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# LaserJet III Si Printer Maintenance Kit Instructions



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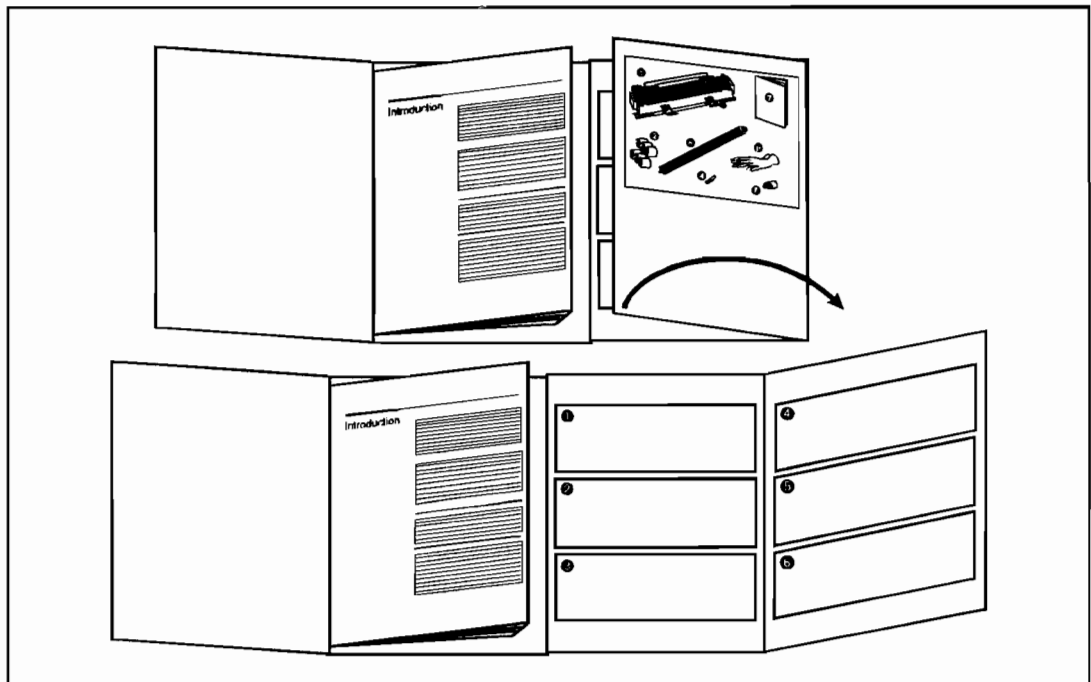
## OVERVIEW

This document provides the instructions for performing the required periodic maintenance on the LaserJet III Si printer.

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## LAYOUT

The numbered illustrations on the fold-out pages correspond to the Figure numbers in the text. For example, when the instructions refer to Figure 1, look at illustration number 1 on the fold-out pages.



# Maintenance Kit Instructions

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## Parts List

Your maintenance kit contains the following items (refer to Figure A on the back cover):

1. (1) Fusing Assembly
2. (6) Pickup/Separation Rollers
3. (1) Transfer Roller Assembly
4. (1) Transfer Roller Clip
5. (1) Duplex D-Roller (for optional duplex unit)
6. (1) Pair of Gloves (for replacing transfer roller)
7. (1) Instructions

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### Caution



Remove the fusing assembly spacing brackets (see Figure B on the back cover) before installing the fusing assembly. Failure to remove the spacing brackets may cause damage to the printer when the printer is in operation.

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When your printer has printed 200,000 pages, the USER MAINTENANCE message is displayed in place of the OO PCL READY (or OO PS READY) message. Parts described in this section must be replaced to keep your LaserJet IIISi printer at optimal performance. When the maintenance has been completed, clear the message (see "Clearing the Maintenance and Service Message" on page 7) and continue printing.

The parts to be replaced are:

1. Fusing assembly.
2. Transfer roller and clip.
3. Pickup and separation rollers.
4. Duplex pickup roller (if duplex unit is installed).

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**Warning**

**Failure to turn off and unplug the printer before replacing parts may result in personal injury or damage to the printer. After turning the power OFF and unplugging the printer, allow the printer to cool for 30 minutes before replacing the parts.**

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**Note**

As you begin the maintenance procedures, read through the whole procedure first.

Unless specifically noted, replacement is the reverse of removal. Always carefully observe the position and alignment of the part you are removing; this is your best guide to replacement.

Use the gloves provided when replacing the transfer roller. To ensure optimal performance, do not touch the roller without gloves.

The terms, right and left, used in these procedures assume that you are standing at the front of the printer.

**LIGHT-BLUE COLORING IS USED TO INDICATE COMPONENTS REPLACABLE BY THE KEY OPERATOR.**

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## Fusing Assembly Removal and Replacement

The fusing assembly is located inside the printer at the rear below the toner cartridge. You will need a screwdriver. To replace the fusing assembly, follow the steps below.

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### Warning



The fusing area gets **HOT**. Turn the printer **OFF**, unplug the power cord, and allow the fusing assembly to cool for 30 minutes before attempting to remove it.

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### Removal

1. Turn OFF and unplug the printer.
2. Remove the paper trays.
3. Open the printer's top cover by pressing the top release button.
4. Remove the toner cartridge. Store the toner cartridge out of direct light.
5. Allow the assembly to cool for 30 minutes before attempting to remove it.
6. Loosen the 4 screws attaching the fusing assembly to the printer (see Figure 1) with the screwdriver, then use your fingers to remove them. (These screws appear as tall posts on each corner of the fusing assembly.)



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### Caution



Be careful not to damage the black plastic paper sensor flag above the fuser's right rear corner (see **A** in the expanded view of Figure 2). If the flag can't move freely, it will produce a false 13.X PAPER JAM message when the printer is powered ON again, or paper will jam when it tries to feed the first sheet of paper after being powered ON.

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7. Slide the fusing assembly to the left, then up and out. You will have to lift the fusing assembly toward the front of the printer to avoid the toner cartridge holder.

## Replacement

1. Lower the new fusing assembly into place against the left side of the printer, then slide it to the right until the electrical connector is firmly inserted into the socket at the right side of the printer. (The slots on the underside of the fusing assembly fit into metal tabs on the plate the fusing assembly rests on; they help to guide the assembly into place.) Be sure that the electrical connector is firmly seated and that the paper sensor flag is able to move back and forth freely.
2. Replace the screws by starting them with your fingers, then tightening them with the screwdriver.
3. Replace the toner cartridge and close the top cover.

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## Transfer Roller and Clip

The transfer roller is the black sponge-rubber roller located inside the printer just to the front of the black plastic paper feed guide (see Figure 3). Remove and replace the transfer roller and clip as follows:

### Removal

1. Turn OFF and unplug the printer.
2. Remove the paper trays.
3. Open the printer's top cover by pressing the top release button.
4. Remove the light-blue plastic retaining clip (item ① in Figure 3), which holds the right end of the roller in place, by pulling up on its rear-most edge. Discard the clip.
5. Hold the transfer roller in place and slide the black bushing (item ② in Figure 3) to the right so that it separates from the roller's shaft. **For replacement, observe and remember how the guide pins fit into the slots in the left socket.**
6. Remove the transfer roller lifting its right end up and out. Discard the used roller.

## Replacement

1. Put on the gloves provided in your maintenance kit.
2. Slide the left end of the new roller into the left end socket, being careful that the guide pins fit into the slots.
3. While raising the right end of the roller up slightly, push the bushing (item ① in Figure 4) on the right end socket to the right. Then, lower the roller into place and slide the right end socket to the left and over the transfer roller's metal shaft.
4. Install the new light-blue plastic retaining clip (item ② in Figure 4), which holds the right end plastic socket in place. If the roller has been properly installed, the clip should fit easily over the shaft, and the transfer roller should not move from side to side.
5. Verify that the transfer roller is correctly seated by rotating it back and forth while watching the gear on the left (see Figure 4). Both the gear and the transfer roller should turn freely.
6. Remove the gloves.
7. Close the top cover.

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## Pickup and Separation Rollers

Three pickup and separation rollers are located in the back of the upper and lower paper tray slots (see Figure 5). (There are six pickup and separation rollers – three for each slot.) The six rollers are identical.

To remove and replace them, follow the steps below.

### Removal

1. Turn OFF and unplug the printer.
2. Remove *both* paper trays.
3. Remove each roller by pinching the light-blue plastic retaining clip at the end of the roller and sliding it off its shaft (see Figure 5). (You may find it easiest to pinch the clip with your *left* hand and use your *right* index finger to slide the roller to the left.) You may have to rotate the roller for easy access to the clip.
4. Discard the used rollers.



## Replacement

1. Slide each new roller over its shaft and snap it into place. You should be able to feel the light-blue plastic clip “click” into place when the roller is firmly seated.
2. To check the installation, release the clip and try to pull the roller off the shaft; it should not come off.
3. Reinstall the paper trays.

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## Duplex Pickup Replacement

If you have installed the optional duplex unit, you will need to replace the duplex pickup roller at the same time as the pickup and separation rollers.

### Removal

1. Turn OFF and unplug the printer.
2. Remove *both* paper trays.
3. Locate the duplex pickup roller through the lower paper tray slot, as shown in Figure 6.
4. With your left hand, lift the plate above the roller, and raise the roller off the bottom of the printer. With your right hand, pinch the ends of the roller and slide it off to the right. (You may find it helpful to push the roller to the right with the fingers of your left hand.)

### Replacement

1. Examine how the duplex pickup roller is keyed on the shaft (see Figure 7). The shaft has two posts, one longer than the other. There are corresponding slots on either side of the hole through the duplex pickup roller.
2. Slide the roller onto the shaft, aligning the slots with the post on the shaft.
3. Slide the roller to the left until you feel the pickup roller click into place.

**Note**

After you have replaced the fuser and turned the printer ON again, the message 50 SERVICE ERROR might appear in the display. This usually indicates the printer was not powered OFF long enough before the fuser was replaced. Turn the printer OFF again for 30 minutes' cooling time. This should clear the error message. If the problem persists, review the instructions for this message in the *LaserJet III Si Printer User's Reference Manual*.

## Clearing the Maintenance and Service Message

The USER MAINTENANCE message is displayed in place of the 00 PCL READY (or 00 PS READY) message when the printer has printed 200,000 pages. When you have completed the preceding replacement procedures, clear the display message as follows:

1. Press the **On Line** key, if necessary, to take the printer off line.
2. Hold down the **Menu** key until PCL CONFIG MENU appears, quickly followed by the SYS=HP-PCL\* message. (If your printer is currently configured for PostScript, you will see PS CONFIG MENU, quick followed by the SYS=POSTSCRIPT\* message.)
3. Press (*do not hold*) the **Menu** key several times to scroll through the Configuration Menu selections until you reach SERVICE MSG=ON\*.
4. Press the **+** or **-** key to change the message to SERVICE MSG=OFF.
5. Press the **Enter/Reset Menu** key to turn the message OFF. An asterisk (\*) appears after your choice.
6. Return the printer on line.



