Product End-of-Life Disassembly Instructions

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 qty 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>3 or 4 (main sys bd, 2 or 3 power supply)</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></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></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></td>
<td>5, 8, or 4 depending on power supply</td>
</tr>
<tr>
<td>External electrical cables and cords</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas Discharge Lamps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plastics containing Brominated Flame Retardants</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></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>
<tr>
<td>Components, parts and materials containing radioactive substances</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## 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>Description #1 Phillips screwdriver</td>
<td></td>
</tr>
<tr>
<td>Description #2 Dikes</td>
<td></td>
</tr>
<tr>
<td>Description #3 Torx screwdriver</td>
<td>T-15</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. To remove the access panel (see Figure 1):
   a. Push down on the button (1) to release the latch that secures the access panel to the computer chassis.
   b. Slide the access panel back (2) about 1.3-cm (1/2-inch), then lift it off the chassis.

1. Remove or cut all expansion cards, cables, wires, and any other devices from the system board.

2. To remove the power supply, lift the green locking lever (1) and slide the power supply toward the front of the chassis then lift the power supply straight up (see Figure 2).

4. To remove the system board:
   a. Remove the fan shroud (duct) from the chassis by lifting it up to remove it from the computer.
   b. Remove the four screws from the CPU heatsink, and then lift it up to remove it from the computer.
   c. Remove the optical drive by pressing down on the lever to the left of the drive, sliding the drive back until it stops, and then lifting it straight up and out of the drive bay.
   d. Rotate the optical drive retainer to its upright position.
   e. Remove the system board retaining screws (1), slide the board toward the front of the chassis, then lift the board from the chassis (2) (see Figure 3).

3. To remove the battery: Locate the battery and battery holder on the system board. Depending on the type of battery holder on the system board, complete the following instructions to remove the battery:
   a. Type 1 BATTERY HOLDER (see Figure 4): Lift the battery out of the holder.
   b. Type 2 BATTERY HOLDER (see Figure 5): To release the battery from its holder, squeeze the metal clamp that extends above one edge of the battery. When the battery pops up, lift it out.
   c. Type 3 BATTERY HOLDER (see Figure 6): Pull back on the clip that holds the battery in place, and then remove the battery.

4. To remove the power supply PCA: HP uses three different power supplies from three different vendors in these computers. Use the following steps to determine which power supply you have and its required disassembly procedures.

**POWER SUPPLY 1**
   a. Remove five screws from the top the power supply (see Figure 7).
   b. Remove the three screws from the bottom of the power supply (see Figure 8).
   c. Cut the plastic tie that secures the wires to the cover (see Figure 8).
   d. Remove the cover from the power supply.
   e. Remove one screw from the black plastic piece on the top of the inside of the power supply (see Figure 9).
   f. Remove the remaining three screws from the PCA on the top of the inside of the power supply (see Figure 10).
   g. Cut all wires from the top PCA.
h. Remove the top PCA from the power supply.
i. Cut the two large capacitors from the PCA (see Figure 11).
j. Remove two screws from the black plastic piece on the bottom of the inside of the power supply (see Figure 12).
k. Remove the remaining two screws from the PCA on the bottom of the inside of the power supply (see Figure 13).
l. Cut all wires from the bottom PCA.
m. Remove the PCA from the power supply.
n. Cut three capacitors (see Figure 14).

POWER SUPPLY 2
a. Remove five screws from the top the power supply (see Figure 15).
b. Remove the three screws from the bottom of the power supply (see Figure 16).
c. Cut the plastic tie that secures the wires to the cover (see Figure 16).
d. Remove the cover from the power supply.
e. Remove the two screws from the PCA on the top of the inside of the power supply (see Figure 17).
f. Cut all wires from the top PCA.
g. Remove the top PCA from the power supply.
h. Remove the four screws from the PCA on the bottom of the inside of the power supply (see Figure 18).
i. Cut all wires from the bottom PCA.
m. Remove the PCA from the power supply.
n. Cut eight capacitors (see Figure 19).

POWER SUPPLY 3
a. Remove five screws from the top the power supply (see Figure 20).
b. Remove the three screws from the bottom of the power supply (see Figure 21).
c. Cut the plastic tie that secures the wires to the cover (see Figure 21).
d. Remove the cover from the power supply.
e. Remove the four screws from the PCA on the top of the inside of the power supply (see Figure 22).
f. Cut all wires from the top PCA.
g. Remove the top PCA from the power supply.
h. Cut the two large capacitors from the PCA (see Figure 23).
i. Remove the four screws from the PCA on the bottom of the inside of the power supply (see Figure 24).
j. Cut all wires from the bottom PCA.
k. Remove the PCA from the power supply.
l. Cut two capacitors and the small PCA (see Figure 25).

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).
FIGURE 1: Removing the access panel

FIGURE 2: Removing the power supply

FIGURE 3: Removing the system board
FIGURE 9: Power supply 1 – Remove screw from top black plastic piece

FIGURE 10: Power supply 1 – Remove screws from top PCA
FIGURE 11: Power supply 1 – Cut capacitor from top PCA

FIGURE 12: Power supply 1 – Remove screws from bottom black plastic piece
FIGURE 13: Power supply 1 – Remove screws from bottom PCA

FIGURE 14: Power supply 1 – Capacitors (3) to cut
FIGURE 19: Power supply 2 – Cut capacitors (8)

FIGURE 20: Power supply 3 – Cover screw locations
FIGURE 21: Power supply 3 – Cover screw and plastic tie locations

FIGURE 22: Power supply 3 – Remove screws from top PCA