# Product End-of-Life Disassembly Instructions

## Marketing Name / Model

[List multiple models if applicable.]

- HP Officejet Pro X451dn/ CN459A
- HP Officejet Pro X451dw/CN463A
- HP Officejet Pro X551dw/CV037A

## Purpose:
The document is intended for use by end-of-life recyclers or treatment facilities. It provides the basic instructions for the disassembly of HP products to remove components and materials requiring selective treatment, as defined by EU directive 2002/96/EC, Waste Electrical and Electronic Equipment (WEEE).

## 1.0 Items Requiring Selective Treatment

1.1 Items listed below are classified as requiring selective treatment.
1.2 Enter the quantity of items contained within the product which require selective treatment in the right column, as applicable.

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Notes</th>
<th>Quantity of items included in product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Printed Circuit Boards (PCB) or Printed Circuit Assemblies (PCA)</td>
<td>With a surface greater than 10 sq cm</td>
<td>2</td>
</tr>
<tr>
<td>Batteries</td>
<td>All types including standard alkaline and lithium coin or button style batteries</td>
<td>1</td>
</tr>
<tr>
<td>Mercury-containing components</td>
<td>For example, mercury in lamps, display backlights, scanner lamps, switches, batteries</td>
<td>1</td>
</tr>
<tr>
<td>Liquid Crystal Displays (LCD) with a surface greater than 100 sq cm</td>
<td>Includes background illuminated displays with gas discharge lamps</td>
<td>1</td>
</tr>
<tr>
<td>Cathode Ray Tubes (CRT)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capacitors / condensers (Containing PCB/PCT)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electrolytic Capacitors / Condensers measuring greater than 2.5 cm in diameter or height</td>
<td>located in power supply</td>
<td></td>
</tr>
<tr>
<td>External electrical cables and cords</td>
<td>power cord</td>
<td>1</td>
</tr>
<tr>
<td>Gas Discharge Lamps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plastics containing Brominated Flame Retardants weighing &gt; 25 grams (not including PCBs or PCAs already listed as a separate item above)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Components and parts containing toner and ink, including liquids, semi-liquids (gel/paste) and toner</td>
<td>Include the cartridges, print heads, tubes, vent chambers, and service stations.</td>
<td>4</td>
</tr>
<tr>
<td>Components and waste containing asbestos</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Components, parts and materials containing refractory ceramic fibers</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Components, parts and materials containing radioactive substances

2.0 Tools Required

List the type and size of the tools that would typically be used to disassemble the product to a point where components and materials requiring selective treatment can be removed.

<table>
<thead>
<tr>
<th>Tool Description</th>
<th>Tool Size (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Torx screw driver</td>
<td>T6, T8, T10</td>
</tr>
<tr>
<td>Flat blade screw driver</td>
<td></td>
</tr>
<tr>
<td>Needle nose pliers</td>
<td></td>
</tr>
<tr>
<td>Locking pliers</td>
<td></td>
</tr>
</tbody>
</table>

3.0 Product Disassembly Process

3.1 List the basic steps that should typically be followed to remove components and materials requiring selective treatment:

1. Remove ink cartridges, if applicable.
2. Remove case parts and sort according to plastic part markings
4.  
5.  
6.  
7.  
8.  

3.2 Optional Graphic. If the disassembly process is complex, insert a graphic illustration below to identify the items contained in the product that require selective treatment (with descriptions and arrows identifying locations).
1. Open the left door.

Figure 1-10  Remove the duplex module (1 of 2)

2. Using both hands, pull the duplex module out of the product.

Figure 1-11  Remove the duplex module (2 of 2)

NOTE: When pulling out the duplex module, avoid making direct contact with the black cylinder to prevent ink smear on skin or clothes.
Web wipe assembly

1. Remove the following components:
   - Rear cover.
   - Left door.
   - Left rear cover.
2. On the front of the product, locate the printbar lock mount (callout 1).

Figure 1-62 Remove the web wipe assembly (1 of 6)
3. Insert the printbar lift lock tool into the printbar lock mount, rotate the tool counter-clockwise, and then push in the locking disc to secure the printbar in place. Not required for recycling or disposal.

**CAUTION:** The printbar lift lock tool must remain in place until either the printbar is removed, or the web wipe assembly is reinstalled in the product. If the printbar drops to the bottom of the product, the printbar might be damaged. Pliers can be used for recycling or disposal.

**Figure 1-63** Remove the web wipe assembly (2 of 6)

4. Locate the web wipe cartridge drive shaft (callout 1).

**Figure 1-64** Remove the web wipe assembly (3 of 6)
5. Mount the web wipe advance tool on the drive shaft. Unnecessary for recycling or disposal. Use pliers.

**Figure 1-65** Remove the web wipe assembly (4 of 6)

6. Turn the tool clockwise to advance the service sled fully forward.

**Figure 1-66** Remove the web wipe assembly (5 of 6)
7. Lift the web wipe cartridge from the product.

**Figure 1-67** Remove the web wipe assembly (6 of 6)

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Web wipe advance assembly

1. Remove the following components:
   - Web wipe assembly.
   - Right cross brace.

2. Remove one screw (callout 1) from behind the flag.

**Figure 1-68** Remove the web wipe advance assembly (1 of 2)

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Align the service sled with the case part.
3. Remove the assembly.

**Figure 1-69** Remove the web wipe advance assembly (2 of 2)

## Right cross brace

1. Remove the following components:

   - Rear cover.
   - Left door.
   - Left rear cover.
   - Left front cover.
   - Top cover.
   - Front cover.
2. Remove two screws (callout 1) from the front of the product.

Figure 1-70 Remove the right cross brace (1 of 4)

3. Remove two screws (callout 1) from the rear of the product.

Figure 1-71 Remove the right cross brace (2 of 4)
4. Remove the brace.

Figure 1-72 Remove the right cross brace (3 of 4)

Figure 1-73 Remove the right cross brace (4 of 4)

Plate console left

1. Remove the following components:
   - Rear cover.
   - Left door.
   - Left rear cover.
2. Remove five screws (callout 1), and then remove the brace (callout 2).

**Figure 1-74** Remove the plate console left

**Plate console right**

1. Remove the following components:
   - Rear cover.
   - Left door.
   - Left rear cover.
   - Left front cover.
   - Top cover.
2. Disconnect the output door sensor flex cable connection (callout 1), and then unthread the cable (callout 2) from the product frame.

Figure 1-75 Remove the plate console right (1 of 2)

3. Remove five screws (callout 1), and then remove the brace (callout 2).

Figure 1-76 Remove the plate console right (2 of 2)

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**Printbar**

1. Remove the following components:
   - Web wipe cartridge.
   - Web wipe advance.
   - Right cross brace.
2. Install the nozzle “helmet” on the printbar to protect the ink nozzles. Unnecessary for recycling or disposal.

   Figure 1-77  Remove the printbar (1 of 12)

3. Install the printbar dolly. Unnecessary for recycling or disposal.
   a. Locate the service sled guides (callout 1).

   Figure 1-78  Remove the printbar (2 of 12)
b. Place the dolly (callout 1) on the guides.

*Figure 1-79* Remove the printbar (3 of 12)

![Figure 1-79](image)

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c. Push the dolly into the product until it reaches the back.

*Figure 1-80* Remove the printbar (4 of 12)

![Figure 1-80](image)
4. Disconnect three printbar flex cables (callout 1).

**Figure 1-81** Remove the printbar (5 of 12)

5. Unthread the three flex cables through the ferrite holder (callout 1).

**Figure 1-82** Remove the printbar (6 of 12)
6. Use a screwdriver to remove the flex cable retainer (callout 1) from the product.

**Figure 1-83** Remove the printbar (7 of 12)

7. Unthread all three of the printbar cables through the front frame of the product.

**Figure 1-84** Remove the printbar (8 of 12)

8. Gently remove the printbar lift lock tool to lower the printbar onto the dolly.
9. Locate both lift guides (callout 1) on the top left of the product.

Figure 1-85 Remove the printbar (9 of 12)

10. Hold back the latch (callout 1).

Figure 1-86 Remove the printbar (10 of 12)
11. Pull each lift guide up to remove.

⚠️ **CAUTION:** The lift guides are greasy.

**Figure 1-87** Remove the printbar (11 of 12)

12. Slide the dolly (callout 1) forward, away from the product, to remove the printbar assembly (callout 2).

**Figure 1-88** Remove the printbar (12 of 12)