



**Appendix 3 Product End-of-Life Disassembly instructions – rev a**

**Product Identification:**

Marketing Name / Model	Description
HP Compaq Business Desktop dc7100 Series- USDT	HP business desktop PC – Ultra-Slim Desktop

**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 greater than 10 square cm	2 (sys bd, power supply PCA)
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 square 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		4
External electrical cables and cords	PSU cables, IDE cables, SATA cables.	
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)
Flat blade screwdriver	
Torx screwdriver	
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:

SYSTEM BOARD	
1	If the PC is mounted in the accessory mounting stand, remove the stand and lay the computer down on its rubber feet (see Figure 1 below).
2	To remove the access panel (see Figure 2 below): a) Lay the computer down so the rubber feet rest on a solid surface. b) Loosen the captive thumbscrew that secures the access panel to the computer chassis. c) Slide the top access panel back about 1.3 cm (1/2 inch), and then lift it off the unit.
3	To remove a MultiBay device from the drive cage: a) To unlock the MultiBay device, push down on the green locking lever located on top of the MultiBay drive cage, then push the lever to the right (see Figure 3 below). b) Eject the MultiBay device by sliding the front-mounted eject lever to the left, and then pull the device out of the device bay (see Figure 4 below).
4	To remove the MultiBay riser card, grasp the green handle on top of the riser card assembly and lift it straight up (see Figure 5 below).
5	To remove the front panel assembly (see Figure 6 below): a) Lift up on the two green locking lever release tabs on the right side of the bezel. This will unlatch the front panel assembly and push it about 1.3 cm (1/2 inch) out of the chassis. b) Disconnect the fan cable from the system board. c) Remove the panel assembly by pulling it straight out of the chassis.
6	Remove the memory modules.
7	To remove the heatsink (see Figure 7 below): a) Disconnect the thermal sensor and heatsink fan cables from the system board. b) Unscrew the four screws that secure the heatsink to the system board, and then lift the heatsink from the system board.



<b>SYSTEM BOARD cont</b>	
8	<p>To remove the power supply (see Figure 8 below):</p> <ol style="list-style-type: none"> <li>Disconnect the power supply cable from the hard drive and the 6-pin power supply cable on the system board alongside the heatsink.</li> <li>Slide the power supply toward the front of the chassis about 1.3 cm (1/2 inch), and then slide the power supply toward the center of the chassis and rotate it up to access the main cable connection beneath it.</li> <li>Disconnect the power cable from the system board.</li> </ol> <p>NOTE: There are slots on the chassis that match with clips on the bottom of the power supply for positive retention.</p> <ol style="list-style-type: none"> <li>Remove the power supply from the chassis.</li> </ol>
9	Disconnect all cables connected to the system board.
10	<p>To remove the system board (see Figure 9 below):</p> <ol style="list-style-type: none"> <li>Remove the thumbscrew that secures the system board to the chassis.</li> <li>Slide the system board toward the front of the chassis, making sure that all keyhole retainers are clear before lifting the system board from the chassis.</li> </ol>
<b>BATTERY</b>	
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:	
<b>TYPE 1 BATTERY HOLDER</b> (see Figure 10 below)	
Lift the battery out of the holder.	
<b>TYPE 2 BATTERY HOLDER</b> (see Figure 11 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 12 below)	
Pull back on the clip that holds the battery in place, and then remove the battery.	
<b>POWER SUPPLY</b>	
1	Disconnect all power cables from all devices.
2	<p>Slide the power supply toward the front of the chassis about 1.3 cm (1/2 inch) then slide it toward the center of the chassis and rotate it up to access the main cable connection beneath it (see Figure 13 below).</p> <p>NOTE: There are slots on the chassis that match with clips on the bottom of the power supply for positive retention.</p>
3	Remove the power supply from the chassis.



<b>POWER SUPPLY PRINTED CIRCUIT ASSEMBLY</b>	
1	Remove the nine screws that secure the power supply cover. Note that eight of the screws are on the top, while one is on the back of the power supply (see Figures 14 & 15 below).
2	Snip the two plastic cable clamps that secure wires to the power supply chassis (see Figure 16 below).
3	Lift the cover off the power supply.
4	Using a pair of diagonal cutters (dikes), snip the black and white power connector wires (see Figure 17 below).
5	Remove the two screws that secure the printed circuit assembly to the chassis (see Figure 18 below).
6	Lift the PCA to gain access to the speaker wire.
7	Cut or unplug the speaker wire (see Figure 19 below).
8	Lift the PCA out of the chassis.
9	Cut the two green capacitors from the board (see Figure 20 below).
10	Cut or pry off the two large blue capacitors lying horizontally on the board (see Figure 20 below).

### 3.2 ILLUSTRATIONS

FIGURE 1: Removing the mounting stand



FIGURE 2: Removing the computer cover



FIGURE 3: Unlocking the MultiBay device



FIGURE 4: Ejecting the MultiBay device



FIGURE 5: Removing the riser card

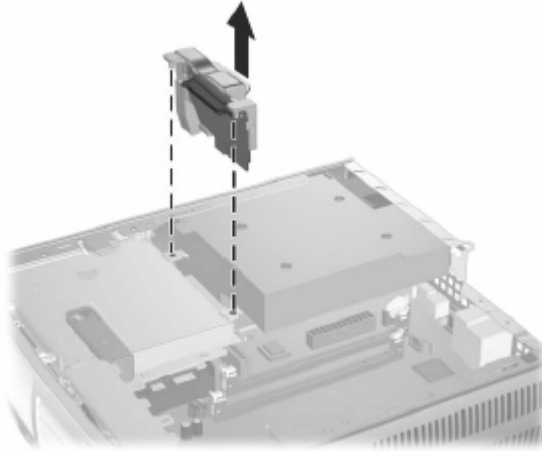


FIGURE 6: Removing the front panel assembly

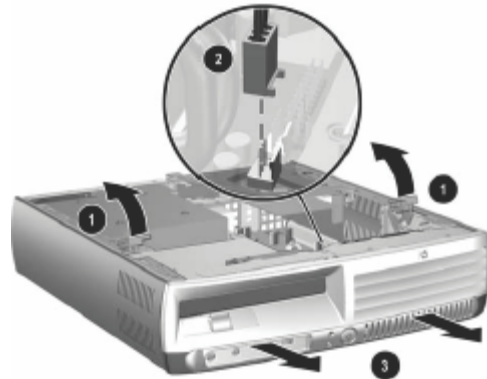


FIGURE 7: Removing the heatsink assembly

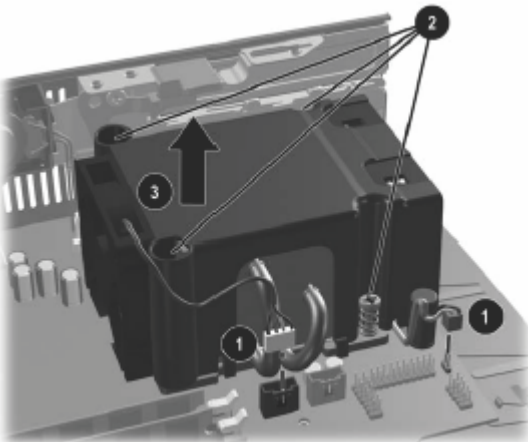


FIGURE 8: Removing the power supply

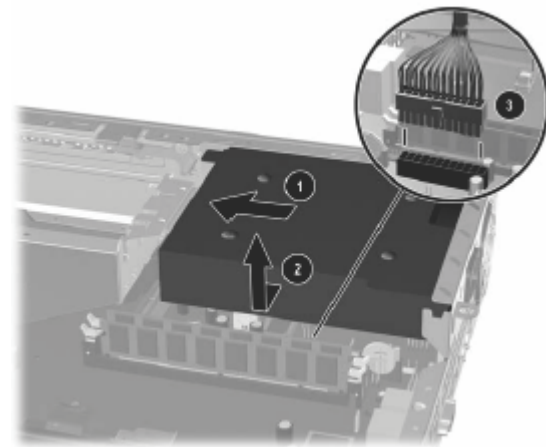


FIGURE 9: Removing the system board

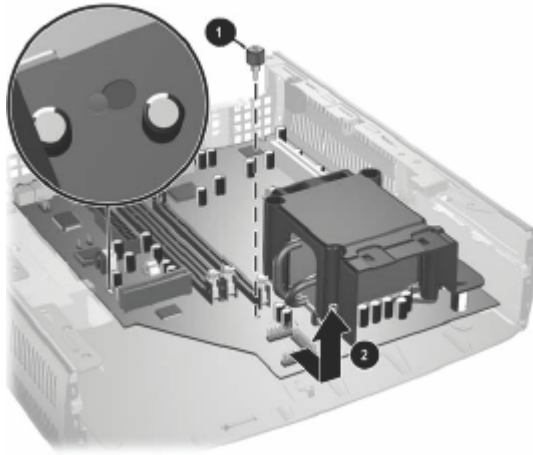


FIGURE 10: Type 1 battery holder

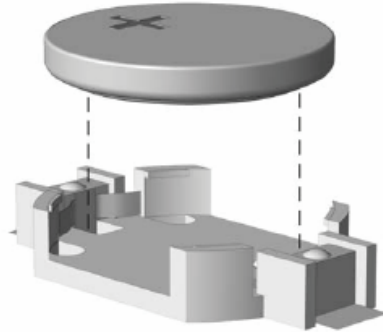


FIGURE 11: Type 2 battery holder



FIGURE 12: Type 3 battery holder

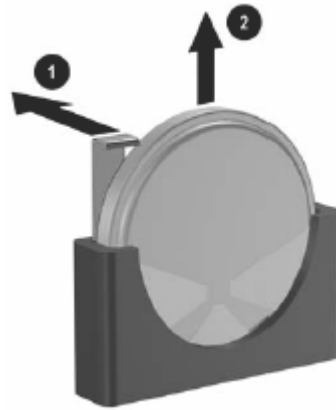




FIGURE 13: Removing the power supply

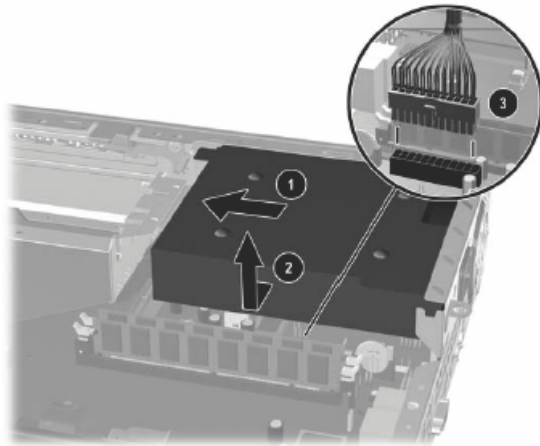


FIGURE 14: Power supply screw locations

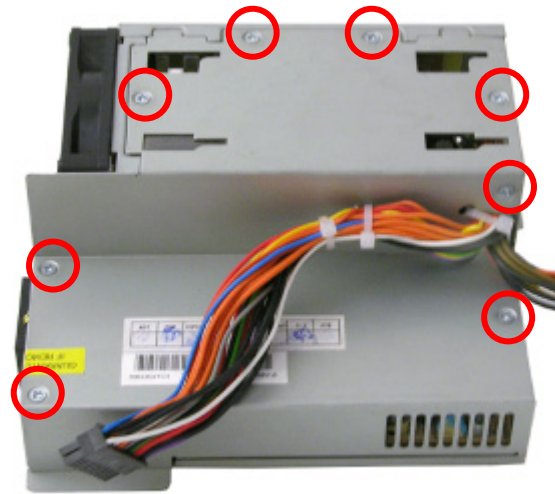


FIGURE 15: Power supply screw location

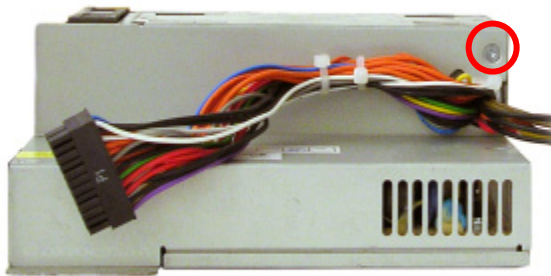


FIGURE 16: Cut plastic cable clamps

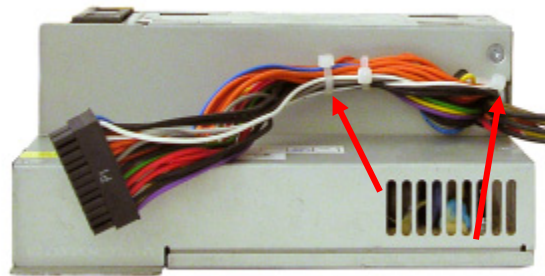


FIGURE 17: Cut black and white wires

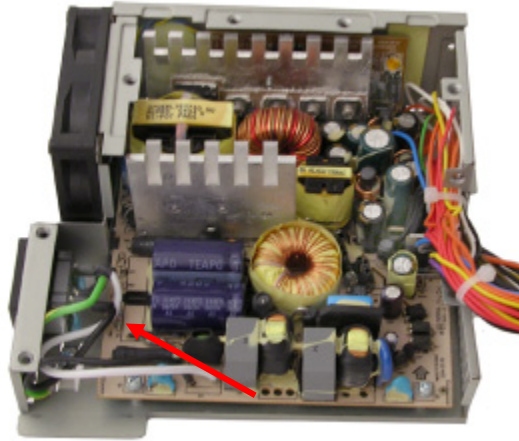


FIGURE 18: PCA screw locations

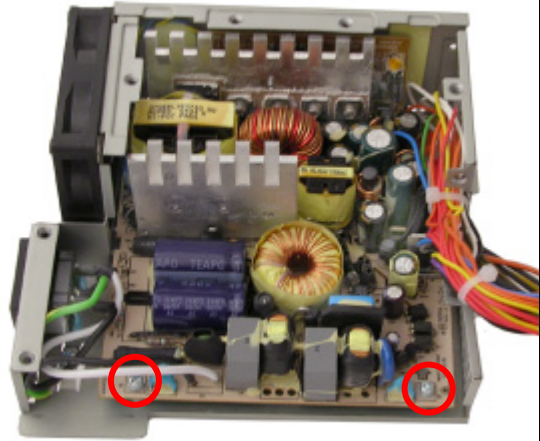


FIGURE 19: Cut or unplug speaker wire

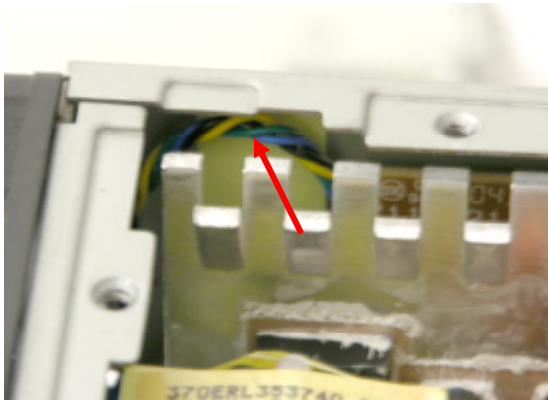


FIGURE 20: Cut two capacitors

