

Introduction

Overview

The Repair / Adjustment section, Section 4 of the Service Manual, provides information that enables the Service Representative to restore the product to within specification after fault isolation.

Section Contents

The Section Contents lists, in sequence, all the items of the section, with page references. Each entry in the section contents appears exactly as it appears in the manual.

Repair Procedures

This repair subsection contains instructions for removal and replacement tasks. A removal and/or replacement task is included when it is not obvious how components are removed and replaced, or when special conditions (such as an adjustment) must be met during these tasks.

Step-by-step removal procedures for a specific component or assembly are provided. Numbers in the illustrations refer to steps in the procedure. For example: if step 3 in a procedure instructed you to remove a screw, the screw in the illustration would be labeled 3.

Illustrations are used to assist you with the procedures. You should refer to the specific Parts List illustration (listed under the repair title) for locating most components within a procedure.

NOTE: Always reinstall the correct type and size screws. Using the wrong screw can damage tapped holes.

NOTE: Do not use excessive force to either remove or install a part.

Locations, such as left, right, front, or rear, given in the repairs assume you are facing the printer Control Panel.

Adjustment

The N2025/2825 printer does not contain any field adjustable components.

WARNING

Use of controls or adjustments other than those specified in this manual may result in an exposure to dangerous laser light.

REP 1.1 Left Side Cover

Parts List on PL 1.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Slide the Left Cover toward the rear of the printer (Figure 1).
2. Remove the Left Side Cover.

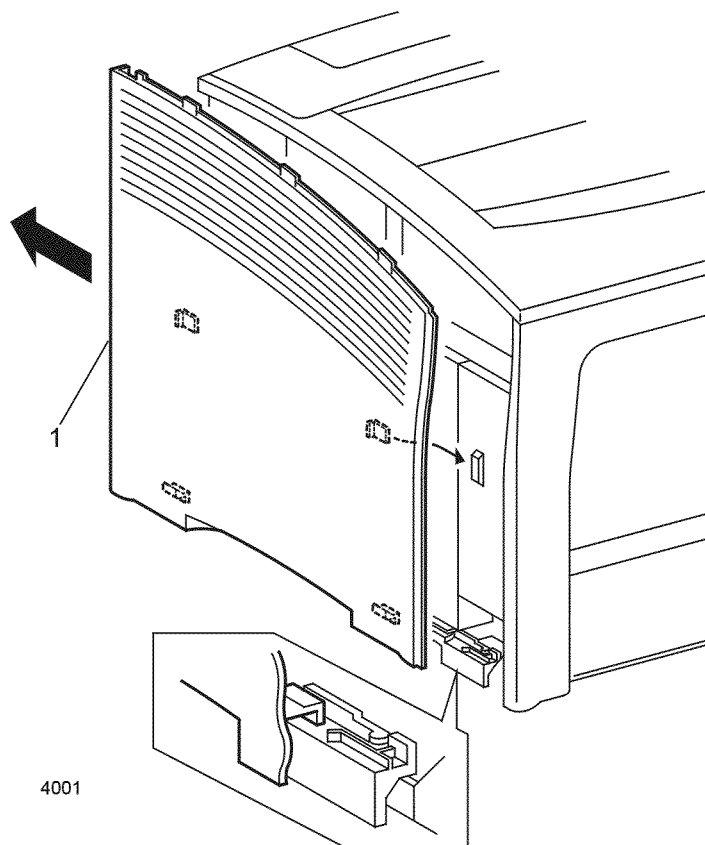


Figure 1 Removing the Left Side Cover

Replacement

1. Reinstall the components in the reverse order.

REP 1.2 Right Side Cover

Parts List on PL 1.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Rear Cover.
2. Remove the OCT, if installed (REP 10.1).
3. Open the Top Cover and remove the Print Cartridge. Cover the cartridge to protect it from light.

NOTE: Place paper inside the Print Cartridge cavity to catch any dropped hardware.

4. Remove the Left Side Cover (REP 1.1).
5. Remove the Top Cover Assembly (REP 1.3).
6. Remove the 5 screws that secure the Right Side Cover to the printer (Figure 1).
7. Remove the Right Side Cover (Figure 1).

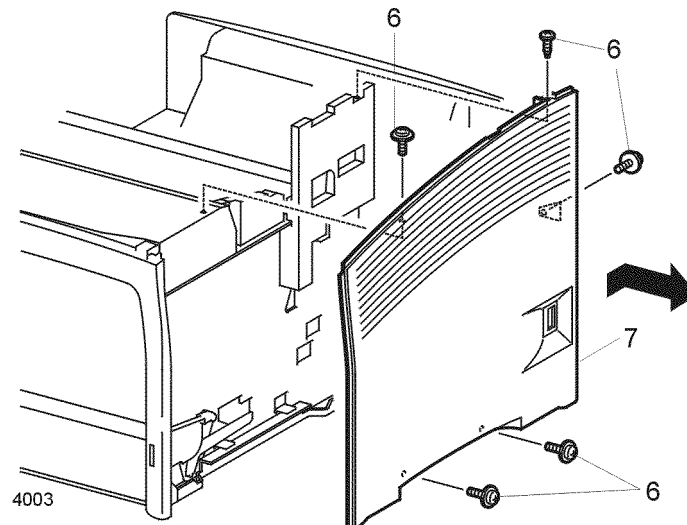


Figure 1 Right Side Cover

Replacement

1. Reinstall the components in the reverse order.

REP 1.3 Top Cover Assembly

Parts List on PL 1.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Rear Cover.
2. Remove the OCT, if installed (REP 10.1).
3. Open the Top Cover and remove the Print Cartridge. Cover the cartridge to protect it from light.

NOTE: Place paper inside the Print Cartridge cavity to catch any dropped hardware.

4. Remove the Left Side Cover (REP 1.1).
5. Remove the 8 screws that secure the Top Cover Assembly to the printer (Figure 1).
6. Remove the two screws that secure the Right and Left Print Cartridge Latches to the Top Cover (Figure 1).
7. Disconnect P/J421 from the rear of the Control Panel (Figure 1).
8. Remove the Top Cover Assembly (Figure 1).

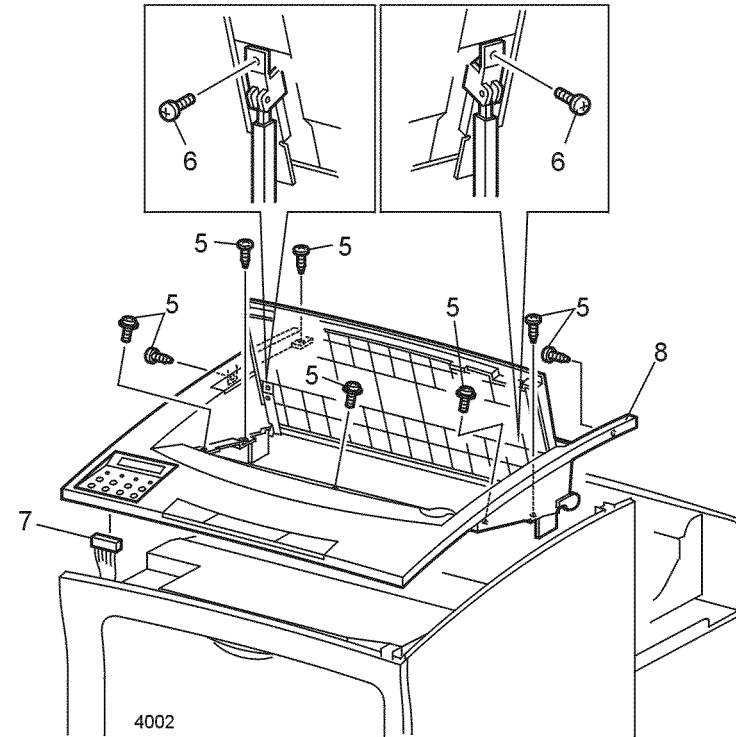


Figure 1 Top Cover Assembly

Replacement

1. Reinstall the components in the reverse order.

NOTE: Carefully reinstall the Top Cover Assembly on the overlapped sections of the Right Side Cover and the Front Cover.

REP 1.4 Front Cover

Parts List on PL 1.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Rear Cover.
2. Remove the OCT, if installed (REP 10.1).
3. Open the Top Cover and remove the Print Cartridge. Cover the cartridge to protect it from light.

NOTE: Place paper inside the Print Cartridge cavity to catch any dropped hardware.

4. Remove the Left Side Cover (REP 1.1).
5. Remove the Top Cover Assembly (REP 1.3).
6. Open the MBF Assembly Door, lift slightly, and pull the assembly out approximately 2 inches (51 mm).
7. Remove the 2 screws that secure the Front Cover to the printer (Figure 1).
8. Pull the Front Cover out then up to remove (Figure 1).

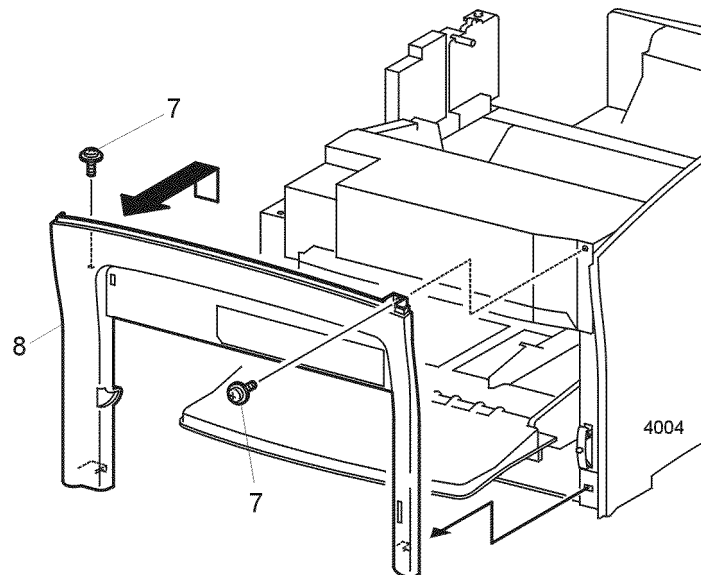


Figure 1 Front Cover

Replacement

1. Reinstall the components in the reverse order.
2. Align the two hooks on the Front Cover with the holes in the printer.

REP 1.5 Lower Left Cover

Parts List on PL 1.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Left Side Cover (REP 1.1).
2. Remove the 2 Screws that secure the Lower Left Cover to the printer (Figure 1).
3. Remove the Lower Left Cover (Figure 1).

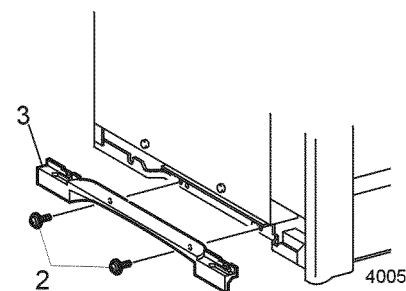


Figure 1 Lower Left Cover

Replacement

1. Reinstall the components in the reverse order.

REP 1.6 HVPS Cover

Parts List on PL 7.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Rear Cover (REP 1.9).
2. Remove the Duplex Assembly, if installed (REP 9.1).
3. Remove the screw that secures the Left Duplex Stopper to the printer. Remove the Stopper (Figure 1).
4. Remove the screw that secures the Right Duplex Stopper to the printer. Remove the Stopper (Figure 1).
5. Remove the six screws that secure the HVPS Cover to the printer (Figure 1).
6. Lower the cover and disconnect P/J502 and P/J505 from the Duplex Interface PWB (Figure 1).
7. Remove the HVPS Cover (Figure 1).

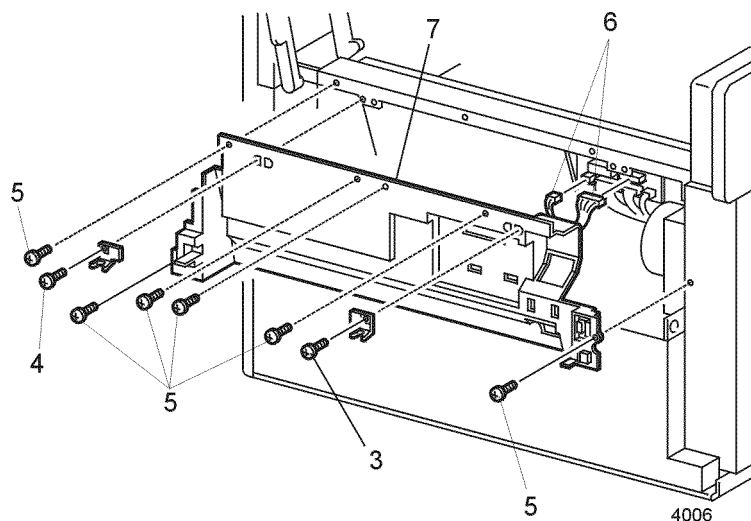


Figure 1 HVPS Cover

Replacement

1. Reinstall the components in the reverse order.

REP 1.7 Lower Rear Cover

Parts List on PL 1.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the four screws that secure the Lower Rear Cover to the printer (Figure 1).
2. Remove the Lower Rear Cover (Figure 1).

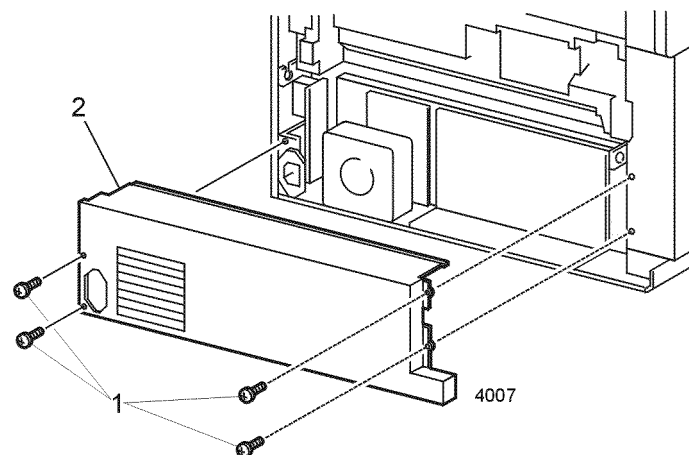


Figure 1 Lower Rear Cover

Replacement

1. Reinstall the components in the reverse order.

REP 1.8 MBF Gear Cover

Parts List on PL 4.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the MBF Assembly (REP 2.1).
2. Remove the screw that secures the Left MBF Gear Cover to the left side of the Paper Handler (Figure 1).
3. Release the three locking tabs and remove the MBF Gear Cover (Figure 1).
4. The MBF 2 Idler Gear (Figure 1) may come off with the cover.
5. Release the locking tabs and remove the harness from the MBF Cover (Figure 1).

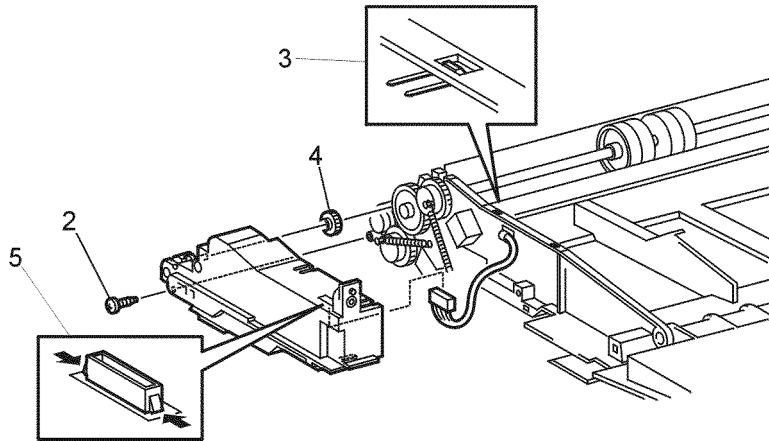


Figure 1 MBF Gear Cover

Replacement

1. Reinstall the components in the reverse order.

REP 1.9 Rear Cover

Parts List on PL 6.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Rear Cover.
2. Disconnect P/J527 and P/J528 (Figure 1).
3. Remove the two screws that secure the Rear Cover support straps to the Rear Cover (Figure 1).
4. With the cover positioned as show in Figure 1, lift the left end (as viewed from the rear of the printer) of the Rear Cover and remove (Figure 1).

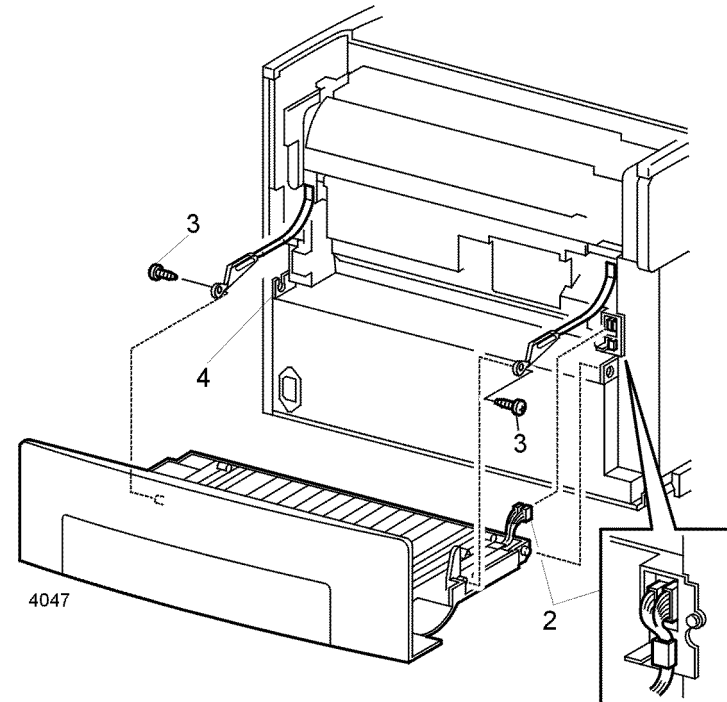


Figure 1 Rear Cover

Replacement

1. Reinstall the components in the reverse order.

REP 2.1 MBF Assembly

Parts List on PL 4.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove Tray 1.
2. Open and extend the MBF Assembly to the paper load position (Figure 1).
3. Remove the screw that secures the cover to the left side of the MBF Assembly (Figure 1).
4. To release the locking tab, push in slightly on the left front of the cover and rotate the cover clockwise to remove (Figure 1).
5. Release the harness from the underside of the cover (Figure 1).
6. Disconnect the in-line connector P/J121 (Figure 1).
7. Push the MBF into the home position.
8. Push down on the left tray stop, pull out to remove (Figure 2).
9. Push down on the right tray stop, pull out to remove (Figure 3).
10. Extend the MBF Assembly until it stops.
11. Lift the front of the paper handler 1.5 to 2" (38 to 51 mm) and remove the MBF Assembly.

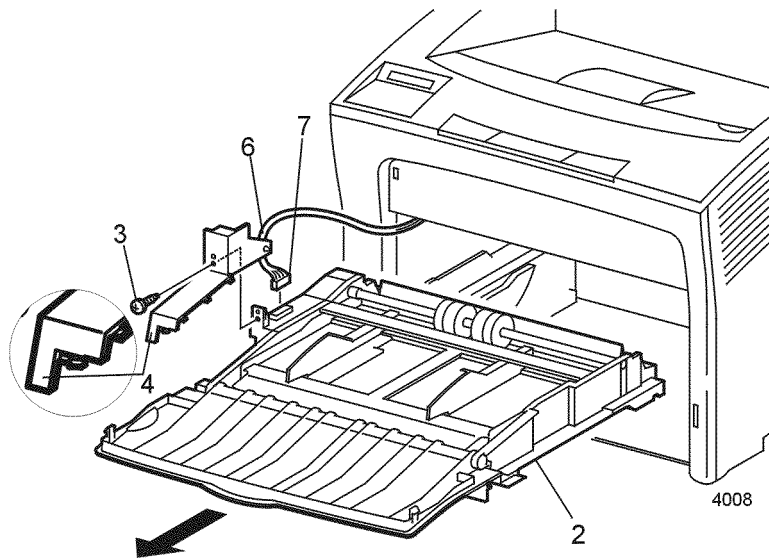


Figure 1 Paper Handler Assembly

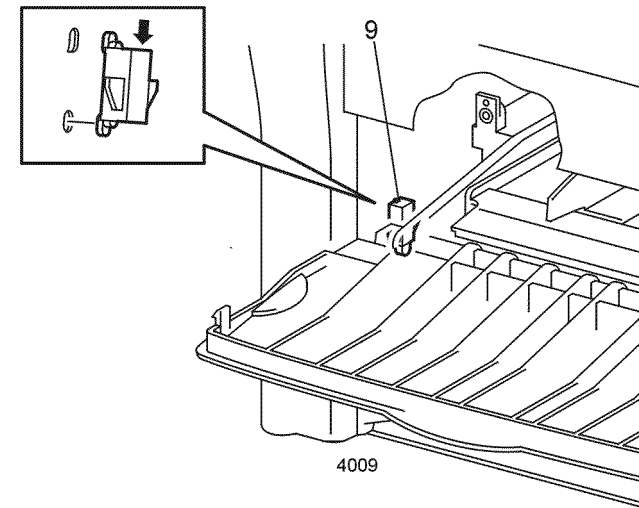


Figure 2 Left Tray Stop

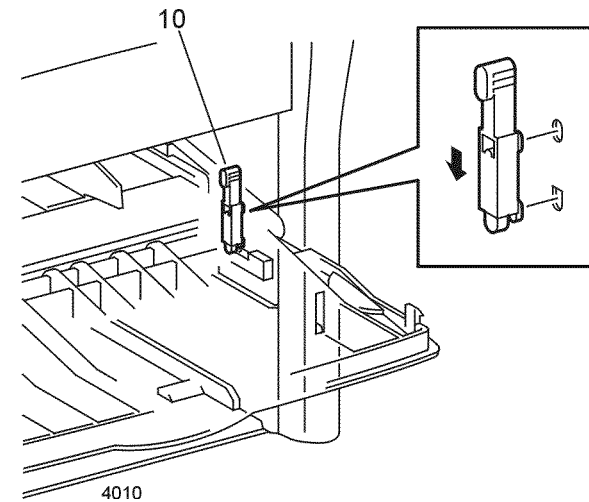


Figure 3 Right Tray Stop

Replacement

1. Reinstall the components in the reverse order.

REP 2.2 MBF Feed Roll

Parts List on PL 4.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the MBF Assembly (REP 2.1).
2. For the Left Feed Roll, lift the locking tab on the Left MBF Roll Core and slide the core to the left. Slide the MBF Feed Roll to the left and remove (Figure 1).
3. For the Right Feed Roll, lift the locking tab on the Right MBF Roll Core and slide the core to the right. Slide the MBF Feed Roll to the right and remove (Figure 1).

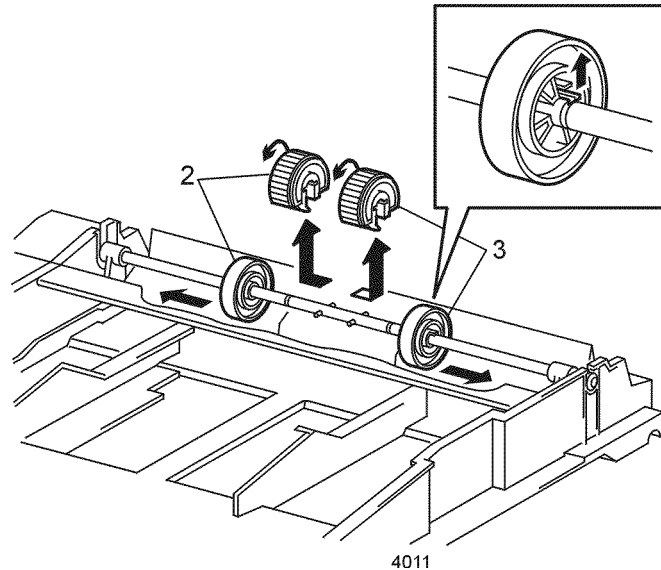


Figure 1 MBF Feed Roll Assembly

Replacement

1. Reinstall the components in the reverse order.

NOTE: Arrows of the back side of the feed rolls indicate direction of rotation.

REP 2.3 Tray 1 Turn Roll Clutch Assembly

Parts List on PL 4.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the MBF Assembly (REP 2.1).
2. Remove MBF Gear Cover (REP 1.8).
3. Disconnect in-line connector P/J124 (Figure 1).
4. Remove the screw that secures the Tray 1 No Paper Sensor Assembly Bracket to the bottom of the Paper handler (Figure 1).
5. Note the harness path, then remove the Turn Roll Clutch harness from the cable clamps (Figure 1).
6. Remove the E-Ring that secures the Turn Clutch Assembly to the Paper Handler (Figure 1).
7. Remove the Turn Roll Clutch Assembly from the Turn Roll Assembly (Figure 1).

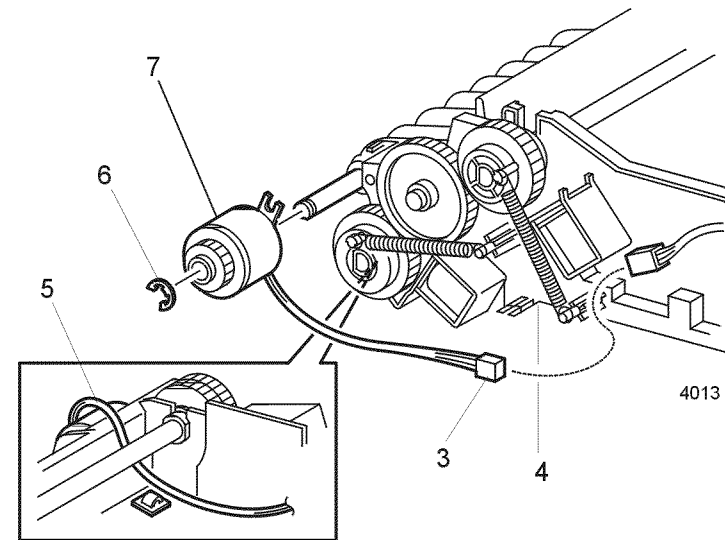


Figure 1 Tray 1 Turn Roll Clutch Assembly

Replacement

1. Reinstall the components in the reverse order.
2. Ensure that the tab on the clutch is positioned on the pin on the Paper Handler.

REP 2.4 Tray 1 Turn Roll Assembly

Parts List on PL 3.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the MBF Assembly (REP 2.1).
2. Remove the MBF Gear Cover (REP 1.8).
3. Remove the Turn Roll Clutch (REP 2.3).
4. Remove the bearing located behind the Turn Roll Clutch (Figure 1).
5. Remove the E-Ring from the right end of the Turn Roll Assembly (Figure 1).
6. Remove the bearing from the right end of the Turn Roll Assembly Shaft (Figure 1).
7. Remove the Turn Roll Assembly (Figure 1).

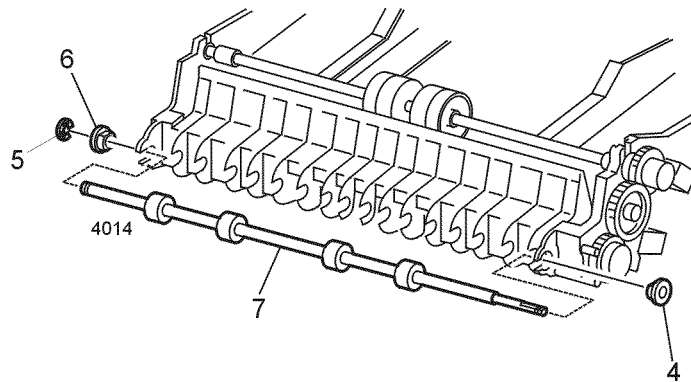


Figure 1 Tray 1 Turn Roll Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 2.5 MBF Retard Holder Assembly

Parts List on PL 3.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the MBF Assembly (REP 2.1).
2. Remove the MBF Gear Cover (REP 1.8).
3. Remove the Pick-up Spring from the MBF Pick-up Gear (Figure 1).
4. Release the two locking tabs on the MBF Pick-up Gear and remove the gear (Figure 1).
5. Move the MBF Pick-up Shaft to the right and remove the shaft from the MBF (Figure 1).
6. Remove the screw that secures the support bracket to the MBF (Figure 1). Remove the bracket.
7. Insert a screwdriver between the left side of the MBF and the MBF Tray Assembly near the tray pivot point (Figure 2). Carefully spread the two assemblies until the tray disengages from the MBF.
8. Release the two locking tabs on the back of the retard holder and rotate the retard holder forward (Figure 3).
9. Continue to rotate the holder forward until it can be lifted out of the MBF base (Figure 3).

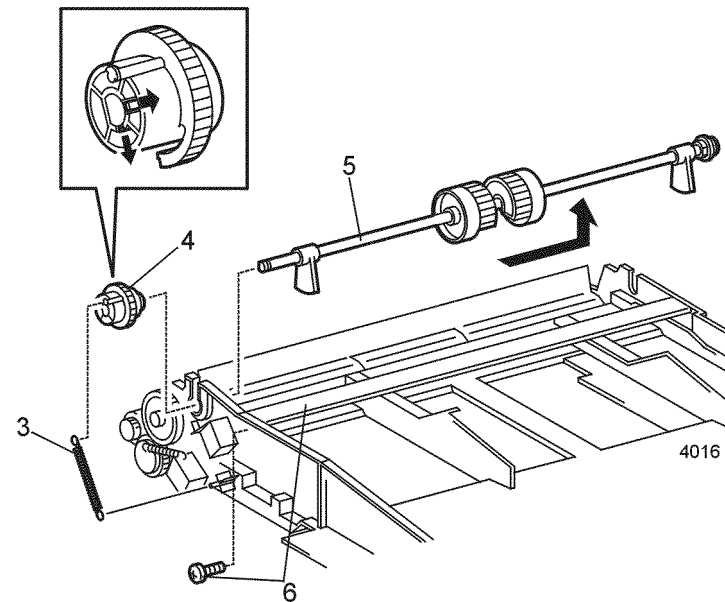


Figure 1 MBF Pick Up Shaft

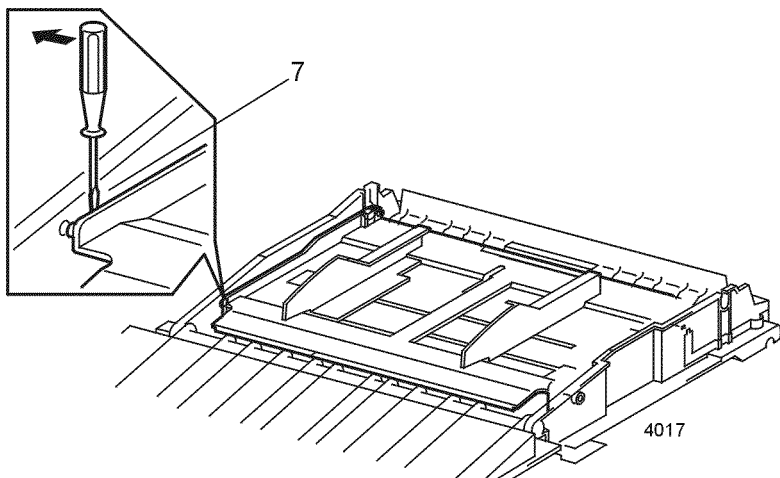


Figure 2 MBF Tray Assembly

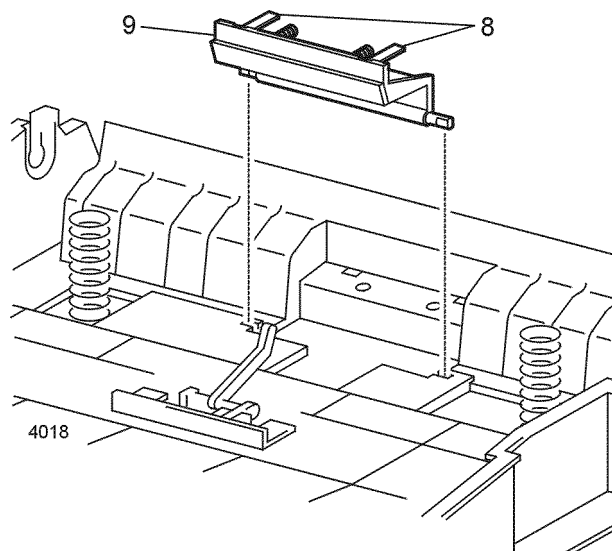


Figure 3 MBF Retard Holder Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 2.6 Tray 1 No Paper Sensor Assembly

Parts List on PL 4.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the MBF Assembly (REP 2.1).
2. Remove the MBF Gear Cover (REP 1.8).
3. Disconnect P/J126 from the sensor assembly (Figure 1).
4. Remove the screw that secures the Tray 1 No Paper Sensor Assembly Bracket to the MBF (Figure 1).
5. Use a small screwdriver to carefully release the two locking tabs that secure the sensor to the sensor assembly bracket (Figure 1).
6. Release the sensor harness from the harness clamps and remove the sensor.

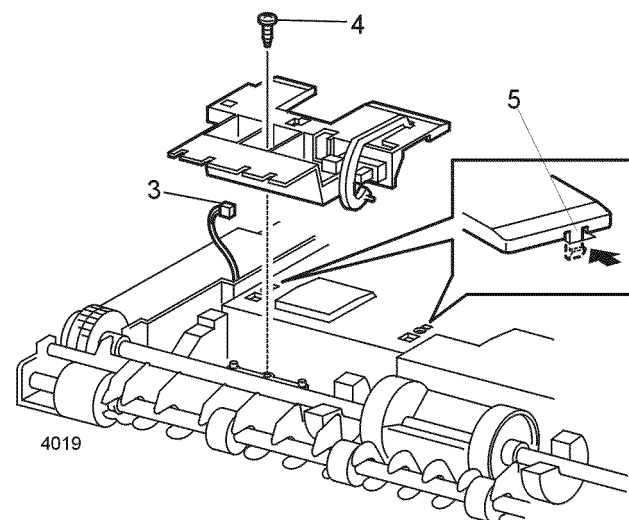


Figure 1 Tray 1 No Paper Sensor Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 2.7 MBF No Paper Sensor Assembly

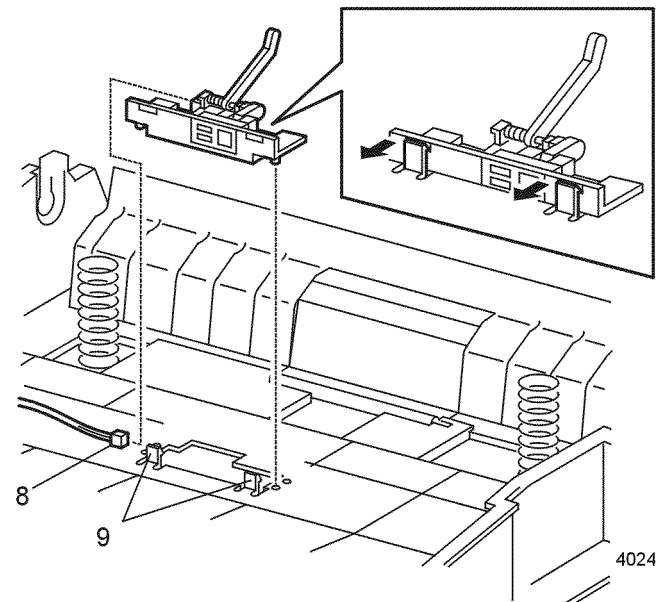
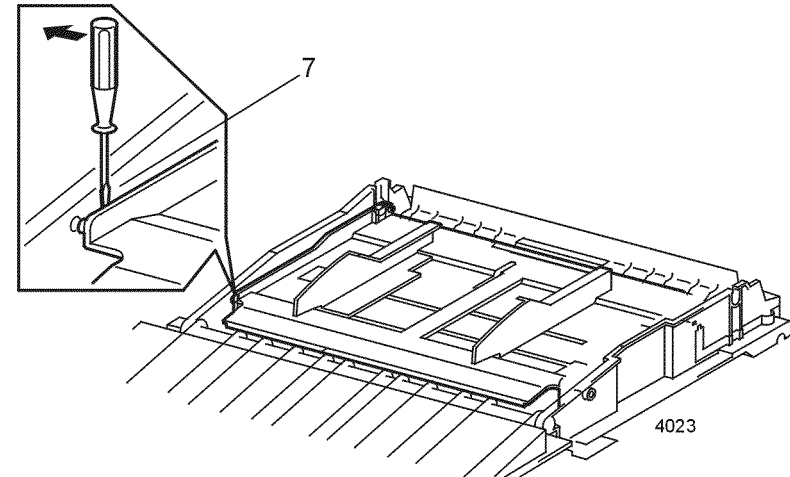
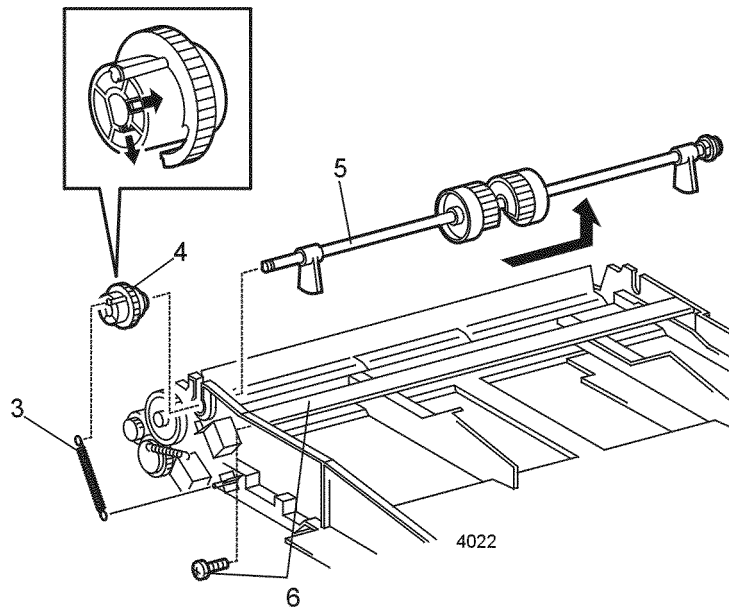
Parts List on PL 4.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the MBF Assembly (REP 2.1).
2. Remove the MBF Gear Cover (REP 1.8).
3. Remove the Pick-up Spring from the MBF Pick-up Gear (Figure 1).
4. Release the two locking tabs on the MBF Pick-up Gear and remove the gear (Figure 1).
5. Move the MBF Pick-up Shaft to the right and remove the shaft from the MBF (Figure 1).
6. Remove the screw that secures the support bracket to the MBF (Figure 1). Remove the Bracket.
7. Insert a screwdriver between the left side of the MBF and the MBF Tray Assembly near the tray pivot point (Figure 2). Carefully spread the two assemblies until the tray disengages from the MBF.
8. Disconnect P/J125 from the MBF No Paper Sensor Assembly (Figure 3).
9. Release the two locking tabs on the bottom of the Sensor Assembly and remove the sensor (Figure 3).



Replacement

1. Reinstall the components in the reverse order.

REP 2.8 MBF Feed Solenoid

Parts List on PL 4.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the MBF Assembly (REP 2.1).
2. Remove the MBF Gear Cover (REP 1.8).
3. Remove the Pick-up Spring from the MBF Pick-up Gear (Figure 1).
4. Disconnect P/J123 from the MBF Feed Solenoid (Figure 1).
5. Remove the screw that secures the MBF Feed Solenoid to the MBF Assembly (Figure 1).

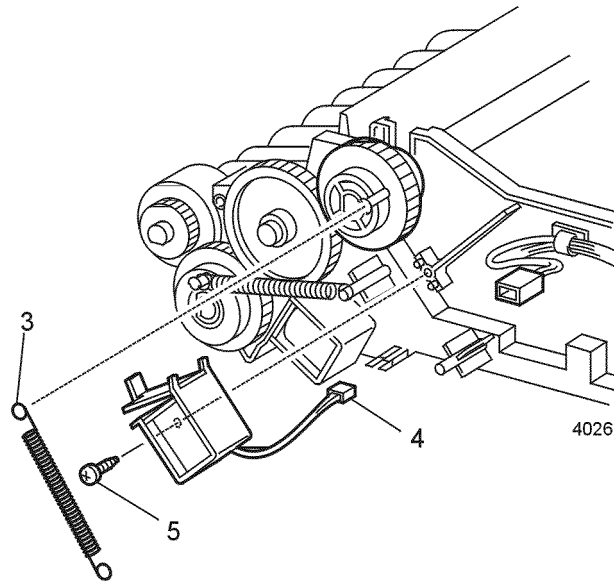


Figure 1 MBF Feed Solenoid

Replacement

1. Reinstall the components in the reverse order.

REP 2.9 Tray 1 Feed Solenoid

Parts List on PL 4.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the MBF Assembly (REP 2.1).
2. Remove the MBF Gear Cover (REP 1.8).
3. Remove the Pick-up Spring from the Tray 1 Pick-up Gear (Figure 1).
4. Disconnect P/J135 from the Tray 1 Feed Solenoid (Figure 1).
5. Remove the screw that secures the Tray 1 Feed Solenoid to the MBF Assembly (Figure 1).

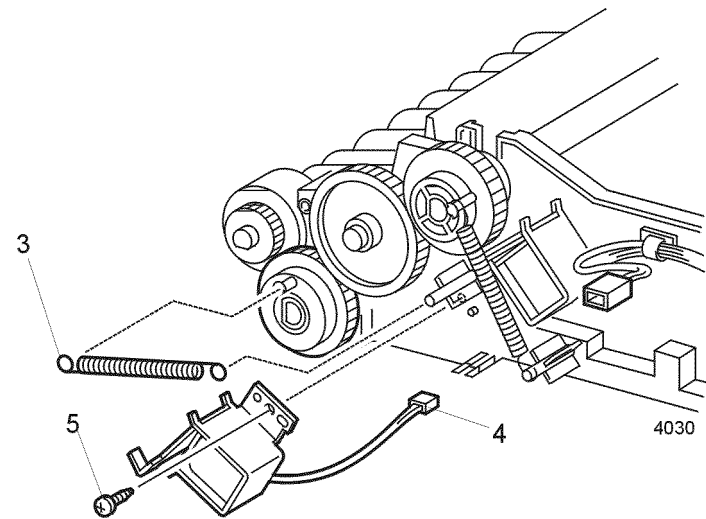


Figure 1 Tray 1 Feed Solenoid

Replacement

1. Reinstall the components in the reverse order.

REP 2.10 Tray 1 Feed Roll

Parts List on PL 4.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the MBF Assembly (REP 2.1).
2. Turn the MBF up-side down.
3. Release the Tray 1 Feed Solenoid.
4. Rotate the Feed Rolls up.
5. Press locking tab that secures the Left Roll Core (Figure 1).
6. Slide the Left Roll Core to the left (Figure 1).
7. Slide the Feed Roll to the left and remove (Figure 1).
8. If replacing the envelope feed rolls, press the locking tabs and remove the two envelope feed rolls (Figure 1).

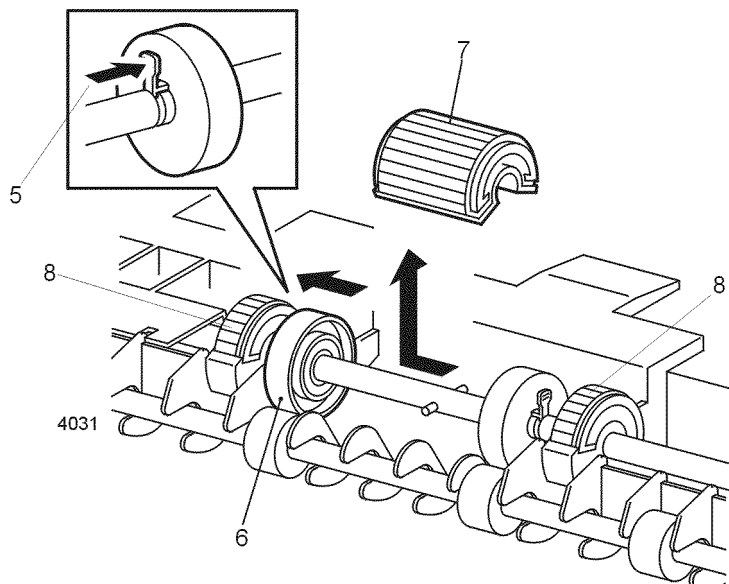


Figure 1 Tray 1 Feed Roll

Replacement

1. Reinstall the components in the reverse order. Note the arrows on the side of the envelope feed rolls. The arrows indicate the direction of rotation.

NOTE: Note the arrows on the side of the envelope feed rolls. The arrows indicate the direction of rotation.

REP 2.11 Tray 1 Retard Holder Assembly

Parts List on PL 3.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Top Cover and remove the Print Cartridge. Cover the cartridge to protect it from light.
2. Remove Tray 1.
3. Remove the MBF Assembly (REP 2.1).
4. Remove the Retard Chute Assembly (REP 3.1).
5. From the rear, release the two locking tabs (Figure 1).
6. Remove the Retard Holder Assembly from the front (Figure 1).

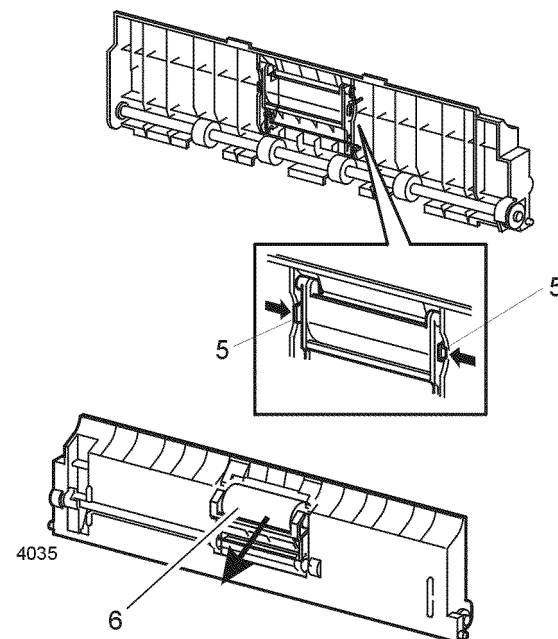


Figure 1 Retard Holder Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 3.1 Retard Chute Assembly

Parts List on PL 11.3

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Top Cover and remove the Print Cartridge. Cover the cartridge to protect it from light.
2. Remove Tray 1.
3. Remove the MBF Assembly (REP 2.1).
4. Tilt the top of the Retard Chute Assembly toward the front of the printer (Figure 1).
5. Lift up on the right end of the chute (Figure 1).
6. Pull the right end forward and remove.

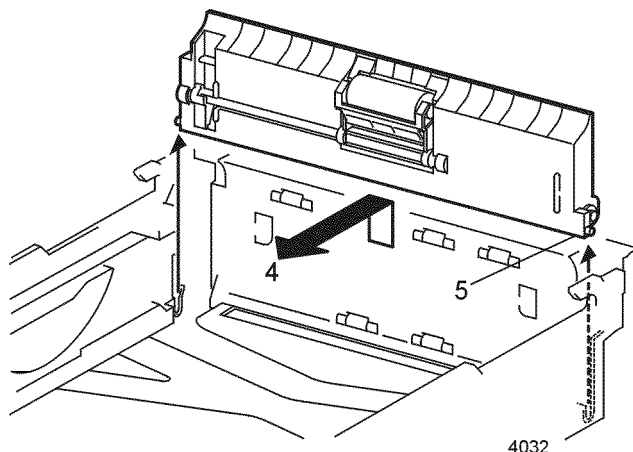


Figure 1 Retard Chute Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 3.2 Rear Chute Assembly

Parts List on PL 3.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Top Cover and remove the Print Cartridge. Cover the cartridge to protect it from light.
2. Remove Tray 1.
3. Remove the MBF Assembly (REP 2.1).
4. Remove the Retard Chute Assembly (REP 3.1).
5. Remove the two screws that secure the Rear Chute Assembly to the printer (Figure 1).
6. Bias the Rear Chute to the left. Pull the top of the chute forward and remove it from the printer (Figure 1). Use care not to damage the ground tabs.

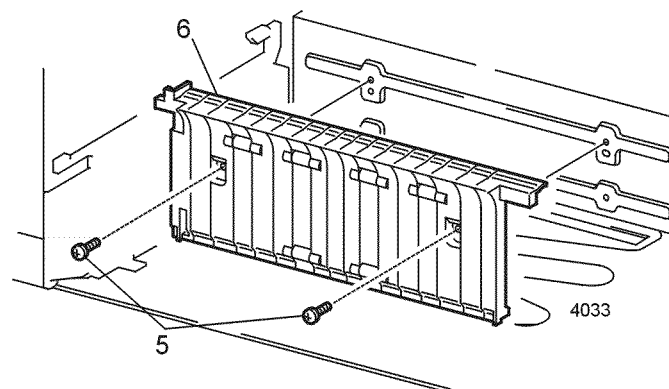


Figure 1 Rear Chute Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 3.3 Lower Turn Roll Assembly

Parts List on PL 3.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Top Cover and remove the Print Cartridge. Cover the cartridge to protect it from light.
2. Remove Tray 1.
3. Remove the MBF Assembly (REP 2.1).
4. Remove the Retard Chute Assembly (REP 3.1).
5. Remove the E-ring from the right end of the Lower Turn Roll (Figure 1).
6. Remove the right bearing (Figure 1).
7. Release the locking tab on the Lower Turn Roll Gear and remove the gear (Figure 1).
8. Remove the left bearing (Figure 1).
9. Move the Lower Turn Roll Assembly to the left until the right end is free of the assembly (Figure 1).
10. Lift and remove the Lower Turn Roll Assembly.

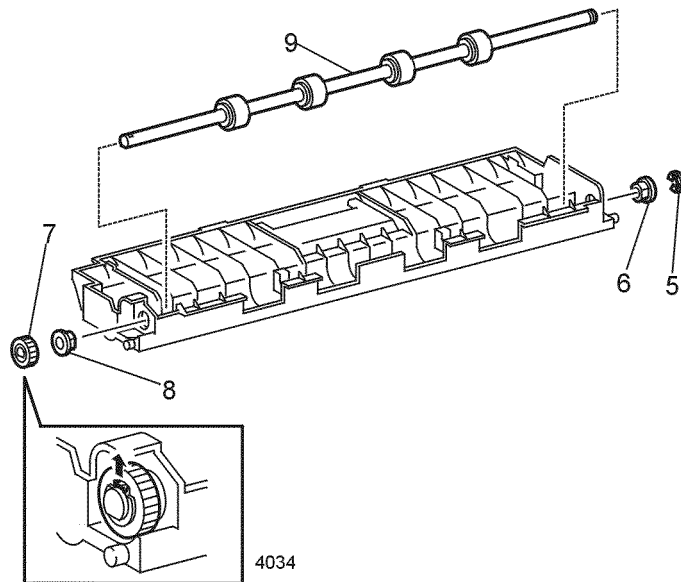


Figure 1 Lower Turn Roll Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 3.4 Tray 1 Low Paper Sensor

Parts List on PL 3.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Top Cover and remove the Print Cartridge. Cover the cartridge to protect it from light.
2. Remove Tray 1.
3. Remove the MBF Assembly (REP 2.1).
4. Remove the Retard Chute Assembly (REP 3.1).
5. Remove Tray 1 Left Guide Assembly (REP 3.6)
6. Release the locking tabs and remove the sensor from the Guide Assembly (Figure 1).

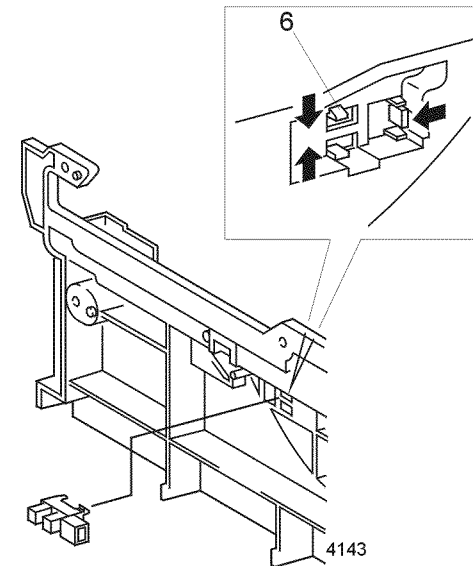


Figure 1 Tray 1 Low Paper Sensor

Replacement

1. Reinstall the components in the reverse order.

REP 3.5 Tray 1 Right Guide Assembly

Parts List on PL 3.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Rear Cover.
2. Open the Top Cover and remove the Print Cartridge. Cover the cartridge to protect it from light.
3. Remove Tray 1.
4. Remove the Left Side Cover (REP 1.1).
5. Remove the Top Cover Assembly (REP 1.3).
6. Remove the Right Side Cover (REP 1.2).
7. Remove the MBF Assembly (REP 2.1).
8. Remove the Retard Chute Assembly (REP 3.1).
9. Remove Front Cover (REP 1.4).
10. Carefully push down on the locking tab that secures the rod to the paper level actuator (Figure 1).
11. Remove the paper level assembly from the stud on the frame (Figure 1).
12. Move the paper level forward to unlatch then remove from the printer (Figure 1).
13. Remove the four screws that secure the Tray 1 Right Guide Assembly to the printer (Figure 2).
14. Use a small screwdriver to pry up on the locking tab that locks the guide assembly to the bottom of the printer (Figure 2).
15. Remove the Tray 1 Right Guide Assembly.

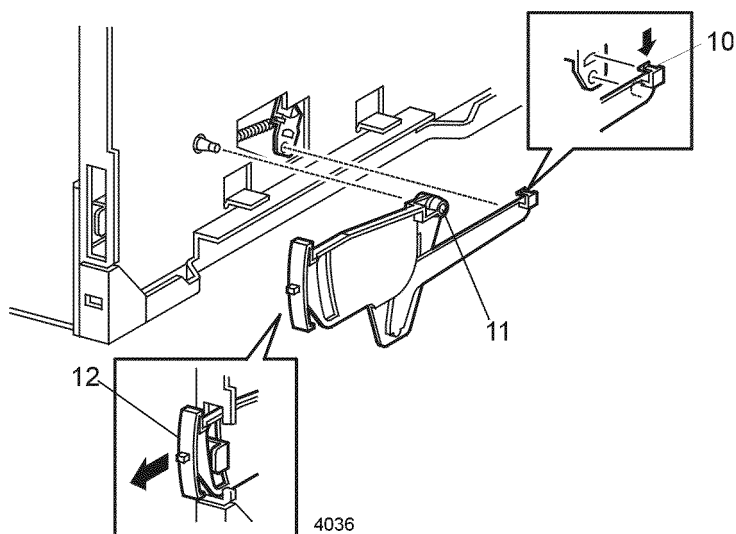


Figure 1 Paper Level Indicating Arm

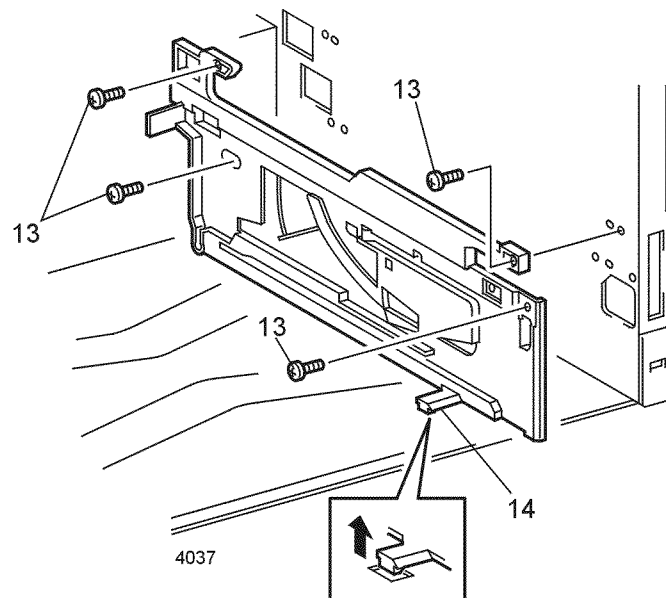


Figure 2 Tray 1 Right Guide Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 3.6 Tray 1 Left Guide Assembly

Parts List on PL 3.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Top Cover and remove the Print Cartridge. Cover the cartridge to protect it from light.
2. Remove Tray 1.
3. Remove the Left Side Cover (REP 1.1).
4. Remove the MBF Assembly (REP 2.1).
5. Remove the Retard Chute Assembly (REP 3.1).
6. From the left side of the printer, disconnect P/J201 from the Tray 1 Size Sensor (Figure 1).
7. Remove the six screws that secure the Tray 1 left Guide Assembly to the printer (Figure 1).
8. Use a small screwdriver to pry up on the locking tab that locks the guide assembly to the bottom of the printer (Figure 1).
9. Disconnect P/J202 and P/J127 from the guide assembly (Figure 1).
10. Remove the Tray 1 Left Guide Assembly.

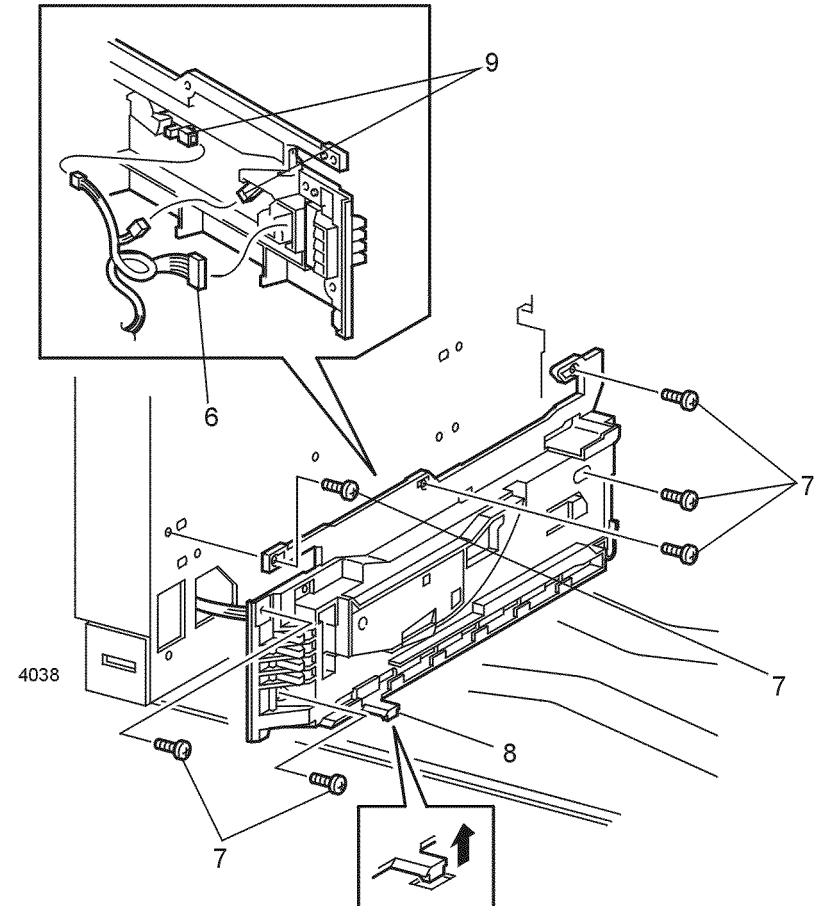


Figure 1 Tray 1 Left Guide Assembly

Replacement

1. Reinstall the components in the reverse order.

NOTE: Ensure that all alignment pins are properly inserted in the frame holes before replacing the six screws.

REP 3.7 MBF Assembly Position

Parts List on PL 4.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Top Cover and remove the Print Cartridge. Cover the cartridge to protect it from light.
2. Remove Tray 1.
3. Remove the Left Side Cover (REP 1.1).
4. Remove the MBF Assembly (REP 2.1).
5. Remove the Retard Chute Assembly (REP 3.1).
6. Remove Tray 1 Left Guide Assembly (REP 3.6)
7. Remove the two screws and remove the cover (Figure 1).
8. Release the locking tabs and remove the sensor from the Guide Assembly (Figure 1).

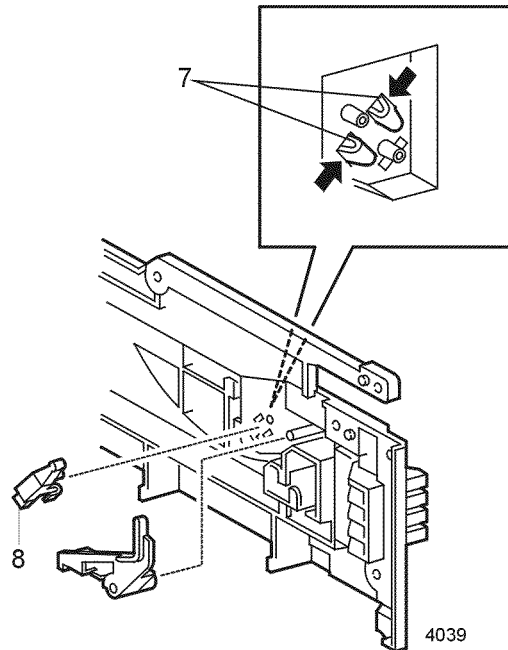


Figure 1 MBF Assembly Position Sensor

Replacement

1. Reinstall the components in the reverse order.

REP 4.1 Paper Transport Assembly

Parts List on PL 5.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Rear Cover.
2. Remove the Fuser Assembly (REP 5.1).
3. Open the Top Cover and remove the Print Cartridge. Cover the cartridge to protect it from light.
4. Remove Tray 1.
5. Remove the MBF Assembly (REP 2.1).
6. Remove the Left Side Cover (REP 1.1).
7. Remove the Top Cover Assembly (REP 1.3).
8. Remove the HVPS Cover (REP 1.6).
9. Disconnect plug P185 (R) from the top of transformer T503 on the HVPS PWB (Figure 1).
10. Remove the screw that secures the Detack Saw Wire to the assembly (Figure 1).
11. Remove the wires from cable clamps.
12. Disconnect P/J222 from the bottom of the Registration Clutch (Figure 1).
13. Remove the four screws that secure the Paper Transport Assembly to the printer (Figure 1).

NOTE: When removing the Paper Transport Assembly, do not touch the BTR roll with your hands. Oil from your hands can cause copy quality problems.

14. Guide the high voltage leads through the holes in the printer frame as you remove the Paper Transport Assembly.

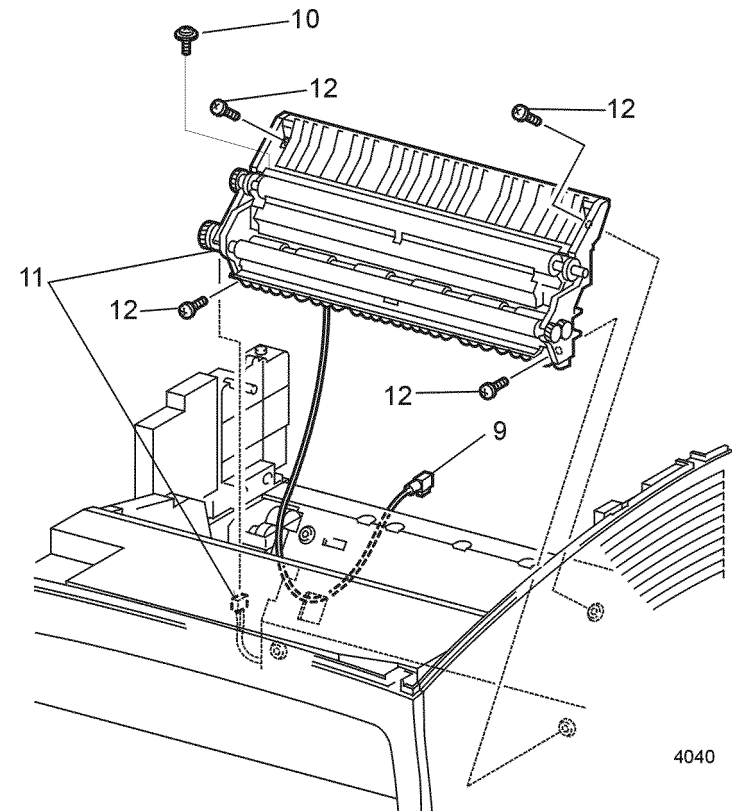


Figure 1 Paper Transport Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 4.2 Registration Actuator

Parts List on PL 5.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Rear Cover.
2. Remove the Fuser Assembly (REP 5.1).
3. Open the Top Cover and remove the Print Cartridge. Cover the cartridge to protect it from light.
4. Remove Tray 1.
5. Remove the MBF Assembly (REP 2.1).
6. Remove the Left Side Cover (REP 1.1).
7. Remove the Top Cover Assembly (REP 1.3).
8. Remove the HVPS Cover (REP 1.6).
9. Remove the Paper Transport Assembly (REP 4.1)
10. Note the position of the actuator spring (Figure 1).
11. Move the Registration Actuator to its full actuated position.
12. Slide the Registration Actuator to the left to disengage the right end of the actuator (Figure 1). Pull the actuator up and out of the Paper Transport Assembly.
13. Remove the spring from the Registration Actuator.

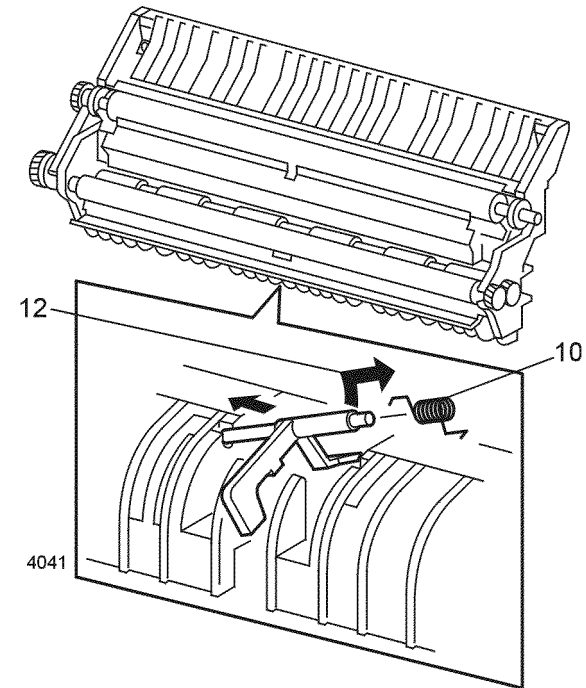


Figure 1 Registration Actuator

Replacement

1. Reinstall the components in the reverse order.

REP 4.3 Registration Clutch

Parts List on PL 5.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Rear Cover.
2. Remove the Fuser Assembly (REP 5.1).
3. Open the Top Cover and remove the Print Cartridge. Cover the cartridge to protect it from light.
4. Remove Tray 1.
5. Remove the MBF Assembly (REP 2.1).
6. Remove the Left Side Cover (REP 1.1).
7. Remove the Top Cover Assembly (REP 1.3).
8. Remove the HVPS Cover (REP 1.6).
9. Remove the Paper Transport Assembly (REP 4.1)
10. Remove the E-ring that secures the Registration Clutch to the Rubber Registration Roll (Figure 1).
11. Remove the Registration Clutch (Figure 1).

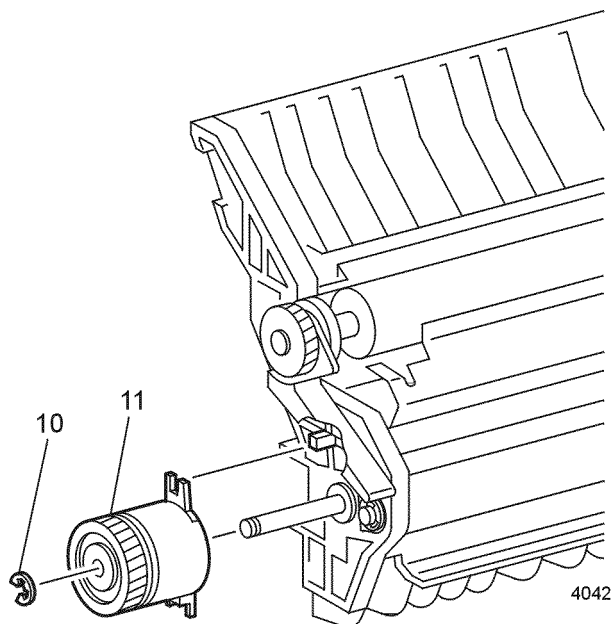


Figure 1 Registration Clutch

Replacement

1. Reinstall the components in the reverse order.

REP 4.4 Metal Registration Roll

Parts List on PL 5.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Rear Cover.
2. Remove the Fuser Assembly (REP 5.1).
3. Open the Top Cover and remove the Print Cartridge. Cover the cartridge to protect it from light.
4. Remove Tray 1.
5. Remove the MBF Assembly (REP 2.1).
6. Remove the Left Side Cover (REP 1.1).
7. Remove the Top Cover Assembly (REP 1.3).
8. Remove the HVPS Cover (REP 1.6).
9. Remove the Paper Transport Assembly (REP 4.1)
10. Remove the Registration Clutch (REP 4.3).
11. Release the left and right Registration Springs (Figure 1).
12. Remove the left and right E-rings (Figure 1).
13. Remove the Gear from the right end of the Metal Registration Roll (Figure 1).
14. Remove the right and left bearings (Figure 1).
15. Lift the right end of the Metal Registration Roll. Slide the roll to the right to free the left end of the roll. Then slide the roll to the left to remove (Figure 1).

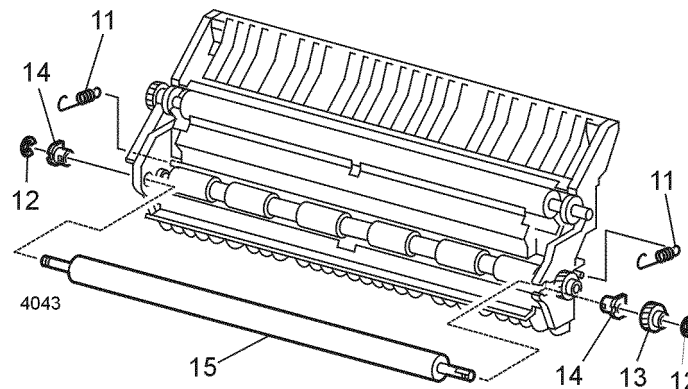


Figure 1 Metal Registration Roll

Replacement

1. Reinstall the components in the reverse order.

REP 4.5 Rubber Registration Roll

Parts List on PL 5.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Rear Cover.
2. Remove the Fuser Assembly (REP 5.1).
3. Open the Top Cover and remove the Print Cartridge. Cover the cartridge to protect it from light.
4. Remove Tray 1.
5. Remove the MBF Assembly (REP 2.1).
6. Remove the Left Side Cover (REP 1.1).
7. Remove the Top Cover Assembly (REP 1.3).
8. Remove the HVPS Cover (REP 1.6).
9. Remove the Paper Transport Assembly (REP 4.1)
10. Remove the Registration Clutch (REP 4.3).
11. Remove the Metal Registration Roll (REP 4.4).
12. Remove the E-ring that secures the Registration Gear to the right end of the Registration Roll (Figure 1).
13. Remove the Registration Gear from the Registration Roll (Figure 1).
14. Remove the left and right bearings from the Registration Roll (Figure 1).
15. Lift the right end of the Registration Roll and remove (Figure 1).

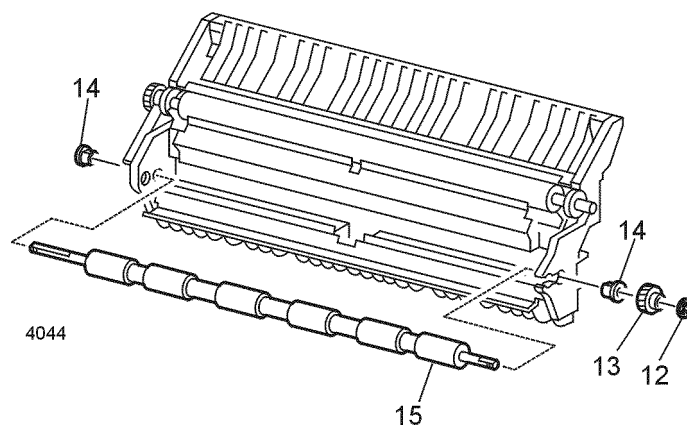


Figure 1 Rubber Registration Roll

Replacement

1. Reinstall the components in the reverse order.

REP 4.6 Registration Sensor

Parts List on PL 5.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Rear Cover.
2. Remove the Fuser Assembly (REP 5.1).
3. Open the Top Cover and remove the Print Cartridge. Cover the cartridge to protect it from light.
4. Remove Tray 1.
5. Remove the MBF Assembly (REP 2.1).
6. Remove the Left Side Cover (REP 1.1).
7. Remove the Top Cover Assembly (REP 1.3).
8. Remove the HVPS Cover (REP 1.6).
9. Remove the Paper Transport Assembly (REP 4.1).
10. Remove the HVPS PWB (REP 8.2).
11. Disconnect P/J183 from the Registration Sensor (Figure 1).
12. Release the three locking tabs and remove the sensor (Figure 1).

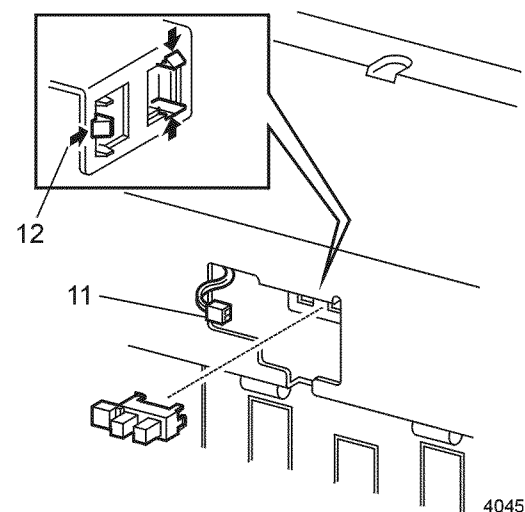


Figure 1 Registration Sensor

Replacement

1. Reinstall the components in the reverse order.

REP 5.1 Fuser Assembly

Parts List on PL 6.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

WARNING

If the printer has been in operation, the Fuser may be hot.

1. Open the Rear Cover.
2. Move the Fuser Locking Lever to the left (as viewed from the rear) (Figure 1).
3. Lift the left tabs to disconnect P/J174 then lift both the left and right tabs to remove (Figure 1).

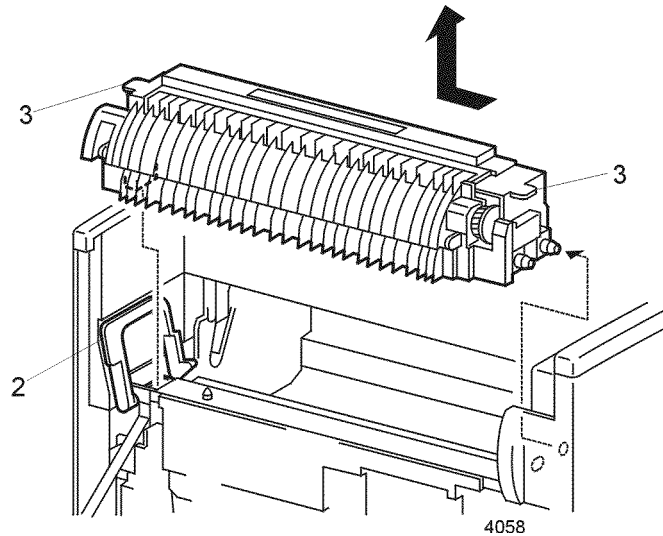


Figure 1 Fuser Assembly

Replacement

1. Reinstall the components in the reverse order.

NOTE: Install the locating pins first.

REP 5.2 Stack Full Sensor

Parts List on PL 6.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open and remove the Rear Cover (REP 1.9).
2. Remove the four screws that secure the Lower Exit Chute Assembly (Figure 1). Remove the assembly.
3. Remove the four screws that secure the Upper Exit Chute (Figure 2). Remove the top of the Rear Cover.
4. Release the two locking tabs that secure the Stack Full Sensor Holder to the Rear Cover (Figure 2).
5. Remove the Stack Full Sensor Holder and Actuator from the Rear Cover.
6. Release the three locking tabs and remove the sensor from the holder (Figure 3).
7. Disconnect P/J507 from the Stack Full Sensor (Figure 2).

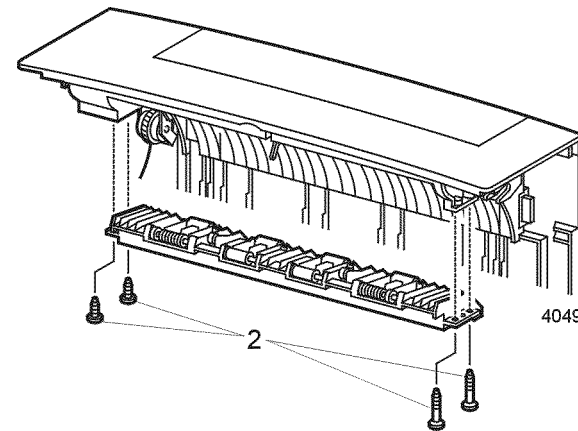


Figure 1 Lower Exit Chute

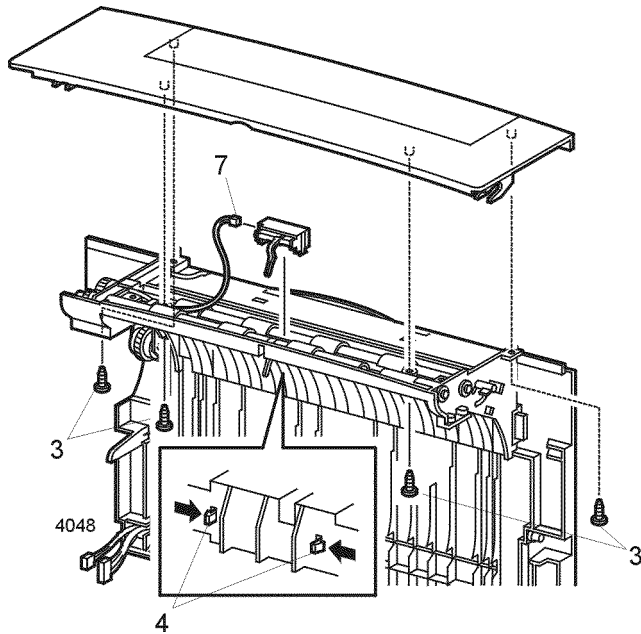


Figure 2 Upper Exit Chute

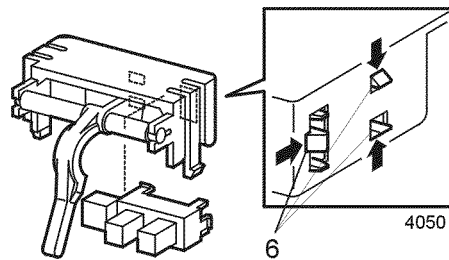


Figure 3 Stack Full Sensor

Replacement

1. Reinstall the components in the reverse order.

NOTE: The two shoulder screws go in the right end of the Lower Exit Chute Assembly (Figure 1).

REP 5.3 Stack Full Actuator

Parts List on PL 6.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Rear Cover.
2. Remove the Rear Cover (REP 1.9).
3. Remove the Stack Full Sensor (REP 5.2).
4. Carefully pull the actuator out of the holder (Figure 1).

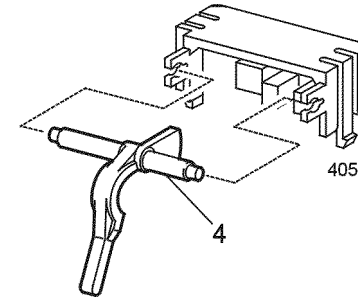


Figure 1 Stack Full Actuator

Replacement

1. Reinstall the components in the reverse order.

REP 5.4 Exit Gate Chute

Parts List on PL 6.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open and remove the Rear Cover (REP 1.9).
2. Remove the four screws that secure the Lower Exit Chute Assembly (Figure 1). Remove the assembly.
3. Note the position of the gate spring. Unhook the gate spring (Figure 2).
4. Carefully bend the Exit Gate in the middle until the left end is free of the Rear Cover (Figure 2).
5. Align the tab on the Gate with the hole in the Rear Cover. Remove the chute (Figure 3).
6. Remove the spring from the chute (Figure 3).

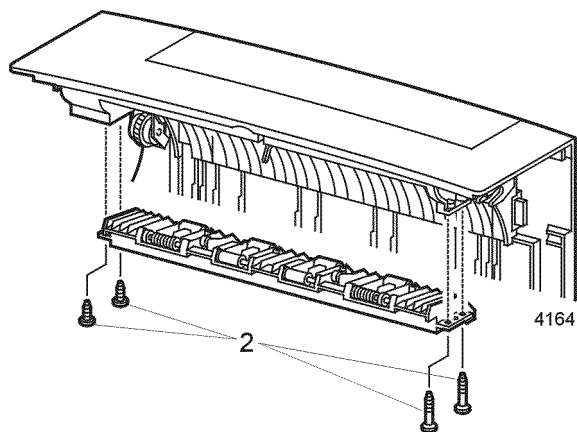


Figure 1 Lower Exit Chute

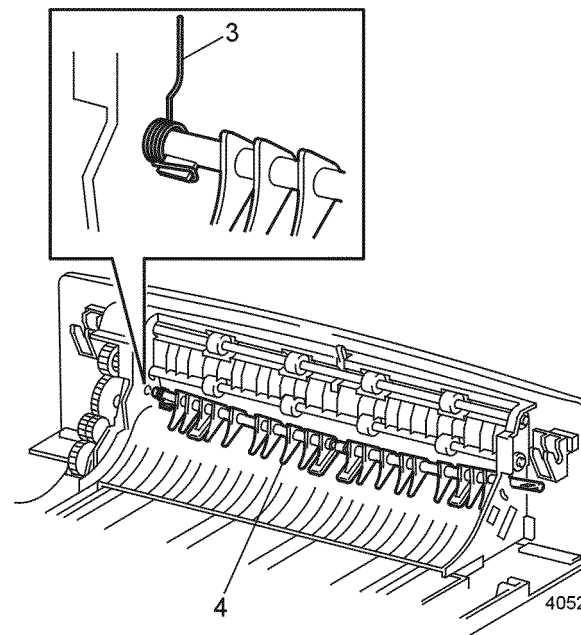


Figure 2 Exit Gate Spring

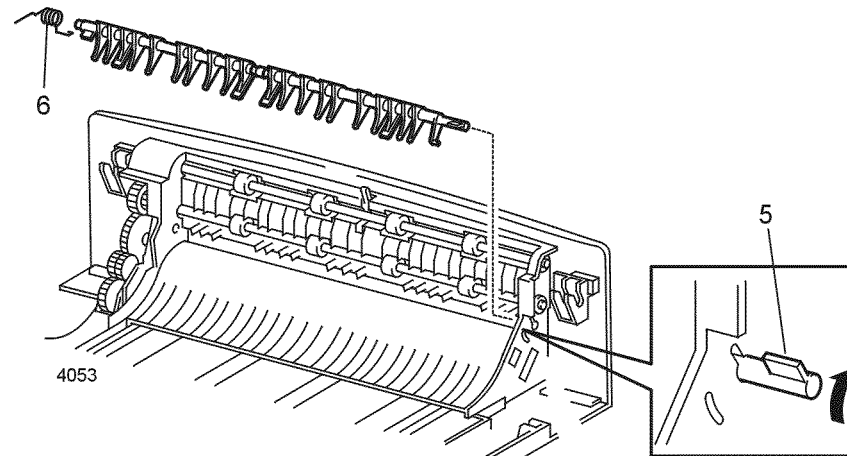


Figure 3 Exit Gate

Replacement

1. Reinstall the components in the reverse order.

REP 5.5 Exit Roll Assembly

Parts List on PL 6.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Rear Cover.
2. Remove the Rear Cover (REP 1.9).
3. Remove the four screws that secure the Lower Exit Chute Assembly (Figure 1). Remove the assembly.
4. Remove the four screws that secure the Upper Exit Chute. Remove the chute (Figure 2).
5. Remove the E-ring that secures the right end of the Upper Exit Roll Assembly (Figure 3).
6. Release the three locking tabs and remove the Gear Z15 from Upper Exit Roll Assembly (Figure 3).
7. Remove the left and right bearings from the Exit Roll (Figure 3).
8. Remove the two paper tabs from the shaft (Figure 3).
9. Move the Exit Roll Shaft to the left until the right end is free of the Rear Cover. Remove the Exit Roll (Figure 3).
10. Remove the E-ring that secures the right end of the Lower Exit Roll Assembly (Figure 4).
11. Release the three locking tabs and remove the Gear Z22 from Lower Exit Roll Assembly (Figure 4).
12. Remove the left and right bearings from the Exit Roll (Figure 4).
13. Move the Exit Roll Shaft to the left until the right end is free of the Rear Cover (Figure 4). Remove the Exit Roll.

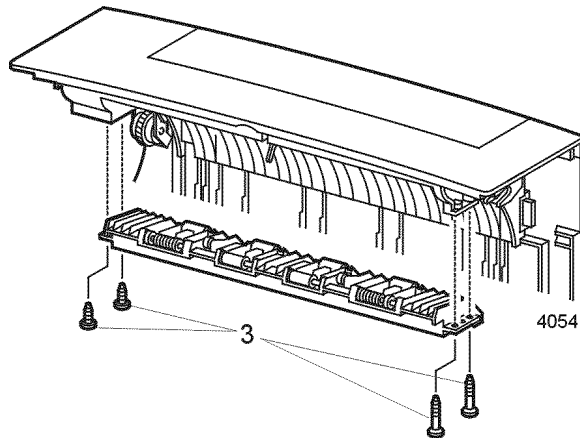


Figure 1 Lower Exit Chute

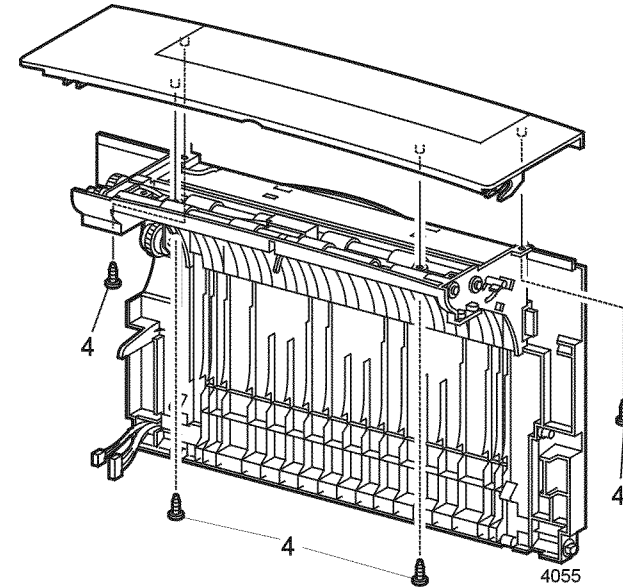


Figure 2 Upper Exit Chute

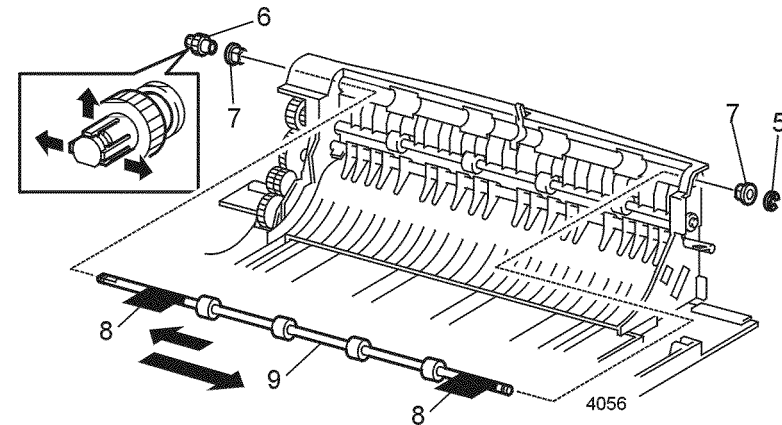


Figure 3 Upper Exit Roll Assembly

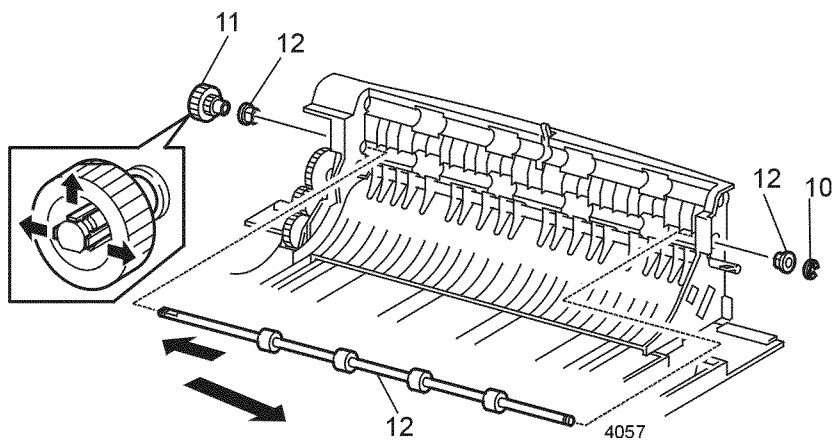


Figure 4 Lower Exit Roll Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 6.1 Main Gear Drive Assembly

Parts List on PL 7.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Lower Rear Cover (REP 1.7).
2. Open the Rear Cover.
3. Remove the Fuser Assembly (REP 5.1).
4. Open the Top Cover and remove the Print Cartridge. Cover the cartridge to protect it from light.
5. Remove Tray 1.
6. Remove the MBF Assembly (REP 2.1).
7. Remove the Left Side Cover (REP 1.1).
8. Remove the Top Cover Assembly (REP 1.3).
9. Loosen the two thumb screws and remove the System Controller PWB Shield Cover (Figure 1).
10. Remove the System Controller PWB (REP 8.1).
11. Disconnect CN2 from the Motor Drive PWB (Figure 2).

NOTE: In the next step, there are arrows stamped into the metal indicating the eight screws to remove.

12. Remove the eight screws that secure the Gear Assembly to the printer (Figure 2).
13. Remove the Gear Assembly and Motor from the printer (Figure 2).

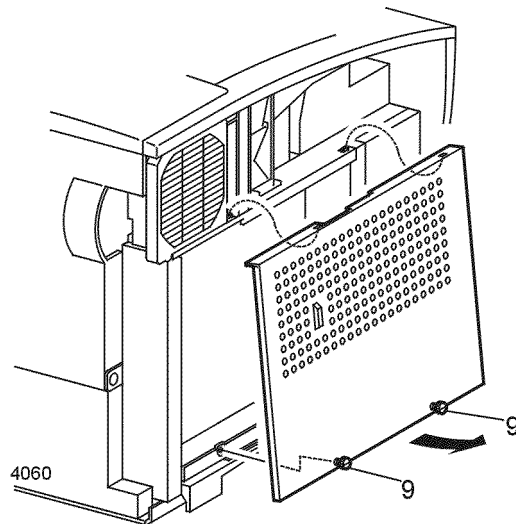


Figure 1 Shield Cover

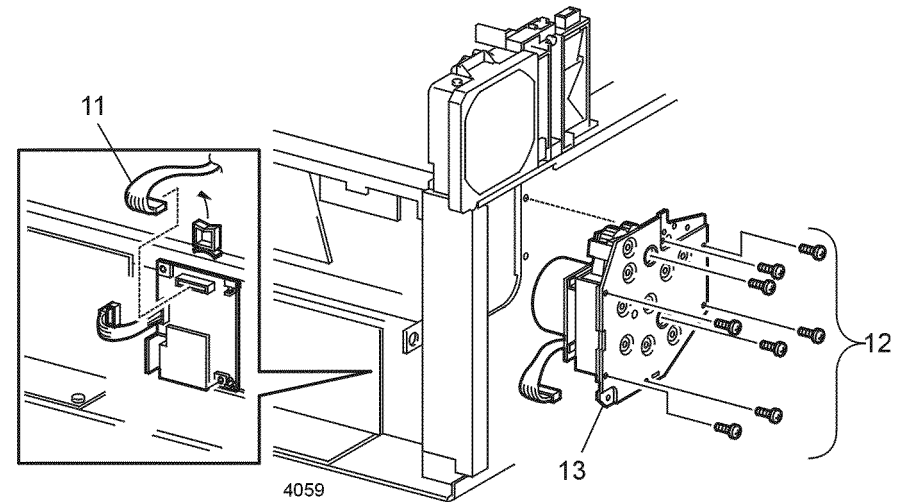


Figure 2 Gear Drive Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 6.2 Main Motor Assembly

Parts List on PL 7.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Gear Assembly (REP 6.1).
2. Remove the three screws that secure the Motor Assembly to the Gear Assembly (Figure 1).
3. Remove the Motor Assembly from the Gear Assembly (Figure 1).

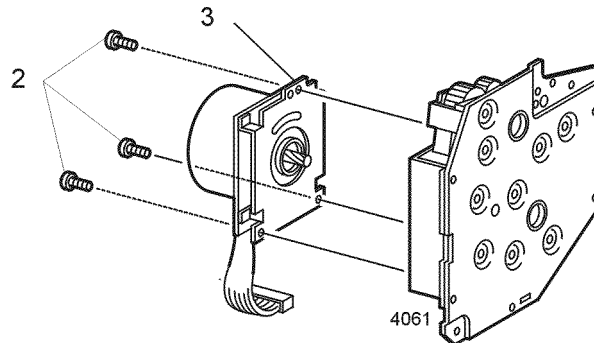


Figure 1 Motor Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 7.1 Laser Assembly

Parts List on PL 8.1

Removal

CAUTION

These components are susceptible to electrostatic discharge. Observe all ESD procedures to avoid damage.

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Rear Cover.
2. Open the Top Cover and remove the Print Cartridge. Cover the cartridge to protect it from light.
3. Remove the Left Side Cover (REP 1.1).
4. Remove the Top Cover Assembly (REP 1.3).
5. Remove the screw that secures the Right Side Cover to the Laser Cover (Figure 1).
6. Remove the Front Cover (REP 1.4).
7. Remove the six screws that secure the Laser Cover to the printer (Figure 1). Move the top of the right cover to the right and remove the Laser Cover.
8. Disconnect P/J112 and the in-line connector P/J114 from the Laser Assembly (Figure 2).
9. Remove the four screws that secure the Laser Assembly to the printer (Figure 2).
10. Remove the Laser Assembly.

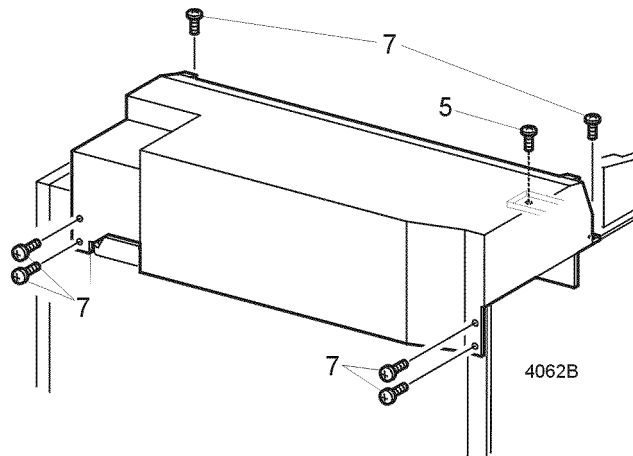


Figure 1 Laser Cover

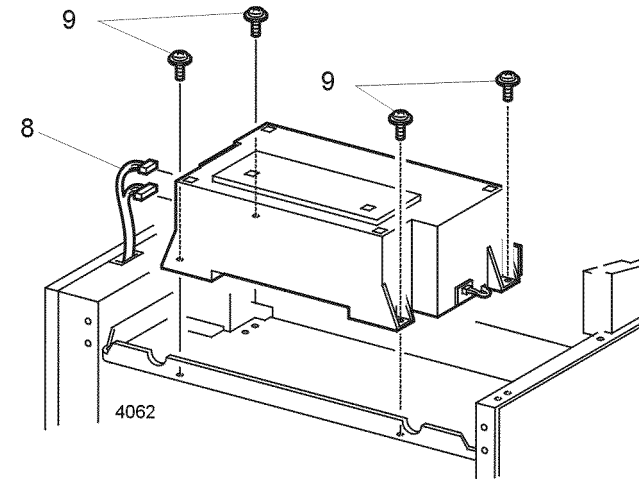


Figure 2 Laser Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 7.2 Right Print Cartridge Guide Assembly

Parts List on PL 8.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Lower Rear Cover (REP 1.7).
2. Open and remove the Rear Cover (REP 1.9).
3. Remove the Fuser Assembly (REP 5.1)
4. Open the Top Cover and remove the Print Cartridge. Cover the cartridge to protect it from light.
5. Remove the Left Side Cover (REP 1.1).
6. Remove the Top Cover Assembly (REP 1.3).
7. Remove the HVPS Cover (REP 1.6).
8. Remove the BTR Assembly (REP 7.7).
9. Disconnect P/J186 (R) and P/J187 (W) from the HVPS PWB (Figure 1).
10. Disconnect P/J177 and P/J178 from the Fuser Interlock Switch (Figure 1).
11. Disconnect P/J162 from the LVPS PWB (Figure 1).
12. Remove all disconnected harnesses from cable clamps.
13. Remove the two screws that secure the right guide assembly (Figure 1).
14. Guide harnesses through the printer frame as you remove the Right Print Cartridge guide Assembly from the printer.

NOTE: The Pin Link is not attached to the Guide Assembly and may fall into the printer when the guide assembly is removed.

15. Remove the Right Print Cartridge Guide Assembly and Pin Link from the printer (Figure 1).

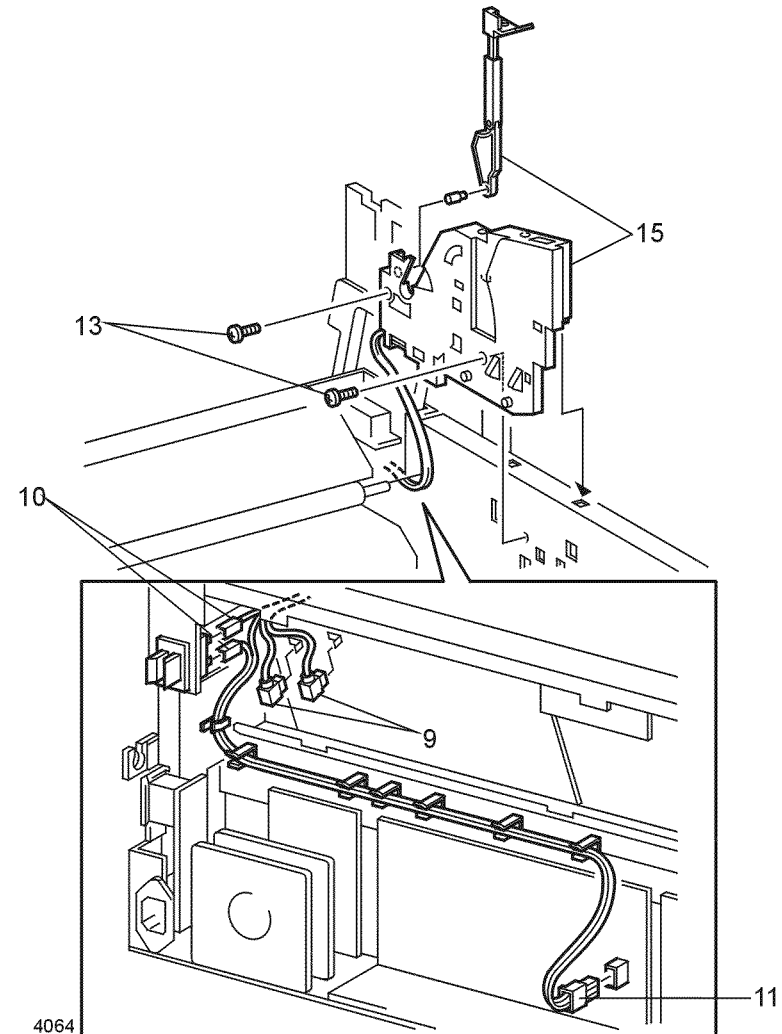


Figure 1 Right Print Cartridge Guide

Replacement

1. Reinstall the components in the reverse order.

REP 7.3 Toner Sensor Assembly

Parts List on PL 8.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Top Cover and remove the Print Cartridge. Cover the cartridge to protect it from light.
2. Disconnect P/J141 (Figure 1).
3. Release Toner Sensor Assembly Harness from the cable clamps and retainers (Figure 1).
4. Release the two locking tabs and remove the Toner Sensor Assembly from the printer (Figure 1).

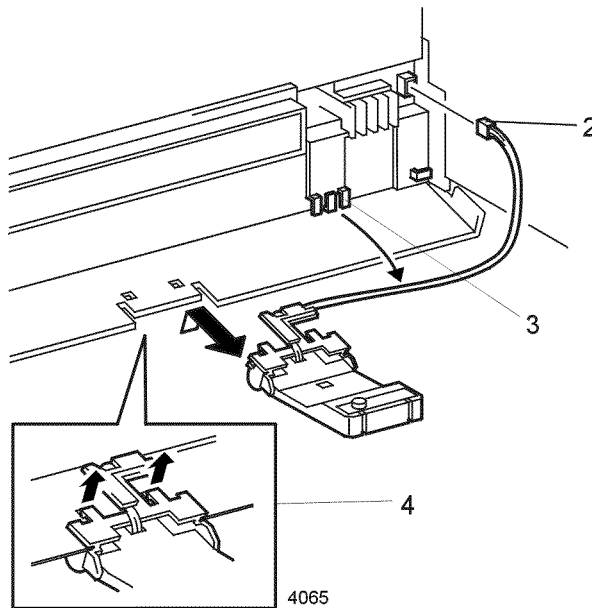


Figure 1 Toner Sensor Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 7.4 Print Cartridge Sensor Assembly

Parts List on PL 8.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Rear Cover.
2. Remove the OCT, if installed.
3. Open the Top Cover and remove the Print Cartridge. Cover the cartridge to protect it from light.
4. Remove the Left Side Cover (REP 1.1).
5. Remove the Top Cover Assembly (REP 1.3).
6. Remove the screw that secures the Right Side Cover to the Laser Cover (Figure 1).
7. Remove the Front Cover (REP 1.4).
8. Remove the MBF Assembly (REP 2.1).
9. Remove the six screws that secure the Laser Cover to the printer (Figure 1). Move the Right Side Cover to the right and remove the Laser Cover.
10. Disconnect both ends of the Toner Sensor Cable (P/J171) from the Sensor Assembly (Figure 2). Remove cable from cable clamps on cartridge sensor.
11. Disconnect P/J211 from the Cartridge Sensor Assembly (Figure 2).
12. Remove the two screws that secure the Print Cartridge Sensor Assembly to the printer (Figure 2).
13. Carefully lift the sensor assembly and remove the PJ121 harness assembly that runs through the sensor assembly.
14. Remove the Print Cartridge Sensor Assembly.

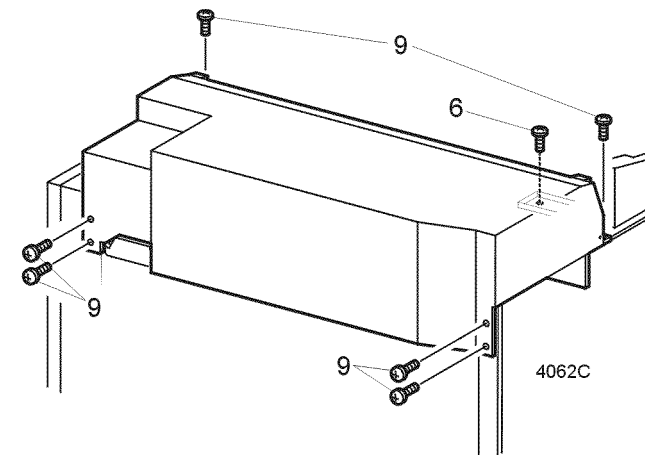


Figure 1 Laser Cover

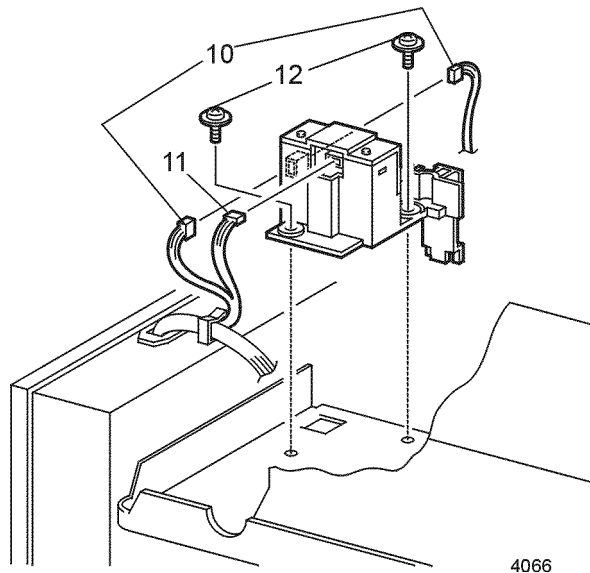


Figure 2 Print Cartridge Sensor

Replacement

1. Reinstall the components in the reverse order.

REP 7.5 Top Cover Interlock Switch

Parts List on PL 8.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Rear Cover.
2. Open the Top Cover.
3. Remove the Left Side Cover (REP 1.1).
4. Remove the Top Cover Assembly (REP 1.3).
5. Remove the Right Side Cover (REP 1.2).
6. Remove the screw that secures the Interlock Switch to the Right Print Cartridge Guide Assembly (Figure 1).
7. Disconnect P/J623 from the Interlock Switch (Figure 1). Remove the switch.

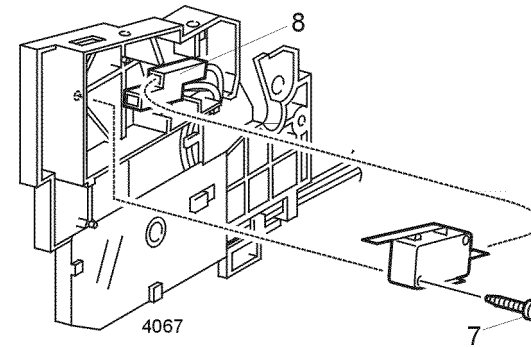


Figure 1 Top Cover Interlock Switch

Replacement

1. Reinstall the components in the reverse order.

REP 7.6 Left Print Cartridge Guide Assembly

Parts List on PL 8.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Rear Cover.
2. Open the Top Cover and remove the Print Cartridge. Cover the cartridge to protect it from light.
3. Remove the Left Side Cover (REP 1.1).
4. Remove the Top Cover Assembly (REP 1.3).
5. Remove the BTR Assembly (REP 7.7).
6. Remove the two screws that secure the Print Cartridge Left Guide Assembly to the printer (Figure 1).
7. Remove the Print Cartridge Left Guide Assembly from the printer (Figure 1).
8. Remove the Left Guide Link Assembly and Pin Link from the printer (Figure 1).

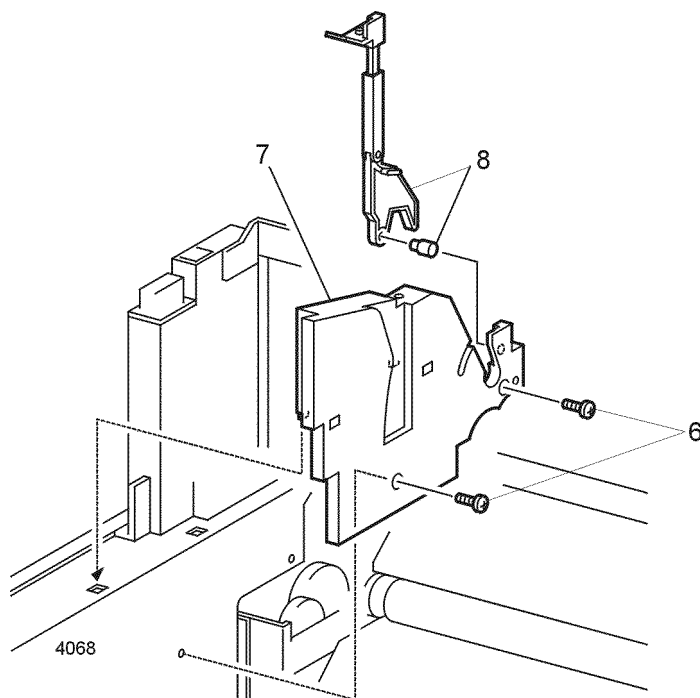


Figure 1 Left Print Cartridge Guide Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 7.7 BTR Assembly

Parts List on PL 5.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Top Cover and remove the Print Cartridge. Cover the cartridge to protect it from light.

NOTE: During the following steps, do not touch the black roll part of the BTR. Oil from your hands can cause copy quality problems.

2. Lift the orange handle on the left end of the BTR Assembly (Figure 1). Pull up on the handle to free the left end of the BTR.
3. Use your finger to lift the right end of the BTR Assembly (Figure 1).
4. Place the BTR roll on a sheet of clean paper and cover it with another sheet of paper.

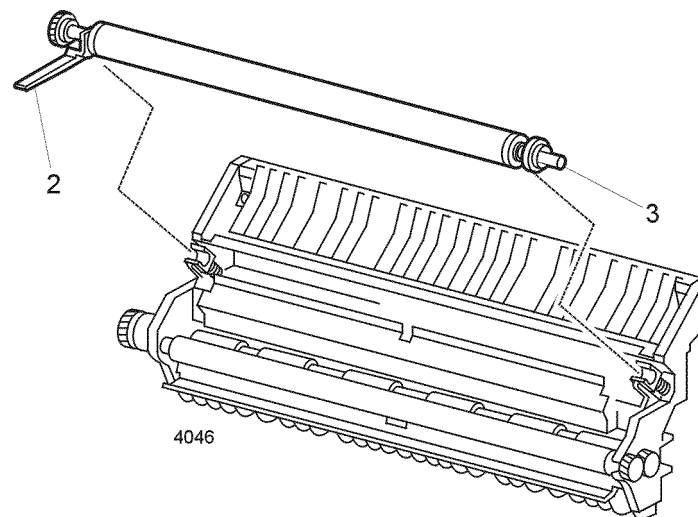


Figure 1 BTR Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 8.1 System Controller PWB

Parts List on PL 9.1

Removal

CAUTION

These components are susceptible to electrostatic discharge. Observe all ESD procedures to avoid damage.

WARNING

Turn the power off and disconnect the Power Cord.

1. Remove the Left Side Cover (REP 1.1).
2. Loosen the two thumb screws that secure the Shield Cover and remove the cover (Figure 1).
3. Remove the six screws and the RF Shields that secure the rear of the System Controller PWB Assembly to the printer (Figure 2).
4. Disconnect P/J3, P/J13, and P/J18 from the System Controller PWB.
5. Remove the seven screws that secure the System Controller PWB to the printer (Figure 2).
6. Slide the System Controller PWB toward the rear of the printer to disconnect P/J14 from the Print Engine Controller PWB (Figure 2).
7. Remove the System Controller PWB Assembly.

NOTE: *If replacing the System Controller PWB, continue with step 8.*

8. Remove any DIMMs from slots J5, J4, or J6 and install them on the new System Controller PWB.
9. If installed, remove the two screws that secure the Network Card to the frame assembly (Figure 3). Remove the network card.
10. If installed, remove the Hard Disk Drive and the two right standoffs.
11. Remove the two screws that secure the parallel connector to the frame assembly (Figure 3).
12. Remove the three screws that secure the System Controller PWB to the frame assembly (Figure 3). Remove the System Controller PWB.

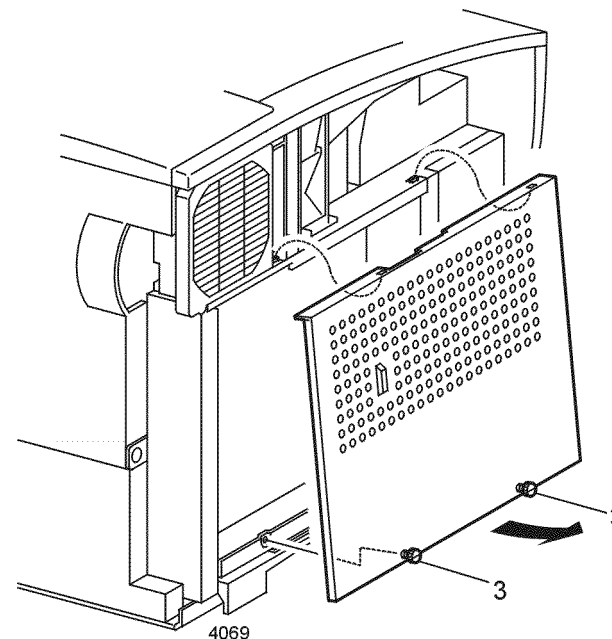


Figure 1 Shield Cover

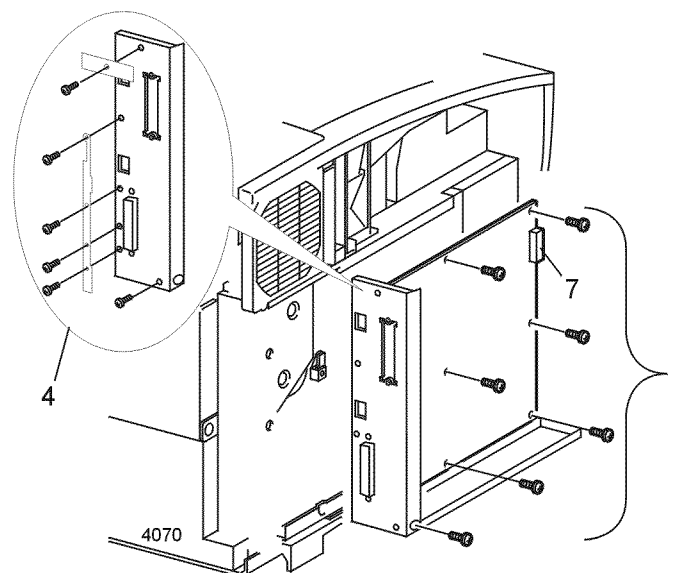


Figure 2 System Controller PWB Assembly

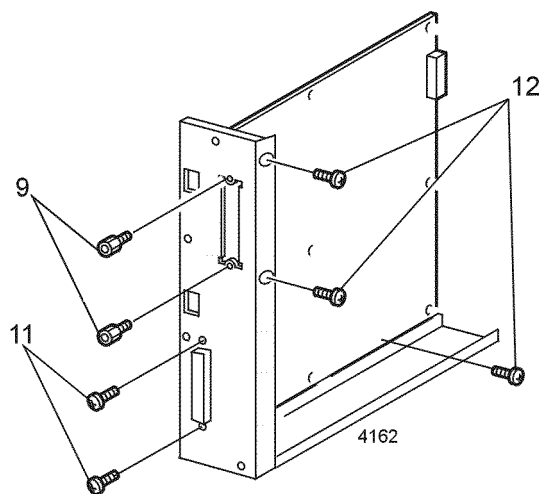


Figure 3 System Controller PWB

Replacement

1. Reinstall the components in the reverse order.

REP 8.2 HVPS PWB

Parts List on PL 9.1

Removal

CAUTION

These components are susceptible to electrostatic discharge. Observe all ESD procedures to avoid damage.

WARNING

Turn the power off and disconnect the Power Cord.

1. Remove the Rear Cover (REP 1.9).
2. Remove the HVPS Cover (REP 1.6).
3. Disconnect P/J181, P/J182, P/J186, P/J187, P/J188, P/J185 from the HVPS PWB (Figure 1).
4. Remove the four screws that secure the HVPS PWB to the printer (Figure 1).
5. Remove the HVPS PWB.

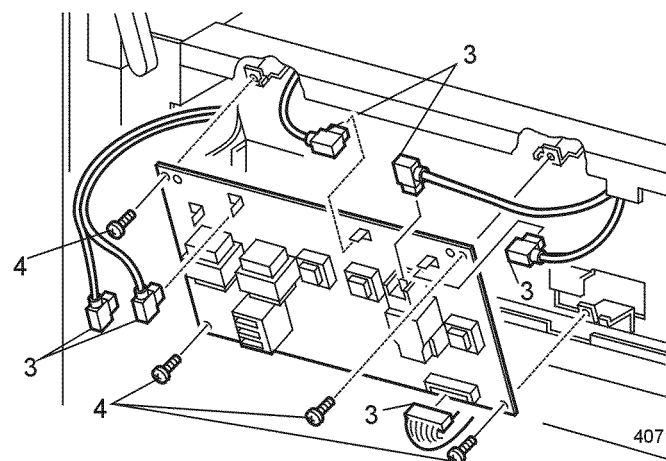


Figure 1 HVPS PWB

Replacement

1. Reinstall the components in the reverse order.

REP 8.3 Duplex Interface PWB

Parts List on PL 11.1

Removal

CAUTION

These components are susceptible to electrostatic discharge. Observe all ESD procedures to avoid damage.

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Rear Cover (REP 1.9).
2. Remove the HVPS Cover (REP 1.6).
3. Disconnect P/J501, P/J504, and P/J506 from the Duplex Interface PWB (Figure 1).
4. Remove the two screws that secure the Duplex Interface PWB to the printer (Figure 1).
5. Remove the Duplex Interface PWB (Figure 1).

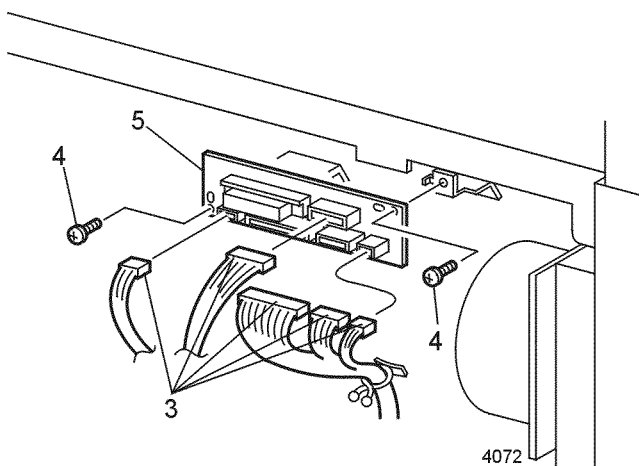


Figure 1 Duplex Interface PWB

Replacement

1. Reinstall the components in the reverse order.

REP 8.4 Main Fan

Parts List on PL 9.1

Removal

CAUTION

These components are susceptible to electrostatic discharge. Observe all ESD procedures to avoid damage.

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Lower Rear Cover (REP 1.7).
2. Remove the Rear Cover (REP 1.9).
3. Remove the OCT if installed (REP 10.1).
4. Remove the Left Side Cover (REP 1.1).
5. Open the Top Cover and remove the Print Cartridge. Cover the cartridge to protect it from light.
6. Remove the Top Cover Assembly (REP 1.3).
7. Remove the screw that secures the left edge of the HVPS Cover (Figure 1).
8. Disconnect P/J165 from the LVPS PWB (Figure 1).
9. Remove the three screws that secure the Fan Guard to the printer (Figure 1).
10. Remove Fan Harness from all clamps.
11. Remove the screw that secures the Main Fan to the printer (Figure 1). Remove the fan.

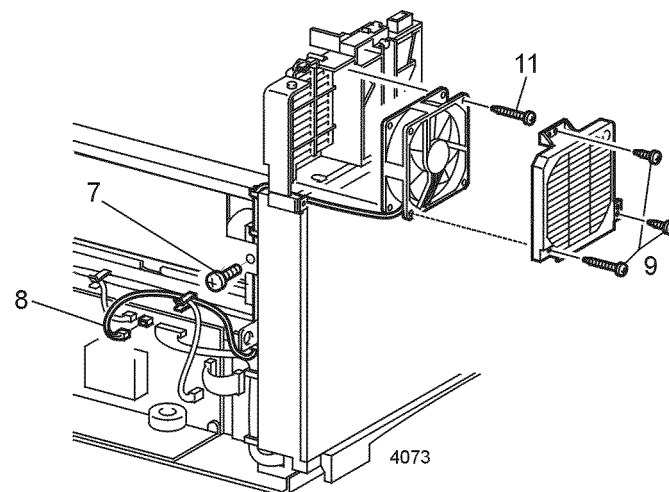


Figure 1 Main Fan

Replacement

1. Reinstall the components in the reverse order.

REP 8.5 Print Engine Controller PWB

Parts List on PL 9.1

Removal

CAUTION

These components are susceptible to electrostatic discharge. Observe all ESD procedures to avoid damage.

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Left Side Cover (REP 1.1)
2. Loosen the two thumb screws that secure the System Controller PWB Shield Cover and remove the cover (Figure 1).
3. Remove the four screws that secure the Print Engine Controller PWB Cover. Remove the cover (Figure 2).
4. Disconnect P/J11, P/J12, P/J13, P/J14, P/J16, P/J17, P/J18, P/J19, P/J20, P/J21, and P/J22 from the Print Engine Controller PWB (Figure 3).
5. Remove the four screws that secure the Print Engine Controller PWB to the printer. Slide the Print Engine Controller PWB to the right and remove (Figure 3).

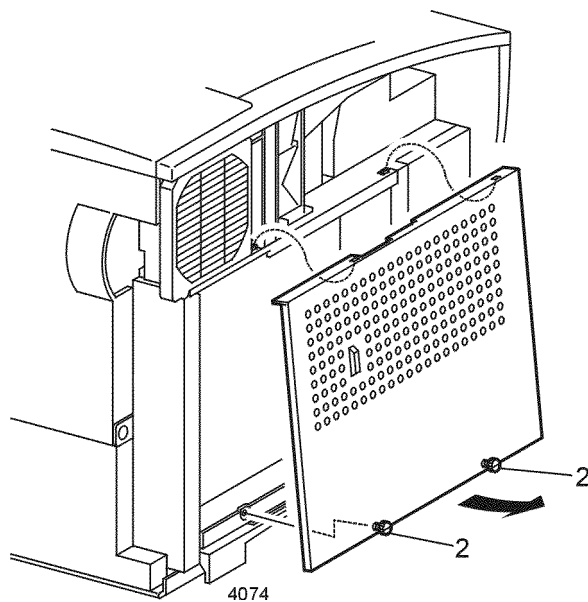


Figure 1 Shield Cover

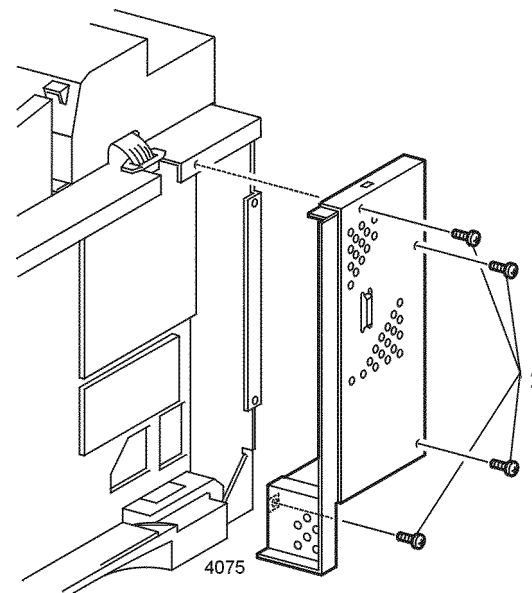


Figure 2 Print Engine Controller PWB Cover

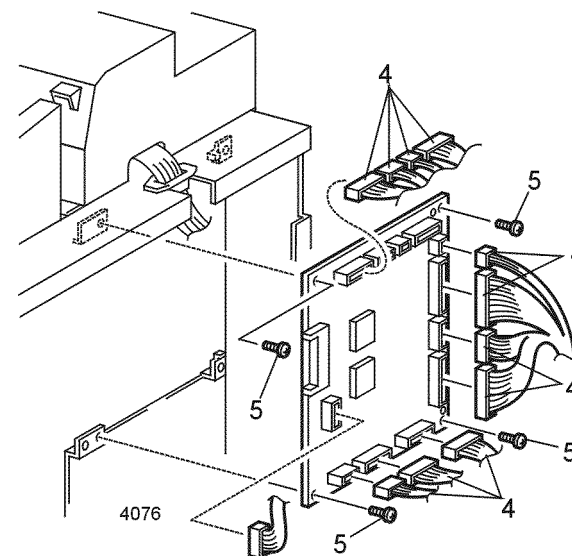


Figure 3 Print Engine Controller PWB

Replacement

1. Reinstall the components in the reverse order.

REP 8.6 LVPS Assembly

Parts List on PL 9.2

Removal

CAUTION

These components are susceptible to electrostatic discharge. Observe all ESD procedures to avoid damage.

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Lower Rear Cover (REP 1.7).
2. Disconnect P/J168, P/J167, P/J166, P/J165, P/J164, P/J163, P/J162, and P/J161 from the LVPS Assembly (Figure 1).
3. Remove the four screws that secure the LVPS Assembly to the printer (Figure 1).
4. Remove the LVPS Assembly.

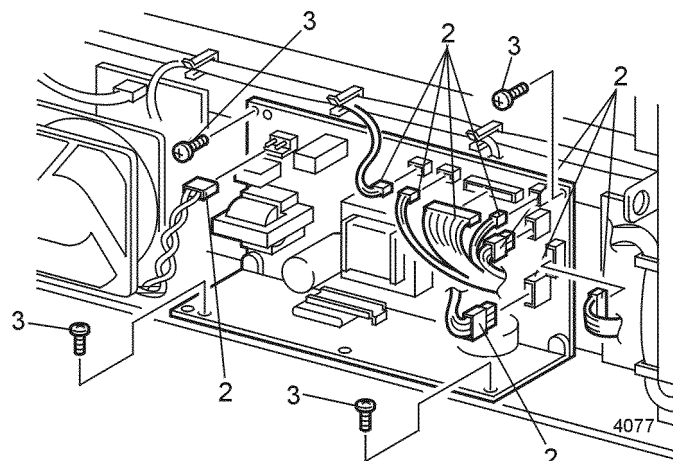


Figure 1 Low Voltage Power Supply (LVPS)

Replacement

1. Reinstall the components in the reverse order.

REP 8.7 LVPS FAN

Parts List on PL 9.2

Removal

CAUTION

These components are susceptible to electrostatic discharge. Observe all ESD procedures to avoid damage.

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Lower Rear Cover (REP 1.7).
2. Disconnect P/J166 from the LVPS Assembly (Figure 1).
3. Remove the Fan Harness from all clamps.
4. Remove the two screws that secure the LVPS Fan to the LVPS Assembly (Figure 1).
5. Remove the LVPS Fan.

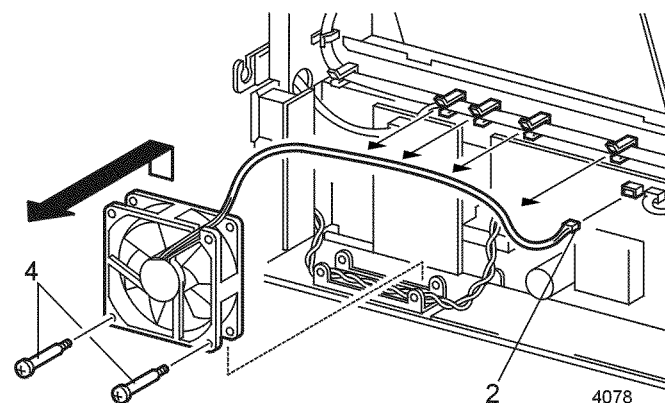


Figure 1 LVPS Fan

Replacement

1. Reinstall the components in the reverse order.

REP 8.8 AC Input Assembly

Parts List on PL 9.2

Removal

CAUTION

These components are susceptible to electrostatic discharge. Observe all ESD procedures to avoid damage.

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Lower Rear Cover (REP 1.7).
2. Remove the LVPS Fan (REP 8.7).
3. Remove the screw that secures the grounding wire to the printer (Figure 1).
4. Disconnect P/J167 from the LVPS Assembly (Figure 1).
5. Remove the two screws that secure the AC Input Connector to the printer (Figure 1).
6. Disconnect P/J171 and P/J172 from the AC Input PWB (Figure 1).
7. Remove the two screws that secure the AC Input PWB to the LVPS Assembly (Figure 1).
8. Flex the Right Cover out as you remove the AC Input Assembly.

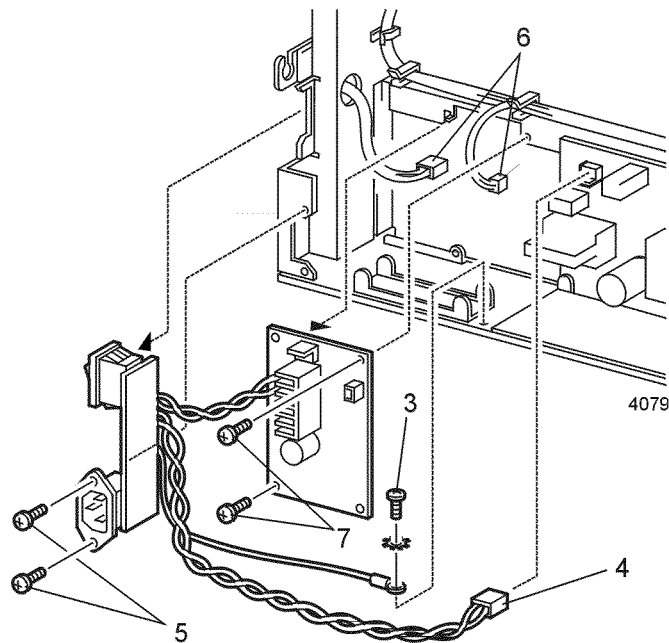


Figure 1 AC Input Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 8.9 Control Panel +5 VDC Power Supply

Parts List on PL 9.2

Removal

CAUTION

These components are susceptible to electrostatic discharge. Observe all ESD procedures to avoid damage.

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Left Cover (REP 1.1).
2. Loosen the two thumb nuts and remove the System Controller PWB Shield Cover (Figure 1).
3. Remove the four screws that secure the MCU Cover (Figure 2). Remove the cover.
4. Disconnect P/J169 from the +5 VDC power Supply (Figure 3).
5. Remove the two screws that secure the +5 VDC Power Supply (Figure 3). Remove the Power Supply.

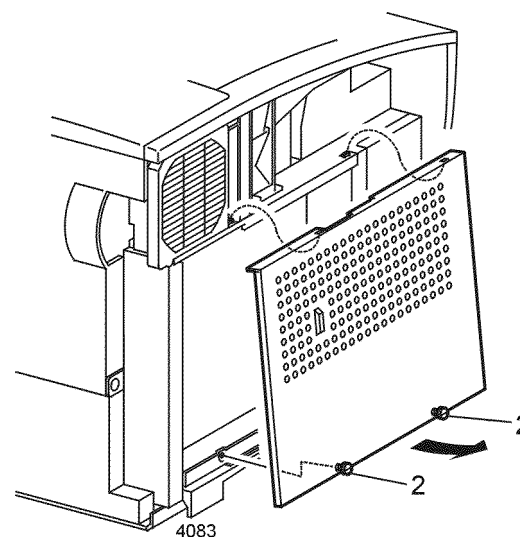


Figure 1 Shield Cover

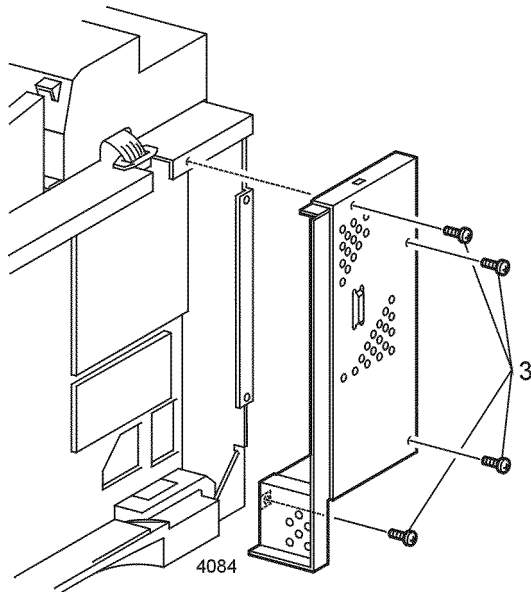


Figure 2 Print Engine Controller PWB Cover

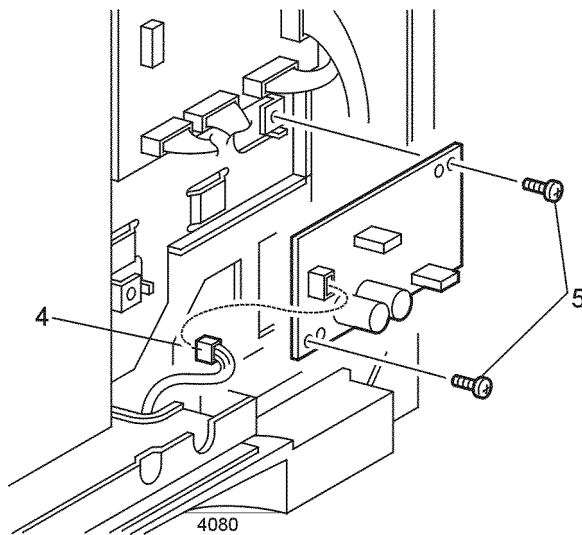


Figure 3 +5 VDC Power Supply

Replacement

1. Reinstall the components in the reverse order.

REP 9.1 Duplex Assembly

Parts List on PL 13.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Rear Cover.
2. Remove Left Cover (REP 1.1).
3. Pull the top of the Duplex Assembly away from the printer to disengage the two hooks securing the unit (Figure 1).
4. Pull the Duplex Assembly out and up to remove (Figure 1).

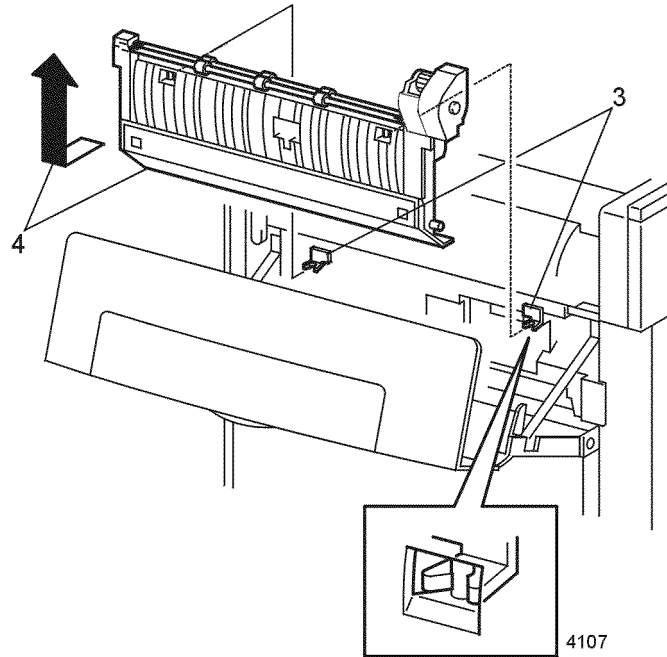


Figure 1 Duplex Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 9.2 Exit Motor Assembly

Parts List on PL 13.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Duplex Assembly (REP 9.1).
2. Remove the two screws that secure the Motor Assembly to the Duplex Assembly (Figure 1).

NOTE: There are different type and lengths of screws removed in Step 3.

3. Remove the harness from the cable clamp (Figure 1).
4. Disconnect P/J510 from the Duplex Assembly PWB (Figure 1).
5. Rotate the connector sideways and push the connector through the hole in the Duplex frame (Figure 1).
6. Remove the motor cover (Figure 1).
7. Remove the two screws that secure the Exit Motor to the holder assembly (Figure 1).

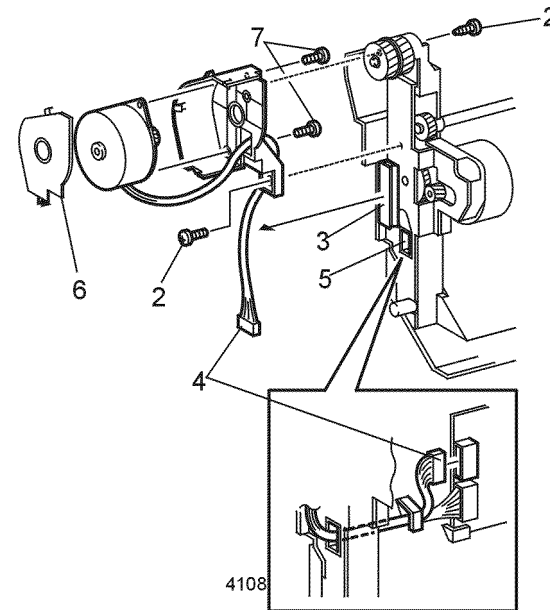


Figure 1 Exit Motor Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 9.3 Drive Belt

Parts List on PL 13.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Duplex Assembly (REP 9.1).
2. Remove the E-ring and collar from the right end of the Upper Roll Assembly (Figure 1).
3. Remove the Belt (Figure 1).

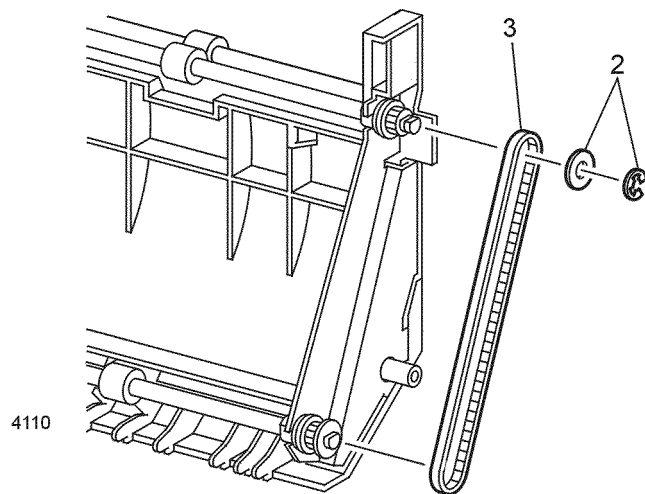


Figure 1 Duplex Drive Belt

Replacement

1. Reinstall the components in the reverse order.

REP 9.4 Upper Roll Assembly

Parts List on PL 13.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Duplex Assembly (REP 9.1).
2. Remove the Exit Motor Assembly (REP 9.2).

NOTE: The type and size of screws as you remove them in step three.

3. Remove the six screws that secure the Left Bracket Assembly (Figure 1). Remove the bracket.
4. Remove the E-ring, Z15 gear, and bearing from the left end of the Upper Roll Assembly (Figure 1).
5. Remove the E-ring, collar, pulley, and bearing from the right end of the Upper Roll Assembly (Figure 1).
6. Remove the Upper Roll Assembly (Figure 1).

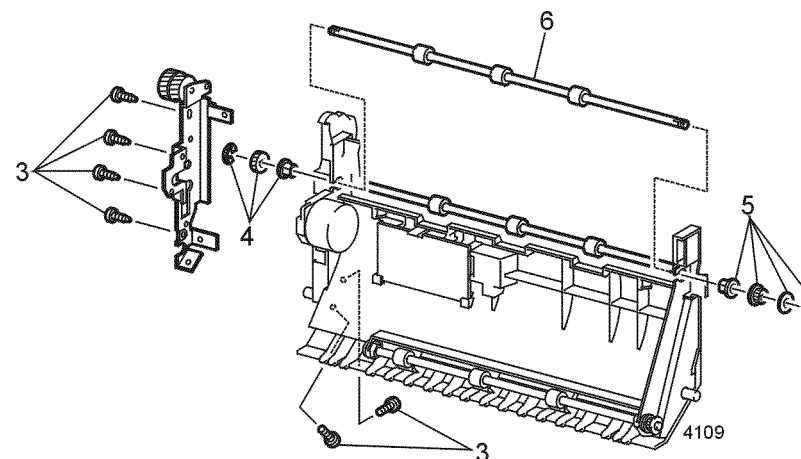


Figure 1 Upper Roll Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 9.5 Lower Roll Assembly

Parts List on PL 13.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Duplex Assembly (REP 9.1).
2. Remove the E-ring and bearing from the left end of the Roll Assembly (Figure 1).
3. Remove the E-ring and collar from the right end of the Roll Assembly (Figure 1).
4. Remove the Belt, pulley, and bearing from the right end of the Roll Assembly (Figure 1).
5. Remove the Lower Roll Assembly (Figure 1).

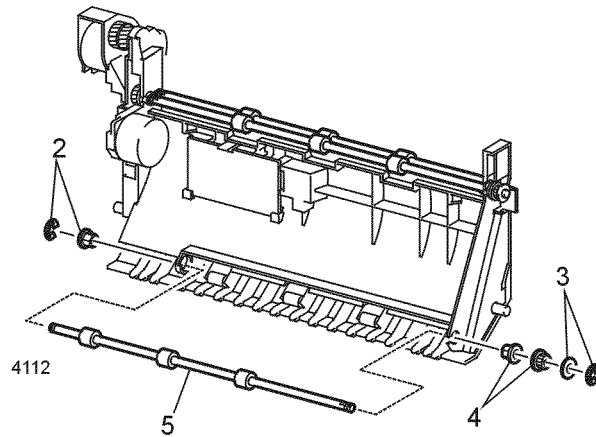


Figure 1 Lower Roll Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 9.6 Sensor Assembly

Parts List on PL 13.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Duplex Assembly (REP 9.1).
2. Disconnect P/J512 from the Duplex PWB (Figure 1).
3. Release the four locking tabs and remove the sensor (Figure 1).

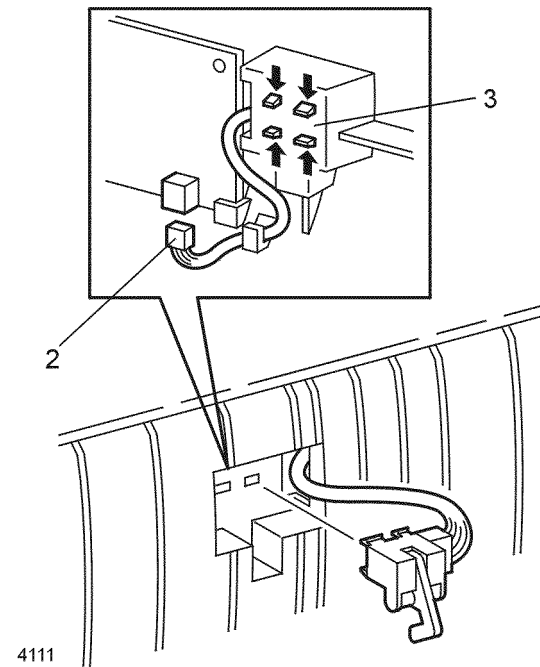


Figure 1 Sensor Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 9.7 Duplex PWB

Parts List on PL 13.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Duplex Assembly (REP 9.1).
2. Disconnect P/J508, P/J510, and P/J512 from the Duplex PWB (Figure 1).
3. Push up on the locking tab and lift the Duplex PWB (Figure 1).
4. Remove the PWB (Figure 1).

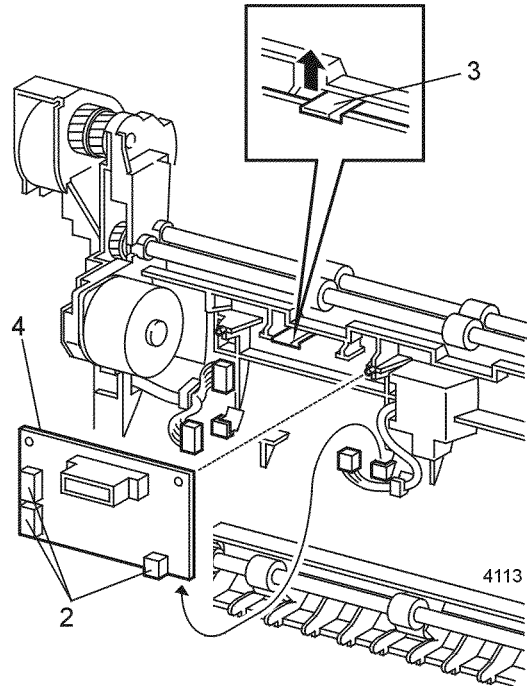


Figure 1 Duplex PWB

Replacement

1. Reinstall the components in the reverse order.

REP 9.8 Drive Motor Assembly

Parts List on PL 13.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Duplex Assembly (REP 9.1).
2. Disconnect P/J508 from the Duplex PWB (Figure 1).
3. Remove the two screws that secure the Motor Assembly to the Duplex Assembly (Figure 1).

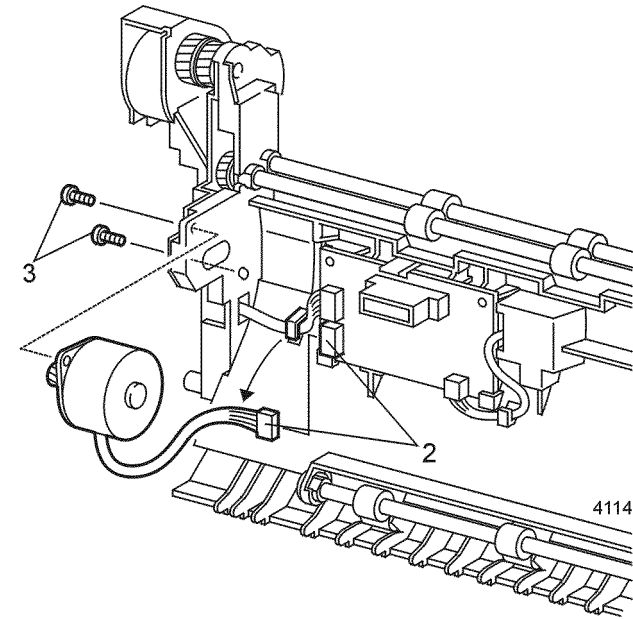


Figure 1 Motor Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 10.1 Offset Catch Tray (OCT)

Parts List on PL 10.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the printer Rear Cover.
2. Loosen the thumb screw located on the inside of the right frame (Figure 1).
3. Lift the Offset Catch Tray (OCT) straight up and remove (Figure 1).
4. Remove OCT Solenoid Assembly (REP 10.5) if removal is permanent.

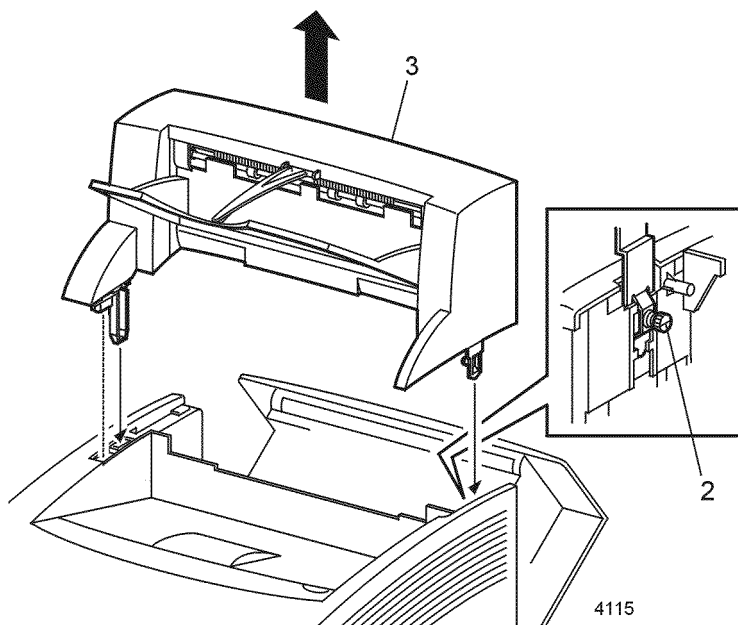


Figure 1 Offset Catch Tray

Replacement

1. Reinstall the components in the reverse order.

REP 10.2 Top Cover

Parts List on PL 10.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the OCT Rear Cover.
2. Remove the OCT Output Catch Tray.
3. Remove the four screws that secure the Top Cover (Figure 1).
4. Lift the cover up to remove (Figure 1).

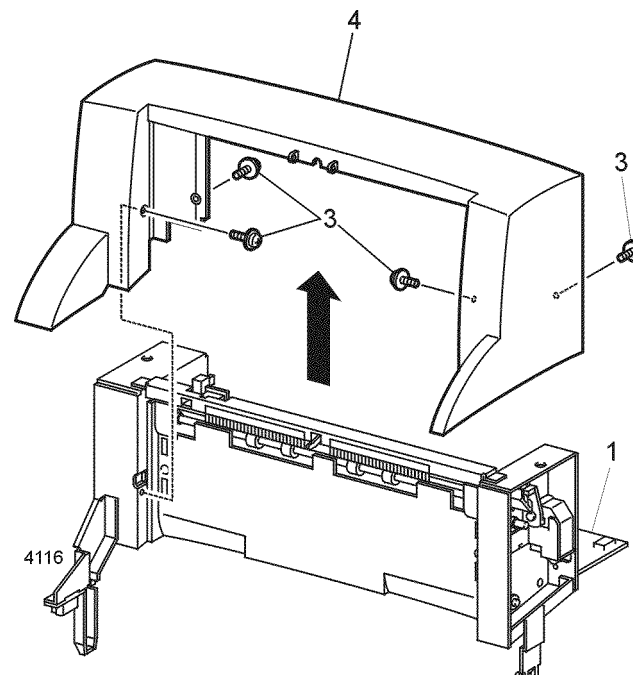


Figure 1 OCT Top Cover

Replacement

1. Reinstall the components in the reverse order.

REP 10.3 Rear Cover Assembly

Parts List on PL 10.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the OCT Rear Cover.
2. Rotate the cover strap 90° and remove (Figure 1).
3. Carefully press in on the right bracket to disengage the cover from the frame (Figure 1).
4. Remove the cover (Figure 1).

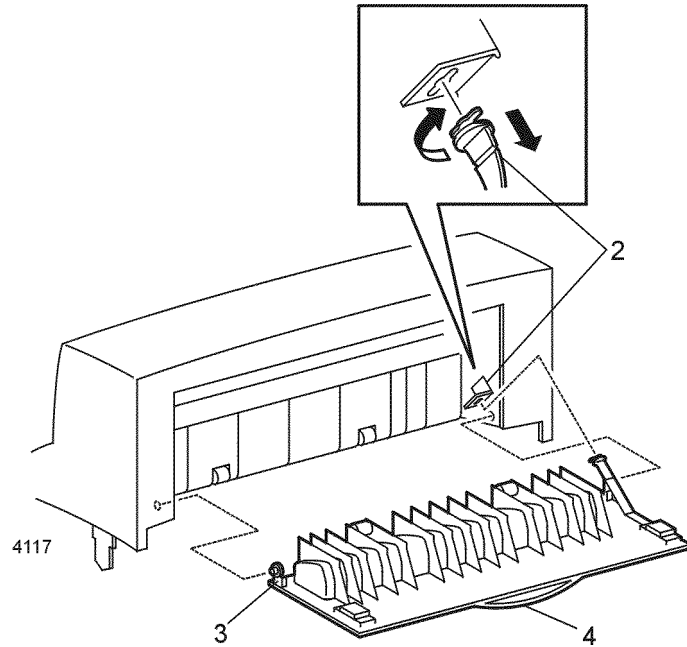


Figure 1 OCT Rear Cover

Replacement

1. Reinstall the components in the reverse order.

REP 10.4 Front Cover

Parts List on PL 10.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the OCT Rear Cover.
2. Remove the OCT Top Cover (REP 10.2).
3. Remove the two screws that secure the Front Cover (Figure 1). Remove the cover.

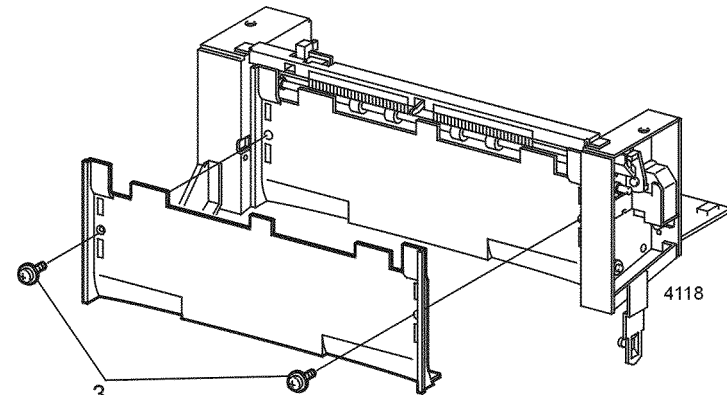


Figure 1 OCT Front Cover

Replacement

1. Reinstall the components in the reverse order.

REP 10.5 Exit Gate Solenoid

Parts List on PL 10.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the printer Rear Cover.
2. Press the locking tab and disconnect P/J519 from the Rear Cover (Figure 1).
3. Press the locking tab on the Solenoid Assembly and remove (Figure 1).

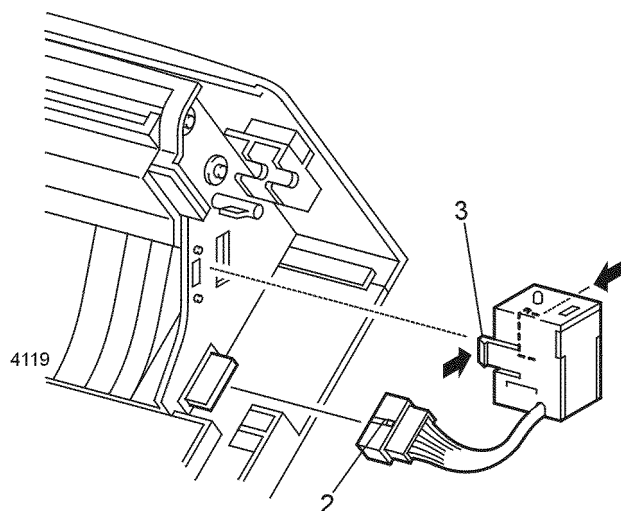


Figure 1 Exit Gate Solenoid

Replacement

1. Reinstall the components in the reverse order.

REP 10.6 Eliminator Assembly

Parts List on PL 10.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the OCT Rear Cover.
2. Remove the OCT Top Cover (REP 10.2).
3. Remove the Stack Full Sensor (REP 10.7).
4. Remove the two screws that secure the Eliminator Assembly to the OCT (Figure 1).
5. Remove the Eliminator Assembly (Figure 1).

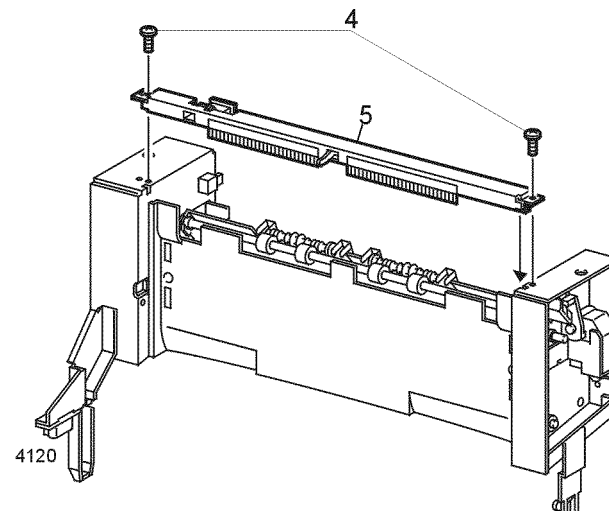


Figure 1 Eliminator Assembly

Replacement

1. If replacing the Eliminator Assembly, remove the Stack Full Sensor Actuator (REP 10.8) and place on the new assembly.
2. Reinstall the components in the reverse order.

REP 10.7 Stack Full Sensor

Parts List on PL 10.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the OCT Rear Cover.
2. Remove the OCT Top Cover (REP 10.2).
3. Disconnect P/J521 from the Stack Full Sensor (Figure 1).
4. Release the three locking tabs and remove the sensor (Figure 1).

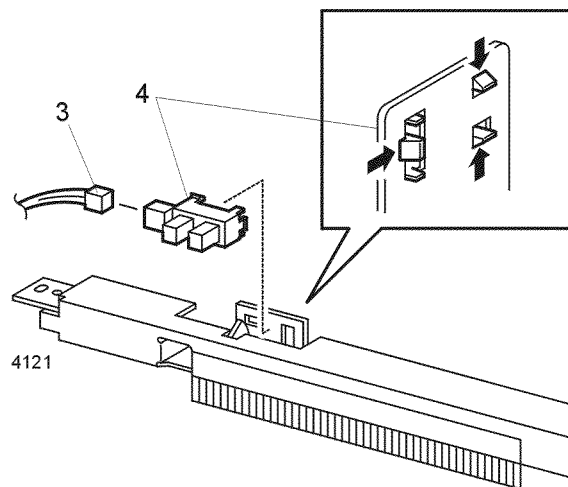


Figure 1 Stack Full Sensor

Replacement

1. Reinstall the components in the reverse order.

REP 10.8 Stack Full Sensor Actuator

Parts List on PL 10.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the OCT Rear Cover.
2. Remove the OCT Top Cover (REP 10.2).
3. Remove the Stack Full Sensor (REP 10.7).
4. Move the actuator to the left. Carefully flex the center of the actuator until the right end is free of the assembly (Figure 1).
5. Remove the actuator.

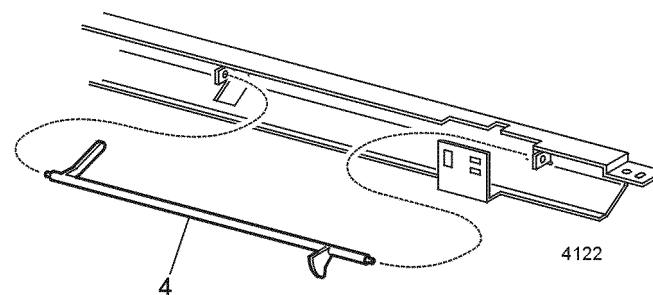


Figure 1 Stack Full Sensor Actuator

Replacement

1. Reinstall the components in the reverse order.

REP 10.9 Offset Motor Assembly

Parts List on PL 10.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the OCT Rear Cover.
2. Remove the OCT Top Cover (REP 10.2).
3. Remove the two screws that secure the Offset Motor Assembly to the OCT (Figure 1).
4. Disconnect P/J516 from the Offset Motor Assembly (Figure 1).

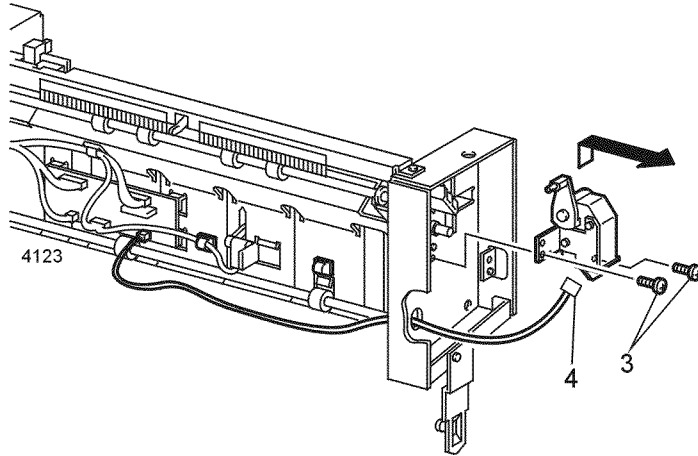


Figure 1 Offset Motor Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 10.10 Drive Motor Assembly

Parts List on PL 10.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the OCT Rear Cover.
2. Remove the OCT Top Cover (REP 10.2).
3. Disconnect P/J518 from the Drive Motor (Figure 1).
4. Remove the two screws that secure the Motor Bracket to the OCT (Figure 1).
5. Remove the Drive Motor and bracket (Figure 1).

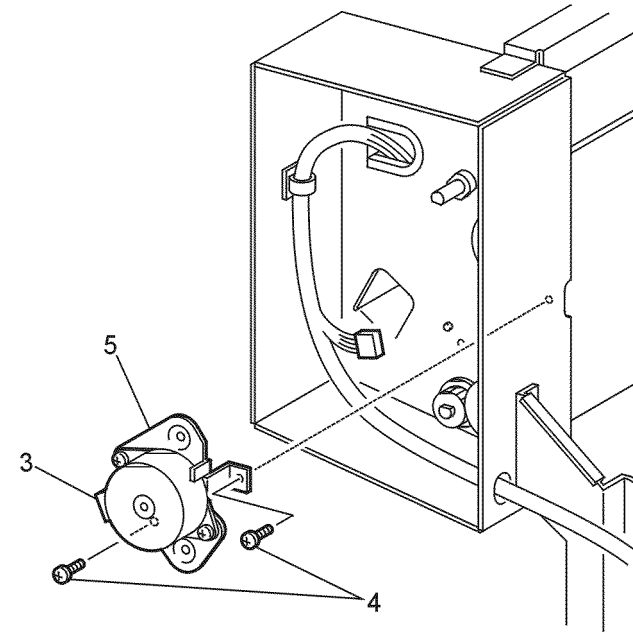


Figure 1 Drive Motor Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 10.11 Offset Assembly

Parts List on PL 10.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the OCT Rear Cover (REP 10.3).
2. Remove the OCT Top Cover (REP 10.2).
3. Remove the OCT Front Cover (REP 10.4).
4. Remove the Eliminator Assembly (REP 10.6).
5. Remove the Offset Motor Assembly (REP 10.9).
6. Remove the Drive Motor Assembly (REP 10.10).
7. Remove the E-ring that secures the Upper Gear 29 (Figure 1). Remove the three upper gears.
8. Remove the E-ring that secures the Lower Gear 29 (Figure 1). Remove the three lower gears.
9. Remove the OCT from the printer (REP 10.1).
10. Remove the E-rings and bearings from both ends of the lower roller (Figure 1). Remove the roller.
11. Remove the two screws that secure the Right Frame Assembly (Figure 1). Remove the Right Frame (Figure 1).

NOTE: Use care not to damage the harnesses when removing the Left Frame Assembly.

12. Remove the two screws that secure the Left Frame Assembly (Figure 1). Remove the Left frame.
13. Remove the Offset Assembly (Figure 1).

Replacement

1. Reinstall the components in the reverse order.
2. Ensure that all harnesses are properly routed.

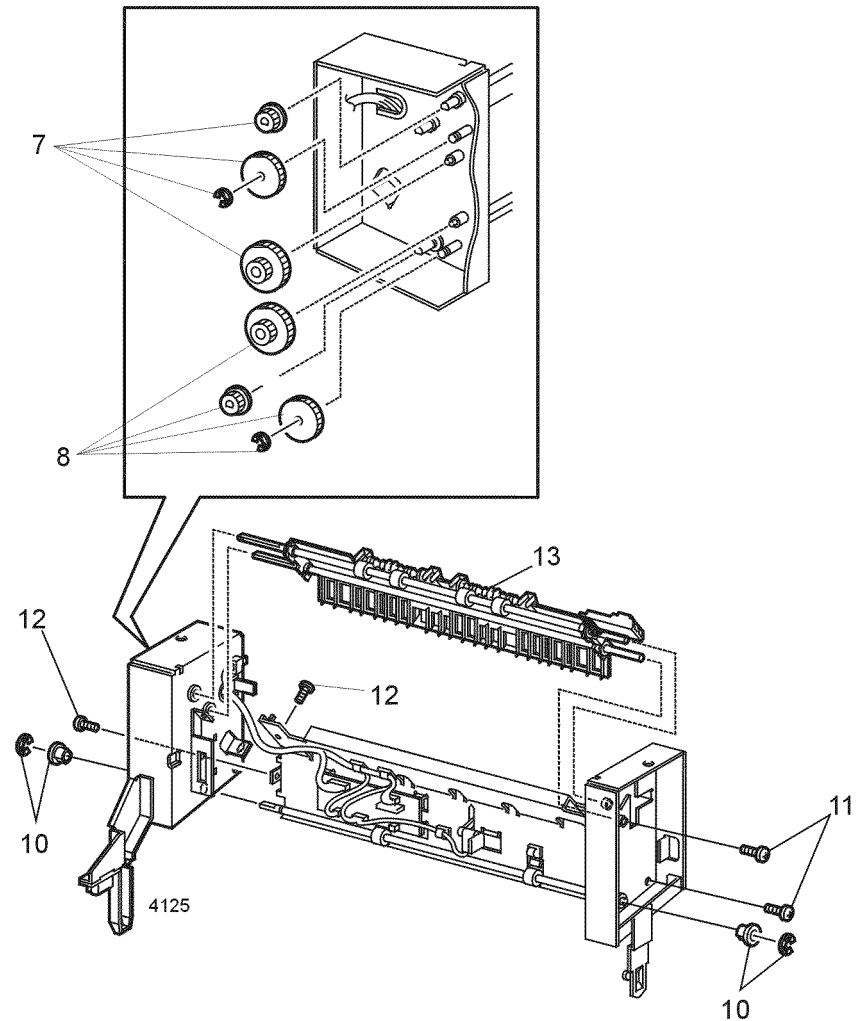


Figure 1 Offset Assembly

REP 10.12 Offset Roller

Parts List on PL 10.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the OCT Rear Cover (REP 10.3).
2. Remove the OCT Top Cover (REP 10.2).
3. Remove the Eliminator Assembly (REP 10.6).
4. Remove the Offset Motor Assembly (REP 10.9).
5. Remove the Drive Motor Assembly (REP 10.10).
6. Remove the Offset Assembly (REP 10.11).
7. Remove the E-rings and bearings from both ends of the Offset Roller (Figure 1).
8. Remove the roller (Figure 1).

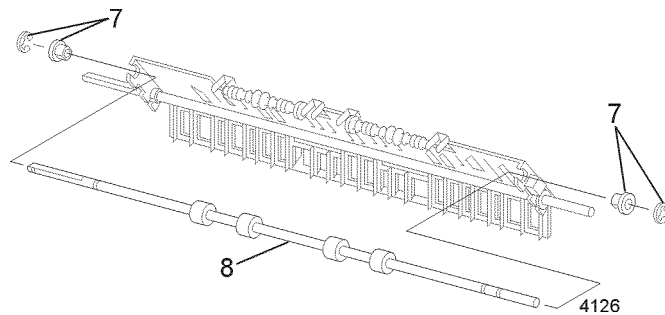


Figure 1 Offset Roller

Replacement

1. Reinstall the components in the reverse order.

REP 10.13 Rear Cover Interlock Switch

Parts List on PL 10.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the OCT Rear Cover.
2. Remove the OCT Top Cover (REP 10.2).
3. Disconnect P/J525 from the interlock switch (Figure 1).
4. Release the two locking tabs (Figure 1) and remove the switch.

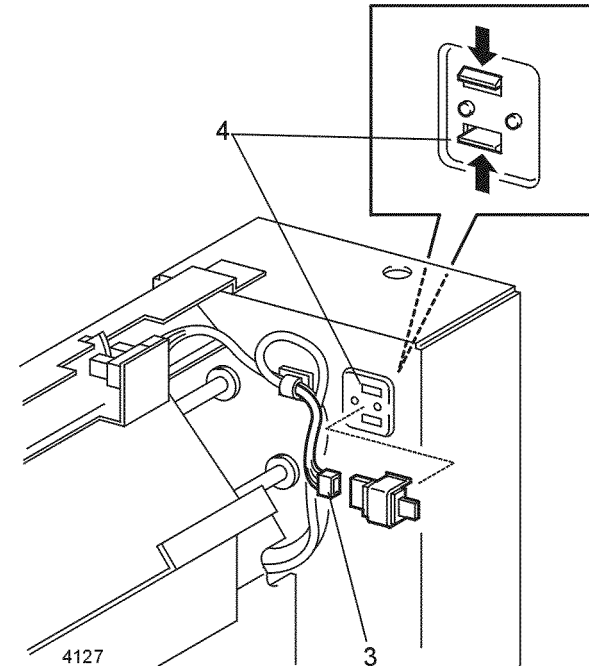


Figure 1 Interlock Switch

Replacement

1. Reinstall the components in the reverse order.

REP 10.14 OCT PWB

Parts List on PL 10.2

Removal

CAUTION

These components are susceptible to electrostatic discharge. Observe all ESD procedures to avoid damage.

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the OCT Rear Cover.
2. Remove the OCT Top Cover (REP 10.2).
3. Remove the OCT Front Cover (REP 10.4).
4. Disconnect P/J514, P/J515, P/J517, P/J520, and P/J524 from the OCT PWB (Figure 1).
5. Remove the two screws that secure the OCT PWB (Figure 1). Remove the PWB.

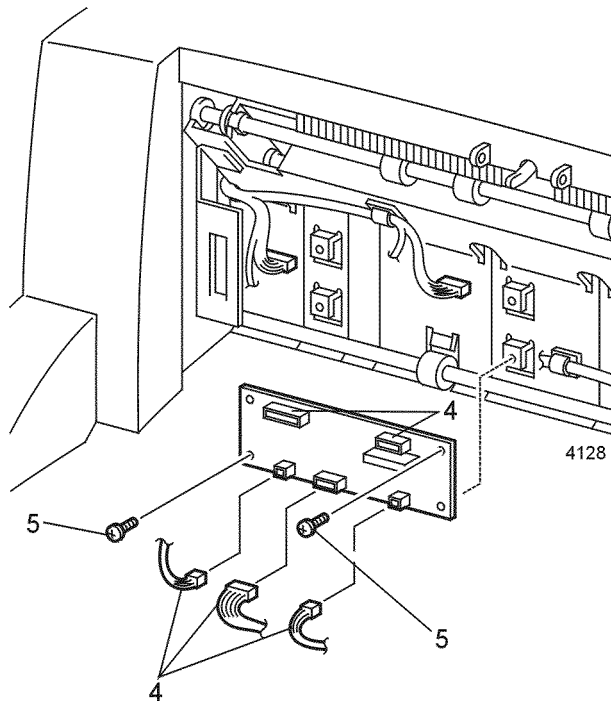


Figure 1 OCT PWB

Replacement

1. Reinstall the components in the reverse order.

REP 10.15 Paper Sensor

Parts List on PL 10.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the OCT Rear Cover.
2. Remove the OCT Top Cover (REP 10.2).
3. Remove the OCT Front Cover (REP 10.4).
4. Disconnect P/J523 from the Paper Sensor (Figure 1).
5. Release the two locking tabs that secure the sensor (Figure 1). Remove the sensor.

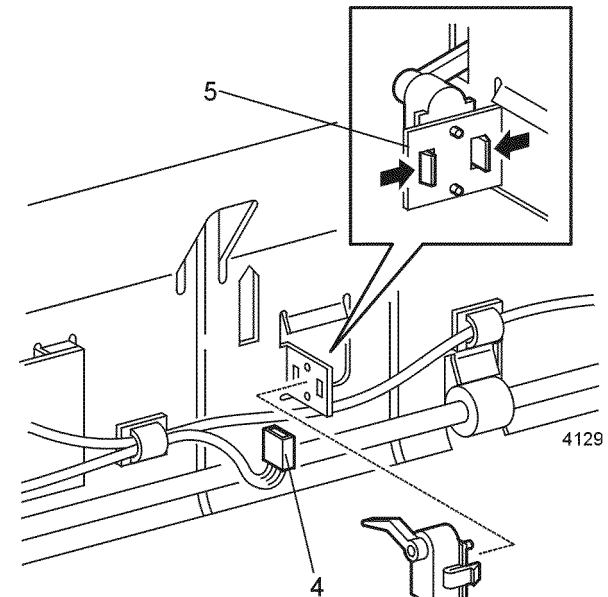


Figure 1 Paper Sensor

Replacement

1. Reinstall the components in the reverse order.

REP 11.1 Printer Removal

Parts List on PL 11.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the OCT, if installed (REP 10.1).
2. Remove Tray 1 from the printer.
3. Remove the two screws that secure the printer to the Optional Paper Feeder. Remove the printer (Figure 1).

NOTE: For safety reasons, have someone assist you in removing the printer and setting it in a safe place.

4. Remove the printer.

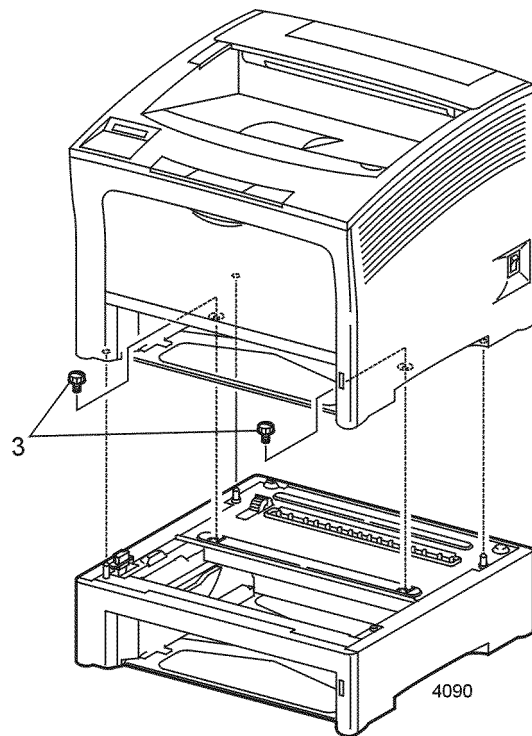


Figure 1 Printer Removal

Replacement

1. Reinstall the components in the reverse order.

REP 11.2 Front Cover

Parts List on PL 11.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the paper tray from the feeder.
2. Loosen the two screws that secure the front cover (Figure 1).
3. Pull out on the top of the Front Cover and lift slightly to remove the cover (Figure 1).

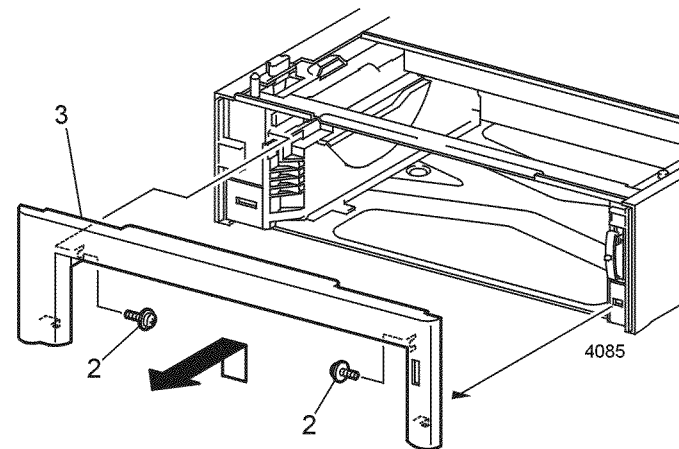


Figure 1 Front Cover

Replacement

1. Reinstall the components in the reverse order.

REP 11.3 Left Cover

Parts List on PL 11.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the paper tray from the feeder.
2. Remove the Front Cover (REP 11.2).
3. Remove the five screws that secure the Left Cover (Figure 1). Remove the cover.

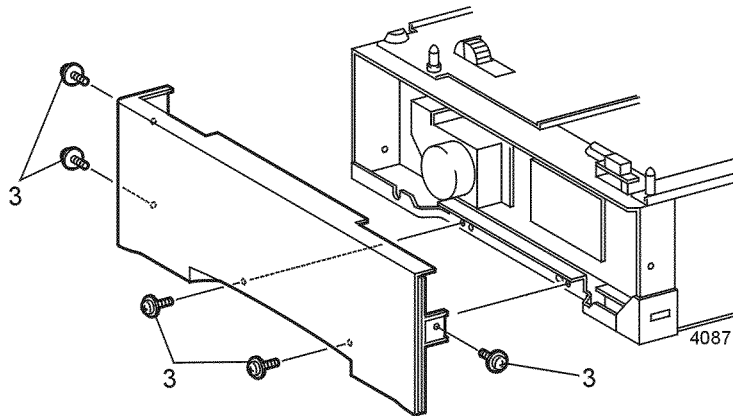


Figure 1 Left Cover

Replacement

1. Reinstall the components in the reverse order.

REP 11.4 Right Cover

Parts List on PL 11.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the paper tray from the feeder.
2. Remove the Front Cover (REP 11.2).
3. Remove the five screws that secure the Right Cover (Figure 1). Remove the cover.

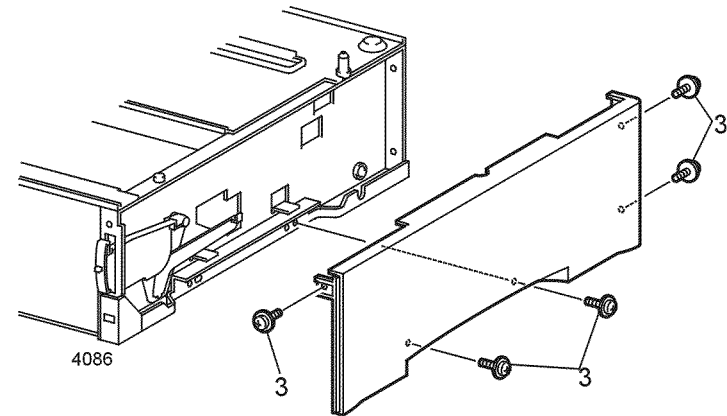


Figure 1 Right Cover

Replacement

1. Reinstall the components in the reverse order.

REP 11.5 Rear Cover

Parts List on PL 11.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Rear Cover.
2. Carefully pry the left hinge pin (as viewed from the rear of the feeder) out of the printer frame (Figure 1).
3. Pull the right end of the cover out and up (Figure 1). Remove the cover.

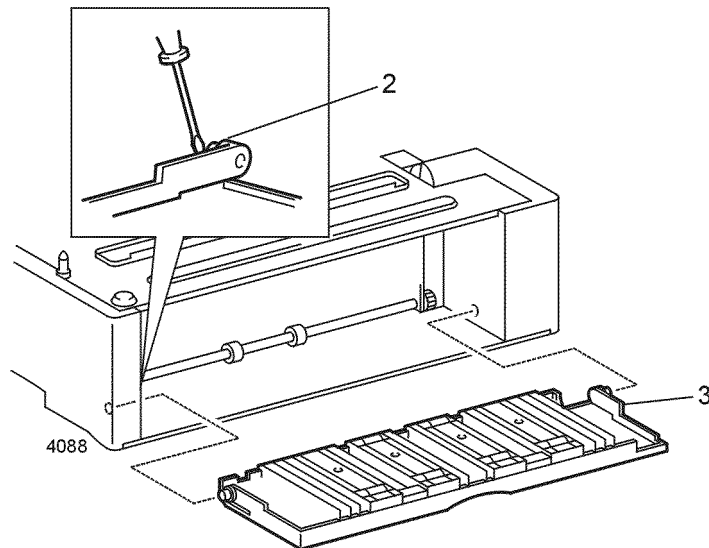


Figure 1 Rear Cover

Replacement

1. Reinstall the components in the reverse order.

REP 11.6 Drive Assembly

Parts List on PL 11.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the paper tray from the feeder.
2. Remove the Front Cover (REP 11.2).
3. Remove the Left Cover (REP 11.3)
4. Disconnect P/J13B from the Feeder PWB (Figure 1).
5. Remove the four screws that secure the Drive Assembly to the printer frame (Figure 1). Remove the Drive Assembly.

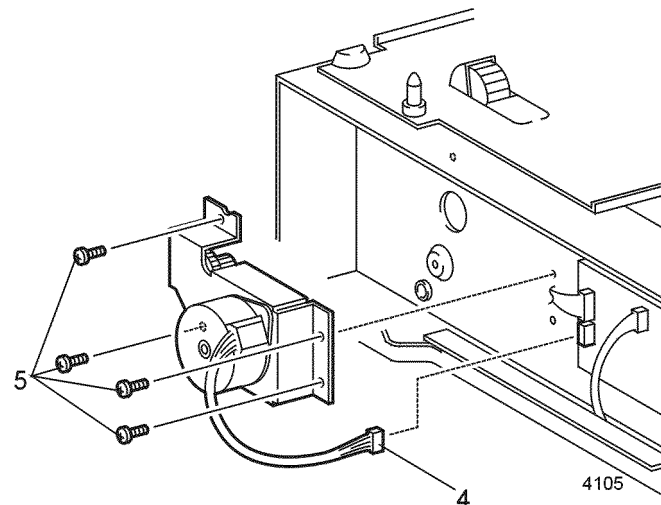


Figure 1 Feeder Drive Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 11.7 Drive Motor

Parts List on PL 11.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the paper tray from the feeder.
2. Remove the Front Cover (REP 11.2).
3. Remove the Left Cover (REP 11.3)
4. Remove the Drive Assembly (REP 11.6).
5. Remove the two screws that secure the Drive Motor to the Drive Assembly (Figure 1). Remove the motor.

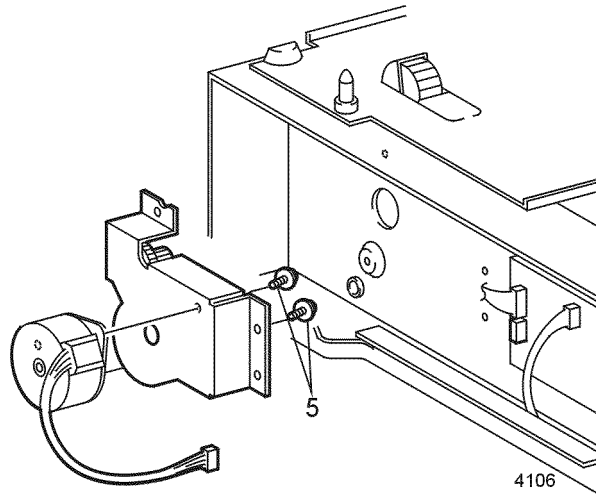


Figure 1 Feeder Drive Motor

Replacement

1. Reinstall the components in the reverse order.

REP 11.8 Feeder PWB

Parts List on PL 11.2

Removal

CAUTION

These components are susceptible to electrostatic discharge. Observe all ESD procedures to avoid damage.

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the paper tray from the feeder.
2. Remove the Front Cover (REP 11.2).
3. Remove the Left Cover (REP 11.3)
4. Disconnect P/J13B, P/J133, P/J138, P/J132, and P/J136 from the Feeder PWB (Figure 1).
5. Remove the two screws that secure the PWB to the printer frame (Figure 1). Remove the PWB.

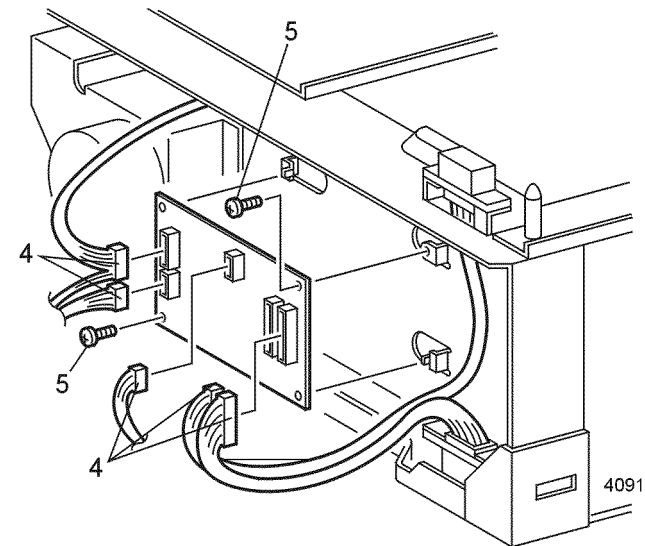


Figure 1 Feeder PWB

Replacement

1. Reinstall the components in the reverse order.

REP 11.9 Feed Head Assembly

Parts List on PL 11.3

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the printer from the 500 Sheet Paper Feeder (REP 11.1).
2. Remove the paper tray from the feeder.
3. Remove the Front Cover (REP 11.2).
4. Remove the Left Cover (REP 11.3)
5. Disconnect P/J13A, P/J13P, and P/J135 from the Feed Head Assembly (Figure 1).
6. Remove the screw that secures the Feed Head to the feeder frame (Figure 1).
7. Push the right locking pin down and slide the right end of the Feed Head forward (Figure 1).
8. Push the left locking pin down and slide the left end of the Feed Head forward (Figure 1).
9. Slide the Feed Head forward and remove (Figure 1).

Replacement

1. Reinstall the components in the reverse order.

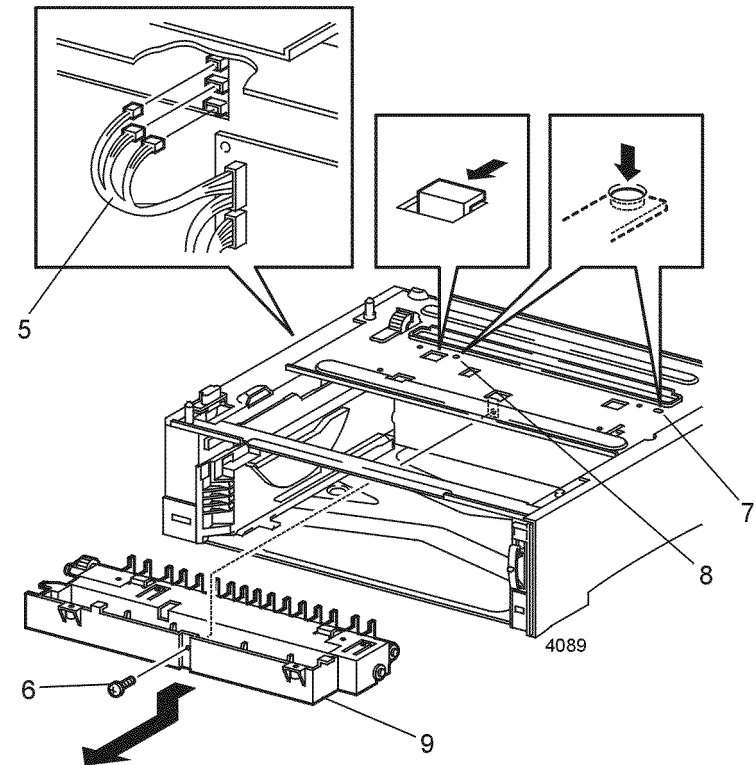


Figure 1 Feed Head Assembly

REP 11.10 Feed Rolls

Parts List on PL 11.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the printer from the 500 Sheet Feeder (REP 11.1).
2. Remove the paper tray from the feeder.
3. Remove the Front Cover (REP 11.2).
4. Remove the Left Cover (REP 11.3).
5. Remove the 500 Sheet Feed Head Assembly (REP 11.9).
6. Release the Feed Solenoid.
7. Rotate the Feed Rolls up.
8. Press the left locking tab and slide the roll core to the left (Figure 1).
9. Slide the roll core to the left (Figure 1).
10. Slide the feed roll to the left and remove (Figure 1).
11. If replacing the envelope feed rolls, rotate the feed roll shaft to access the locking tabs, press the locking tabs and remove the rolls (Figure 1).

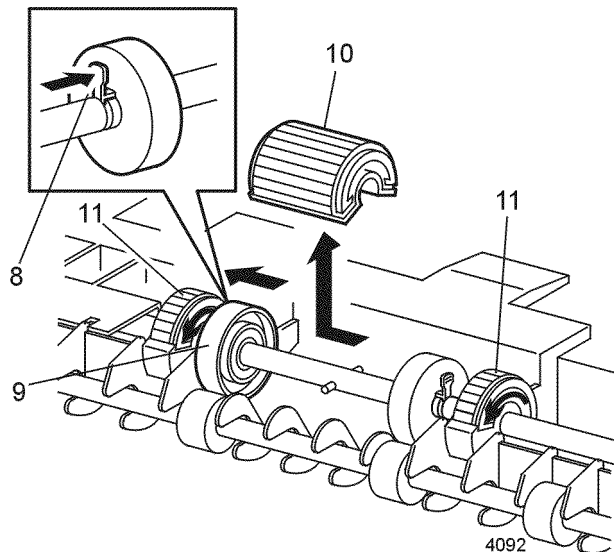


Figure 1 Feed Rolls

Replacement

1. Reinstall the components in the reverse order.

NOTE: Note the arrows on the side of the envelope feed rolls. The arrows indicate the direction of rotation.

REP 11.11 Feed Solenoid

Parts List on PL 11.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the printer from the 500 Sheet Feeder (REP 11.1).
2. Remove the paper tray from the feeder.
3. Remove the Front Cover (REP 11.2).
4. Remove the Left Cover (REP 11.3).
5. Remove the 500 Sheet Feed Head Assembly (REP 11.9).
6. Disconnect P/J135 (Figure 1).
7. Remove the screw that secures the feed solenoid (Figure 1). Remove the solenoid.

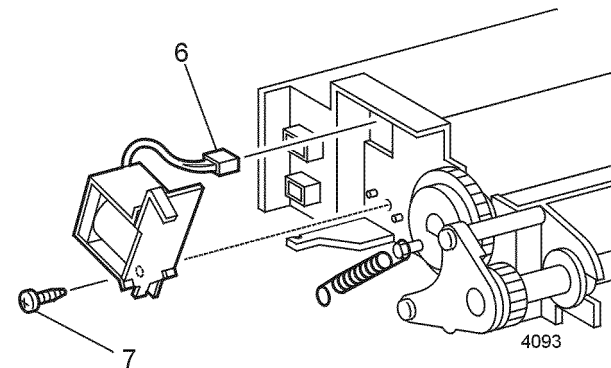


Figure 1 Feed Solenoid

Replacement

1. Reinstall the components in the reverse order.

REP 11.12 Turn Roll Assembly

Parts List on PL 11.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the printer from the 500 Sheet Feeder (REP 11.1).
2. Remove the paper tray from the feeder.
3. Remove the Front Cover (REP 11.2).
4. Remove the Left Cover (REP 11.3).
5. Remove the 500 Sheet Feed Head Assembly (REP 11.9).
6. Remove the two screws that secure the Gear Cover (Figure 1). Remove the gear cover.
7. Release the locking tab and remove the turn gear (Figure 1).
8. Remove the E-rings and bearings from the left end of the turn shaft (Figure 1).
9. Remove the Turn Roll Assembly (Figure 1).

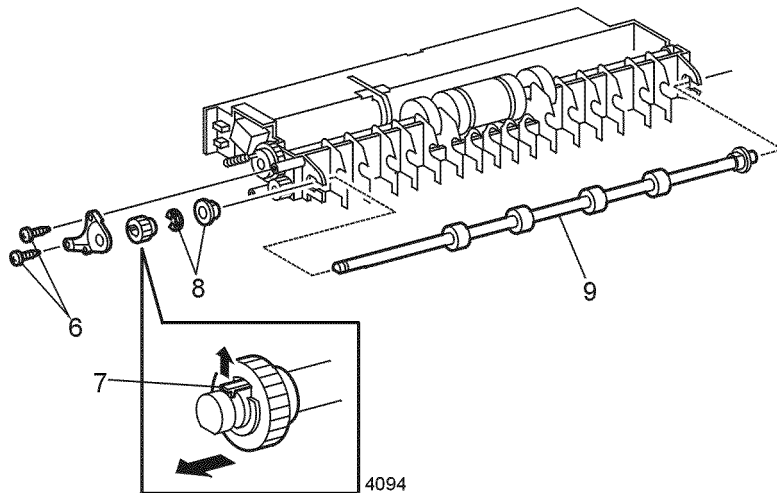


Figure 1 Turn Roll Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 11.13 Retard Chute Assembly

Parts List on PL 11.3

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the printer from the 500 Sheet Feeder (REP 11.1).
2. Remove the paper tray from the feeder.
3. Remove the Front Cover (REP 11.2).
4. Remove the Left Cover (REP 11.3).
5. Remove the 500 Sheet Feed Head Assembly (REP 11.9).
6. Tilt the retard chute forward.
7. Use a screwdriver to pry up the right end of the chute (Figure 1).
8. Slide the chute to the right and remove (Figure 1).

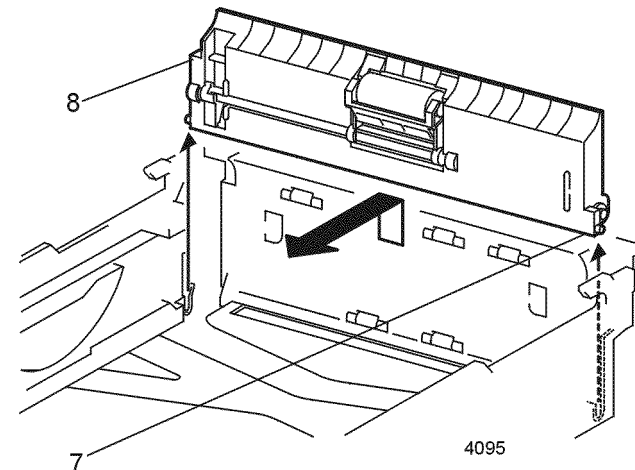


Figure 1 Retard Chute Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 11.14 Left Tray Guide

Parts List on PL 11.3

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the printer from the 500 Sheet Feeder (REP 11.1).
2. Remove the paper tray from the feeder.
3. Remove the Front Cover (REP 11.2).
4. Remove the Left Cover (REP 11.3).
5. Remove the 500 Sheet Feed Head Assembly (REP 11.9).
6. Remove the Retard Chute (REP 11.13).
7. Disconnect P/J133 and P/J138 and harness clip from the Feeder PWB (Figure 1).
8. Remove the seven screws that secure the Left Tray Guide to the feeder (Figure 1).
9. Use a small screwdriver to pry up the locking tab (Figure 1).
10. Remove the Left Tray Guide.

Replacement

1. Reinstall the components in the reverse order.

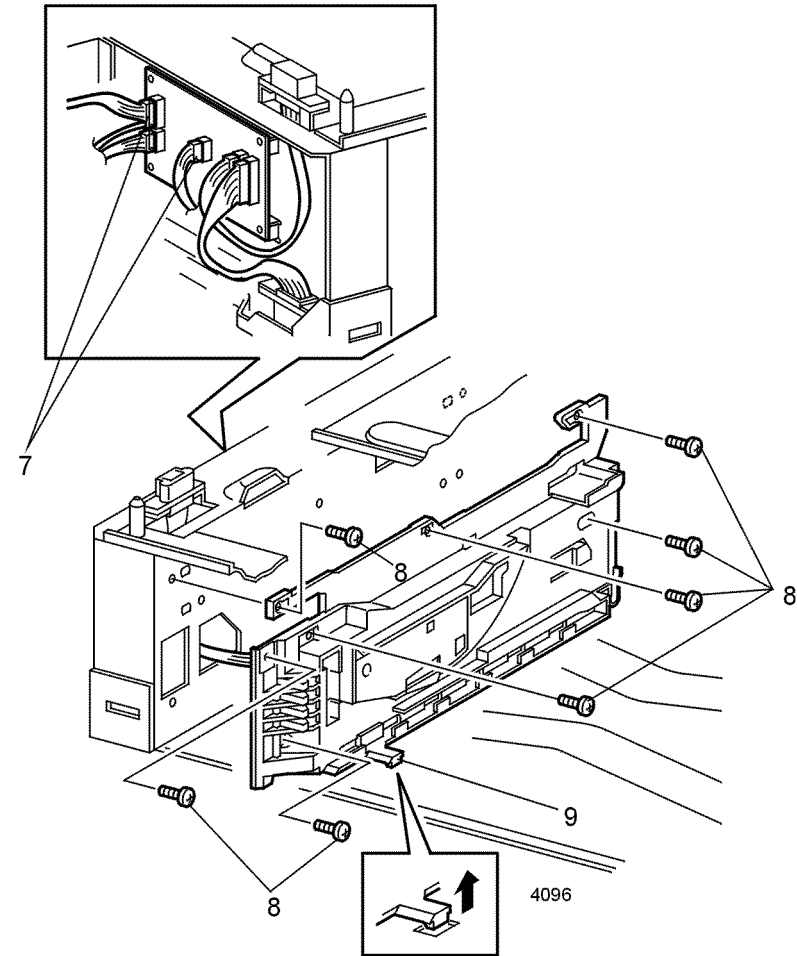


Figure 1 Left Tray Guide

REP 11.15 Right Tray Guide

Parts List on PL 11.3

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the printer from the 500 Sheet Feeder (REP 11.1).
2. Remove the paper tray from the feeder.
3. Remove the Front Cover (REP 11.2).
4. Remove the Right Cover (REP 11.4).
5. Remove the 500 Sheet Feed Head Assembly (REP 11.9).
6. Remove the Retard Chute (REP 11.13).
7. Carefully push down on the locking tab that secures the rod to the paper level actuator (Figure 1).
8. Remove the paper level assembly from the stud on the frame (Figure 1).
9. Move the paper level assembly forward and remove from the feeder (Figure 1).
10. Remove the five screws that secure the Right Tray Guide to the feeder (Figure 2).
11. Use a small screwdriver to pry up the locking tab (Figure 2).
12. Remove the Right Tray Guide (Figure 2).

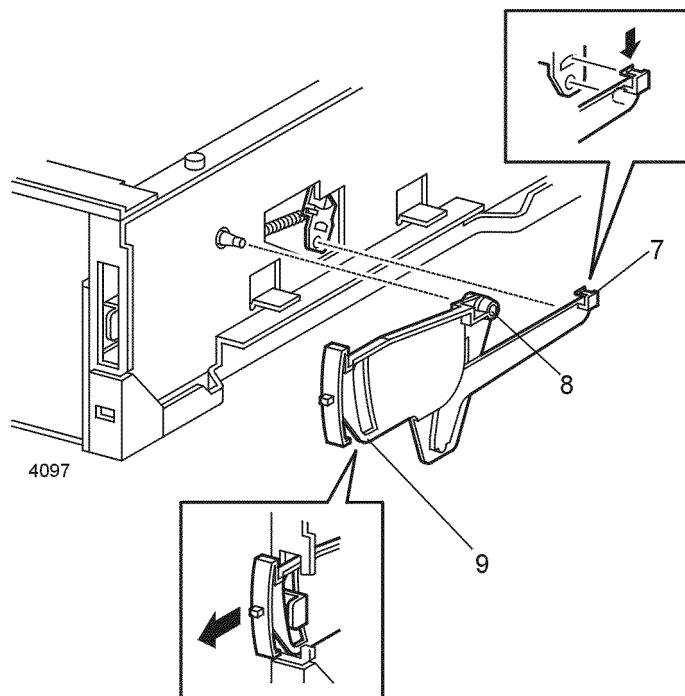


Figure 1 Paper Level Actuator

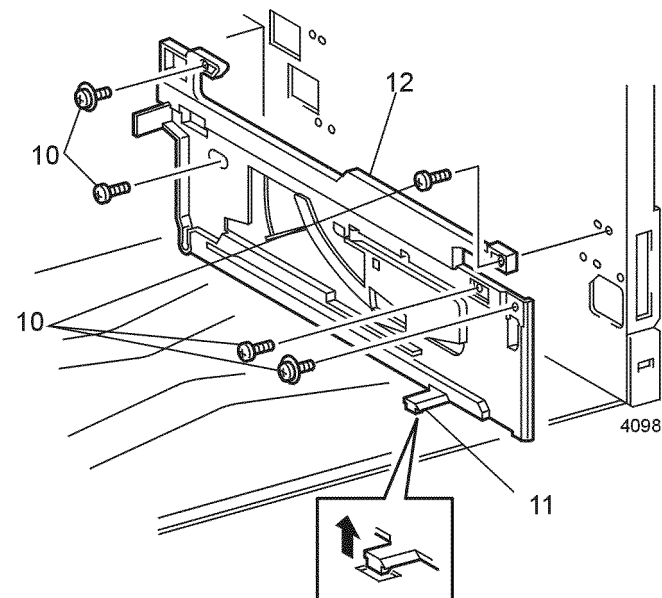


Figure 2 Right Tray Guide

Replacement

1. Reinstall the components in the reverse order.

REP 11.16 Retard Holder Assembly

Parts List on PL 11.3

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the printer from the 500 Sheet Feeder (REP 11.1).
2. Remove the paper tray from the feeder.
3. Remove the Front Cover (REP 11.2).
4. Remove the Left Cover (REP 11.3).
5. Remove the 500 Sheet Feed Head Assembly (REP 11.9).
6. Remove the Retard Chute (REP 11.13).
7. From the back of the Retard Chute Assembly, release the two locking tabs (Figure 1).
8. Remove the Retard Roll from the front of the chute (Figure 1).

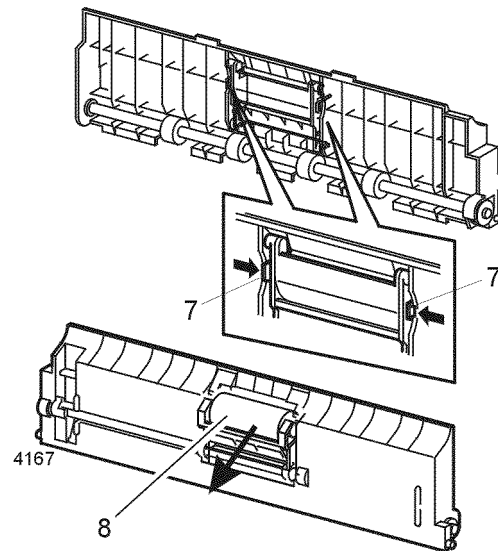


Figure 1 Retard Holder Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 11.17 Retard Turn Roll Assembly

Parts List on PL 11.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the printer from the 500 Sheet Feeder (REP 11.1).
2. Remove the paper tray from the feeder.
3. Remove the Front Cover (REP 11.2).
4. Remove the Left Cover (REP 11.3).
5. Remove the 500 Sheet Feed Head Assembly (REP 11.9).
6. Remove the Retard Chute (REP 11.13).
7. Press the locking tab and remove the Turn Gear from the left end of the shaft (Figure 1).
8. Remove the E-ring from the right end of the shaft (Figure 1).
9. Remove both the right and left bearings (Figure 1).
10. Remove the shaft (Figure 1).

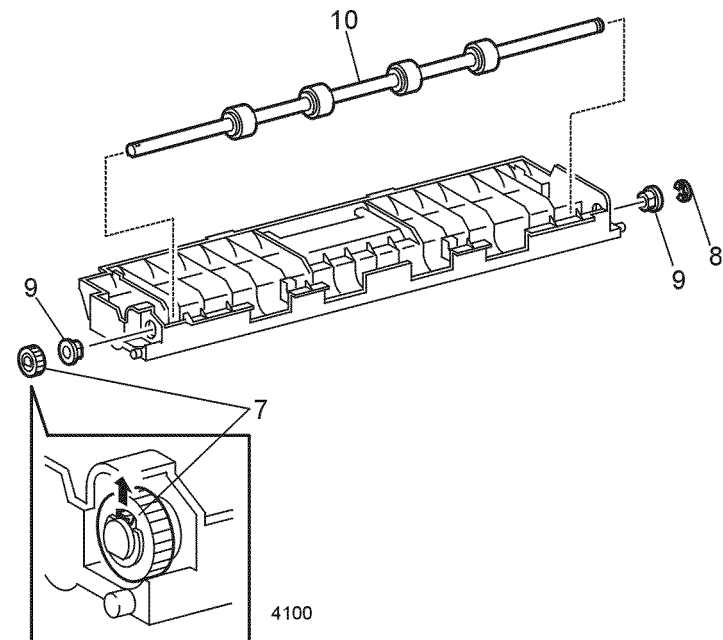


Figure 1 Turn Roll Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 11.18 Paper Size Sensor

Parts List on PL 11.3

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the printer from the 500 Sheet Feeder (REP 11.1).
2. Remove the paper tray from the feeder.
3. Remove the Front Cover (REP 11.2).
4. Remove the Left Cover (REP 11.3).
5. Remove the 500 Sheet Feed Head Assembly (REP 11.9).
6. Remove the Retard Chute (REP 11.13).
7. Remove the Left Tray Guide (REP 11.14).
8. Disconnect P/J139 from the back of the Paper Size Sensor (Figure 1).
9. Release the two locking tabs and remove the sensor (Figure 1).

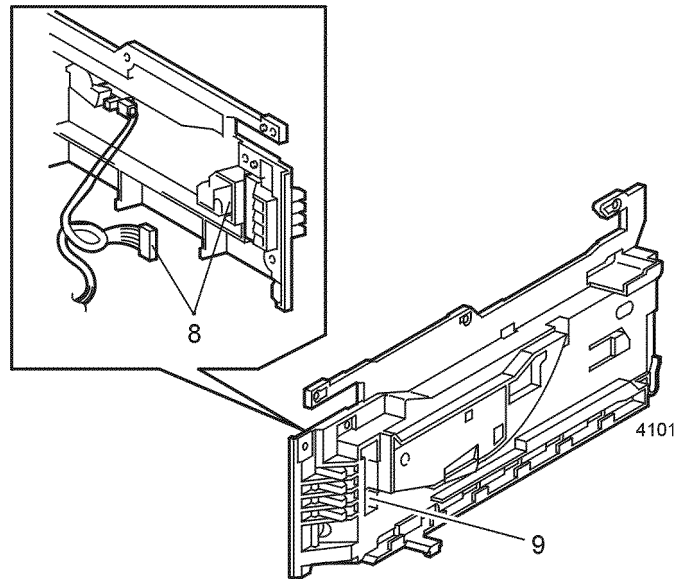


Figure 1 Paper Size Sensor

Replacement

1. Reinstall the components in the reverse order.

REP 11.19 Paper Tray Sensor

Parts List on PL 11.3

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the printer from the 500 Sheet Feeder (REP 11.1).
2. Remove the paper tray from the feeder.
3. Remove the Front Cover (REP 11.2).
4. Remove the Left Cover (REP 11.3).
5. Remove the 500 Sheet Feed Head Assembly (REP 11.9).
6. Remove the Retard Chute (REP 11.13).
7. Remove the Left Tray Guide (REP 11.14).
8. Disconnect P/J137 from the back of the Tray Sensor (Figure 1).
9. Release the three locking tabs and remove the sensor (Figure 1).

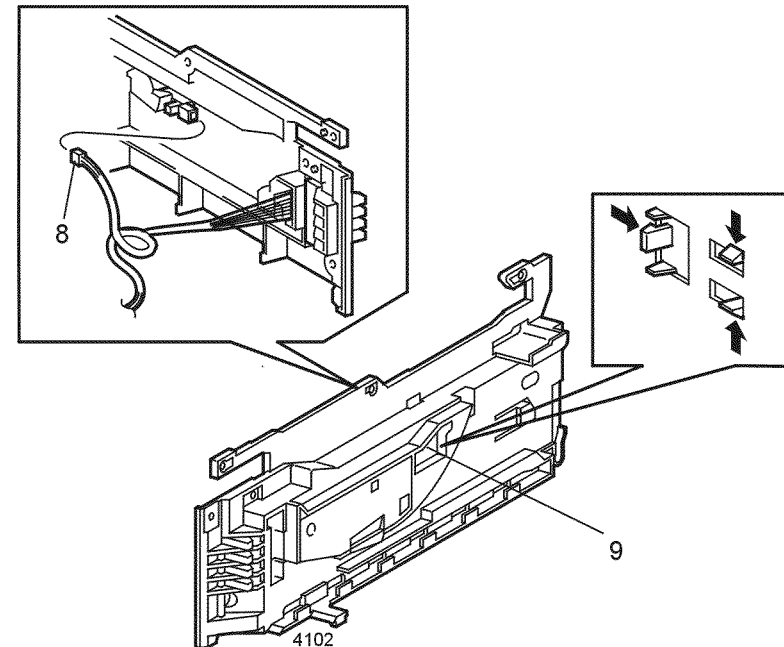


Figure 1 Paper Tray Sensor

Replacement

1. Reinstall the components in the reverse order.

REP 11.20 No Paper Sensor

Parts List on PL 11.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the printer from the 500 Sheet Feeder (REP 11.1).
2. Remove the paper tray from the feeder.
3. Remove the Front Cover (REP 11.2).
4. Remove the Left Cover (REP 11.3).
5. Remove the 500 Sheet Feed Head Assembly (REP 11.9).
6. Remove the screw that secures the sensor cover (Figure 1). Remove the cover.
7. Remove the No Paper Actuator (REP 11.21).
8. Release the Paper Feed Solenoid and rotate feed rolls to allow access to the sensor (Figure 2).
9. Disconnect P/J134 from the No Paper Sensor (Figure 3)
10. Release the three locking tabs and remove the sensor (Figure 3).

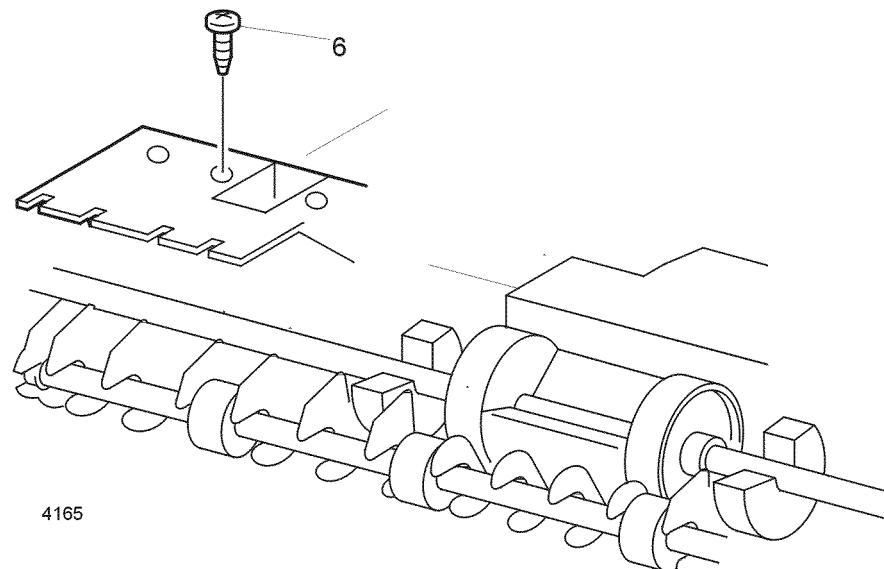


Figure 1 No Paper Sensor Cover

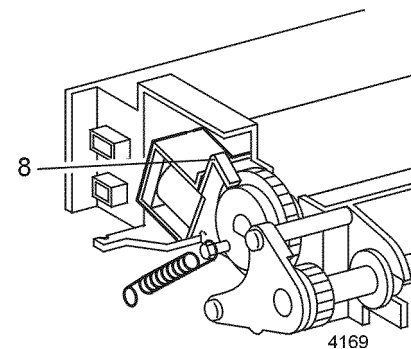


Figure 2 Feed Solenoid

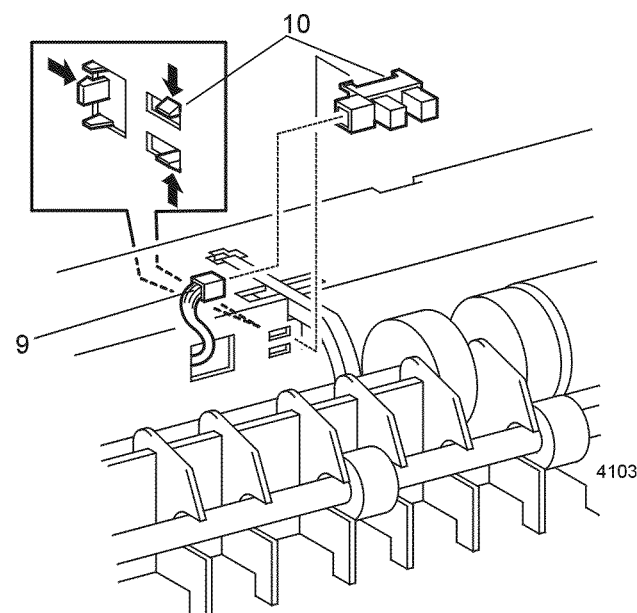


Figure 3 No Paper Sensor

Replacement

1. Reinstall the components in the reverse order.

REP 11.21 No Paper Actuator

Parts List on PL 11.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the printer from the 500 Sheet Feeder (REP 11.1).
2. Remove the paper tray from the feeder.
3. Remove the Front Cover (REP 11.2).
4. Remove the Left Cover (REP 11.3).
5. Remove the 500 Sheet Feed Head Assembly (REP 11.9).
6. Remove the actuator from the Feeder Chute (Figure 1). (A small screwdriver may be used to pry the actuator free of the retaining clips).

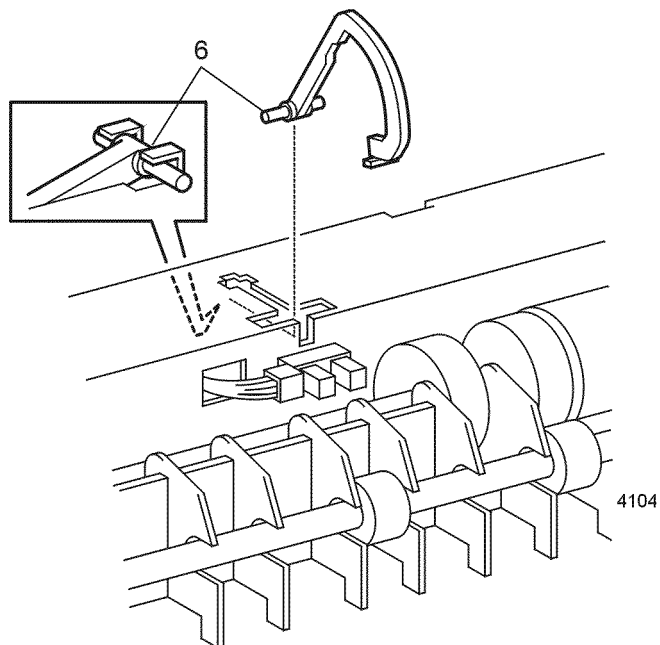


Figure 1 No Paper Actuator

Replacement

1. Reinstall the components in the reverse order.

REP 11.22 Preregistration Sensor

Parts List on PL 11.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the printer from the 500 Sheet Feeder (REP 11.1).
2. Remove the paper tray from the feeder.
3. Remove the Front Cover (REP 11.2).
4. Remove the Left Cover (REP 11.3).
5. Remove the Feed Head Assembly (REP 11.9).
6. Remove the screw that secures the sensor cover (Figure 1). Remove the cover.
7. Disconnect the P/J13C from the Preregistration Sensor.
8. Release the four locking tabs and remove the sensor (Figure 2).

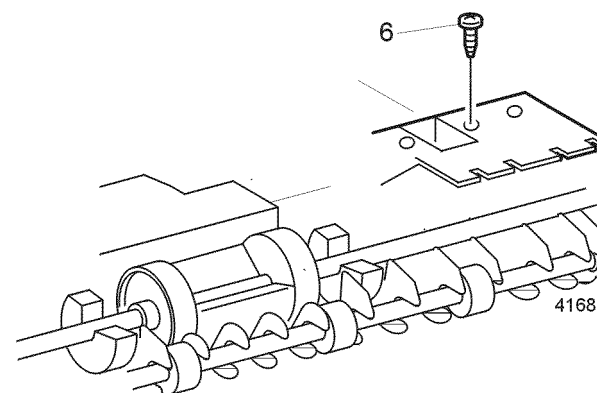


Figure 1 Sensor Cover

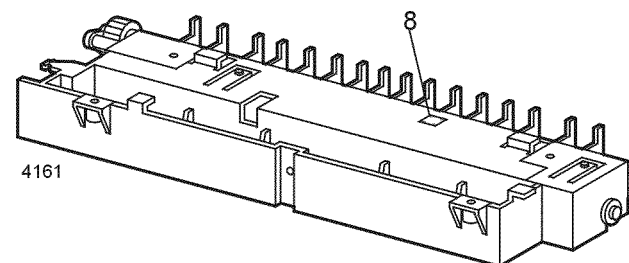


Figure 2 Preregistration Sensor

Replacement

1. Reinstall the components in the reverse order.

REP 12.1 Removing Printer from 2000 Sheet Feeder

Parts List on PL 12.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Lock the front casters on the 2000 Sheet Feeder (Figure 1).
2. Remove the OCT, if installed (REP 10.1).
3. Remove Tray 1 from the printer.
4. Remove the two screws that secure the printer (Figure 1).

NOTE: For safety reasons, have someone assist you in removing the printer and setting it in a safe place.

5. Remove the printer.
6. If an 500 Sheet Feeder is installed, remove the paper tray, remove the two screws that secure the 500 Sheet Feeder to the 2000 Sheet Feeder, and remove the 500 Sheet Feeder.

Replacement

1. Reinstall the components in the reverse order.

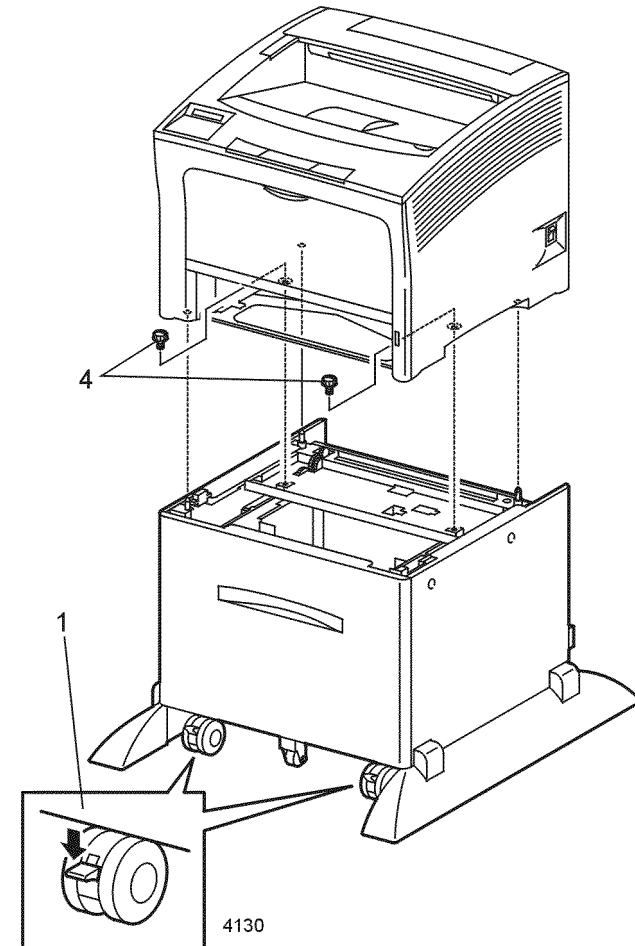


Figure 1 Removing The Printer

REP 12.2 Left Side Cover

Parts List on PL 12.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the two screws that secure the Left Side Cover (Figure 1).
2. Pull the top of the cover out and up to remove (Figure 1).

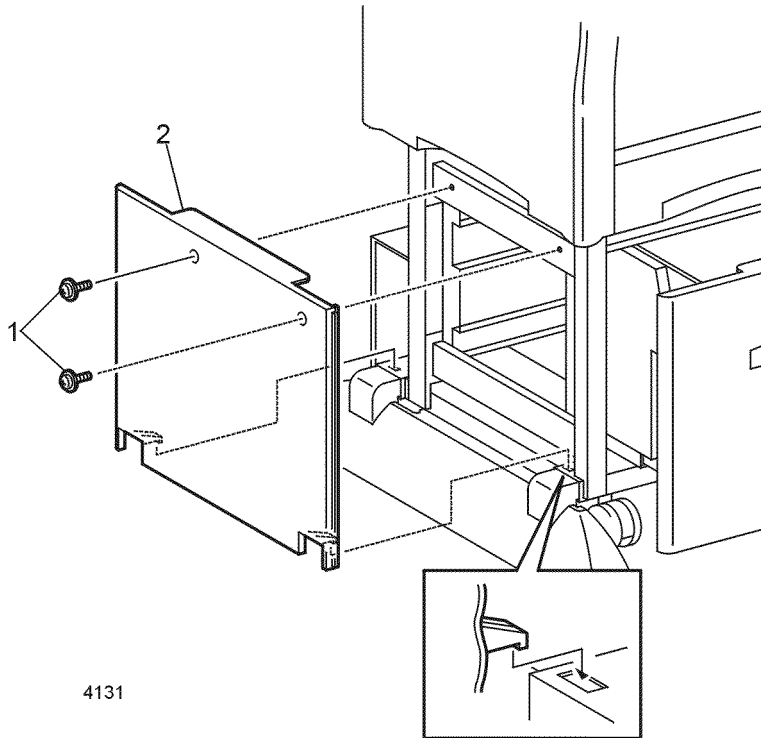


Figure 1 Left Side Cover

Replacement

1. Reinstall the components in the reverse order.

REP 12.3 Upper Rear Cover

Parts List on PL 12.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Upper Rear Cover (Figure 1).
2. Carefully push in on the left or right bracket to disengage the end of the cover (Figure 1).
3. Remove the cover.

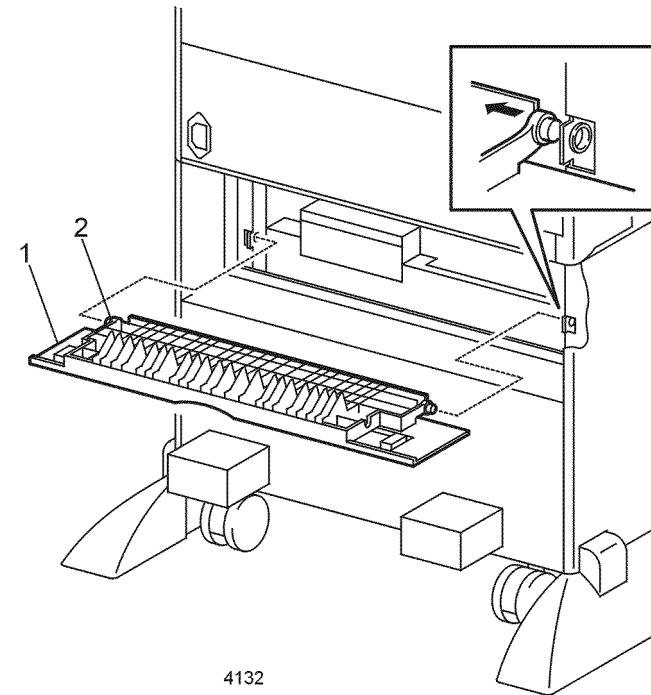


Figure 1 Upper Rear Cover

Replacement

1. Reinstall the components in the reverse order.

REP 12.4 Lower Rear Cover

Parts List on PL 12.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the two screws that secure the top of the Lower Rear Cover (Figure 1).
2. Loosen three screws that secure the Lower Rear Cover (Figure 1).
3. Remove the cover (Figure 1).

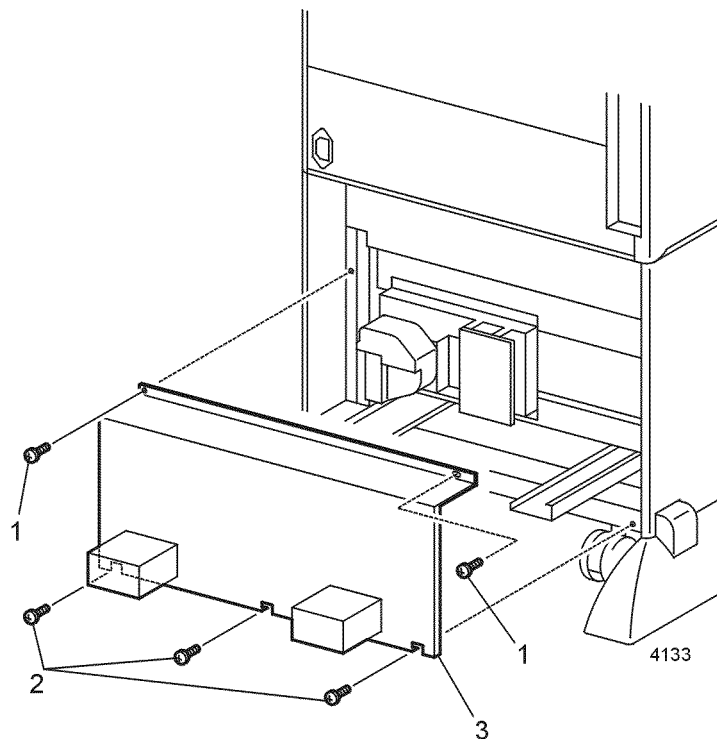


Figure 1 Lower Rear Cover

Replacement

1. Reinstall the components in the reverse order.

REP 12.5 Right Side Cover

Parts List on PL 12.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the two screws that secure the Right Side Cover (Figure 1).
2. Pull the top of the cover out and up to remove (Figure 1).

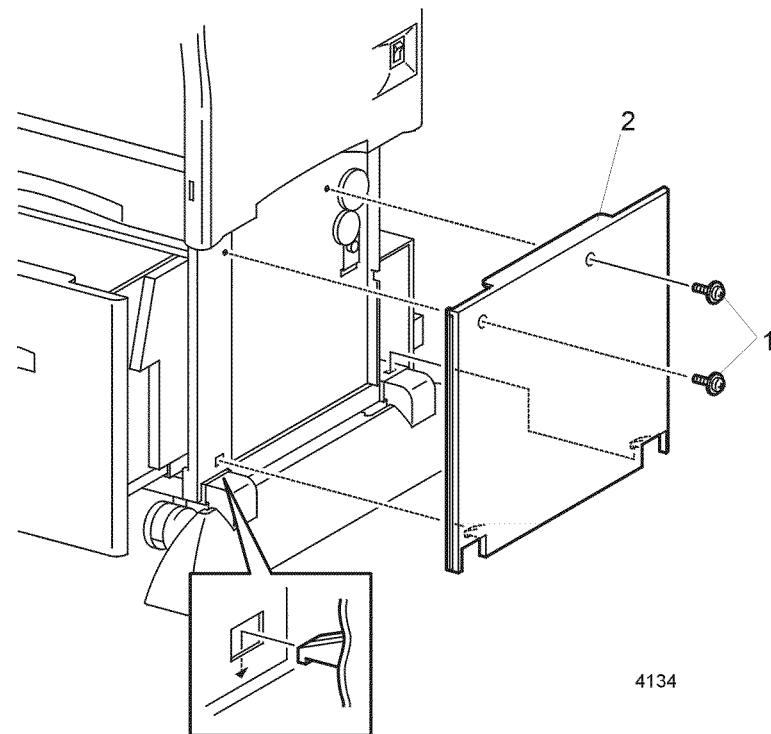


Figure 1 Right Side Cover

Replacement

1. Reinstall the components in the reverse order.

REP 12.6 Front Cover

Parts List on PL 12.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the 2000 Sheet Feeder Tray.
2. Remove the two screws that secure the front cover (Figure 1).
3. Pull the top of the cover out and up to remove (Figure 1).

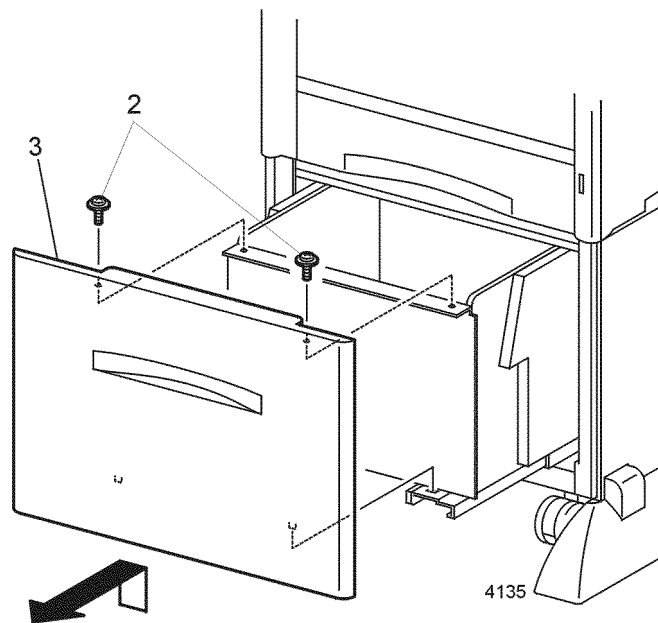


Figure 1 Front Cover

Replacement

1. Reinstall the components in the reverse order.

REP 12.7 Tray Assembly

Parts List on PL 12.4

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Pull the 2000 Sheet Feeder Tray out until it stops.
2. Remove all paper from the tray.
3. Push and hold the button on the Left Rail to release the latch (Figure 1).
4. Remove the Tray Assembly (Figure 1).

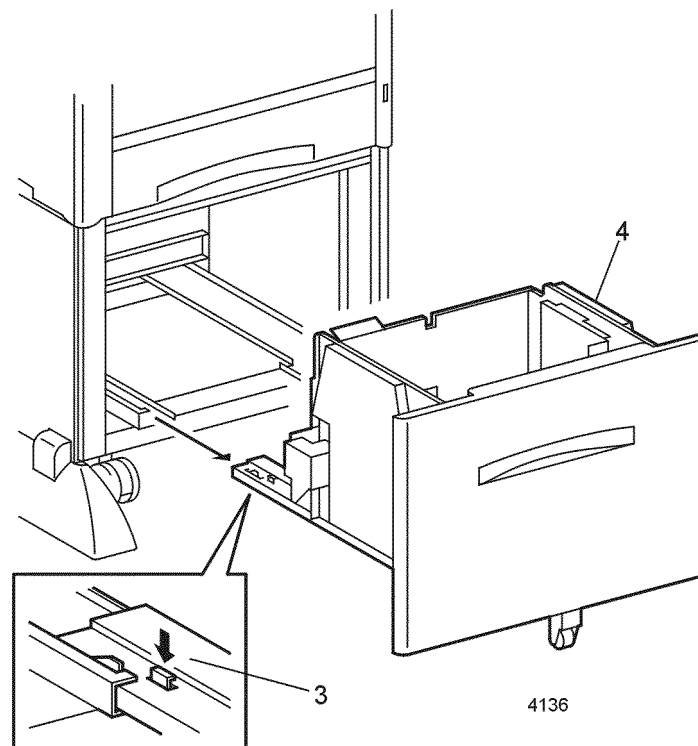


Figure 1 Tray Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 12.8 Left Foot

Parts List on PL 12.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Lower Rear Cover (REP 12.4).
2. Open the 2000 Sheet Feeder Tray.
3. Remove the two screws that secure the Left Foot (Figure 1).
4. Remove the foot (Figure 1).

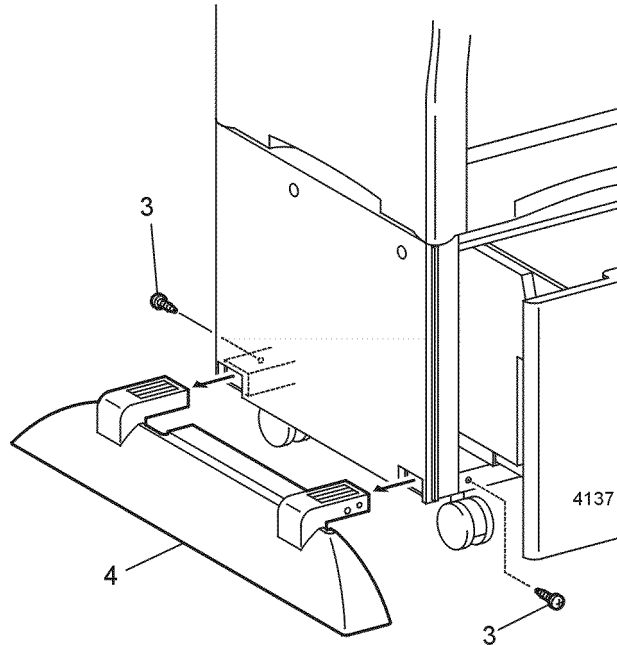


Figure 1 Left Foot

Replacement

1. Reinstall the components in the reverse order.

REP 12.9 Right Foot

Parts List on PL 12.1

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Lower Rear Cover (REP 12.4).
2. Open the 2000 Sheet Feeder Tray.
3. Remove the two screws that secure the Right Foot (Figure 1).
4. Remove the foot (Figure 1).

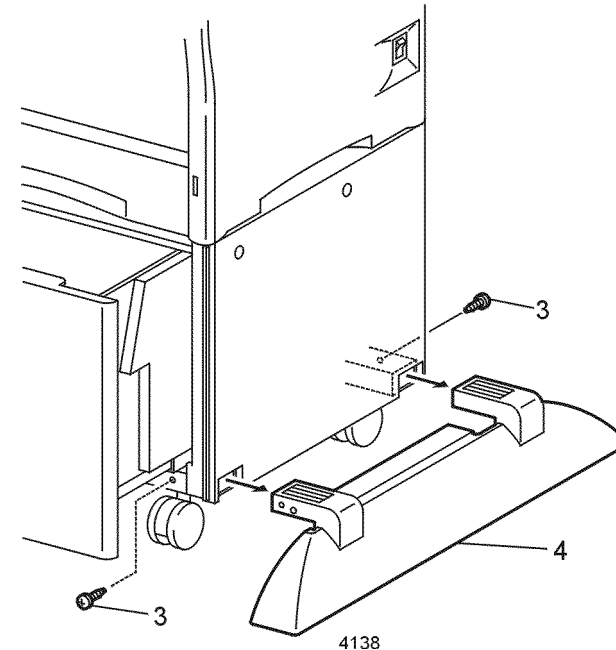


Figure 1 Right Foot

Replacement

1. Reinstall the components in the reverse order.

REP 12.10 2000 Sheet Feeder PWB

Parts List on PL 12.2

Removal

CAUTION

These components are susceptible to electrostatic discharge. Observe all ESD procedures to avoid damage.

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Lower Rear Cover (REP 12.4).
2. Disconnect P/J601, P/J602, P/J603, P/J604, P/J605, P/J606, and P/J607 (Figure 1).
3. Remove the four screws that secure the PWB (Figure 1).
4. Remove the PWB (Figure 1).

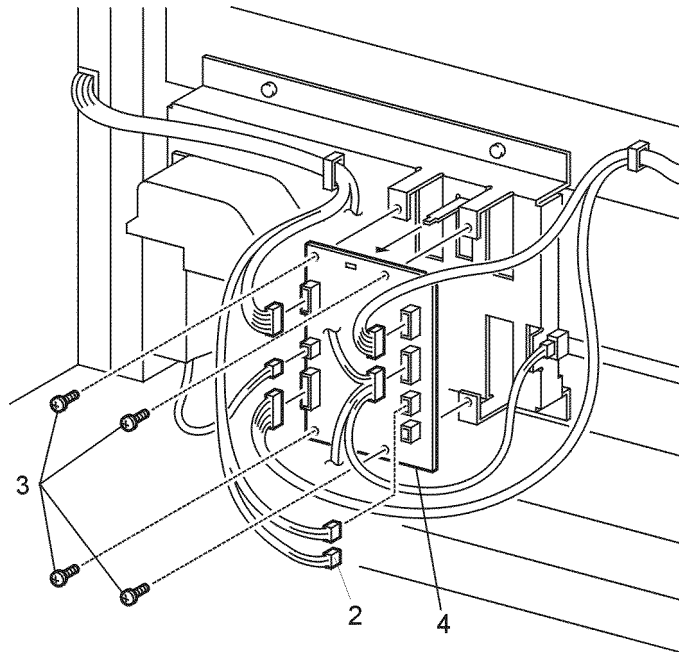


Figure 1 2000 Sheet Feeder PWB

Replacement

1. Reinstall the components in the reverse order.

REP 12.11 Tray Lift Motor Assembly

Parts List on PL 12.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Lower Rear Cover (REP 12.4).
2. Open the 2000 Sheet Feeder tray.
3. Disconnect P/J605 from the PWB (Figure 1).
4. Remove the three screws that secure the Lift Motor Assembly (Figure 1).
5. Remove the Tray Lift Motor Assembly (Figure 1).

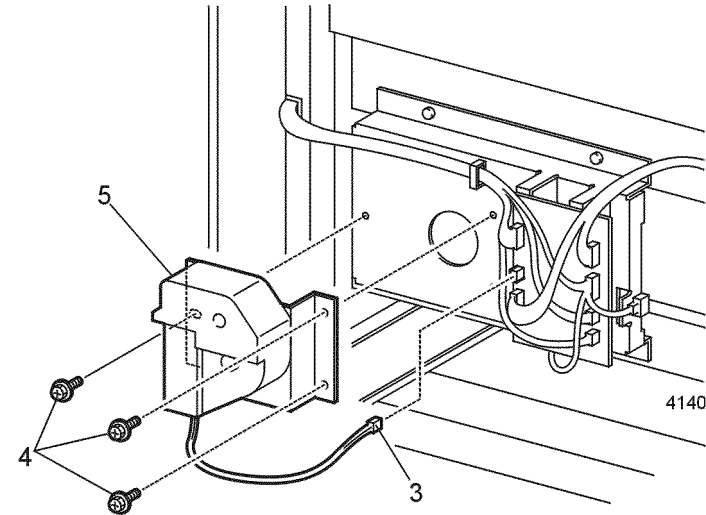


Figure 1 Tray Lift Motor Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 12.12 A4 Paper Size Sensor

Parts List on PL 12.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the 2000 Sheet Feeder Tray Assembly (REP 12.7).
2. Disconnect P/J612 from the Paper Size Sensor (Figure 1).
3. Release the two locking tabs and remove the Sensor (Figure 1).

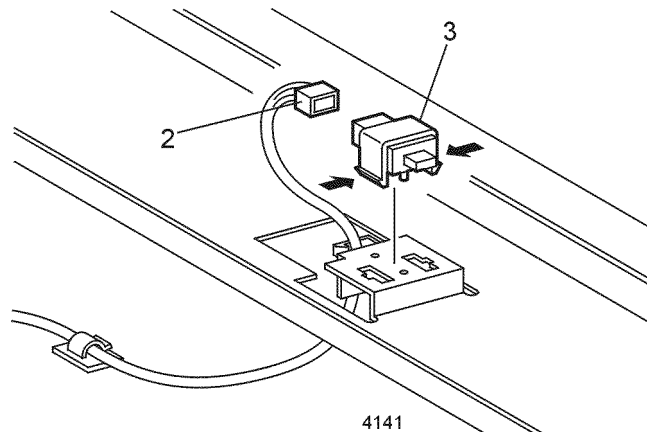


Figure 1 Paper Size Sensor

Replacement

1. Reinstall the components in the reverse order.

REP 12.13 Casters

Parts List on PL 12.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Printer / 500 Sheet Feeder (REP 12.1).
2. Remove the Left Foot (REP 12.8).
3. Remove the Left Side Cover (REP 12.2).
4. Remove all paper from the 2000 Sheet Feeder tray.
5. Tilt the 2000 Sheet Feeder onto its left side (Figure 1).

NOTE: The front casters are locking casters and rear are not.

6. Remove the three screws that secure the defective caster (Figure 1).

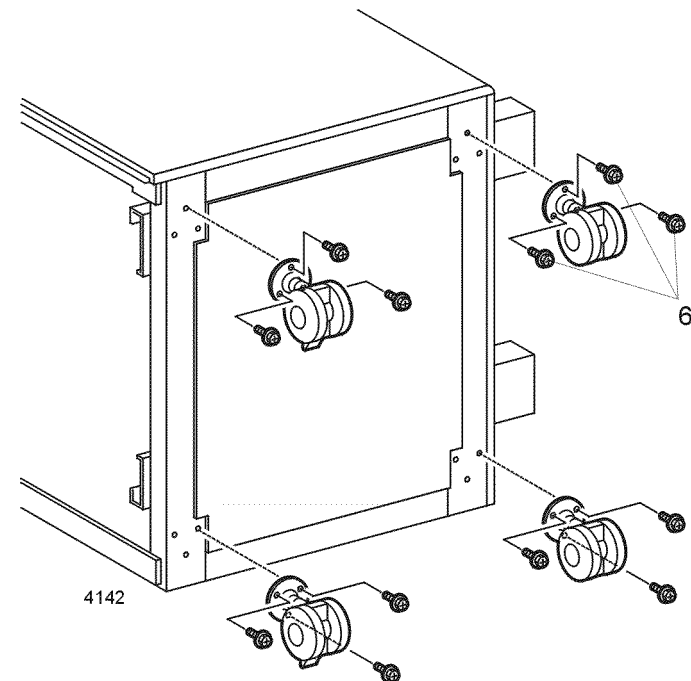


Figure 1 Casters

Replacement

1. Reinstall the components in the reverse order.

REP 12.14 Harness Assembly

Parts List on PL 12.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Printer / 500 Sheet Feeder (REP 12.1).
2. Remove the Left Side Cover (REP 12.2).
3. Remove the Lower Rear Cover (REP 12.4).
4. Disconnect P/J601 from the 2000 Sheet Feeder PWB (Figure 1).
5. Release the harness from all cable clamps (Figure 1).
6. Remove the two screws that secure the harness connector to the frame (Figure 1).
7. Guide the harness through the holes in the frame as you remove it (Figure 1).

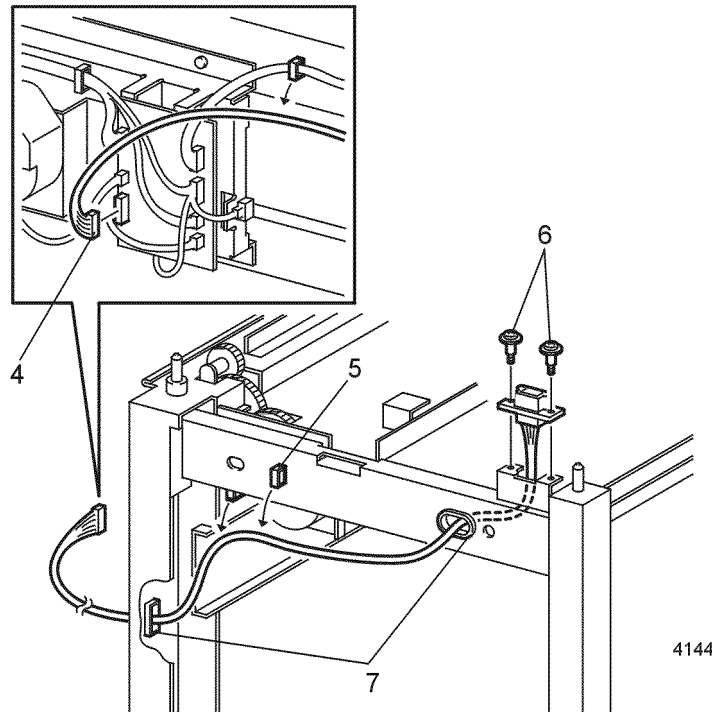


Figure 1 Harness Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 12.15 Drive Assembly

Parts List on PL 12.2

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the Upper Rear Cover.
2. Remove the screw that secures the back of the Drive Assembly (Figure 1).
3. Remove the Tray Assembly (REP 12.7).
4. Disconnect P/J615 from the Drive Assembly (Figure 1).
5. Remove the screw that secures the front of the Drive Assembly (Figure 1).
6. Remove the Drive Assembly (Figure 1).

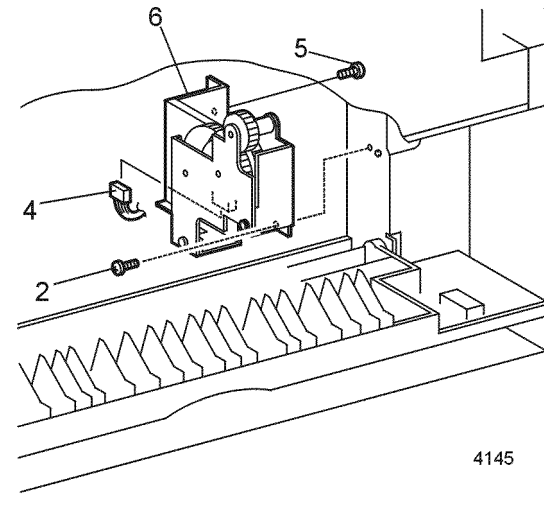


Figure 1 Drive Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 12.16 Feed, Nudger, and Retard Roll

Parts List on PL 12.3

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the 2000 Sheet Feeder tray.
2. Open the Upper Rear Cover.
3. From the rear loosen the two thumb screws and remove the paper baffle.
4. From the rear of the feeder, carefully lift the locking tab on the roll you wish to change (Figure 1).
5. Slide the roll off the end of the shaft (Figure 1).

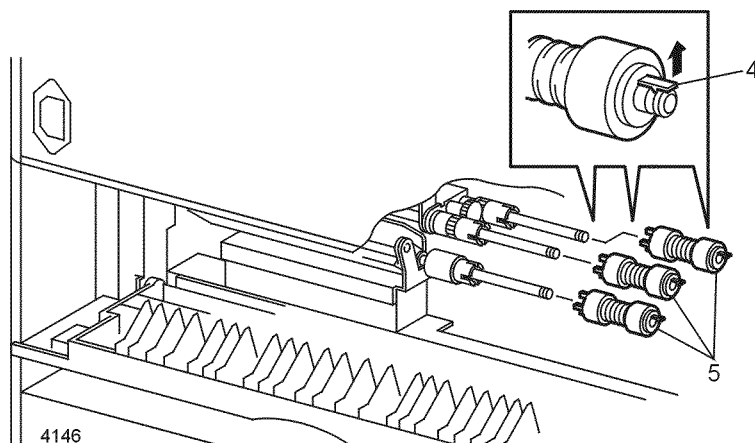


Figure 1 Feed, Nudger, and Retard Roll

Replacement

1. Reinstall the components in the reverse order.

REP 12.17 Paper Height Sensor

Parts List on PL 12.3

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the 2000 Sheet Feeder Tray Assembly (REP 12.7).
2. Hold the Nudger Assembly down as you release the three locking tabs that secure the Paper Height Sensor (Figure 1).
3. Disconnect P/J611 from the sensor (Figure 1).

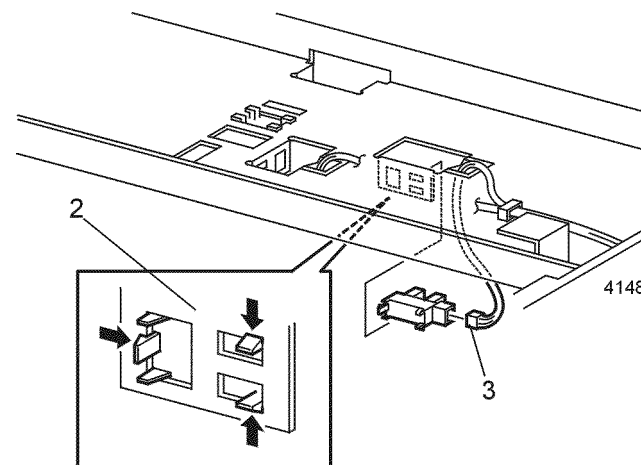


Figure 1 Paper Height Sensor

Replacement

1. Reinstall the components in the reverse order.

REP 12.18 Paper Feed Motor Assembly

Parts List on PL 12.3

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Right Side Cover (REP 12.5).
2. Remove the E-ring that secures the 47T gear (Figure 1). Remove the gear.
3. Remove the two screws that secure the motor to the Feeder Frame (Figure 1).
4. Remove the Paper Feed Motor Assembly.
5. Disconnect P/J609 from the Feed Motor Assembly (Figure 1).

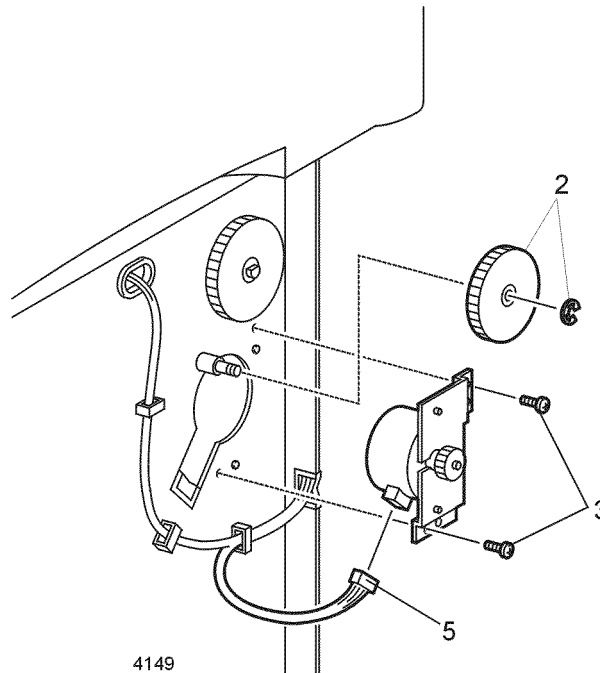


Figure 1 Paper Feed Motor Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 12.19 Link Stopper

Parts List on PL 12.3

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Retard Assembly (REP 12.29).
2. Remove the 2000 Sheet Feeder Tray Assembly (REP 12.7).
3. Unhook the torsion spring from the Link Stopper (Figure 1).
4. Pull up on the locking tab and remove the Link Stopper (Figure 1).
5. Remove the Torsion Spring (Figure 1).

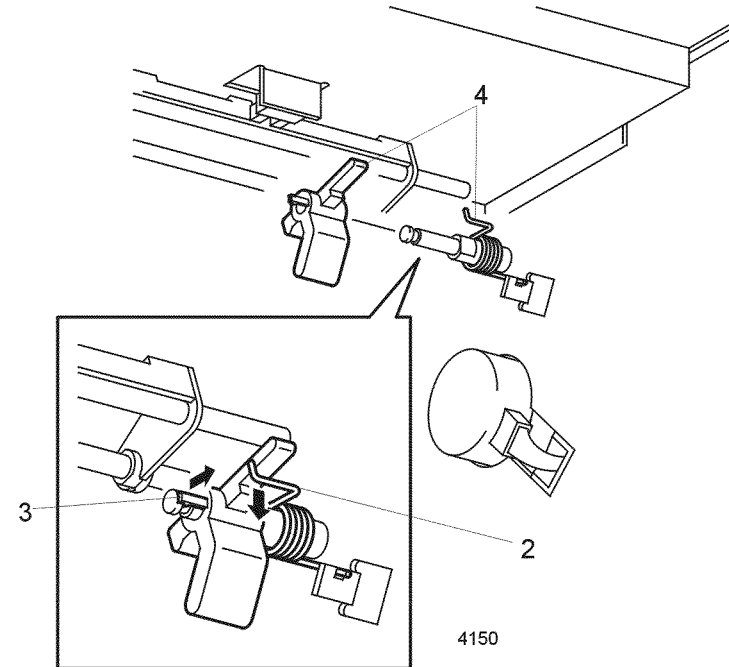


Figure 1 Link Stopper

Replacement

1. Reinstall the components in the reverse order.

REP 12.20 No Paper Sensor

Parts List on PL 12.3

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Tray Assembly (REP 12.7).
2. Disconnect P/J610 from the No Paper Sensor (Figure 1).
3. Release the three locking tabs that secure the sensor (Figure 1). Remove the sensor.

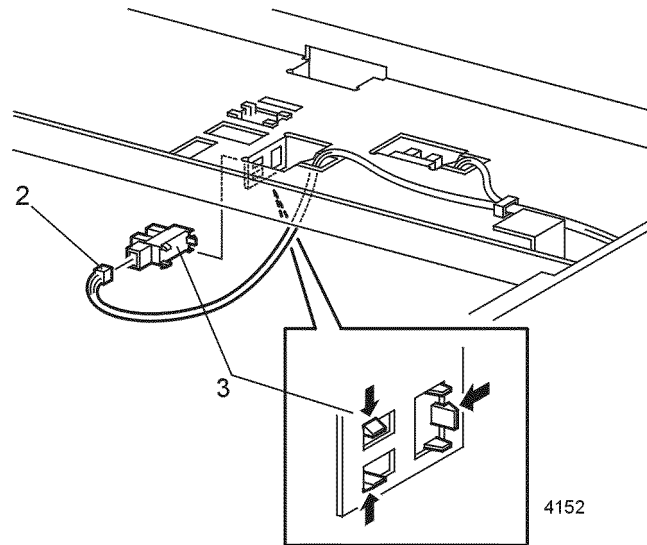


Figure 1 No Paper Sensor

Replacement

1. Reinstall the components in the reverse order.

REP 12.21 No Paper Sensor Actuator

Parts List on PL 12.3

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the Tray Assembly (REP 12.7).
2. Release the four locking tabs that secure the actuator and support (Figure 1).
3. Remove the actuator from the Actuator Support (Figure 1).

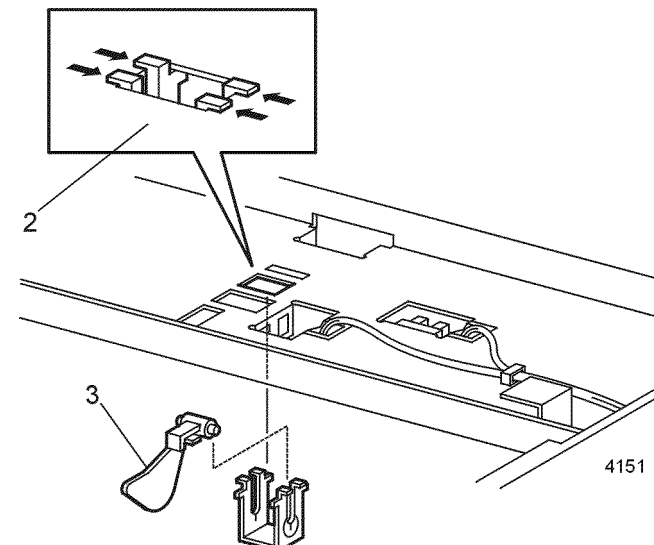


Figure 1 No Paper Sensor Actuator

Replacement

1. Reinstall the components in the reverse order.

REP 12.22 Left and Right Side Guides

Parts List on PL 12.4

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the 2000 Sheet Feeder Tray Assembly until it stops.
2. Remove all paper from the tray.
3. Press the Side Guide Latch and lift the guide to remove (Figure 1).

Replacement

1. Install the side guides in the outboard holes for A4 paper, and in the inboard holes for letter paper.
2. Reinstall the components in the reverse order.

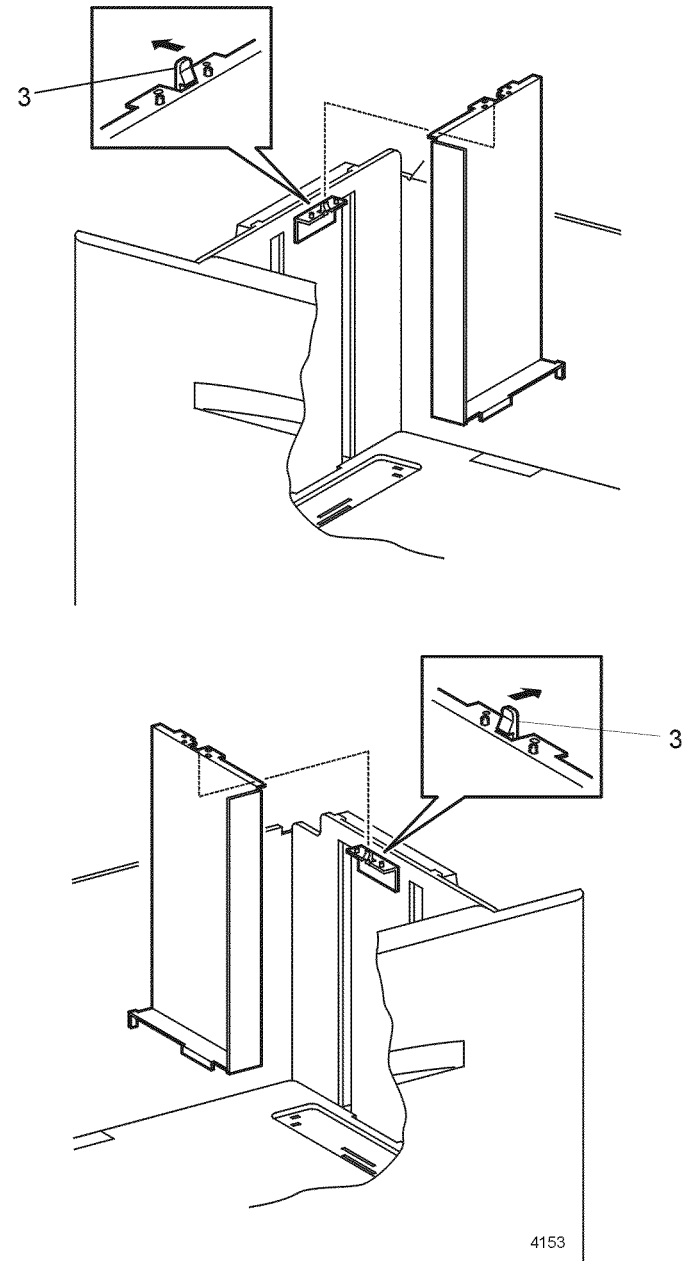


Figure 1 Tray Assembly Side Guides

REP 12.23 Left and Right Wire Cover

Parts List on PL 12.4

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Open the 2000 Sheet Feeder Tray Assembly until it stops.
2. Remove the two screws that secure the Wire Cover to the Tray Assembly (Figure 1).
3. Pull the top of the cover out and up to remove (Figure 1).

Replacement

1. Reinstall the components in the reverse order.

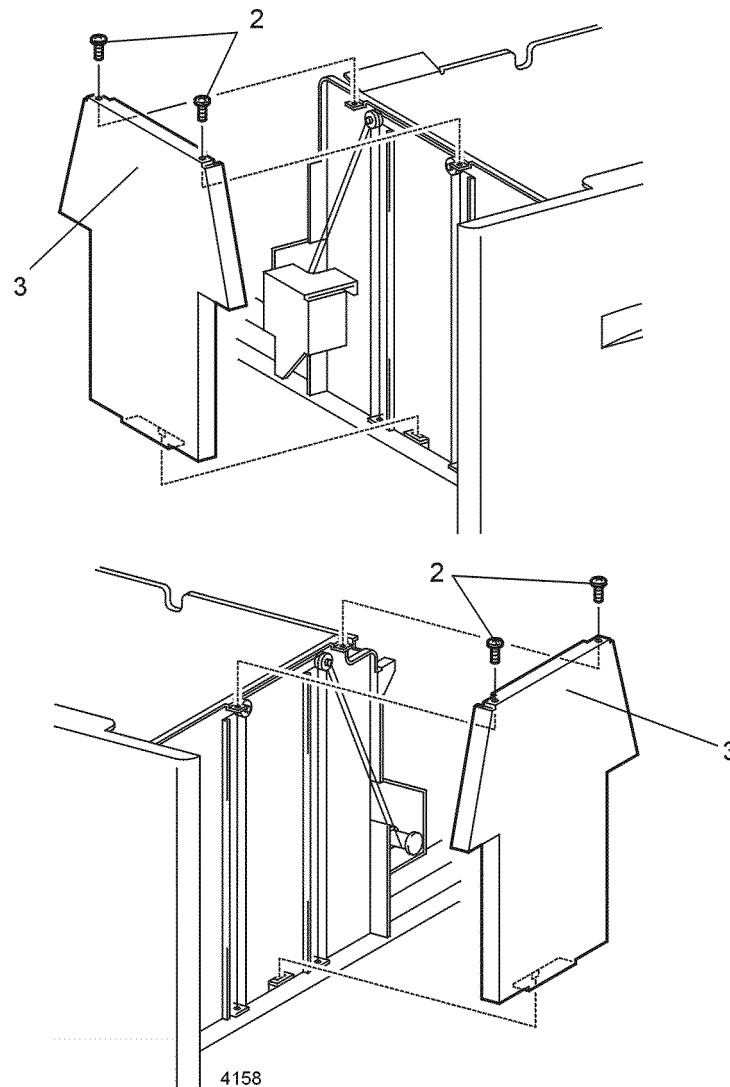


Figure 1 Tray Assembly Wire Covers

REP 12.24 Shaft Cover Assembly

Parts List on PL 12.4

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the 2000 Sheet Feeder Tray Assembly (REP 12.7).
2. Remove the four screws that secure the Shaft Cover Assembly to the Tray Assembly (Figure 1).
3. Remove the cover (Figure 1).

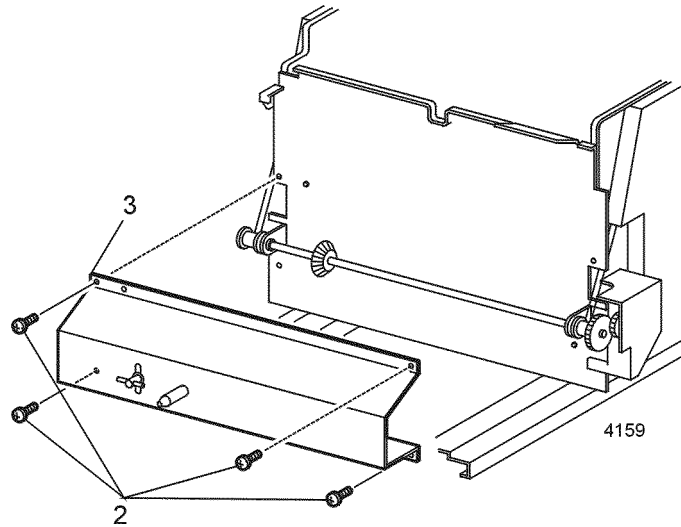


Figure 1 Shaft Cover Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 12.25 Drive Shaft Assembly

Parts List on PL 12.4

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the 2000 Sheet Feeder Tray Assembly (REP 12.7).
2. Remove the Shaft Cover Assembly (REP 12.24).
3. Align the Drive Shaft Assembly with the hole in the Shaft Cover Assembly (Figure 1).
4. Remove the two screws that secure the Drive Shaft Bracket to the shaft cover (Figure 1).
5. Remove the Drive Shaft Assembly.

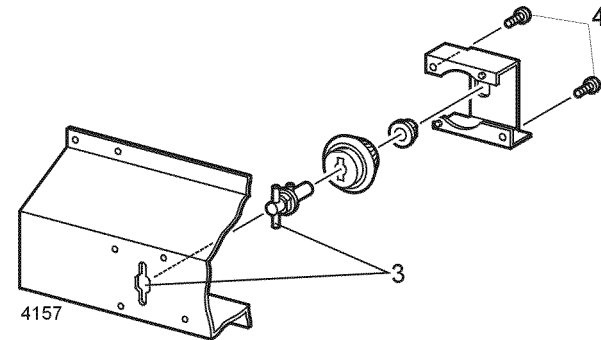


Figure 1 Drive Shaft Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 12.26 Brake Assembly

Parts List on PL 12.4

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the 2000 Sheet Feeder Tray Assembly (REP 12.7).
2. Remove the two screws that secure the Brake Assembly to the Tray Assembly (Figure 1).
3. Remove the Brake Assembly (Figure 1).

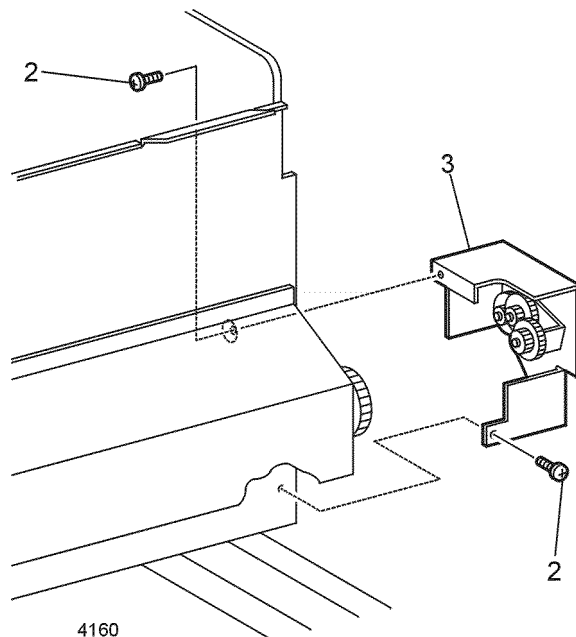


Figure 1 Brake Assembly

Replacement

1. Reinstall the components in the reverse order.

REP 12.27 Left Tray Wires

Parts List on PL 12.4

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the 2000 Sheet Feeder Tray Assembly (REP 12.7).
2. Remove the Shaft Cover Assembly (REP 12.24).
3. Remove the Brake Assembly (REP 12.26).
4. Remove the Left Wire Cover (REP 12.23).
5. Remove the E-ring that secures the 33 Gear (Figure 1). Remove the gear.
6. Remove the Cable Pulley from the shaft (Figure 1).
7. Remove the E-rings and pulleys from the two shafts on the tray assembly (Figure 1).
8. Remove the wires down through the holes in the tray assembly (Figure 1).

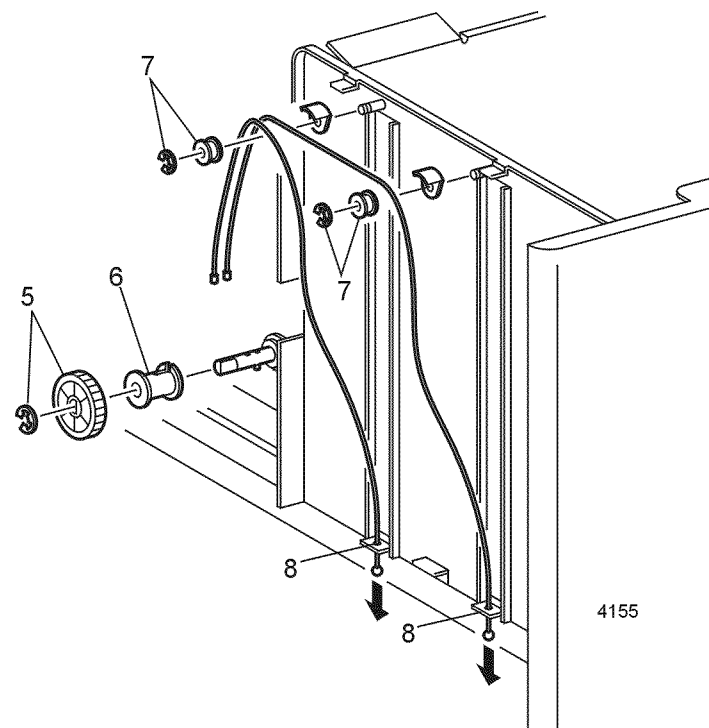


Figure 1 Left Tray Wires

Replacement

1. Ensure the black plastic wire guides are at the top of the pulleys (Figure 1).
2. Reinstall the components in the reverse order.
3. The longer wire goes to the front of the tray.

REP 12.28 Right Tray Wires

Parts List on PL 12.4

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the 2000 Sheet Feeder Tray Assembly (REP 12.7).
2. Remove the Shaft Cover Assembly (REP 12.24).
3. Remove the Right Wire Cover (REP 12.23).
4. Remove the E-ring that secures the Cable Pulley (Figure 1). Remove the pulley.
5. Remove the E-rings and pulleys from the two shafts on the tray assembly (Figure 1).
6. Remove the wires down through the holes in the tray assembly (Figure 1).

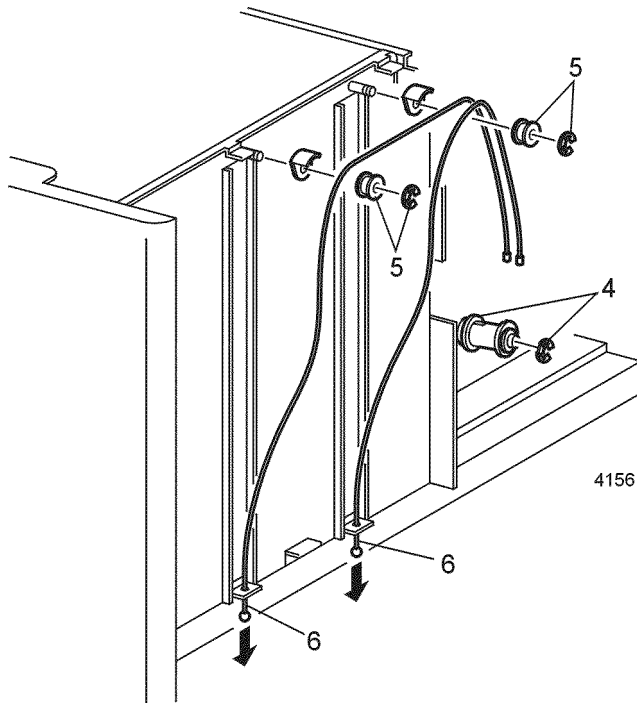


Figure 1 Right Tray Wires

Replacement

1. Ensure the black plastic wire guides are at the top of the pulleys (Figure 1).
2. Reinstall the components in the reverse order.
3. The longer wire goes to the front of the tray.

REP 12.29 Retard Assembly

Parts List on PL 12.3

Removal

WARNING

Switch off the power and disconnect the Power Cord.

1. Remove the 2000 Sheet Feeder Tray Assembly (REP 12.7).
2. Remove the Right Side Cover (REP 12.5).
3. Remove the E-ring that secures the 50T Gear to the Feeder Shaft (Figure 1). Remove the gear.
4. Remove the screw that secures the Stopper Gear (Figure 1). Remove the gear.
5. Remove Gear 22T from the Retard Shaft (Figure 1).
6. Open the Rear Door.
7. Release the spring from the left end (as viewed from the rear) of the Retard Support (Figure 2).
8. Remove the two screws that secure the Retard Support Assembly to the feeder (Figure 2).
9. Lift the Retard Support Assembly, slide it to the right and remove (Figure 2).

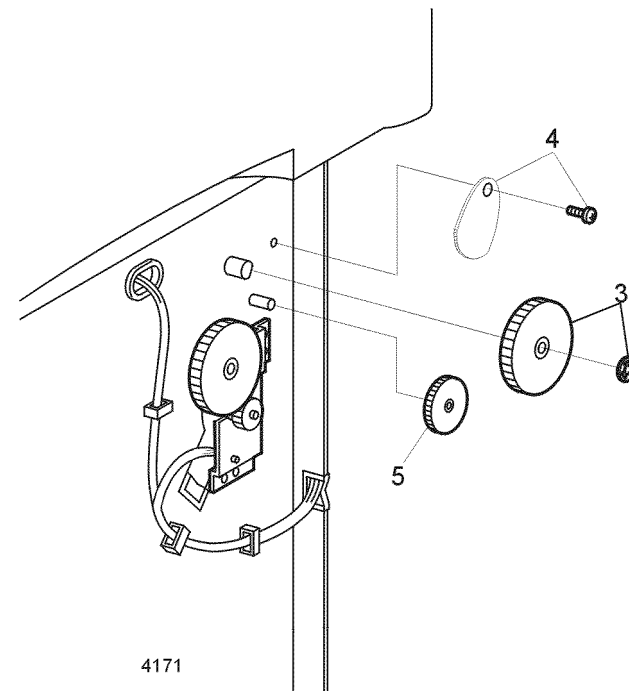


Figure 1 Feed Gears

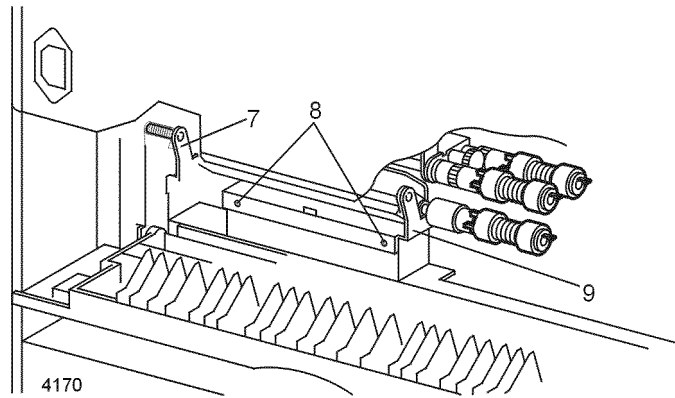


Figure 2 Retard Assembly

Replacement

1. Reinstall the components in the reverse order.

ADJ 1.1 Registration

Purpose

To adjust the registration in the scan direction and the process direction.

To set Default Tray

1. Enter Diagnostics and select Test Print.
2. Scroll to Input Tray.
3. Select the tray that you wish to be the Default Tray.
4. Press "Enter".

Check

1. Set the Default Tray.
2. Enter diagnostics and select Test Print.
3. Scroll to Print Pattern and press Enter.
4. After at least two prints complete, press the [0] key for one second to stop the printing.
5. The measurement should be made on two consecutive test patterns from each tray (Figure 1).
 - Measure the distance from the top edge of the paper to the top edge of the image (C) and measure the distance from the bottom edge of the paper to the bottom edge of the image (D). These two measurements should be equal (Figure 1).
 - Measure the distance from the lead edge of the paper to the lead edge of the image (A) and measure the distance from the trail edge of the paper to the trail edge of the image (B). These two measurements should be equal (Figure 1).
6. If either measurement does not meet specification perform the adjustment below.
7. Repeat steps 1 through 6 for each paper tray.

Adjustment

1. Enter Diagnostics and select NVM Config.
2. Enter the NVM Password (0734).
3. Scroll to process (Process Tray X) or scan (Scan Tray X) adjustment for the desired tray.
4. Press the Value Key (3 or 7) to display the current setting.
5. Use the 3 or 7 keys to set the new value.

NOTE: Each increment of change equals approximately one-half millimeter. In the scan direction increasing the value moves the image to the right and decreasing the value moves the image to the left. In the process direction increasing the value moves the image toward the trail edge and decreasing the value moves the image towards the lead edge.

6. Press Enter to save the setting.
7. Scroll to Test Print. Select Print Pattern and press Enter.
8. Measure the distance from the left edge of the paper to the left edge of the image and measure the distance from the right edge of the paper to the right edge of the image. These two measurements should be equal.

9. Measure the distance from the lead edge of the paper to the lead edge of the image and measure the distance from the trail edge of the paper to the trail edge of the image. These two measurements should be equal.
10. Repeat steps 1 through 9 until equal side-to-side and lead edge to trail edge measurements are achieved.

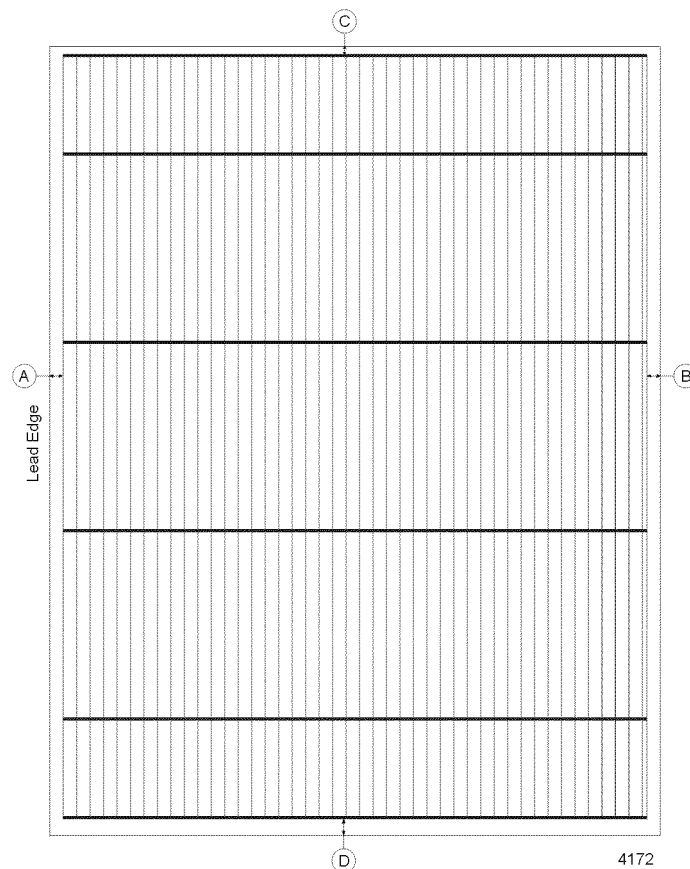


Figure 1 Test Pattern

