Product End-of-Life Disassembly Instructions

Product category: Workstations

Marketing name/model: HP Z220 SFF (Small Form Factor) Workstation

Purpose: The document is intended end-of-life recyclers or treatment facilities. It provides 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 The quantity of items that require selective treatment is specified in the right column.

Item description	Notes	Quantity in product
Printed Circuit Boards (PCB) or Printed Circuit Assemblies (PCA)	Surface area greater than 10 sq cm	3
Batteries	All types including standard alkaline and lithium coin or button style batteries	1
Mercury-containing components	Examples: mercury in lamps, display backlights, scanner lamps, switches, batteries	0
Liquid Crystal Displays (LCD) with a surface greater than 100 sq cm	Includes background illuminated displays with gas discharge lamps	0
Cathode Ray Tubes (CRT)		0
Capacitors/condensers containing PCB/PCT		0
Electrolytic capacitors/condensers measuring greater than 2.5 cm in diameter or height	Quantity depends on power supply model	1 to 3
External electrical cables and cords		0
Gas discharge lamps		0
Plastics containing Brominated Flame Retardants	Fans	0
Components and parts containing toner and ink, including liquids, semi-liquids (gel/paste) and toner	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

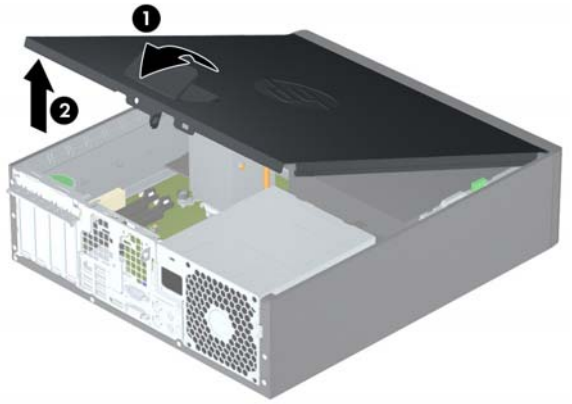
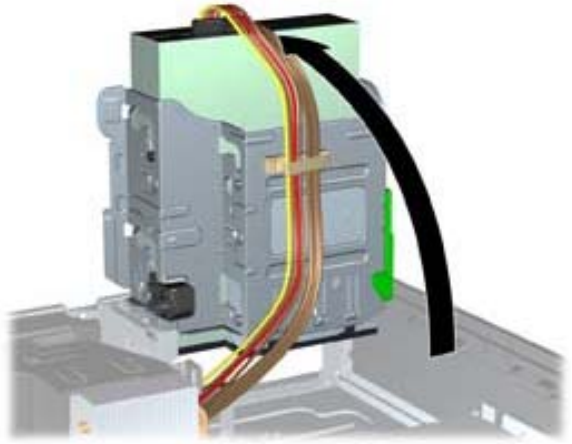
The following tools are typically used to disassemble the product to a point where components and materials requiring selective treatment can be removed.

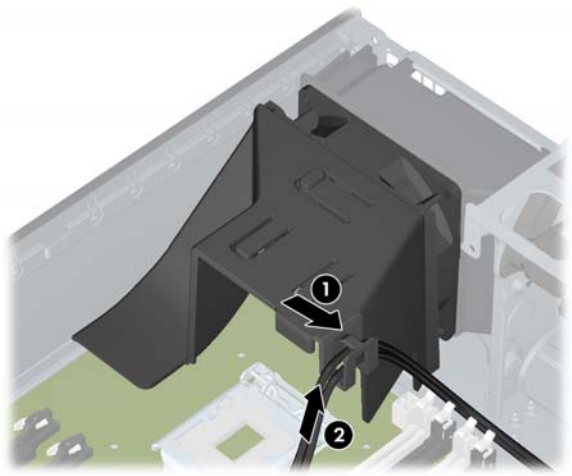
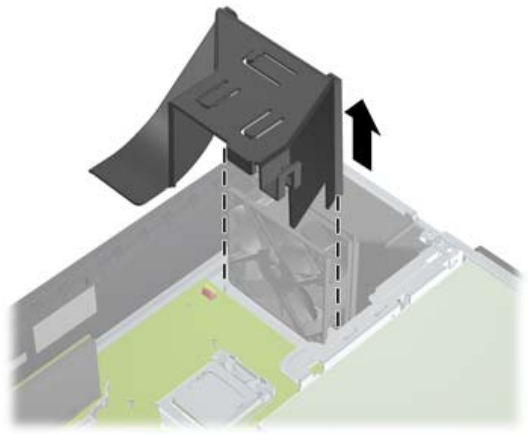
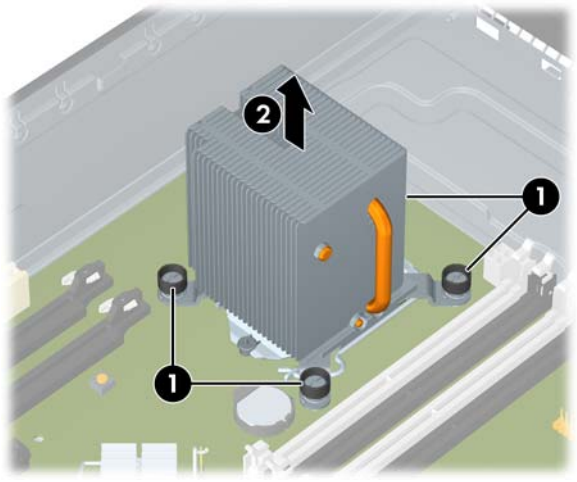
Tool description	Tool size (if applicable)
Assorted Torx drivers, screwdrivers and a diagonal cutter	

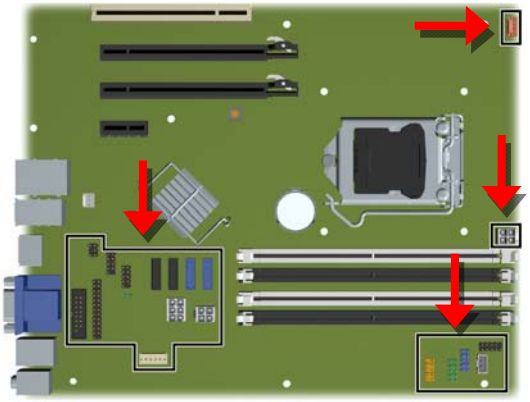
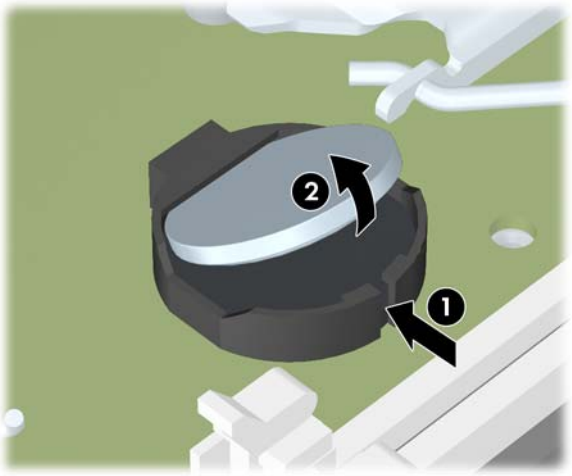
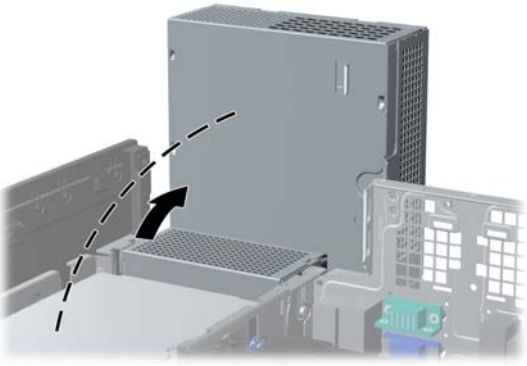
3.0 Product disassembly process

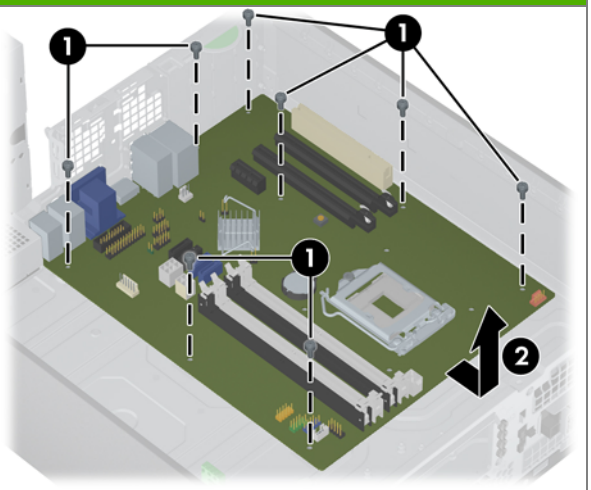
The following task tables detail the removal process.

3.2 Workstation disassembly process

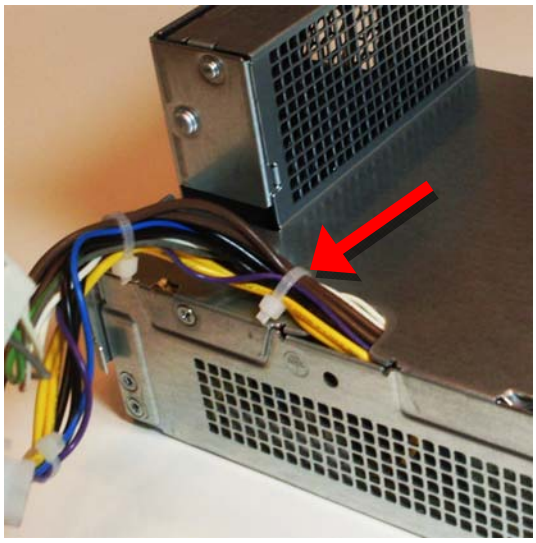
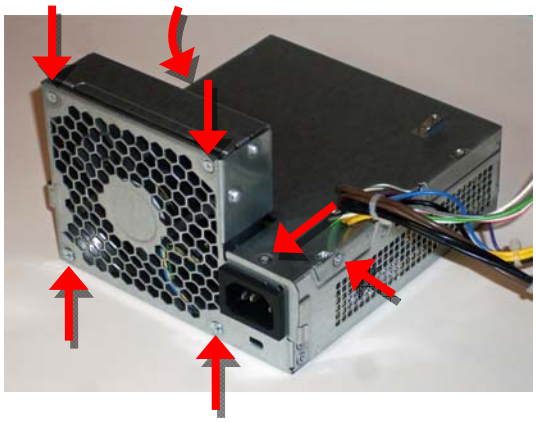
Step	Component and task	Illustration
1	Refer to Section 1.0, *Items Requiring Selective Treatment*, to identify all components to be removed.	
2	**Security devices** Remove/disengage any security devices that prohibit opening the workstation.	
3	**Side access panel** Pull up on the handle (1). Rotate the panel away from the chassis (2).	
4	**Drive cage** Rotate the drive cage upward.	

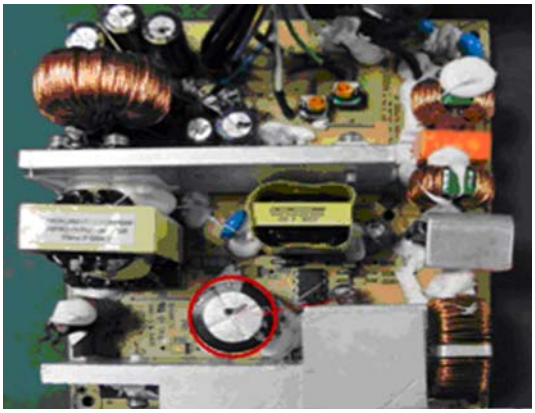
Step	Component and task	Illustration
5	**Cables** Release all cables from the airflow guide cable clamp.	
6	**Airflow guide** Remove the airflow guide.	
7	**Heat sink** Release the four heat sink screws (1). Remove the heat sink from the system board (2).	

Step	Component and task	Illustration
8	**Cables** Disconnect all internal cables from the system board.	
9	**Battery** Use a small screwdriver to push the battery away from the small tabs on the battery holder (1). Pop the battery out of the holder (2).	
10	**Power supply** Rotate the power supply to a vertical position, slide it inward, and lift it from the chassis.	

Step	Component and task	Illustration
11	**System board** Remove the eight mounting screws (1). Lift the system board slightly and pull it out from the rear of the chassis (2).	
12	Dispose of all removed components according to regulatory requirements.	

3.2 Power supply disassembly process

Step	Component and task	Illustration
1	**Cable tie wrap** Cut the plastic cable tie wrap that attaches the cables to the PSU case.	
2	**Housing cover** Remove the seven power supply housing screws. Remove the cover.	
3	**Power supply PCA** Remove the four power supply PCA screws. If necessary, cut any cables holding the PCA to the housing, then remove the PCA.	

Step	Component and task	Illustration
4	**Capacitors/condensers** **Warning:** Be sure to discharge capacitors/condensers before removal. Use a diagonal cutter to remove the electrolytic capacitors/condensers measuring greater than 2.5 cm in diameter or height. The unit will have one to three of these components depending on the power supply model.	
5	Dispose of all removed components according to regulatory requirements.	