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# LASERJET PRO M1530 MFP SERIES

## Service Manual



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# HP LaserJet Pro M1530 MFP Series

Service Manual

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## Conventions used in this guide

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 **TIP:** Tips provide helpful hints or shortcuts.

 **NOTE:** Notes provide important information to explain a concept or to complete a task.

 **CAUTION:** Cautions indicate procedures that you should follow to avoid losing data or damaging the product.

 **WARNING!** Warnings alert you to specific procedures that you should follow to avoid personal injury, catastrophic loss of data, or extensive damage to the product.

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# 1 Removal and replacement

- [Introduction](#)
- [Removal and replacement strategy](#)
- [Electrostatic discharge](#)
- [Required tools](#)
- [Service approach](#)
- [Removal and replacement procedures](#)

# Introduction

This chapter describes the removal and replacement of field-replaceable units (FRUs) only.

Replacing FRUs is generally the reverse of removal. Occasionally, notes and tips are included to provide directions for difficult or critical replacement procedures.

HP does *not* support repairing individual subassemblies or troubleshooting to the component level.

Note the length, diameter, color, type, and location of each screw. Be sure to return each screw to its original location during reassembly.

Incorrectly routed or loose wire harnesses can interfere with other internal components and can become damaged or broken. Frayed or pinched harness wires can be difficult to find. When replacing wire harnesses, always use the provided wire loops, lance points, or wire-harness guides and retainers.

## Removal and replacement strategy

---

 **WARNING!** Turn the product off, wait 5 seconds, and then remove the power cord before attempting to service the product. If this warning is not followed, severe injury can result, in addition to damage to the product. The power must be on for certain functional checks during troubleshooting. However, disconnect the power supply during parts removal.

Never operate or service the product with the protective cover removed from the laser/scanner assembly. The reflected beam, although invisible, can damage your eyes.

The sheet-metal parts can have sharp edges. Be careful when handling sheet-metal parts.

 **CAUTION:** Do not bend or fold the flat flexible cables (FFCs) during removal or installation. Also, do not straighten pre-folds in the FFCs. You *must* fully seat all FFCs in their connectors. Failure to fully seat an FFC into a connector can cause a short circuit in a PCA.

 **NOTE:** To install a self-tapping screw, first turn it counterclockwise to align it with the existing thread pattern, and then carefully turn it clockwise to tighten. Do not overtighten. If a self-tapping screw-hole becomes stripped, repair the screw-hole or replace the affected assembly.

 **TIP:** For clarity, some photos in this chapter show components removed that would not be removed to service the product. If necessary, remove the components listed at the beginning of a procedure before proceeding to service the product.

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# Electrostatic discharge

- △ **CAUTION:**  Some parts are sensitive to electrostatic discharge (ESD). Look for the ESD reminder when removing product parts. Always perform service work at an ESD-protected workstation or mat, or use an ESD strap. If an ESD workstation, mat, or strap is not available, ground yourself by touching the sheet-metal chassis *before* touching an ESD-sensitive part.

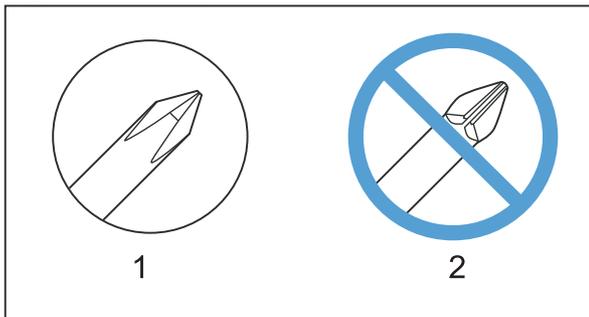
Protect the ESD-sensitive parts by placing them in ESD pouches when they are out of the product.

## Required tools

- #2 Phillips screwdriver with a magnetic tip and a 152-mm (6-in) shaft length
- Small flat-blade screwdriver
- Needle-nose pliers
- ESD mat or ESD strap (if one is available)
- Penlight (optional)

- △ **CAUTION:** Always use a Phillips screwdriver (callout 1). Do not use a Pozidriv screwdriver (callout 2) or any motorized screwdriver. These can damage screws or screw threads.

**Figure 1-1** Phillips and Pozidriv screwdriver comparison



## Service approach

### Before performing service

- Remove all paper from the product.
- Turn off the power using the power switch.
- Unplug the power cable and interface cable or cables.
- Place the product on an ESD workstation or mat, or use an ESD strap (if one is available). If an ESD workstation, mat, or strap is not available, ground yourself by touching the sheet-metal chassis *before* touching an ESD-sensitive part.
- Remove the print cartridge.

## After performing service

- Plug in the power cable.
- Reinstall the print cartridge.
- Load paper in the product.

## Post-service test

Perform the following test to verify that the repair or replacement was successful.

### Print-quality test

1. Verify that you have completed the necessary reassembly steps.
2. Make sure that the tray contains clean, unmarked paper.
3. Attach the power cord and interface cable or interface cables, and then turn on the product.
4. Verify that the expected startup sounds occur.
5. Print a configuration page, and then verify that the expected printing sounds occur.
6. Print a demo page, and then verify that the print quality is as expected.
7. Send a print job from the host computer, and then verify that the output meets expectations.
8. Clean the outside of the product with a damp cloth.

## Parts removal order

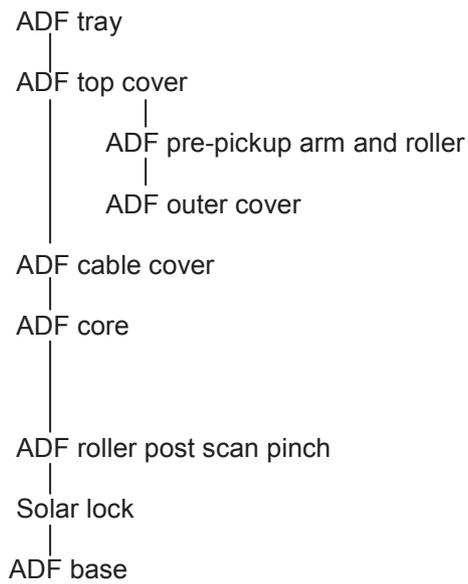
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 **NOTE:** In the following list, parts shown with blue text should be removed only in a clean-room environment. See the Service Manual Addendum for details about removing and replacing these parts.

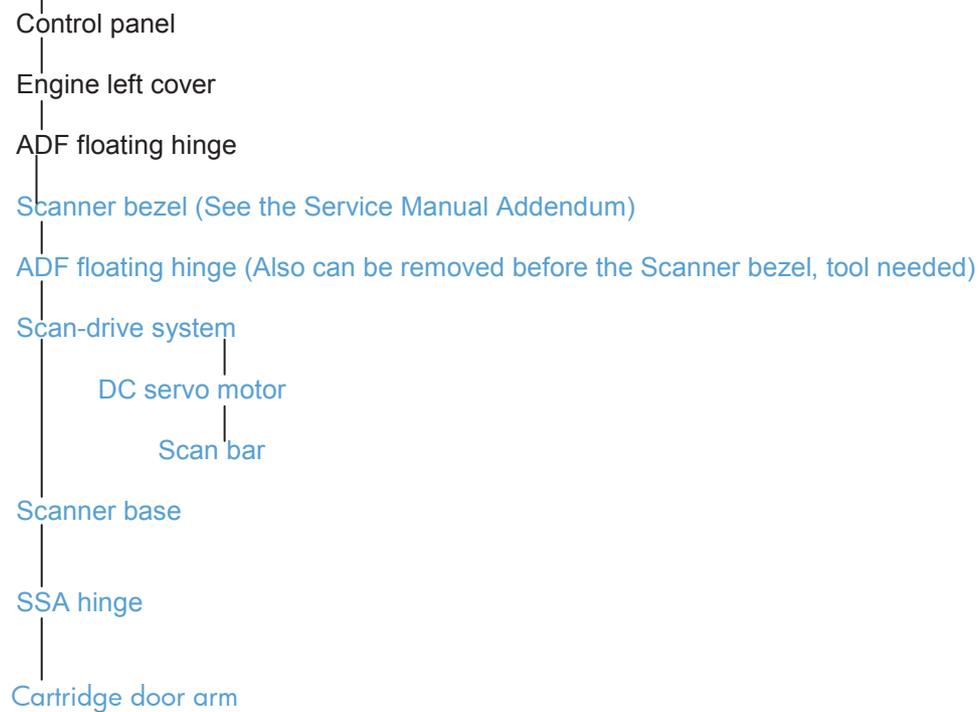
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**Figure 1-2** Parts removal order: Scanner and document feeder

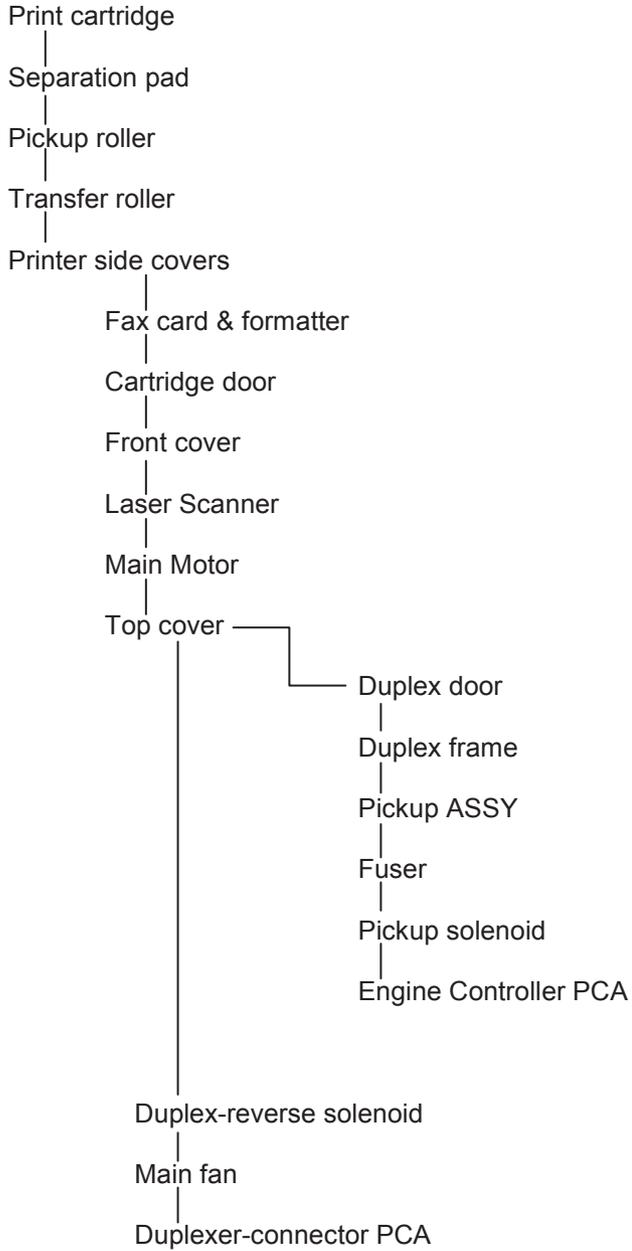
Automatic document feeder assembly



Scanner assembly



**Figure 1-3** Parts removal order: Product base



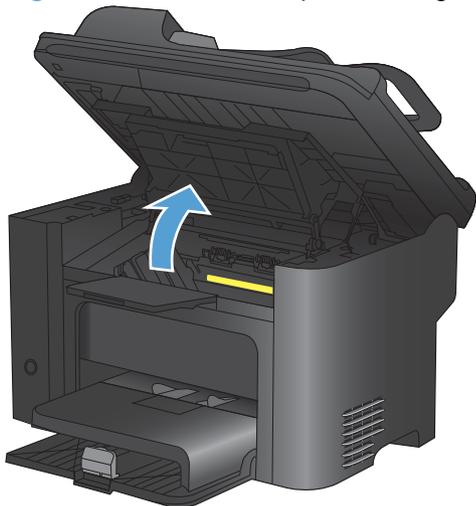
# Removal and replacement procedures

 **NOTE:** Many of the figures in the following procedures show the product with the scanner assembly removed. However, removal of the scanner assembly is necessary only when specified in the steps.

## Print cartridge

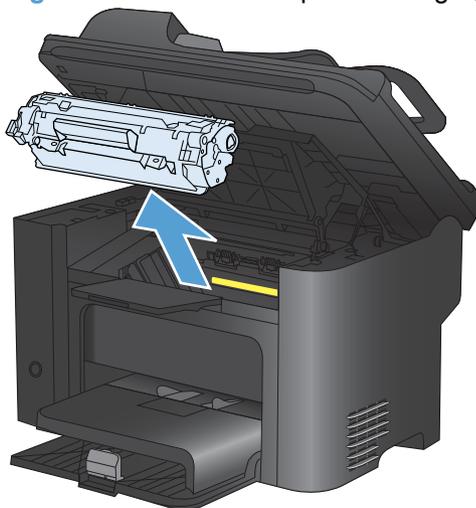
1. Lift the scanner assembly, and then open the cartridge door.

**Figure 1-4** Remove the print cartridge (1 of 2)



2. Remove the print cartridge.

**Figure 1-5** Remove the print cartridge (2 of 2)

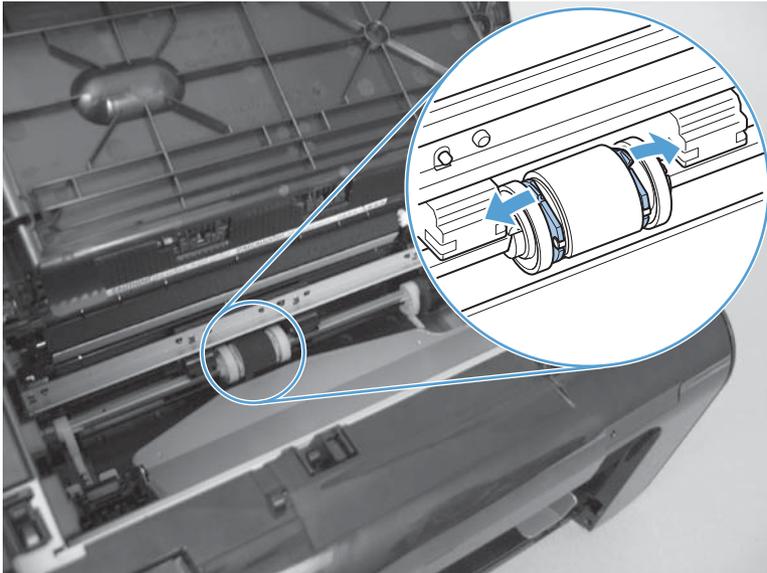


## Pickup roller

△ **CAUTION:** Do not touch the sponge portion of the roller. Skin oils can cause paper handling problems.

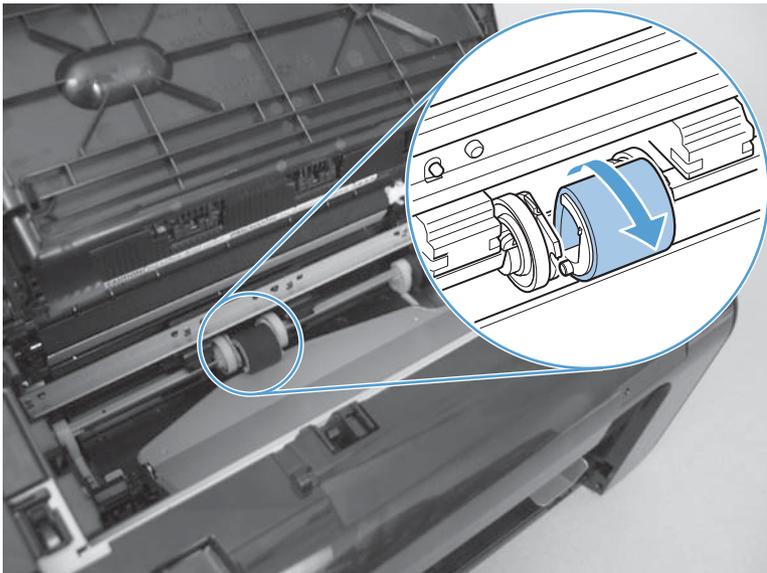
1. Remove the print cartridge. See [Print cartridge on page 7](#).
2. Release the two tabs between the wheels and the sides of the pick up roller.

**Figure 1-6** Remove the pickup roller (1 of 2)



3. Rotate the roller away from the product to remove it.

**Figure 1-7** Remove the pickup roller (2 of 2)



## Separation pad

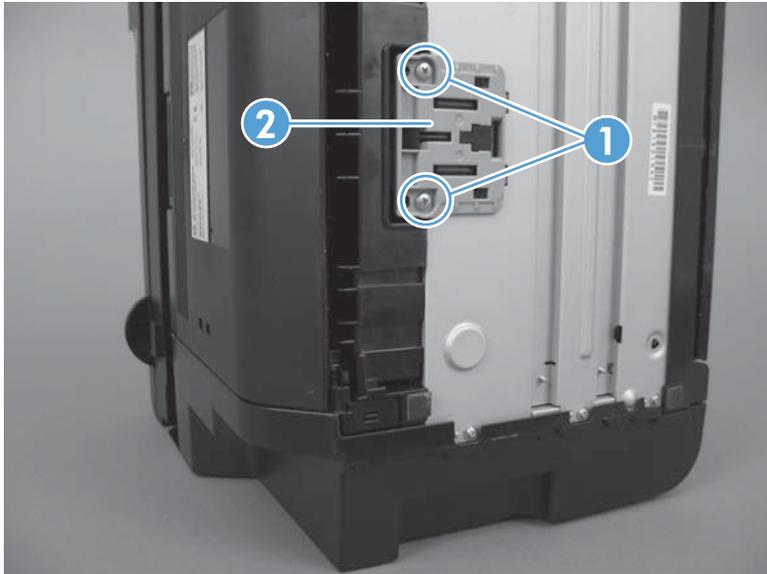
△ **CAUTION:** Do not touch the sponge portion of the pad. Skin oils can cause paper handling problems.

1. Place the product on its side to access the separation pad assembly.

△ **CAUTION:** Do not scratch the product covers. Place the product on a cloth or other clean surface to avoid scratches from dirt and debris.

2. Remove two screws (callout 1), and then remove the separation pad assembly (callout 2).

**Figure 1-8** Remove the separation pad assembly

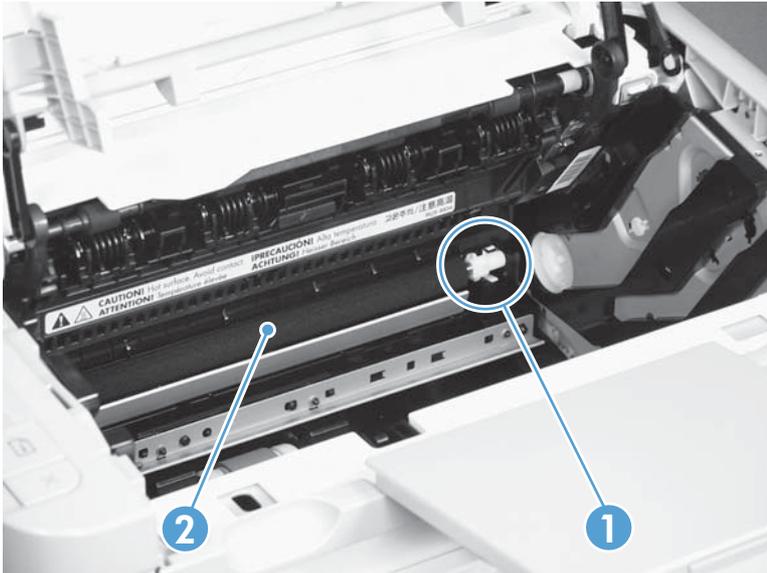


## Transfer roller

△ **CAUTION:** Do not touch the sponge portion of the roller. Skin oils can cause print quality problems.

1. Remove the print cartridge. See [Print cartridge on page 7](#).
2. Release two tabs (callout 1), and then remove the transfer roller (callout 2).

**Figure 1-9** Remove the transfer roller



## Covers

### Main tray

Open the tray, carefully flex the tray to release the hinges, and then remove the tray.

**Figure 1-10** Remove the tray

