



Product End-of-Life Disassembly Instructions

Product Category: Personal Computers

Marketing Name / Model

[List multiple models if applicable.]

Name / Model #1: HP Compaq dx2290 Business PC

Name / Model #2

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.

Item Description	Notes	Quantity of items included in product
Printed Circuit Boards (PCB) or Printed Circuit Assemblies (PCA)	With a surface greater than 10 sq cm	2 or 3 (1 sys board, 1 or 2 P/S PCAs)
Batteries	All types including standard alkaline and lithium coin or button style batteries	1
Mercury-containing components	For example, mercury in lamps, display backlights, scanner lamps, switches, batteries	
Liquid Crystal Displays (LCD) with a surface greater than 100 sq cm	Includes background illuminated displays with gas discharge lamps	
Cathode Ray Tubes (CRT)		
Capacitors / condensers (Containing PCB/PCT)		
Electrolytic Capacitors / Condensers measuring greater than 2.5 cm in diameter or height		6 or 8
External electrical cables and cords		
Gas Discharge Lamps		
Plastics containing Brominated Flame Retardants		
Components and parts containing toner and ink, including liquids, semi-liquids (gel/paste) and toner	Include the cartridges, print heads, tubes, vent chambers, and service stations.	
Components and waste containing asbestos		
Components, parts and materials containing refractory ceramic fibers		
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.

Tool Description	Tool Size (if applicable)
Description #1 Phillips screwdriver	
Description #2 Dikes	
Description #3 Torx screwdriver	T-15
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. Loosen the screw (A) that secures the side panel to the PC chassis.
 - b. Use the handle to slide the access panel back about 2.5cm (1 inch), and then lift it off the unit.

2. To remove the front bezel:
 - a. Pull the three tabs (B) away from the outside edge of the chassis (see Figure 2).
 - b. Swing the front panel away from the chassis toward the left to remove it (see Figure 3).

- 1 Remove or cut all expansion cards, cables, and any other devices from the system board.
4. To remove the system board (see Figure 4):
 - a. Remove the heatsink from the system board by loosening the four captive screws that secure the heatsink to the system board, and then lifting the heatsink from the system board.
 - b. Remove the eight screws that secure the system board to the chassis.
 - c. Slide the system board toward the front of the chassis then, angle the front of the board up to remove it.
- 2 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. TYPE 1 BATTERY HOLDER (see Figure 5): Lift the battery out of the holder. TYPE 2 BATTERY HOLDER (see Figure 6): 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. TYPE 3 BATTERY HOLDER (see Figure 7): Pull back on the clip that holds the battery in place, and then remove the battery.
6. To remove the power supply (see Figure 8):
 - a. Remove the four screws that secure the power supply to the chassis.
 - b. Slide the power supply toward the front of the computer, and then lift it out of the computer.
7. HP uses four different power supply vendors. See the instructions below to disassemble and remove required power supply components: POWER SUPPLY 1:
 - a. Using dikes, cut the plastic clamp that secures the wires to the power supply cover.
 - b. Using a phillips screwdriver, remove the five screws that secure the cover to the power supply chassis - three screws on one side, two screws on the other side (see Figures 9 & 10).
NOTE: You do not need to remove the screws from the fan guard or the power connector.
 - c. Slide the cover off the power supply.
 - d. Using dikes, cut all cables connecting the PCA to the power supply.
 - e. From the outside, remove the four screws that secure the power supply PCA to the chassis (see Figure 11).
 - f. Remove the power supply PCA from the power supply chassis.

g. Cut 8 capacitors from the PCA, as shown in Figure 12.

POWER SUPPLY 2:

- a. Using dikes, cut the plastic clamp that secures the wires to the power supply cover.
- b. Using a phillips screwdriver, remove the six screws that secure the cover to the power supply chassis - four screws

on top, two screws on the bottom (see Figure 13).

NOTE: You do not need to remove the screws from the fan guard or the power connector.

- c. Slide the cover off the power supply.
- d. Using dikes, cut all cables connecting the PCA to the power supply.
- e. Remove the four screws that secure the power supply PCA to the chassis (see Figure 14).
- f. Remove the power supply PCA from the power supply chassis.
- g. Cut the two small PCAs from the large PCA, as circled in Figure 15.
- h. Cut 8 capacitors from the large PCA, as shown in Figure 15.

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 front bezel - tabs

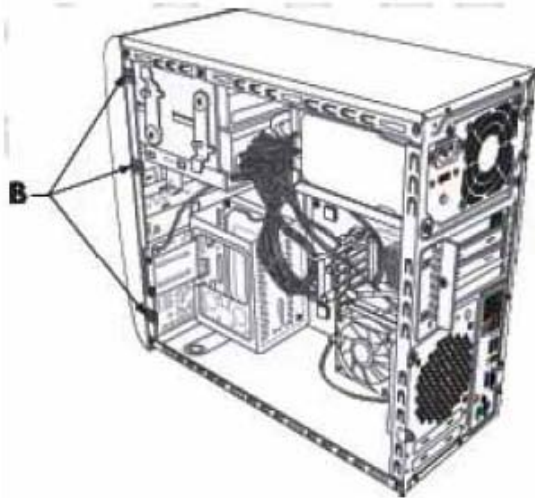


FIGURE 3: Removing the front bezel – pull from chassis

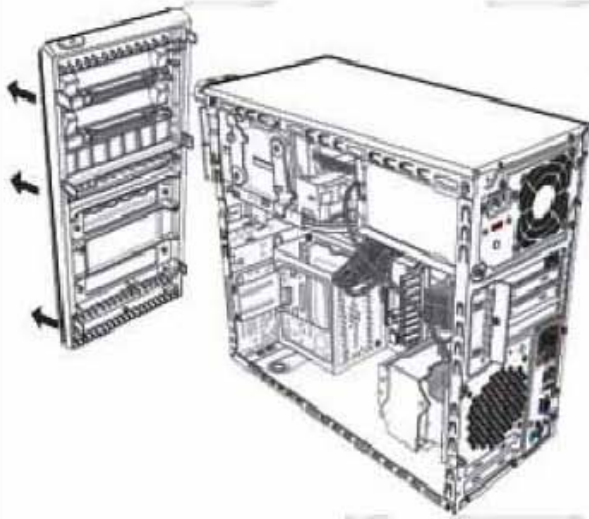


FIGURE 4: Removing the system board



FIGURE 5: Type 1 battery holder

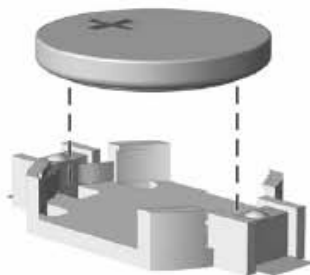


FIGURE 6: Type 2 battery holder

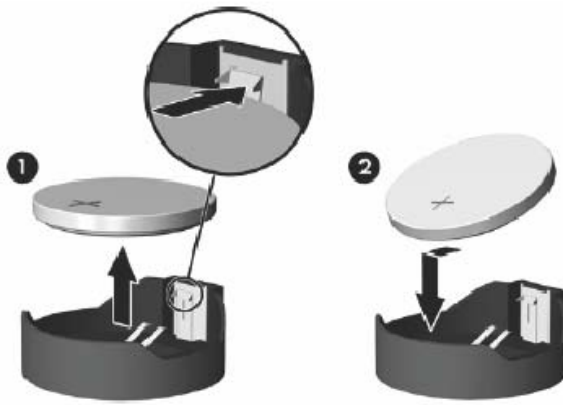


FIGURE 7: Type 3 battery holder



FIGURE 8: Removing the power supply



FIGURE 9: POWER SUPPLY 1: Screw locations

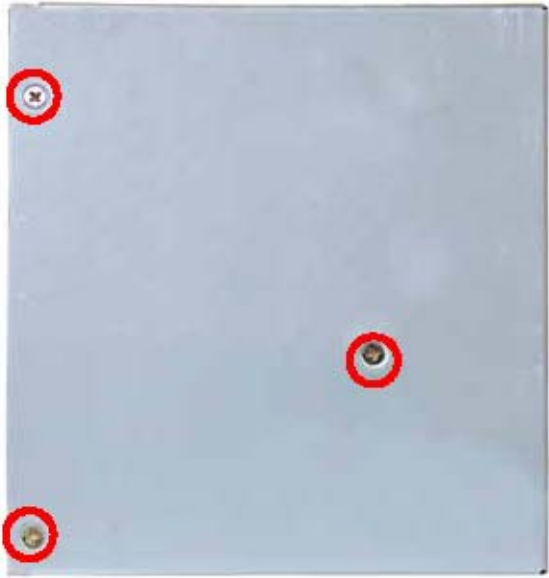


FIGURE 10: POWER SUPPLY 1: Screw locations

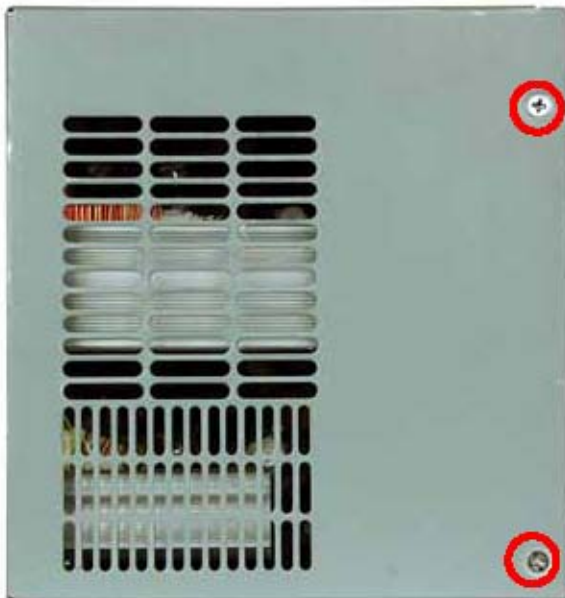


FIGURE 11: POWER SUPPLY 1: PCA screw locations

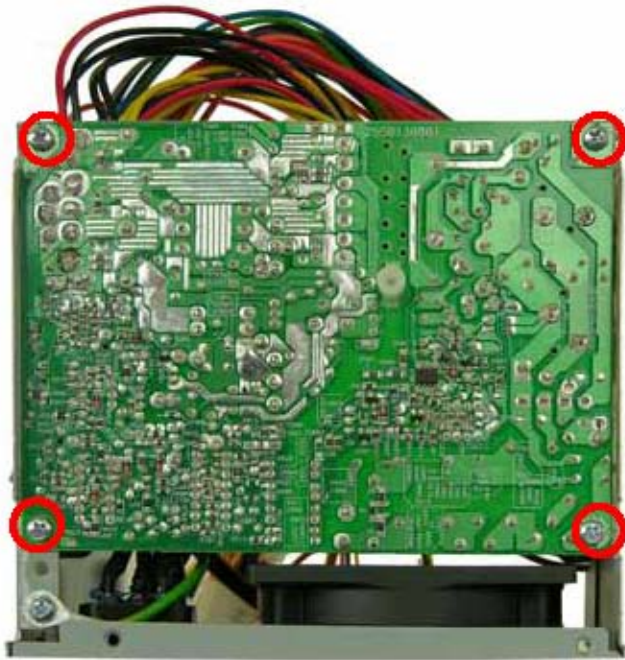


FIGURE 12: POWER SUPPLY 1: Capacitors (8) to cut

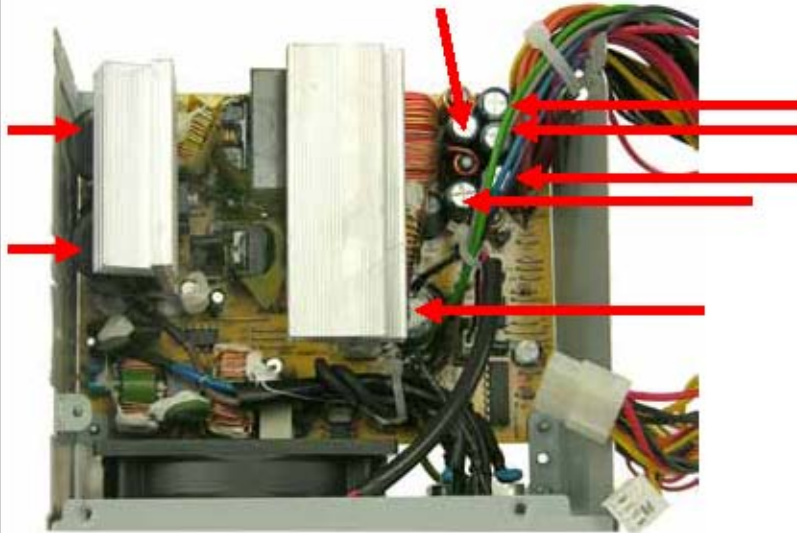


FIGURE 13: POWER SUPPLY 2. Screw locations



FIGURE 14: POWER SUPPLY 2. Large PCA screw locations

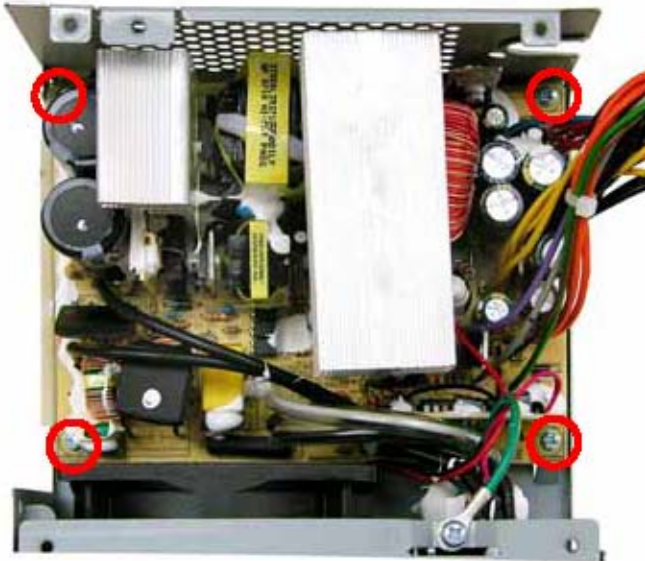


FIGURE 15: POWER SUPPLY 2: Capacitors (6) and small PCAs(2) to cut

