



## Appendix 3 Product End-of-Life Disassembly instructions

### Product Identification:

Marketing Name / Model	Description
HP Compaq Business PC dx2200	MT

**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.

### 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	Qty items in product
Printed Circuit Boards (PCB) or Printed Circuit Assemblies (PCA)	With a surface > 10 square cm	3 (1 sys board, 2 P/S board)
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	0
Liquid Crystal Displays (LCD) with a surface greater than 100 square cm	Includes background illuminated displays with gas discharge lamps	0
Cathode Ray Tubes (CRT)		0
Capacitors / condensers (Containing PCB / PCT)		0
Electrolytic Capacitors/Condensers greater than 2.5 cm in diameter or height		0
External electrical cables and cords		0
Gas Discharge Lamps		0
Plastics containing Brominated Flame Retardants		0
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.	0
Components and waste containing asbestos		0
Components, parts and materials containing refractory ceramic fibers		0
Components, parts and materials containing radioactive substances		0



**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)
Torx screwdriver	T15
Phillips screwdriver	
Diagonal cutters (dikes)	

**3.0 Product Disassembly Process**

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

<b>SYSTEM BOARD</b>	
1	Remove the access panel: a) Remove the two screws that secure the access panel to the computer chassis. b) Slide the access panel back about 6 mm (1/4 inch), then rotate the top of the panel away from the chassis (pivot on the bottom) and lift it off the unit
2	Remove the front bezel (see Figure 1 below): a) Pull outward on all three tabs on the left side of the bezel (1) b) Rotate the bezel off the chassis (2), beginning with the left side then the right side.
3	Disconnect the power, and data cables from the back of all installed drives.
4	Disconnect all cables from the system board.
5	Remove the heatsink from the system board (see Figure 2 below): a) Disconnect the heatsink control cable from the system board. b) Loosen the four captive screws that secure the heatsink to the system board. c) Lift the heatsink from atop the processor and set it on its side to keep from contaminating the work area with thermal grease.
6	Remove the six screws that secure the system board to the chassis (1) (see Figure 3 below):
7	Slide the system board towards the front of the chassis (2) then remove it (3) (see Figure 3 below).  NOTE: The system board in the computer may look slightly different from the one shown here.



<b>POWER SUPPLY PRINTED CIRCUIT ASSEMBLY</b>	
1	To remove the power supply (see Figure 4 below) <ul style="list-style-type: none"> <li>a) Remove all cables connected to all devices in the chassis.</li> <li>b) Using a phillips screwdriver, remove the four screws that secure the power supply to the chassis.</li> <li>c) Slide the power supply toward the front of the computer, and then lift it out of the chassis.</li> </ul>
2	To remove the cover from the power supply (see Figures 5 & 6 below): <ul style="list-style-type: none"> <li>a) Using a phillips screwdriver, remove the six screws that secure the cover to the power supply chassis.</li> <li>b) Using dikes, cut the plastic cable clamp that secures the cables to the chassis.</li> <li>c) Lift the cover off the power supply.</li> </ul>
3	To remove the power supply PCA: <ul style="list-style-type: none"> <li>a) Cut the plastic cable clamp that secures the cables to the chassis (see Figure 7 below).</li> <li>b) Remove the four screws that secure the power supply PCA to the chassis (see Figure 8 &amp; 9 below).</li> <li>c) Using diagonal cutters (dikes) cut all cables connected to the PCA (2 to switch, 2 to PC inlet, 2 to power supply fan) (see Figure 10 below).</li> <li>d) Remove the power supply PCA from the power supply chassis.</li> </ul>
<b>BATTERY</b>	
	Locate the battery and battery holder on the system board. Depending on the type of battery holder on the system board, follow the instructions below to remove the battery:
	<b>TYPE 1 BATTERY HOLDER</b> (see Figure 11 below)
	Lift the battery out of the holder.
	<b>TYPE 2 BATTERY HOLDER</b> (see Figure 12 below)
	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.
	<b>TYPE 3 BATTERY HOLDER</b> (see Figure 13 below)
	Pull back on the clip that holds the battery in place, and then remove the battery.



3.2 ILLUSTRATIONS

Figure 1: Removing the front bezel

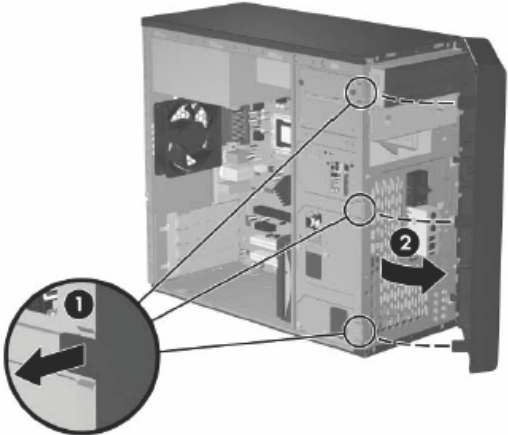


Figure 2: Removing the heatsink

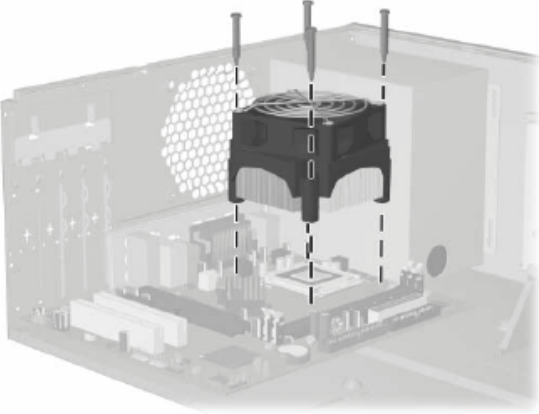


Figure 3: Removing the system board

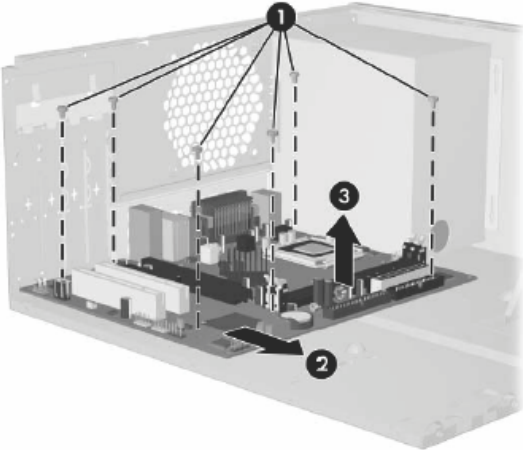


Figure 4: Power supply screw locations

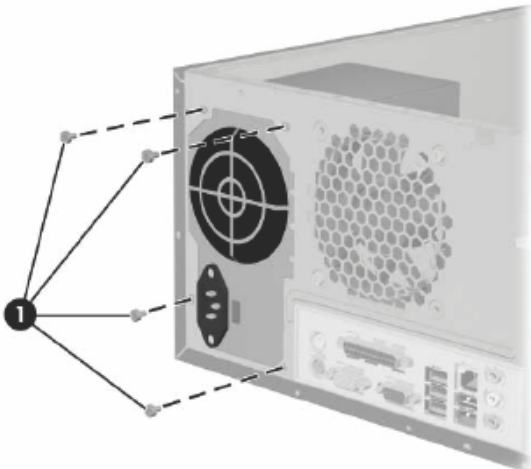


Figure 5: Cut the plastic cable clamp



Figure 6: Power supply cover screw locations



Figure 7: Cut the plastic cable clamp



Figure 8: Power supply PCA screw locations



Figure 9: Power supply PCA screw locations



Figure 10: Cut all cables connected to the board

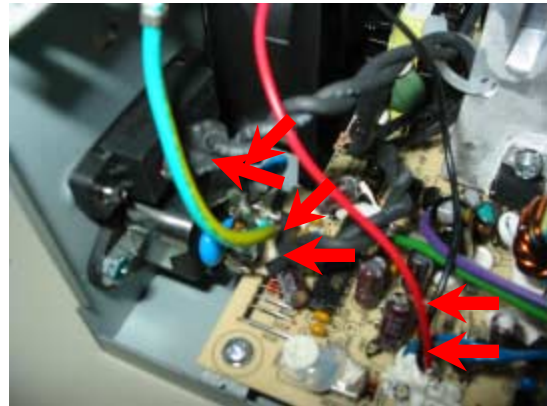




FIGURE 11: Type 1 battery holder

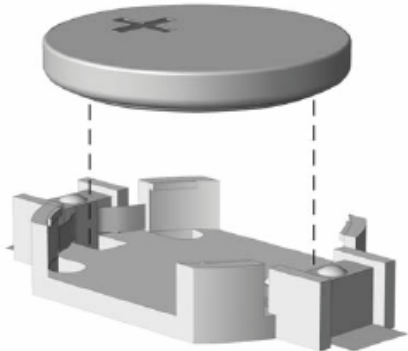


FIGURE 12: Type 2 battery holder



FIGURE 13: Type 3 battery holder

