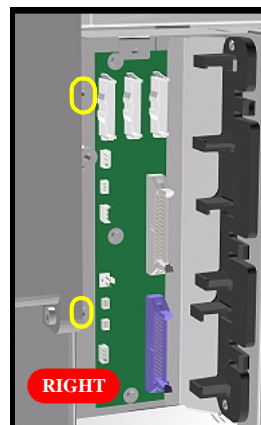
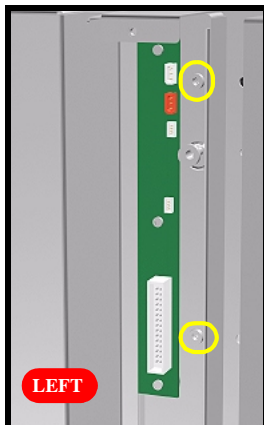
#### **WARNING**

Switch off the Printer and remove the Power Cord.

#### **NOTE**

Refer to the table on Page 8-4 for information on screw types.

1. Remove the Left Rear Cover - Refer to Page 8-15.
2. Remove the Right Rear Cover - Refer to Page 8-16.
3. Disconnect ALL Cables from the Main PCA (Right Rear Cover) and ISS PCA (Left Rear Cover) and remove the Ferrites from the left side.
4. Remove 2 T-15 screws (**Type B**) from the both sides of the Electronics Module.



5. Lift the Electronics Module up (to clear it from the shoulder screws) and remove from the Printer.

## Pinch-Wheels

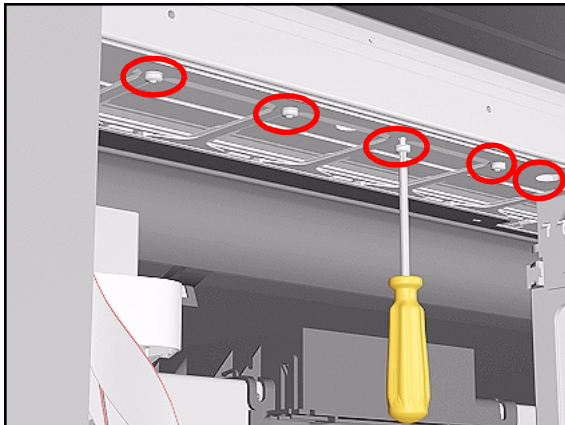
### Removal

**WARNING** Switch off the Printer and remove the Power Cord.

**NOTE** Refer to the table on Page 8-4 for information on screw types.

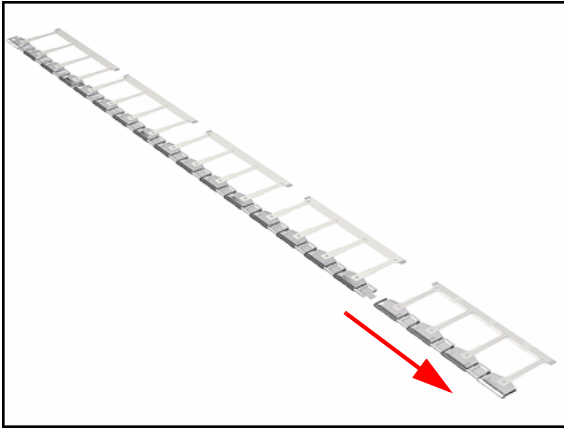
1. Remove the Top Cover - Refer to Page 8-5.
2. Remove the Back Cover - Refer to Page 8-23.
3. Remove the Electronics Module - Refer to Page 8-97.
4. Remove EMC Covers as one assembly - Refer to Page 8-32.

**NOTE** For the next steps place the Media Lever in the UP position.



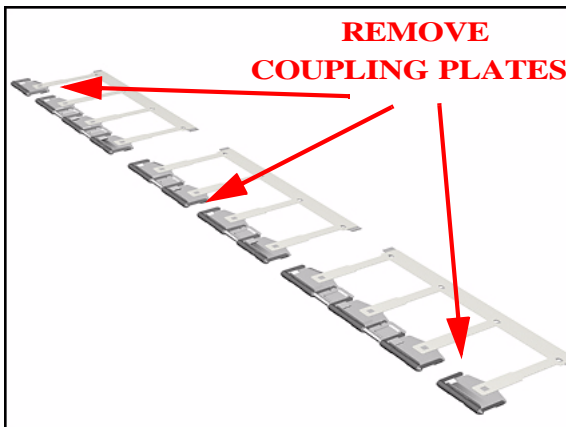
5. Remove the following T-20 screws (Type Q):
  - For the 60" Model remove 4 screws from each group of 4 Pinch-Wheels (5 groups in total).
  - For the 42" Model remove 4 screws from each group of 4 Pinch-Wheels (3 groups in total) and 2 screws from the one group with 2 Pinch-Wheels.



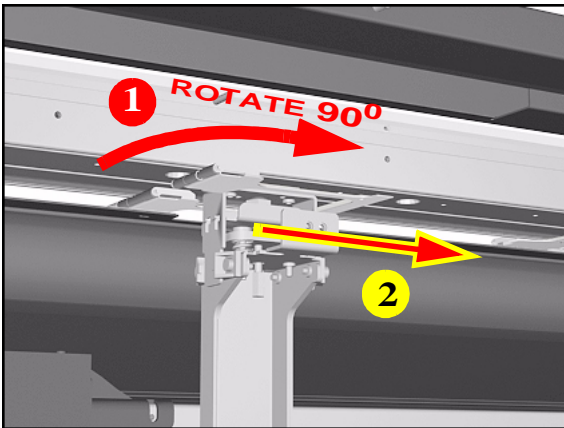


6. First remove lateral Pinch-Wheels with their Coupling Plates.

**NOTE** For Pinch-Wheel groups installed around the Mount Brackets do the following:



7. From the front of the Printer, remove the Coupling Plate corresponding to the position of the Mount Bracket.
  - 3 Mount Brackets in the 60" Model.
  - 1 Mount Bracket in the 42" Model.



8. From the rear of the Printer, rotate the group (90 degrees) and pull it through the gap left by the Coupling Plate.

## Installation of Pinch-Wheels

### NOTE

During installation, make sure you install the White Pinch-Wheels at each end of the Printer axis.

## Pinch-Wheel Cam

### Removal

---

**WARNING**

---

Switch off the Printer and remove the Power Cord.

---

**NOTE**

---

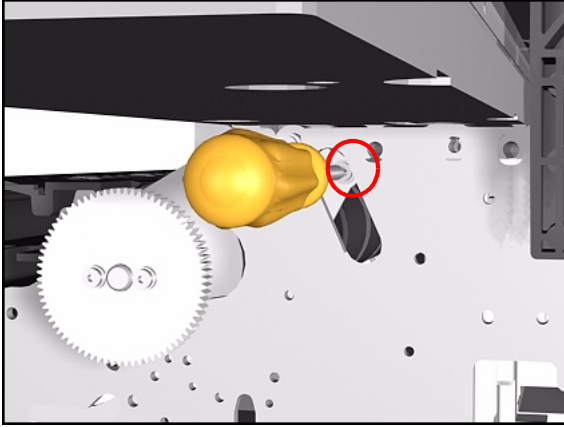
Refer to the table on Page 8-4 for information on screw types.

1. Remove Right Rear Cover - Refer to Page 8-16.
2. Remove Left Rear Cover - Refer to Page 8-15.
3. Remove the Deflectors - Refer to Page 8-119.
4. Remove the Left Hand Cover - Refer to Page 8-6.
5. Remove the Right Hand Cover - Refer to Page 8-10.
6. Remove the Left Hand Trim - Refer to Page 8-22.
7. Remove the Right Hand Trim - Refer to Page 8-20.
8. Remove the Media Lever Assembly - Refer to Page 8-18.
9. Remove the ISS - Refer to Page 8-64.
10. Remove the Service Station - Refer to Page 8-69.
11. Remove the Vacuum Fan - Refer to Page 8-103.
12. Remove the Electronics Module - Refer to Page 8-97.
13. Remove the Booster Fan - Refer to Page 8-108.
14. Remove the Media Sensor - Refer to Page 8-109.
15. Remove the Entry Roller - Refer to Page 8-111.

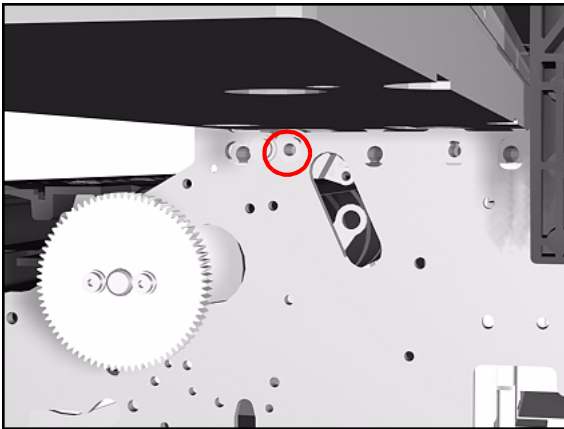
16. Remove the Center Guide - Refer to Page 8-112.

17. Remove the Pinch-Wheels - Refer to Page 8-97.

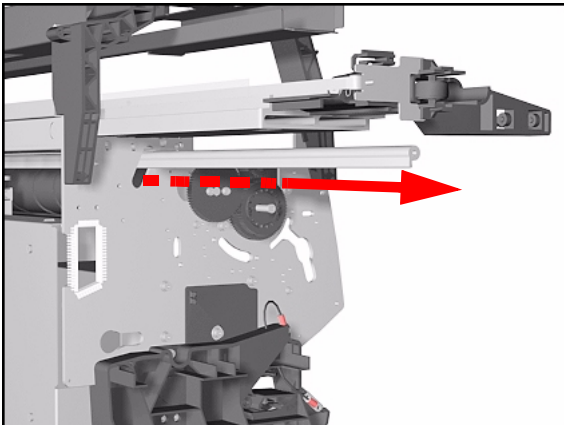
18. Through the slot in the right Sideplate, remove the T-15 screw (**Type H**) retaining the cam lever arm.



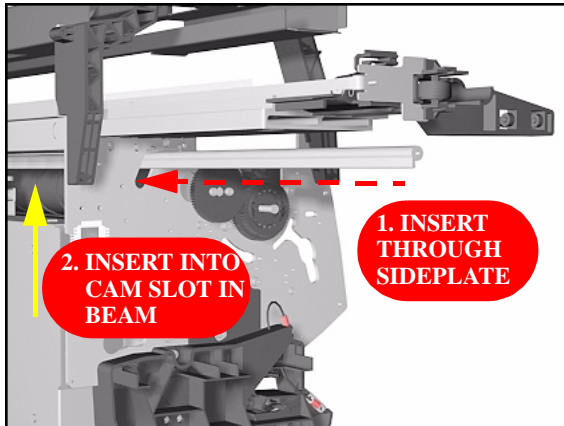
19. Remove the T-15 Cam screw (**Type F**).



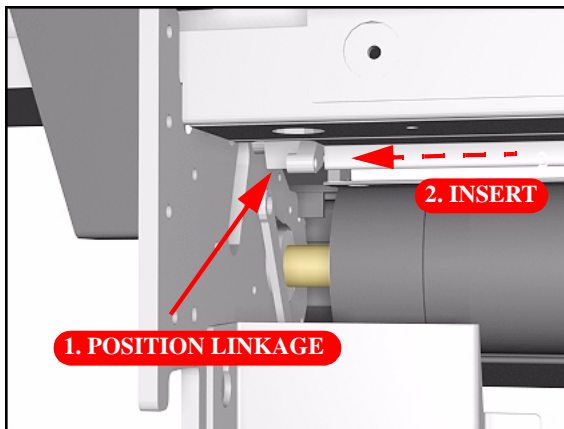
20. Remove the Cam by sliding it through the slot in the left Sideplate.



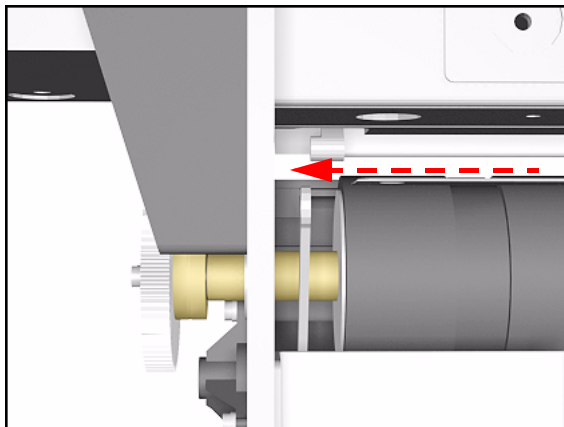
## Installation of Cam



1. To install the Cam slide it through the left Sideplate and place it in the cam slot in the beam.



2. Hold the Cam Lever Linkage over its slot in the Sideplate and insert the Cam into it.



3. Push the Cam with the Cam Lever Linkage into the Sideplate.

## Vacuum Fan

### Removal

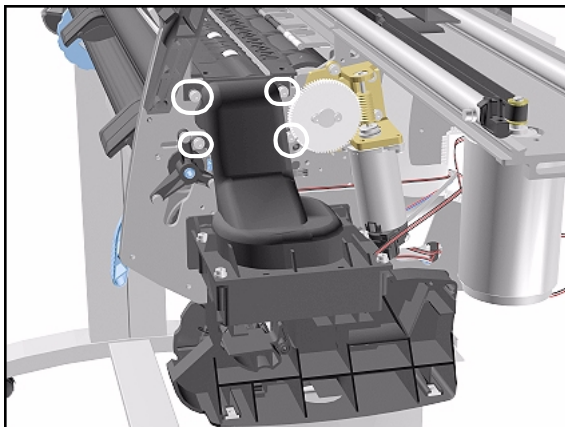
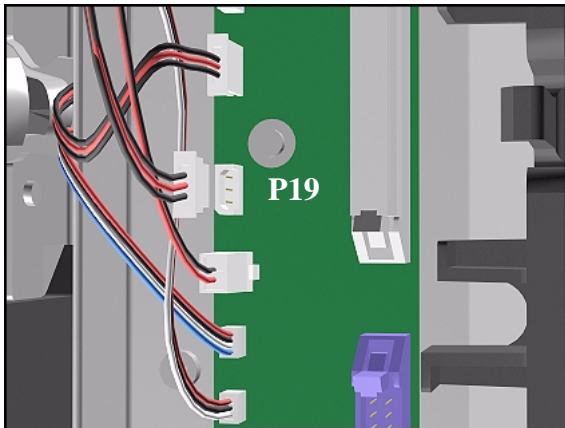
**WARNING**

Switch off the Printer and remove the Power Cord.

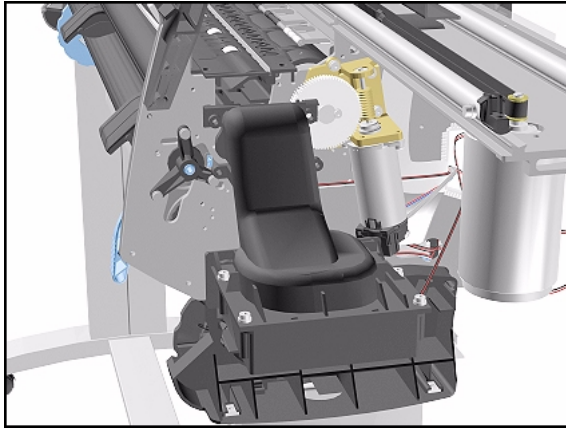
**NOTE**

Refer to the table on Page 8-4 for information on screw types.

1. Remove the Right Rear Cover - Refer to Page 8-16.
2. Remove the Right Hand Cover - Refer to Page 8-10.
3. Remove the Service Station Assembly - Refer to Page 8-69.
4. Disconnect the Vacuum Fan Cable at position P19 on the Main PCA.



5. Remove the 4 T-20 screws (**Type L**) that secure the Vacuum Fan to the Sideplate.



6. Remove the Vacuum Fan.

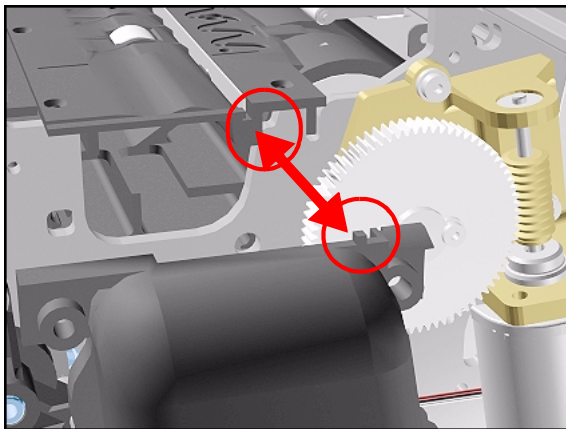
### Installation of Vacuum Fan

---

#### **WARNING**

When installing the Vacuum Fan make sure that it fits tightly to the Guides in the Sideplate.

---





## Paper-Axis Motor Assembly

### Removal

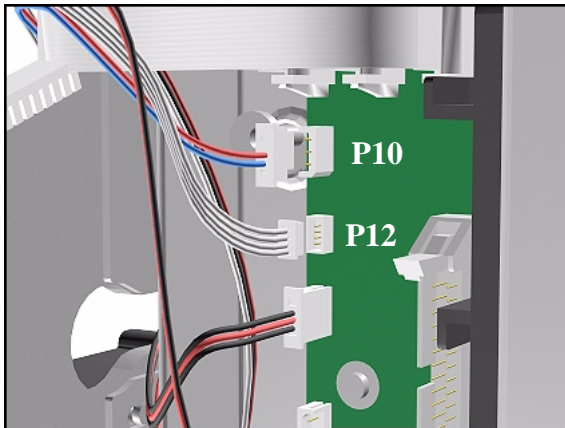
**WARNING**

Switch off the Printer and remove the Power Cord.

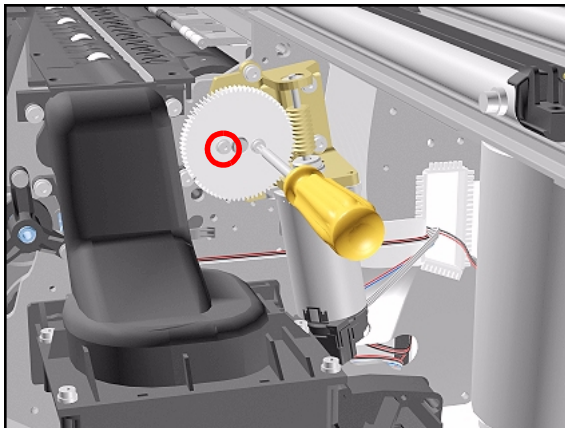
**NOTE**

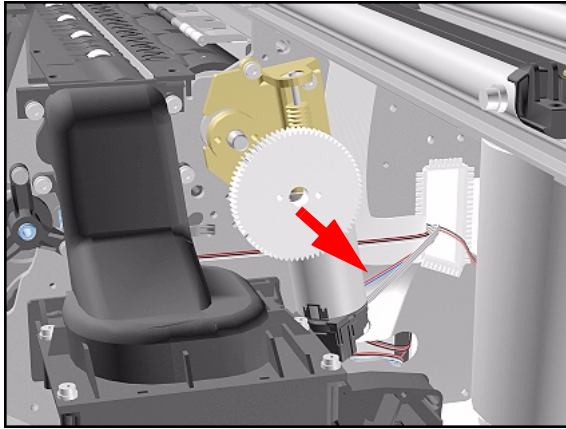
Refer to the table on Page 8-4 for information on screw types.

1. Remove the Right Rear Cover - Refer to Page 8-16.
2. Remove the Right Hand Cover - Refer to Page 8-10.
3. Remove the Service Station Assembly - Refer to Page 8-69.
4. Disconnect the Paper-Axis Motor Cable at P10 and the Encoder Cable at P12 from the Main PCA (and NOT from Motor).

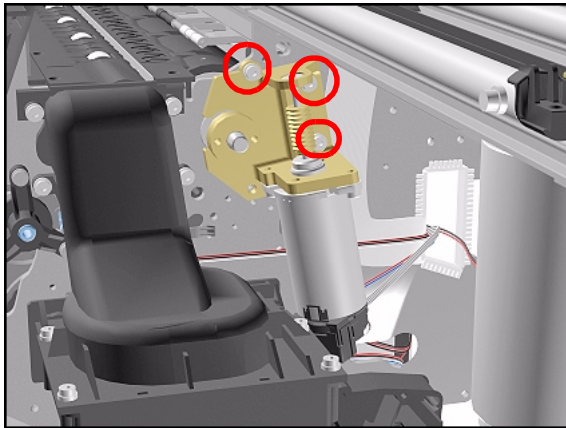


5. Remove the 2 T-20 screws (**Type A**) that secure the Helical Gear to the right-hand side of the Drive Roller.

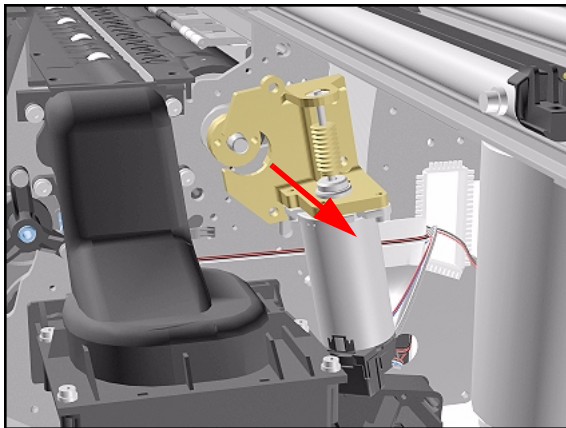




6. Remove the Helical Gear.



7. Remove the 3 T-20 screws (**Type L**) that secure the Paper-Axis Motor Assembly to the Sideplate.



8. Remove the Paper-Axis Motor Assembly.

---

**NOTE**

**When you replace the Paper-Axis Motor Assembly you must perform the following Service Calibrations:**

- Accuracy ⇒ Page 5-14.
- Printhead Alignment ⇒ User's Guide.

## Installation of Paper-Axis Motor Assembly

---

### **WARNING**

When reinstalling parts make sure that they fit tightly and that screws are tight.

---

---

### **NOTE**

Apply grease to the Helical Gear.

---

## Booster Fan

### Removal

---

**WARNING**

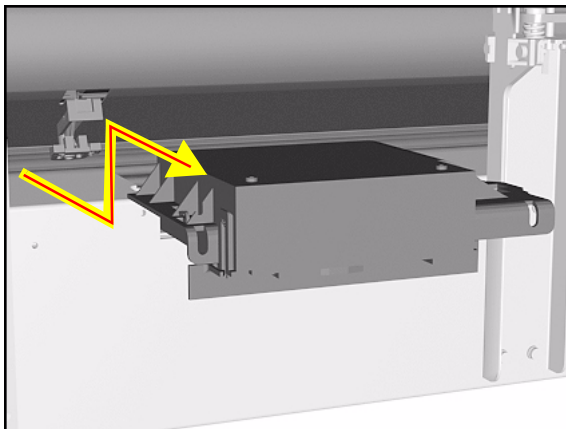
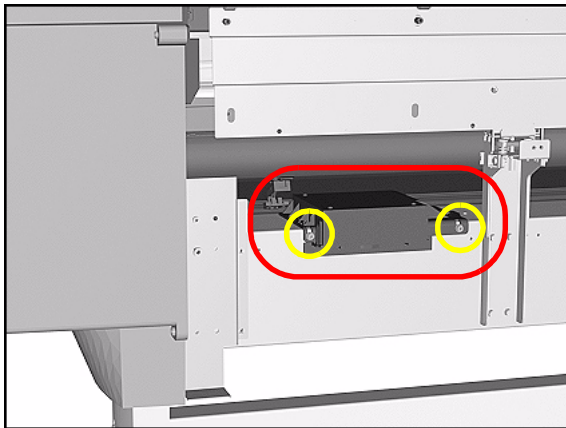
Switch off the Printer and remove the Power Cord.

---

**NOTE**

Refer to the table on Page 8-4 for information on screw types.

1. Remove Right Rear Cover - Refer to Page 8-16.
2. Remove Left Rear Cover - Refer to Page 8-15.
3. Remove the Electronics Module - Refer to Page 8-97.
4. Remove the Lower Right EMC Cover - Refer to Page 8-32.
5. Remove the 2 T-20 screws (**Type L**) from the Booster Fan.



6. To remove the Booster Fan, first slide it out, then lift and pull out.

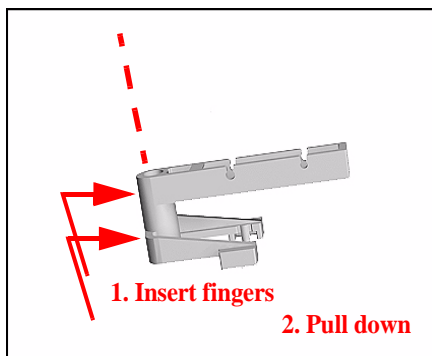
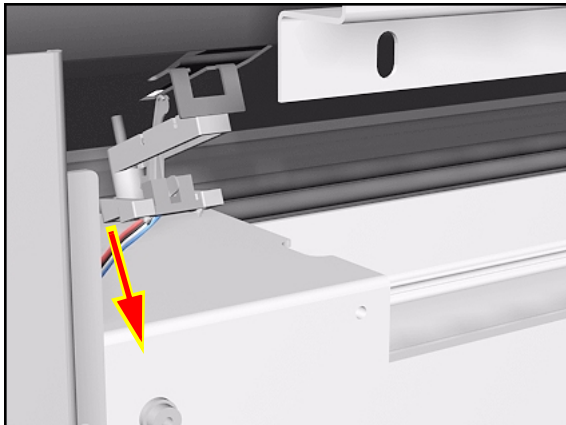
## Media Sensor

### Removal

**WARNING**

Switch off the Printer and remove the Power Cord.

1. Remove the Top Cover - Refer to Page 8-5.
2. Remove the Right Rear Cover - Refer to Page 8-16.
3. Remove the Left Rear Cover - Refer to Page 8-15.
4. Remove the Back Cover - Refer to Page 8-23.
5. Remove the Electronics Module - Refer to Page 8-97.
6. Remove the Lower Right EMC Cover - Refer to Page 8-32.
7. Remove the Booster Fan for better access - Refer to Page 8-108.
8. Reach under the Center Guide and carefully remove the Media Sensor mount by pulling it down gently (as shown below).

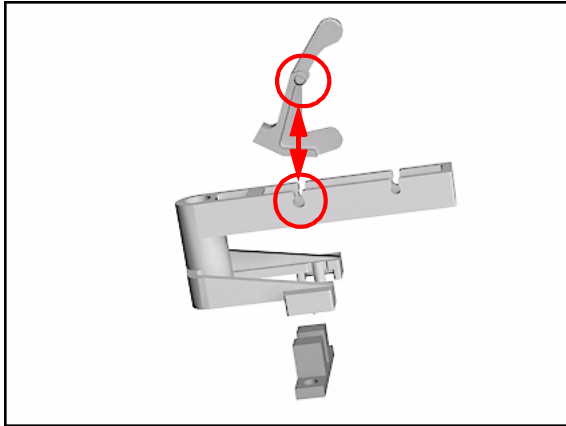
**TIP**

Pull down the Media Sensor by inserting a finger on each side of the sensor and pulling down.

## Installation of Media Sensor

**WARNING** When installing the Media Sensor, insert the moving part as shown in the diagram.

---





## Entry Roller

### Removal

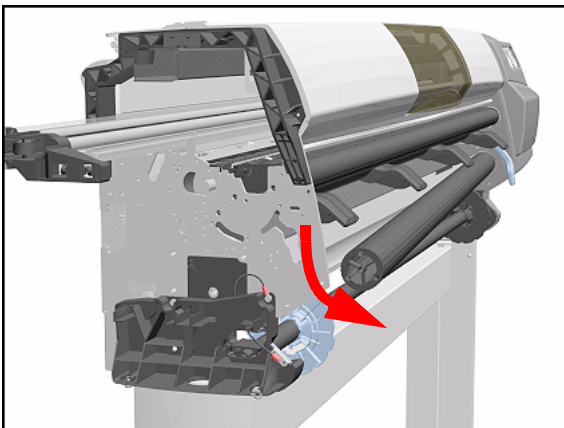
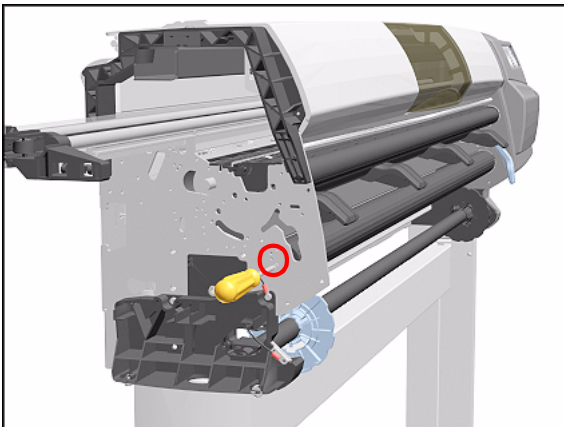
**WARNING**

Switch off the Printer and remove the Power Cord.

**NOTE**

Refer to the table on Page 8-4 for information on screw types.

1. Remove Left Hand Trim - Refer to Page 8-22.
2. Remove the Left Hand Cover - Refer to Page 8-6.
3. Remove Left Rear Cover - Refer to Page 8-15.
4. Remove the ISS - Refer to Page 8-64.
5. Remove one T-15 screw (**Type J**) that secures the Entry Roller to the left Sideplate.



6. Pull out the left side of the Entry Roller first and then remove completely.

## Center Guide Assembly

### Removal

---

**WARNING**

**Switch off the Printer and remove the Power Cord.**

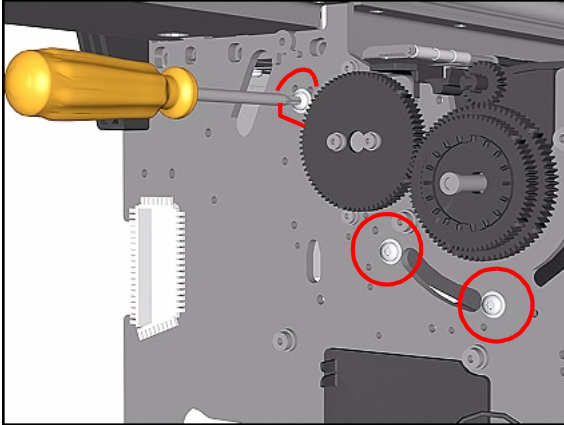
---

**NOTE**

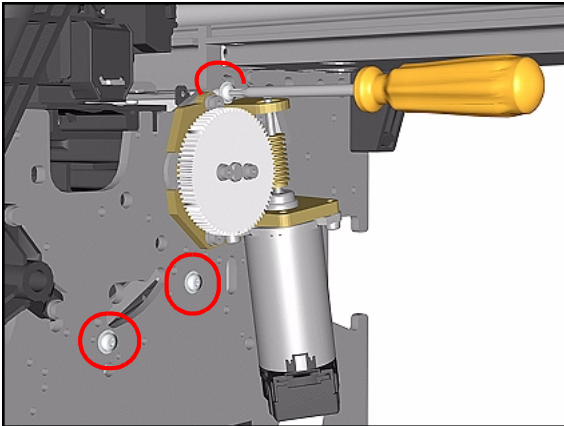
**Refer to the table on Page 8-4 for information on screw types.**

1. Remove the Top Cover - Refer to Page 8-5.
2. Remove the Back Cover - Refer to Page 8-23.
3. Remove the Lower Right EMC Cover - Refer to Page 8-32.
4. Remove Right Rear Cover - Refer to Page 8-16.
5. Remove Left Rear Cover - Refer to Page 8-15.
6. Remove the Deflectors - Refer to Page 8-119.
7. Remove the Left Hand Cover - Refer to Page 8-6.
8. Remove the Right Hand Cover - Refer to Page 8-10.
9. Remove the Left Hand Trim - Refer to Page 8-22.
10. Remove the Right Hand Trim - Refer to Page 8-20.
11. Remove the Media Lever Assembly - Refer to Page 8-18.
12. Remove the ISS - Refer to Page 8-64.
13. Remove the Service Station - Refer to Page 8-69.
14. Remove the Vacuum Fan - Refer to Page 8-103.
15. Remove the Electronics Module - Refer to Page 8-97.

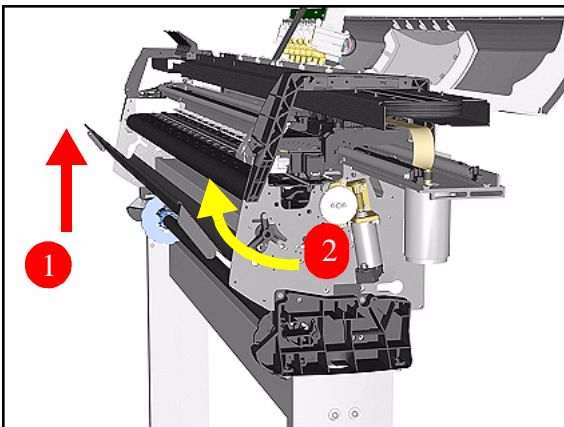
16. Remove the Booster Fan - Refer to Page 8-108.
17. Remove the Media Sensor - Refer to Page 8-109.
18. Remove the Entry Roller - Refer to Page 8-111.
19. Remove 3 T-15 screws (**Type J**) that secure the Center Guide to the left Sideplate.



20. Remove 1 T-15 screw (**Type J**) and 2 T-20 screws (**Type T**) that secure the Center Guide to the right Sideplate.



21. Remove the Center Guide as follows:
  - Lift it from the front to release it.
  - Pull it out in a rotating movement.



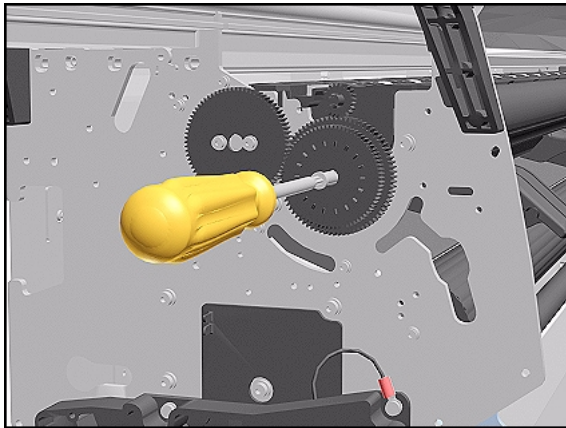
## Drive Roller Gear

### Removal

**WARNING** Switch off the Printer and remove the Power Cord.

**NOTE** Refer to the table on Page 8-4 for information on screw types.

1. Remove the Left Hand Cover - Refer to Page 8-6.
2. Remove the Left Rear Cover - Refer to Page 8-15.
3. Remove the ISS - Refer to Page 8-64.
4. Remove 1 T-25 screw (**Type S**) from the Drive Roller Gear



5. Remove the Drive Roller Gear.

### Installation of Gear

**WARNING** When installing the Drive Roller Gear make sure the screw is fully tightened.

## Front Platen Assembly (Only Applicable to the 5000 Series)

### Removal

**WARNING**

Switch off the Printer and remove the Power Cord.

**NOTE**

Refer to the table on Page 8-4 for information on screw types.

1. Remove the Left Hand Trim - Refer to Page 8-22.
2. Open the Top Cover.

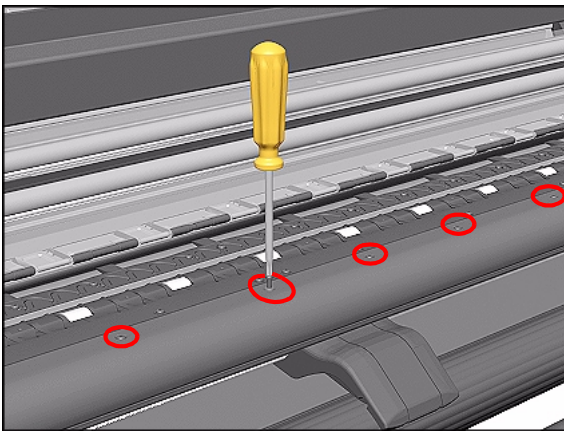
**NOTE**

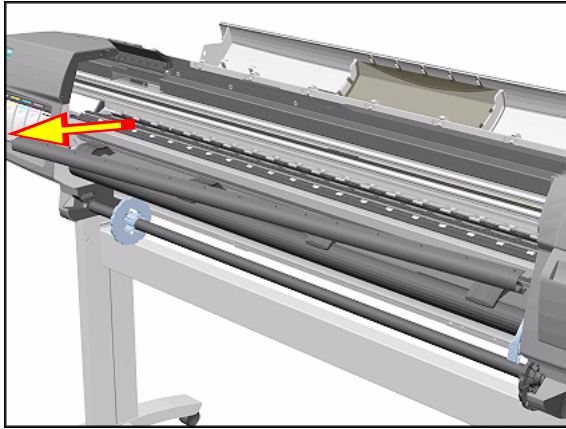
Make sure the Carriage is not in the print Platen area.

3. Remove the following screws (Type R) from the Front Platen Assembly:
  - 15 T-10 screws in the 60" Model.
  - 11 T-10 screws in the 42" Model.

**NOTE**

Be very careful with these screws. If they break you will not be able to remove them.





4. Remove the Platen starting from the left side.



## Center Platen Assembly

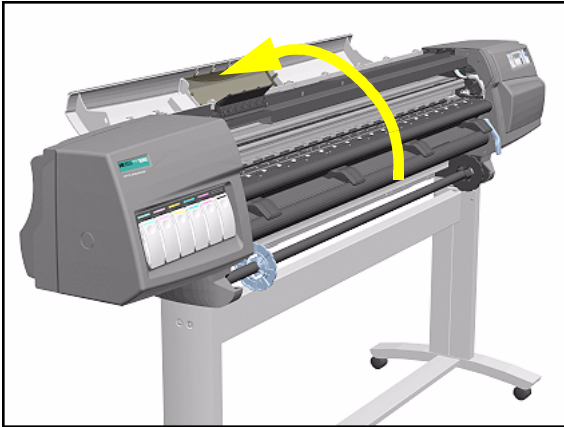
### Removal

**WARNING**

Switch off the Printer and remove the Power Cord.

**NOTE**

Refer to the table on Page 8-4 for information on screw types.



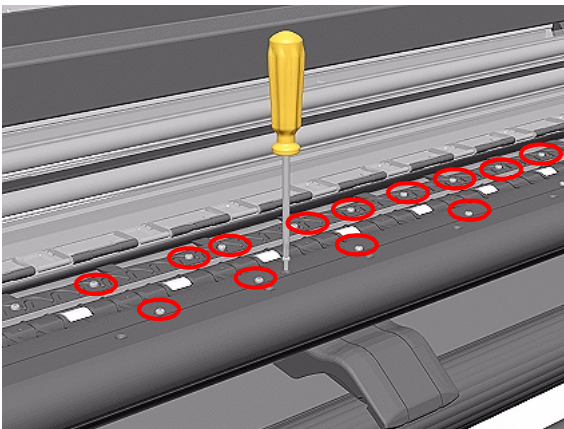
1. Open the Top Cover.

**NOTE**

Make sure the Carriage is not in the print Platen area.

**NOTE**

Make sure the Media Lever is in the UP position (to raise the pinch-wheels) before removing the Platen Assembly.

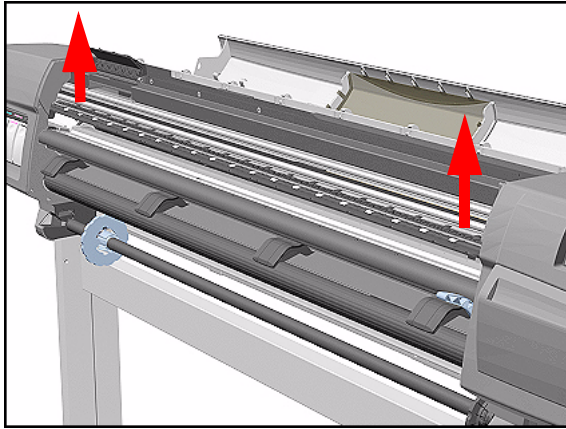


2. Remove the following screws (**Type R**) from the Center Platen Assembly:

- 39 T-10 screws in the 60" Model.
- 35 T-10 screws in the 42" Model.

**NOTE**

Be very careful when removing the screws because they can easily get damaged.



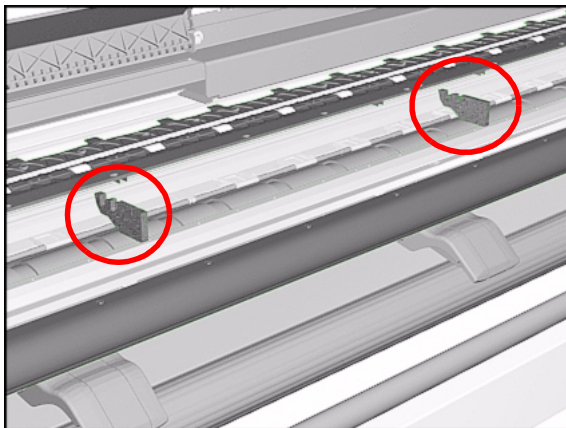
3. Remove the complete Center Platen Assembly (includes the Overdrive Assembly and the Cutter guide).

**NOTE** You must perform the following Calibrations when the Center Platen Assembly is replaced:

- Scan Axis Calibration ⇒ Page 5-7.
- Carriage Height Calibration ⇒ Page 5-18.

### Installation of the Center Platen Assembly

**WARNING** When installing the Center Platen Assembly, make sure the foam guides under the Platen are placed in their slots as shown below.

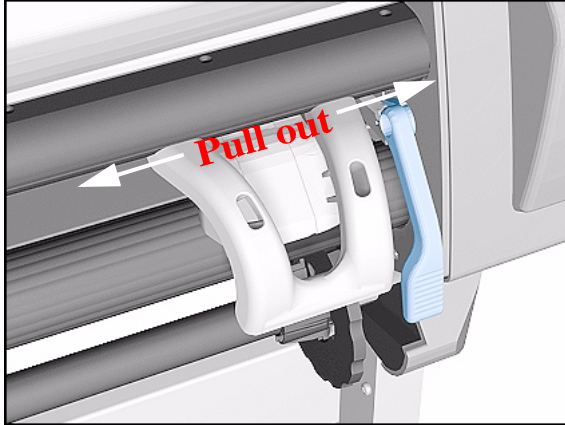


## | Deflectors (Only Applicable to the 5000 Series)

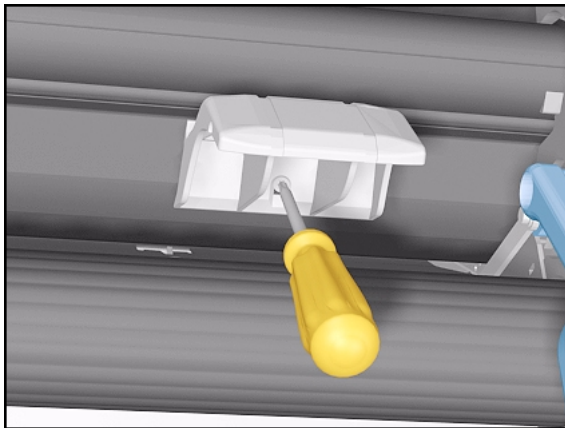
### Removal

#### NOTE

Refer to the table on Page 8-4 for information on screw types.



1. Unclip the Deflector Extension.



2. Remove 1 T-15 (**Type M**) screw from each Deflector.

- 4 Deflectors in the 60" Model.
- 3 Deflectors in the 42" Model.

3. Remove the Deflectors from the Printer.

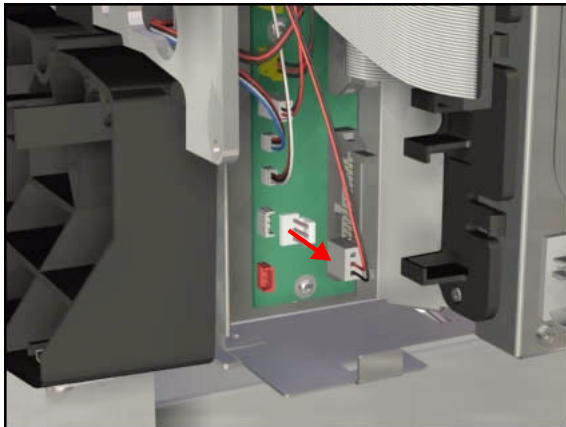
## Heater Assembly (Only Applicable to the 5500 Series)

### Removal

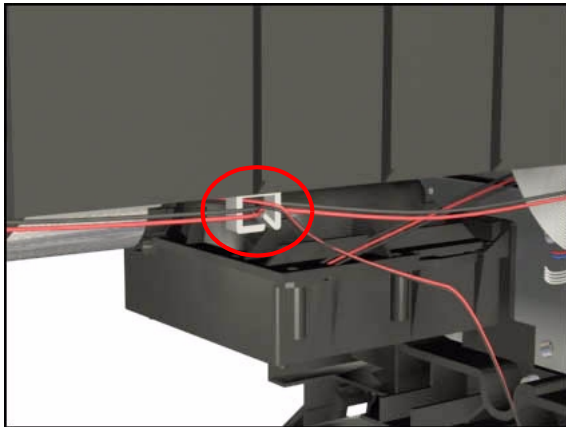
**WARNING** Switch off the Printer and remove the Power Cord.

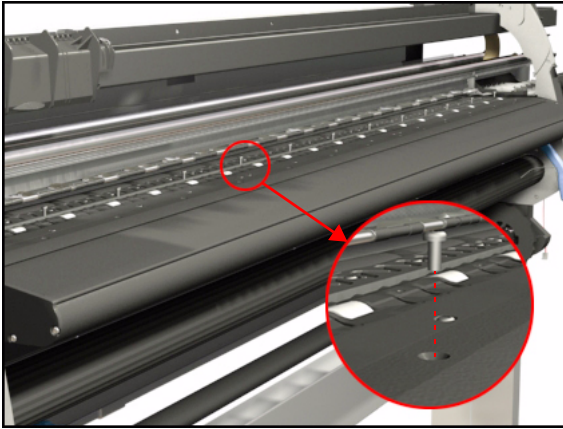
**NOTE** Refer to the table on Page 8-4 for information on screw types.

1. Remove the Right Rear Cover - Refer to Page 8-16.
2. Remove the Right Cover - Refer to Page 8-10.
3. Disconnect the Heater Cable from the Main PCA.



4. Release the Heater Cable from the plastic clip.

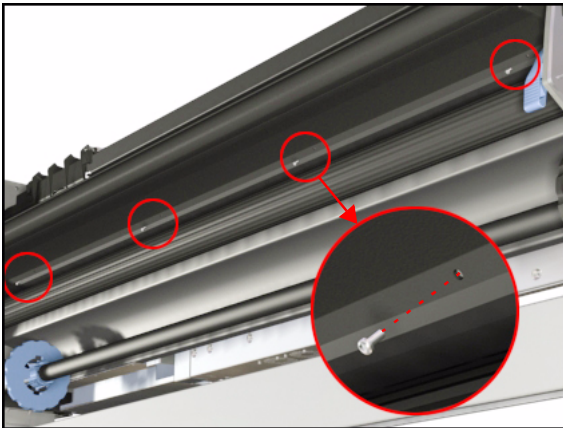




5. Remove 15 screws that secure the Heater from the top of the Printer.

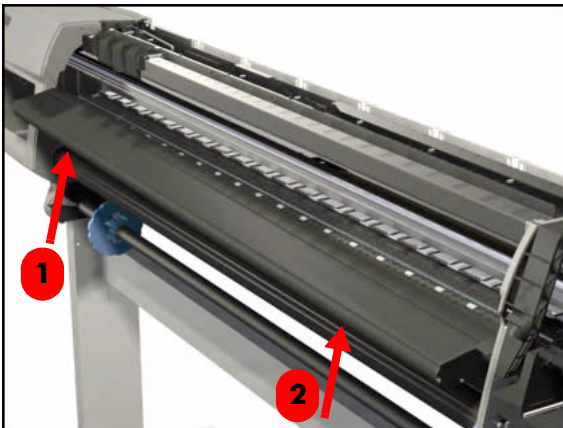
**NOTE** The 42" Printer only has 11 screws securing the Heater from the top.

**NOTE** Be very careful not to force the screws as they are screwed directly to the Printer Chassis.



6. Remove 4 screws that secure the heater from the bottom of the Printer.

**NOTE** The 42" Printer only has 3 screws securing the Heater from the bottom.



7. Gently tap one side of the Heater from underneath to release it. Then gently tap the other side of the Heater from underneath until it can be removed.



8. Before removing the Heater completely, pull out the Heater Cable from the access hole in the sideplate.

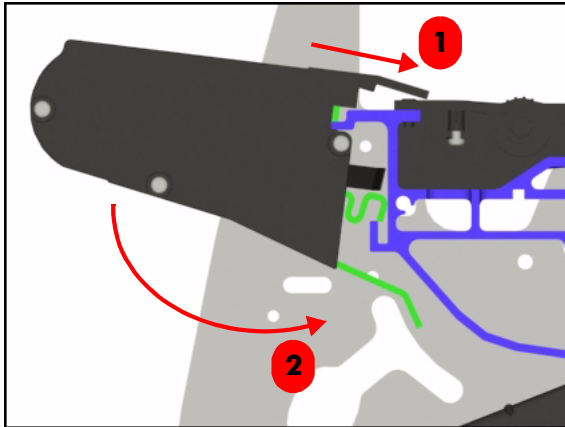


9. Remove the Heater from the Printer.

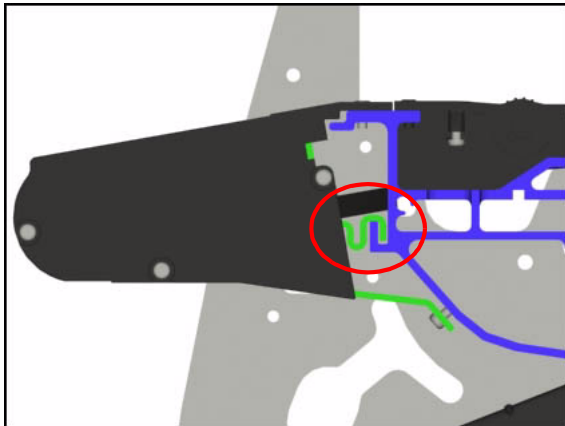


## Installing the Heater

To install the Heater, follow the removal procedures in reverse order, taking care of the following information:



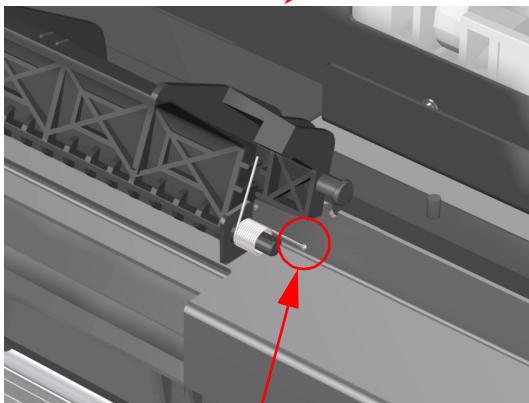
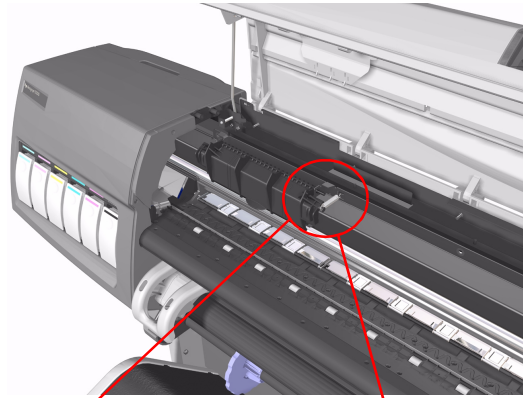
1. When installing the Heater, place the top lip of the Heater over the Center Platen Assembly and then push the Heater downwards.



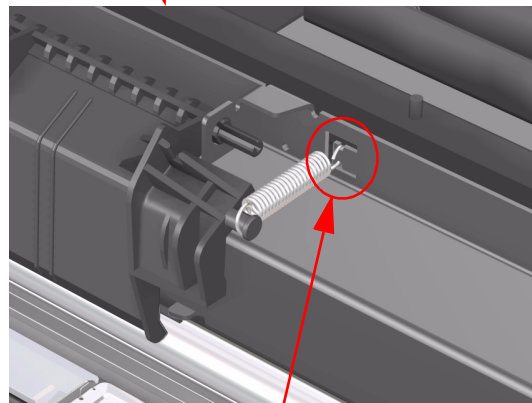
2. Make sure that the inner lip of the Heater is linked with the lip on the Chassis frame.

## Tube Guide Door

The Tube Guide Door kit contains 2 different types of springs which need to be installed depending on the design of the Tube Guide. Refer to the drawing below to determine which spring needs to be installed.



**If the Tube Guide DOES NOT have a C-shaped hook (i.e. only has a small hole in the Tube Guide) then install this type of spring.**



**If the Tube Guide DOES have a C-shaped hook, then install this type of spring.**

