



# Product End-of-Life Disassembly Instructions

**Product category:** Workstations

**Marketing name/model:** HP Z220 CMT (Convertible Mini Tower) 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	2
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	On PSU PCA: C1 and C162	2
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

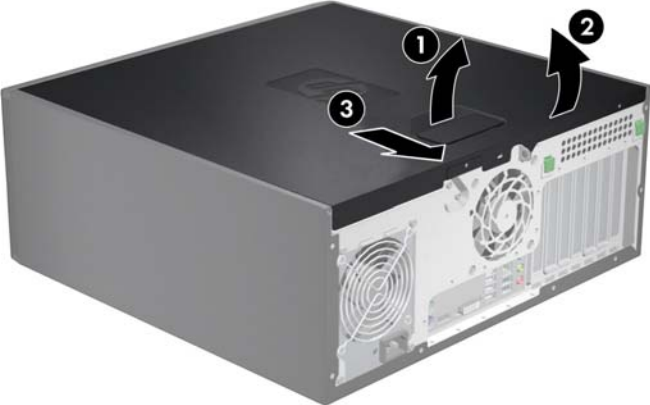
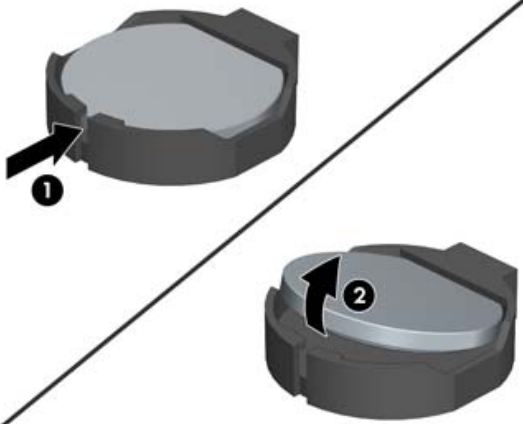
The following tools are typically used to disassemble the product to a point where components and materials requiring selective treatment can be removed.

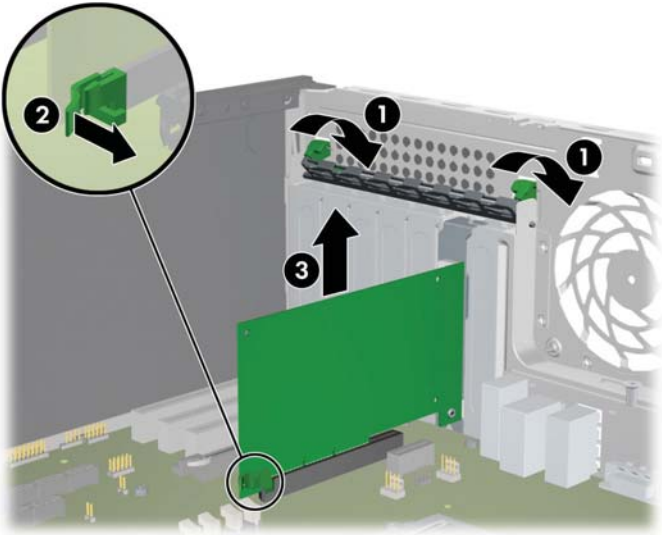
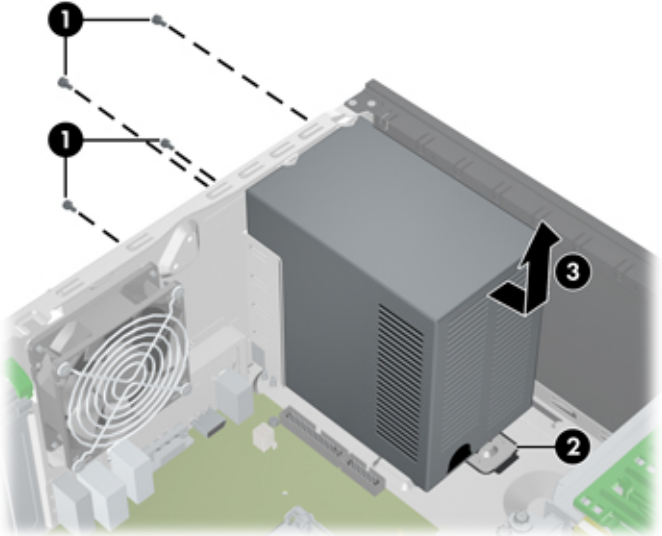
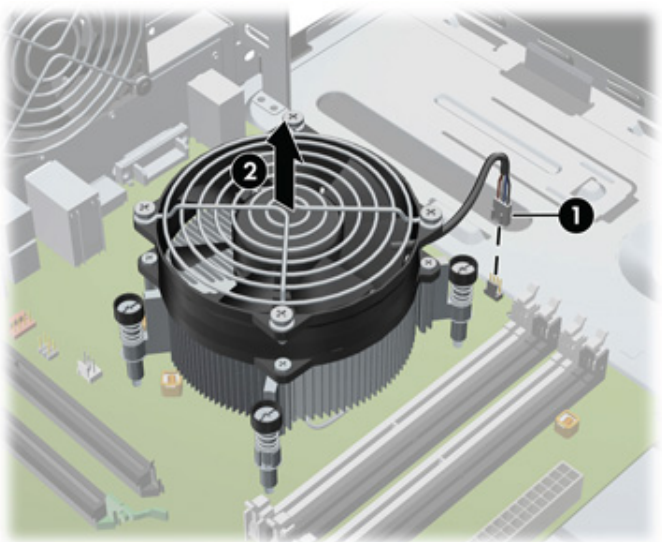
Tool description	Tool size (if applicable)
Assorted Torx drivers, screwdrivers and a diagonal cutter	

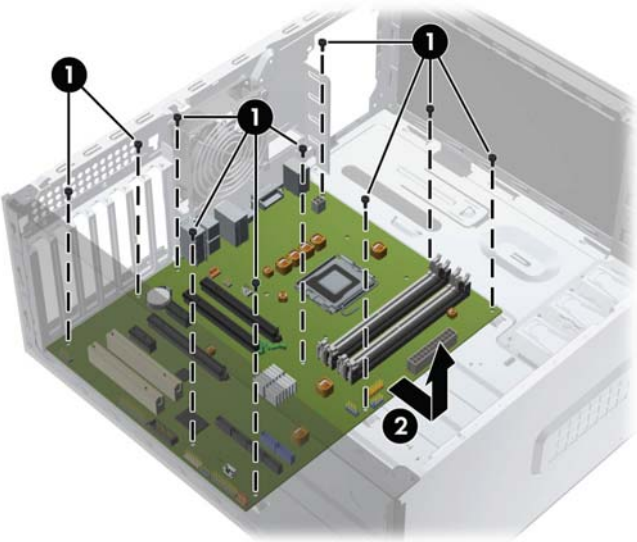
## 3.0 Product disassembly process

The following task tables detail the removal process.

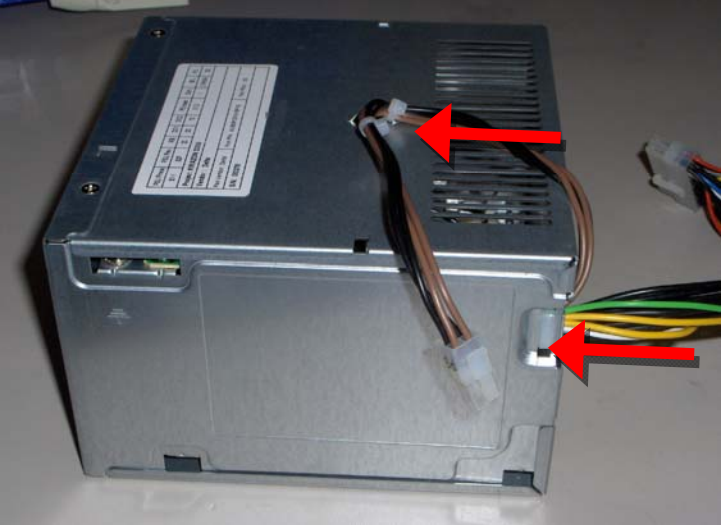

## 3.2 Workstation disassembly process


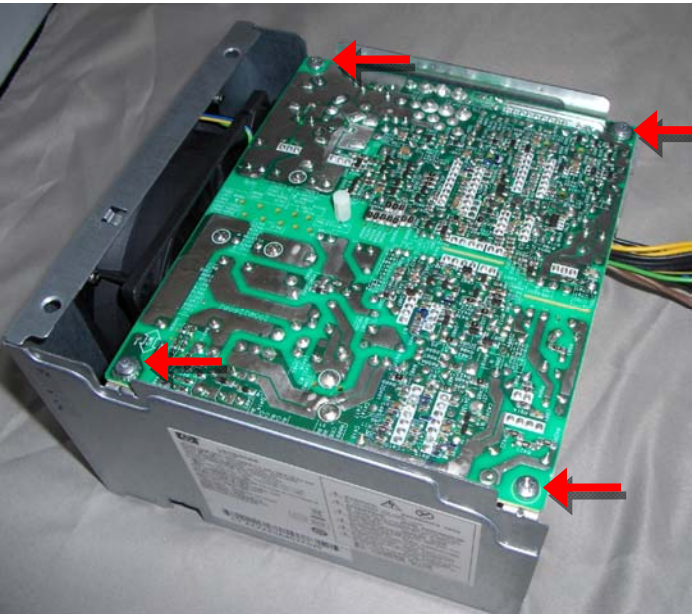
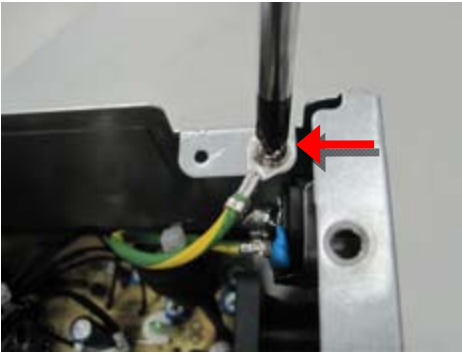
Step	Component and task	Illustration
1	Refer to Section 1.0, <i>Items Requiring Selective Treatment</i> , to identify all components to be removed.	
2	<p><b>Security devices</b></p> <p>Remove/disengage any security devices that prohibit opening the workstation.</p>	
3	<p><b>Access Panel</b></p> <p>Pull up on the handle (1).</p> <p>Rotate the panel away from the chassis (2).</p> <p>Slide the front edge of the cover 1.3 cm (0.5 in) toward the rear of the system to remove it (3).</p>	
4	<p><b>Internal cables</b></p> <p>Disconnect all internal cables from system board, power supply, and other components.</p>	
5	<p><b>Battery</b></p> <p>Use a small screwdriver to push the battery away from the small tabs on the battery holder (1).</p> <p>Pop the battery out of the holder (2).</p>	

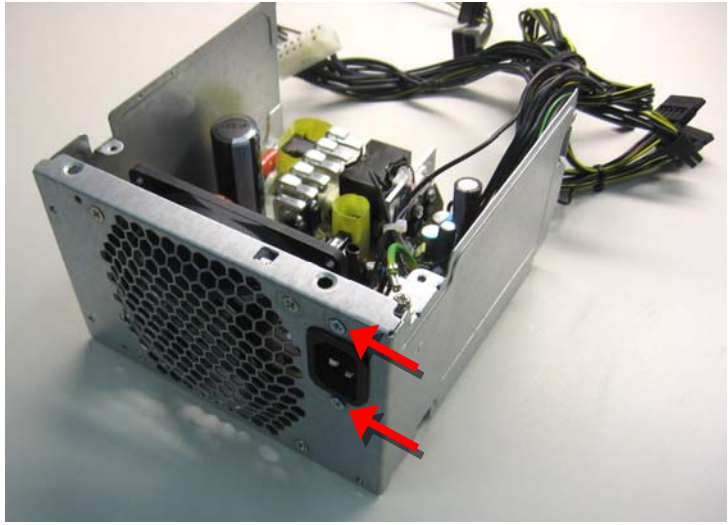
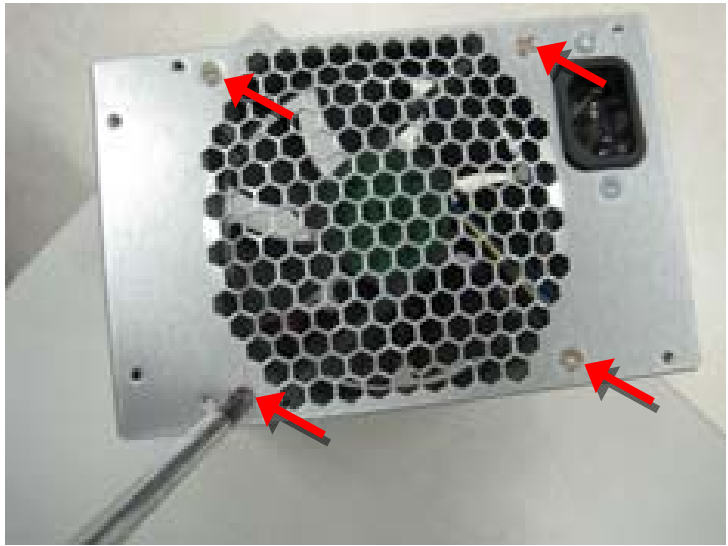
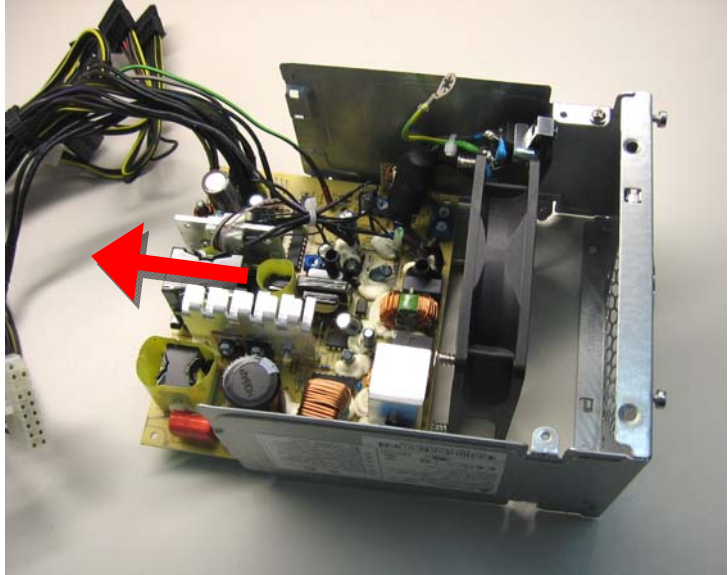
Step	Component and task	Illustration
<p><b>6</b></p>	<p><b>Expansion card</b></p> <p>Remove all cables connected to the expansion card.</p> <p>Push down on the expansion card retention clamp levers on the inside of the chassis to open the retention clamp (1).</p> <p>Release the expansion card slot latch (2), and lift the card from the chassis (3).</p>	
<p><b>7</b></p>	<p><b>Power supply</b></p> <p>Disconnect all power supply cables and all peripheral devices (hard drives, optical drives, and others devices) from the system board.</p> <p>Remove the four screws from the rear of the chassis (1).</p> <p>Depress the chassis latch (2) while sliding the power supply inward then up (3), and remove the power supply from the chassis.</p>	
<p><b>8</b></p>	<p><b>Heatsink fan</b></p> <p>Remove the four screws that hold the CPU heatsink and fan assembly to the system board and chassis.</p> <p>Unplug the electrical connector (1), then remove the heatsink and fan assembly (2).</p>	

Step	Component and task	Illustration
<p><b>9</b></p> <p><b>System board</b></p> <p>Remove the ten mounting screws (1). Lift the system board slightly, and pull the board away from the rear of the chassis. Lift the system board upward out of the chassis (2).</p>		
<p><b>10</b></p>	<p>Dispose of all removed components according to regulatory requirements.</p>	

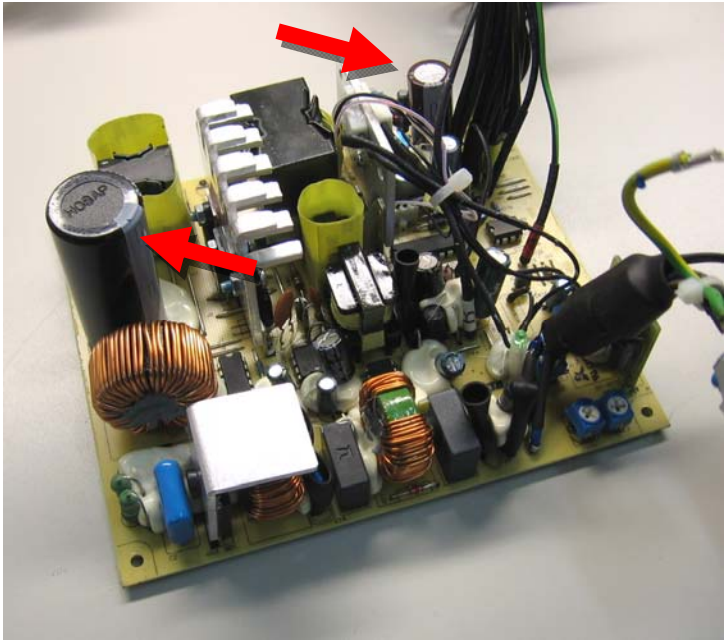
## 3.2 Power supply disassembly process

Step	Component and task	Illustration
1	Refer to Section 1.0, <i>Items Requiring Selective Treatment</i> , to identify all power supply components to be removed.	
2	<b>Cable tie wraps</b> Cut the two plastic cable tie wraps.	
3	<b>Housing screws</b> Remove the four power supply housing screws—two from each side.	

<p><b>4</b></p>	<p><b>Housing</b></p> <p>Separate the power supply housing.</p>	
<p><b>5</b></p>	<p><b>PCA screws</b></p> <p>Remove the four screws from the corners of the large printed circuit assembly.</p>	
<p><b>6</b></p>	<p><b>Ground wire</b></p> <p>Detach the ground wire.</p>	

<p><b>7</b></p>	<p><b>Power connector</b></p> <p>Remove the two screws and unfasten the power connector.</p>	
<p><b>8</b></p>	<p><b>Cooling fan screws</b></p> <p>Remove the four screws that hold the cooling fan to the PSU housing.</p>	
<p><b>9</b></p>	<p><b>PCA, power connector and fan</b></p> <p>Slide out the printed circuit assembly, power connector and fan from the PSU housing.</p>	



<p><b>10</b></p>	<p><b>Capacitors/condensers</b></p> <p><b>Warning:</b> Be sure to discharge capacitors/condensers before removal.</p> <p>Use a diagonal cutter to remove the two electrolytic capacitors/condensers measuring greater than 2.5 cm in diameter or height.</p>	
<p><b>11</b></p>	<p>Dispose of all removed components according to regulatory requirements.</p>	