



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

Product Identification:

Marketing Name / Model	Description
HP Compaq Business Desktop dc7100 Series - SFF	HP business desktop PC – 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 (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		
External electrical cables and cords	PSU, IDE, SATA cables.	
Gas Discharge Lamps		
Plastics containing Brominated Flame Retardants		1 – power supply fan
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:

SYSTEM BOARD	
1	To remove the computer cover (see Figure 1 below): a) Press the buttons on the left and right sides of the computer. b) Slide the computer cover toward the front of the computer until it stops, and then lift the cover up and off the chassis.
2	Remove all expansion cards from the system board.
3	Lift up on the fan shroud to remove it from the chassis (see Figure 2 below).
4	Slide the drive tray forward and disconnect the drive and power cables from the system board (see Figure 3 below).
5	If applicable, remove the security clip (see Figure 4 below). NOTE: The security clip is an optional feature and is not installed on all computers.
6	Rotate the power supply to its upright position (see Figure 5 below).
7	Disconnect the serial port from the system board (see Figure 6 below).
8	Disconnect any remaining cables from the system board.
9	Remove the long mounting screw that secures the system board tray to the chassis (see Figure 7 below).
10	Slide the system board tray assembly towards the front of the chassis, about 1/4 inch, and then lift the system board up and out of the chassis (see Figure 8 below).
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 9 below)	
Lift the battery out of the holder.	



TYPE 2 BATTERY HOLDER (see Figure 10 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.	
TYPE 3 BATTERY HOLDER (see Figure 11 below)	
Pull back on the clip that holds the battery in place, and then remove the battery.	
POWER SUPPLY	
1	Remove the security clip (see Figure 4 below). NOTE: The security clip is an optional feature and is not installed on all computers.
2	Rotate the power supply to its upright position.
3	Pull the drive cage forward and disconnect the power cables from all of the drives.
4	Release the power supply cable from the cable retaining clip at the front of the chassis below the drive cage and from the clip on the side of the chassis in front of the hard drive.
5	If required, remove the sensor from the power supply by sliding the hood sensor switch mounted on the power supply toward the outside of the computer and lowering it through the slot (see Figure 12 below). NOTE: The hood sensor is an optional feature and is not installed on all computers.
6	Lift the power supply up and out of the chassis (see Figure 13 below).
POWER SUPPLY PRINTED CIRCUIT ASSEMBLY	
1	Remove all screws that secure the covers to the power supply chassis. Depending on the power supply, you must remove either two or three separate pieces (see Figures 14 & 15 below). NOTE: Power supply screw quantity and location may vary.
2	Snip the plastic cable clamp that secures the main wires to the power supply chassis (see Figure 16 below).
3	Lift the top cover off the power supply. Note that there either may be tabs on the back of the cover that hinge into the power supply chassis, or tabs on the top of the cover that you must depress to release the cover.
4	Remove the back panel. Note that there may be tabs that hinge into the power supply chassis.
5	If applicable, remove the side panel.
6	Using a pair of diagonal cutters (dikes), cut the following wires (see Figure 17 below): <ul style="list-style-type: none"> • black power connector wire • thick black fan wire (Note: You can unplug this wire instead of cutting it). • main collection of wires – to gain access to the capacitors

POWER SUPPLY PRINTED CIRCUIT ASSEMBLY cont	
7	Remove the screws that secure the printed circuit assembly to the power supply chassis (see Figure 18 below), and then lift the PCA out of the chassis. NOTE: Screw quantity and location may vary.
POWER SUPPLY FAN	
1	Remove the four screws that secure the fan to the power supply (see Figure 19 below).
2	Lift the fan out of the power supply.

3.2 ILLUSTRATIONS

<p><u>FIGURE 1: Removing the computer cover</u></p>	<p><u>FIGURE 2: Removing the fan shroud</u></p>
<p><u>FIGURE 3: Disconnecting the drive and power cables from the system board</u></p>	<p><u>FIGURE 4: Removing the security clip</u></p>

FIGURE 5: Rotating the power supply to its upright position

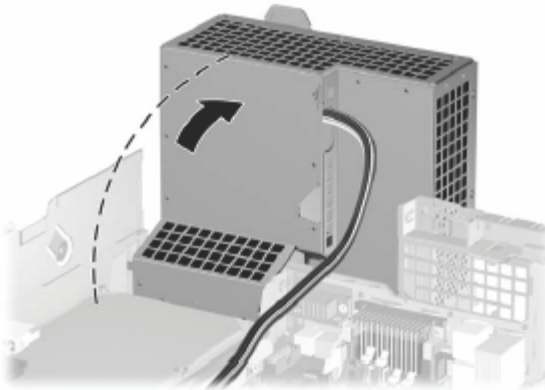


FIGURE 6: Disconnecting the serial port from the system board

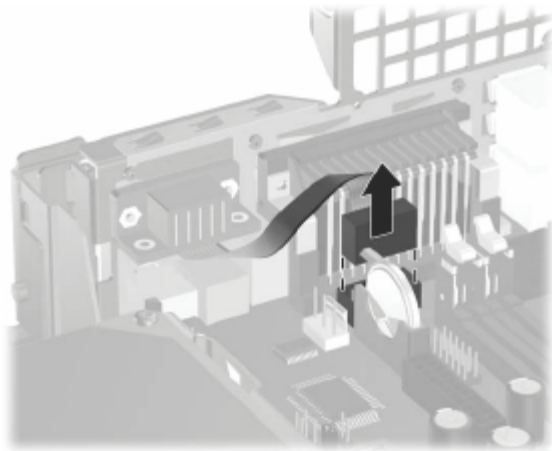


FIGURE 7: Removing the mounting screw from the system board

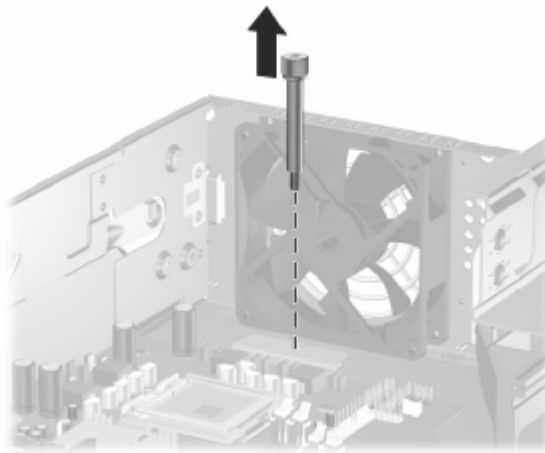


FIGURE 8: Removing the system board from the chassis

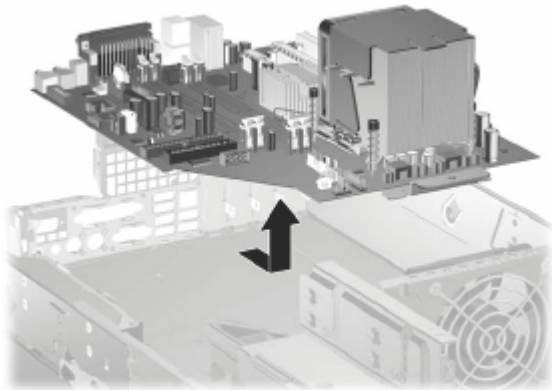


FIGURE 9: Type 1 battery holder

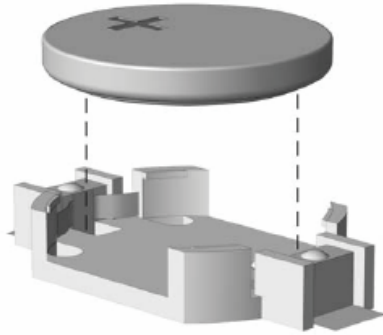


FIGURE 10: Type 2 battery holder



FIGURE 11: Type 3 battery holder

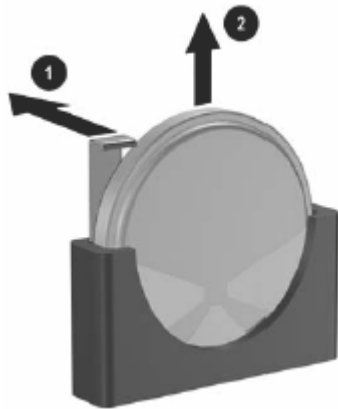


FIGURE 12: Removing the hood sensor

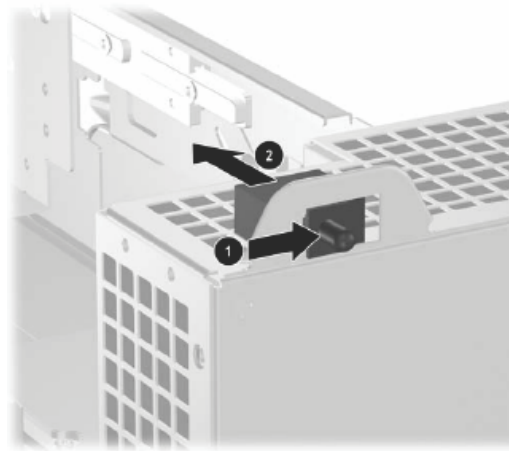


FIGURE 13: Removing the power supply

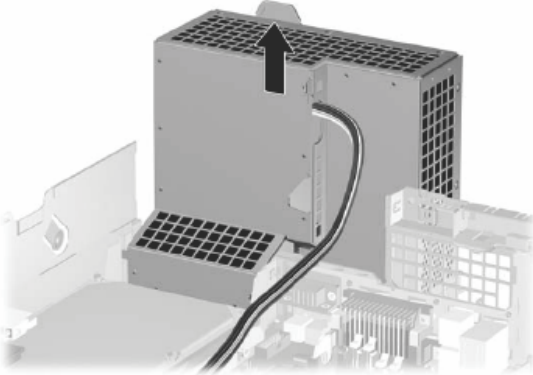


FIGURE 14: Power supply screw locations (may vary)



FIGURE 15: Power supply screw locations (may vary)

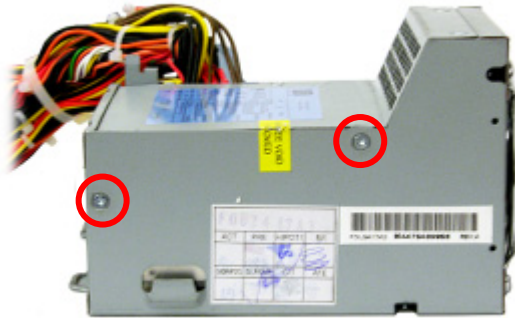


FIGURE 16: Cut plastic cable clamp



FIGURE 17: Cut wires (may vary)

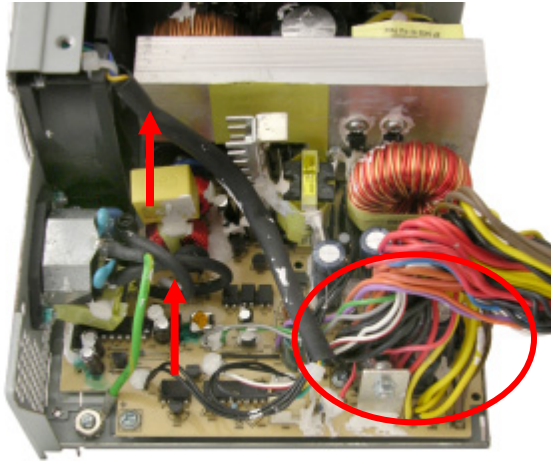


FIGURE 18 PCA screw locations (may vary)

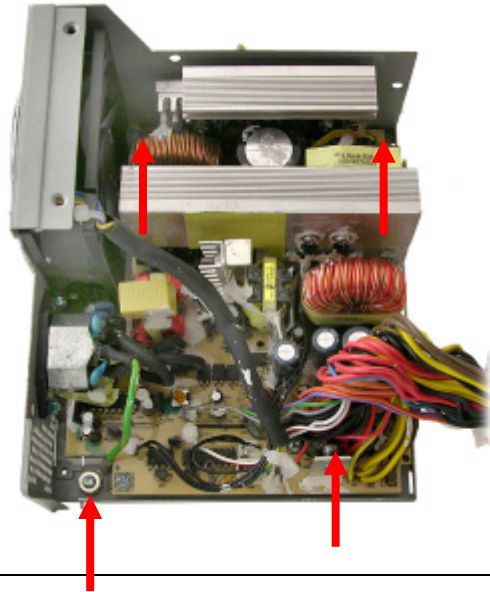


FIGURE 19: Power supply fan screw locations

