



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

#### Product Identification:

Marketing Name / Model	Description
HP Compaq Business Desktop dc5000 series - SFF	Small Form Factor chassis

**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 (system board, 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		1
External electrical cables and cords	PSU, IDE, 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	
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	To remove the access panel (see Figure 1 below): a) Pull up and hold open the latch on the top of the computer. b) Slide the computer access panel back about 0.5 inch (1.3 cm), and then lift it off the unit.
2	Remove all expansion cards, cables, and any other devices connected to the system board.
3	To remove the system board (see Figure 2 below): a) Compress the system board tray handle to release the latch. b) Slide the system board tray toward the front of the computer to free it from the back of the chassis. c) Lift the system board out of the chassis.
<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 3 below)	
Lift the battery out of the holder.	
<b>TYPE 2 BATTERY HOLDER</b> (see Figure 4 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>POWER SUPPLY</b>	
1	Rotate the drive cage to its upright position.
2	Carefully cut the cable tie that secures the power supply cable bundle to the power switch cable, the speaker cable, and the front I/O cable.
3	Disconnect all power cables from all devices.
4	Remove the three screws that secure the rear chassis panel to the chassis, and then pull the rear chassis panel straight back to remove it from the chassis (see Figure 5 below).
5	Slide the power supply out the back of the computer.
<b>POWER SUPPLY PRINTED CIRCUIT ASSEMBLY</b>	
1	Remove a total of nine screws from the power supply, as follows: <ul style="list-style-type: none"> <li>a) 4 black screws on the black side (see Figure 6 below)</li> <li>b) 3 screws on the gray side (opposite of the black side) (see Figure 7 below)</li> <li>c) 1 screw on the raised fan housing (see Figure 8 below)</li> <li>d) 1 on back near the wires (see Figure 8 below)</li> </ul>
2	Lift the fan so that the fan housing loosens from the power supply chassis (see Figure 9 below). This step allows you to more easily remove the power supply cover.
3	Pull the top cover off the power supply (see Figure 10 below). You must pull this cover out from under the fan housing to remove the cover.
4	Remove two screws from the fan (see Figure 11 below).
5	With a pair of diagonal cutters (dikes), cut the following wires (see Figure 12 below): <ul style="list-style-type: none"> <li>a) fan wires</li> <li>b) black and white wires on left</li> <li>c) green/yellow wire on left</li> <li>d) plastic wire tie wrap that secures the main set of wires</li> </ul>
6	Remove the three screws that connect the main printed circuit assembly to the power supply chassis (see Figure 13 below).
7	Lift the printed circuit assembly from the chassis.
8	Cut the green capacitor from the board (see Figure 14 below).

### 3.2 ILLUSTRATIONS

FIGURE 1: Removing the access panel



FIGURE 2: Removing the system board

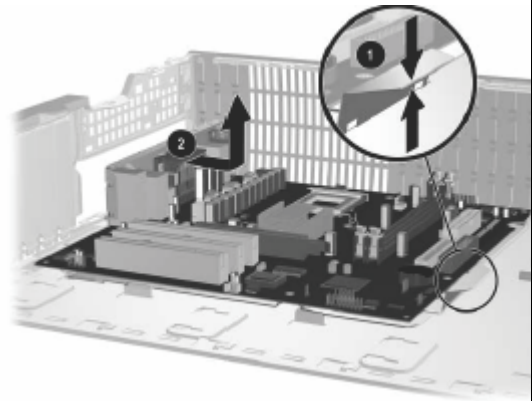


FIGURE 3: Type 1 battery holder

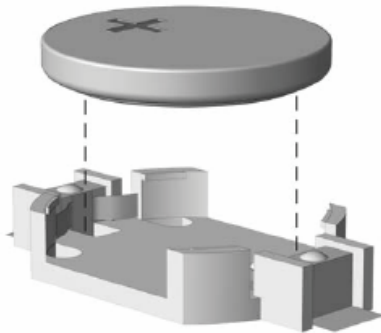


FIGURE 4: Type 2 battery holder

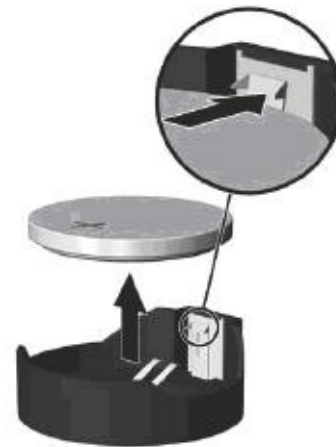


FIGURE 5: Removing the power supply

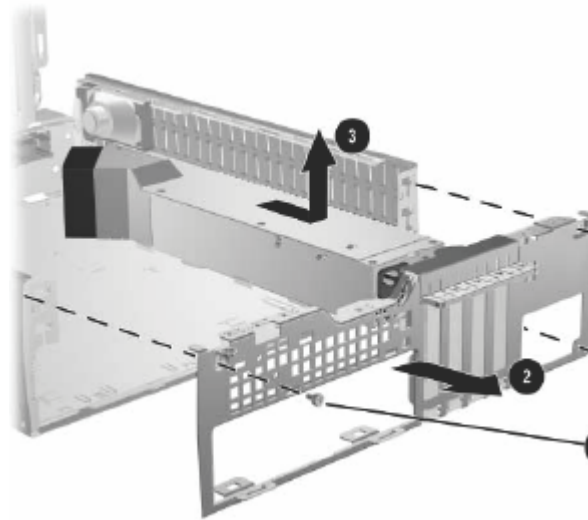


FIGURE 6: Screw location power supply



FIGURE 7: Screw location power supply

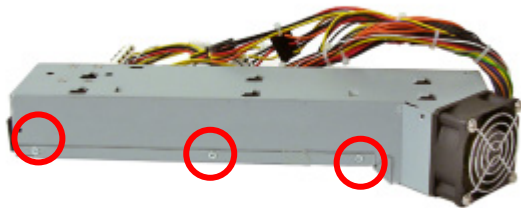


FIGURE 8: Screw location power supply

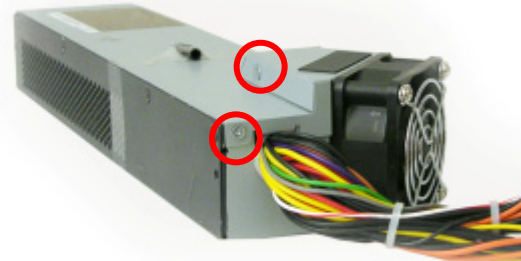


FIGURE 9: Lift fan housing

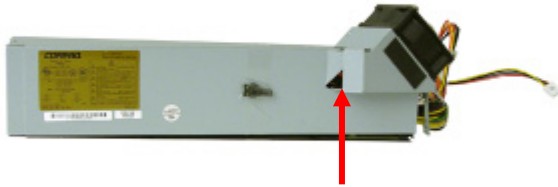


FIGURE 10: Power supply – cover removed



FIGURE 11: Remove two screws from fan

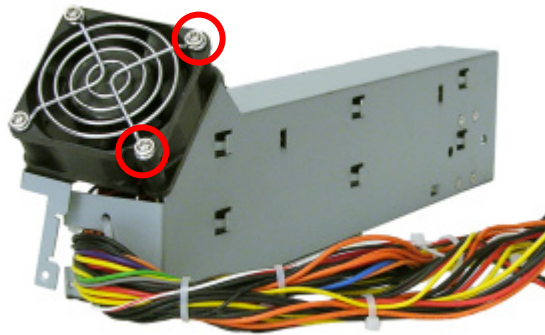


FIGURE 12: Cut these wires and tie wrap

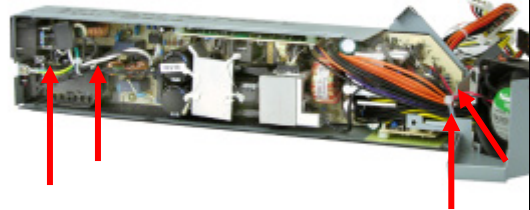




FIGURE 13: PCA screw locations



FIGURE 14: Cut green capacitor

