Product End-of-Life Disassembly Instructions

Product Category: Notebooks and Tablet PCs

Marketing Name / Model
[List multiple models if applicable.]

HP ZBook 14 Mobile Workstation

**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, 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 Enter the quantity of items contained within the product which require selective treatment in the right column, as applicable.

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Notes</th>
<th>Quantity of items included in product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Printed Circuit Boards (PCB) or Printed Circuit Assemblies (PCA)</td>
<td>With a surface greater than 10 sq cm</td>
<td>1</td>
</tr>
<tr>
<td>Batteries</td>
<td>All types including standard alkaline and lithium coin or button style batteries</td>
<td>1</td>
</tr>
<tr>
<td>Mercury-containing components</td>
<td>For example, mercury in lamps, display backlights, scanner lamps, switches, batteries</td>
<td>0</td>
</tr>
<tr>
<td>Liquid Crystal Displays (LCD) with a surface greater than 100 sq cm</td>
<td>Includes background illuminated displays with gas discharge lamps</td>
<td>0</td>
</tr>
<tr>
<td>Cathode Ray Tubes (CRT)</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Capacitors / condensers (Containing PCB/PCT)</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Electrolytic Capacitors / Condensers measuring greater than 2.5 cm in diameter or height</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>External electrical cables and cords</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Gas Discharge Lamps</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Plastics containing Brominated Flame Retardants weighing &gt; 25 grams (not including PCBs or PCAs already listed as a separate item above)</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Components and parts containing toner and ink, including liquids, semi-liquids (gel/paste) and toner</td>
<td>Include the cartridges, print heads, tubes, vent chambers, and service stations.</td>
<td>0</td>
</tr>
<tr>
<td>Components and waste containing asbestos</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Components, parts and materials containing refractory ceramic fibers</td>
<td></td>
<td>0</td>
</tr>
</tbody>
</table>

PSG instructions for this template are available at [EL-MF877-01](#)
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.

<table>
<thead>
<tr>
<th>Tool Description</th>
<th>Tool Size (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description #1</td>
<td>Cross head of screwdriver</td>
</tr>
<tr>
<td>Description #2</td>
<td>TORX T8 (2.31mm)</td>
</tr>
<tr>
<td>Description #3</td>
<td></td>
</tr>
<tr>
<td>Description #4</td>
<td></td>
</tr>
<tr>
<td>Description #5</td>
<td></td>
</tr>
</tbody>
</table>

3.0 Product Disassembly Process

3.1 List the basic steps that should typically be followed to remove components and materials requiring selective treatment:

1. Follow steps described in Disassembly instruction (file attached)
2. If parts can be removed without using a tool, remove it first.
3. Use correct screwdriver and torque value before unlock the screw.
4. 
5. 
6. 
7. 
8. 

3.2 Optional Graphic. If the disassembly process is complex, insert a graphic illustration below to identify the items contained in the product that require selective treatment (with descriptions and arrows identifying locations).
Step:

For Non-Touch Model
1. Disassemble Bezel. (Fig.1)

For Touch Model
1. Disassemble touch panel and disconnect touch panel cable CNTR. (Fig.2 / Fig.3)

Notes: If finding anything uncommon, notice foreman or assistant at once.

<table>
<thead>
<tr>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
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</table>

Tabulator: Alicia Chien    Auditor: Vick Weng    Issue department: NPSU-PPE
Step:
1. Loosen screw* 4.

Notes: If finding anything uncommon, notice foreman or assistant at once.

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<tr>
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<tr>
<td>Electric cross screwdriver (#1)</td>
<td>1</td>
<td></td>
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</table>

Tabulator: Alicia Chien  
Auditor: Vick Weng  
Issue department: NPSU-PPE
Step:

1. Disassemble camera from rear cover.

2. Disassemble LCM cable and panel from rear cover.

Notes: If finding anything uncommon, notice foreman or assistant at once.

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Tabulator: Alicia Chien  
Auditor: Vick Weng  
Issue department: NPSU-PPE
Step:

1. Disassemble camera or MIC/B. (Fig.1)

2. Disconnect LCM cable from panel. (Fig.2)

Notes: If finding anything uncommon, notice foreman or assistant at once.
Step:

1. Disassemble all WLAN/WWAN cable.

Notes: If finding anything uncommon, notice foreman or assistant at once.

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Tabulator: Alicia Chien       Auditor: Vick Weng       Issue department: NPSU-PPE
Step:

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Tabulator: Alicia Chien  
Auditor: Vick Weng  
Issue department: NPSU-PPE
Step:

1. Disassemble the left and right hinge caps.

Fig. 1

Fig. 2

Notes: If finding anything uncommon, notice foreman or assistant at once.
Step:
1. Disassemble service door.

Notes: If finding anything uncommon, notice foreman or assistant at once.
Step:

1. Remove the battery. (Fig.1)

2. Loosen K/B set screw *2. (Fig.2)

Fixtures:
- Electric cross screwdriver (#1) Qty 1
Step:
1. Loosen screw * 4, then remove the HDD.
(Fig.1)
Step:

1. Loosen the screw (red circle), then remove the SSD card. (Fig.1)

Notes: If finding anything uncommon, notice foreman or assistant at once.

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Step:
1. Disconnect WWAN cables. (Fig.1)
2. Loosen the screw. (Fig.2)
3. Disassemble WWAN card. (Fig.3)

Tabulator: Alicia Chien  
Auditor: Vick Weng  
Issuing department: NPSU-PPE
Step:
1. Disconnect WLAN cables. (Fig.1)
2. Loosen the screw. (Fig.2)
3. Disassemble WLAN card.

Notes: If finding anything uncommon, notice foreman or assistant at once.

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Tabulator: Alicia Chien  
Auditor: Vick Weng  
Issuing department: NPSU-PPE
Standard Operation Procedure

Document No. : Comet FA DIS ASS’Y SOP
Name : Disassemble Keyboard and FFC
Station : 7(1/1)
Ver. : 0.1
Date : 2013/07/17

Step :

1. Disconnect the three FFC / FPC. (Fig.1)
2. Disassemble Keyboard.
3. Disconnect stick point FFC from keyboard. (Fig.2)

<table>
<thead>
<tr>
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Notes : If finding anything uncommon, notice foreman or assistant at once.

Tabulator : Alicia Chien
Auditor : Vick Weng
Issuing department : NPSU-PPE
Step:

1. Disconnect F/P, smart card board FFC from M/B.

Notes: If finding anything uncommon, notice foreman or assistant at once.

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Tabulator: Alicia Chien
Auditor: Vick Weng
Issuing department: NPSU-PPE
Step:

1. Disassemble DDR. (Fig.1)

2. Loosen the screw. (Fig.2)

Notes: If finding anything uncommon, notice foreman or assistant at once.

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Tabulator: Alicia Chien  
Auditor: Vick Weng  
Issuing department: NPSU-PPE
Step:
1. Loosen BTCB screws. (Fig.1 / Fig.2)

Notes: If finding anything uncommon, notice foreman or assistant at once.

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Tabulator: Alicia Chien
Auditor: Vick Weng
Issuing department: NPSU-PPE
**Step:**

1. Loosen BTCB screw *7.(Fig.1)*

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<tbody>
<tr>
<td>Electric torx screwdriver(T8)</td>
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**Notes:** If finding anything uncommon, notice foreman or assistant at once.

**Tabulator:** Alicia Chien  
**Auditor:** Vick Weng  
**Issuing department:** NPSU-PPE
Step:

1. Loosen BTCB screws. (Fig.1 / Fig.2)

Notes: If finding anything uncommon, notice foreman or assistant at once.

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Tabulator: Alicia Chien          Auditor: Vick Weng          Issuing department: NPSU-PPE
Step:

1. Loosen BTCB screws. (Fig.1 / Fig.2)

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Notes: If finding anything uncommon, notice foreman or assistant at once.
Step:

1. Disassemble BTCB.

Fig.1

Fig.2

Fig.3

Notes: If finding anything uncommon, notice foreman or assistant at once.
**Step:**

1. Disassemble all WLAN/WWAN cables.

2. Disassemble speaker cable.

---

**Notes:** If finding anything uncommon, notice foreman or assistant at once.
Standard Operation Procedure

Document No. : Comet FA DIS ASS’Y SOP  Station : __16(1/1)___
Name : Disassemble USB  Ver. : __0.1__  Date : __2013/07/17__

**Step:**
1. 15” : Loosen screw* 3.
   14” : Loosen screw* 2.
2. Disassemble USB/B.

**Notes:** If finding anything uncommon, notice foreman or assistant at once.

<table>
<thead>
<tr>
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<td></td>
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</tr>
</tbody>
</table>

Tabulator : Alicia Chien  Auditor : Vick Weng  Issuing department : NPSU-PPE
Step:

1. Disassemble power/B FFC from M/B.

Notes: If finding anything uncommon, notice foreman or assistant at once.

<table>
<thead>
<tr>
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<th>Qty</th>
<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
</tr>
</thead>
</table>

Tabulator: Alicia Chien        Auditor: Vick Weng        Issuing department: NPSU-PPE
Step:
1. Loosen fan screw*  2. (Fig.1)
2. Disconnect fan cable from M/B. (Fig.1)
3. Disassemble LCM CNTR. (Fig.2)

Notes: If finding anything uncommon, notice foreman or assistant at once.

<table>
<thead>
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</thead>
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<tr>
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<td>1</td>
<td></td>
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</tbody>
</table>
Standard Operation Procedure

Document No. : Comet FA DIS ASS’Y SOP
Name : Disassemble M/B
Ver. : 0.1
Date : 2013/07/17
Station : 19(1/1)

Step:
1. Loosen M/B screw* 3. (Fig.1 / Fig.2 / Fig.3 / Fig.4 )
2. Take up the M/B. (Fig.5)

Notes: If finding anything uncommon, notice foreman or assistant at once.

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
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<tbody>
<tr>
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Tabulator: Alicia Chien  Auditor: Vick Weng  Issuing department: NPSU-PPE
### Standard Operation Procedure

#### Comet FA DIS ASS’Y SOP

**Document No.**: Comet FA DIS ASS’Y SOP  
**Station**: 20(1/1)  
**Name**: Disassemble Thermal  
**Ver.**: 0.1  
**Date**: 2013/07/17

**Step**:  
1. Put the M/B on support fixture.  
2. Loosen set screws, remove the thermal.

**Fig.1**

**Fig.2**

---

**Fixtures**

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric cross screwdriver (#1)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M/B support fixture – B Side (14 or 15)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Notes**: If finding anything uncommon, notice foreman or assistant at once.

**Tabulator**: Alicia Chien  
**Auditor**: Vick Weng  
**Issuing department**: NPSU-PPE
Step:

1. Open the notebook, then put it on support fixture.

2. Loosen screw * 4. (Fig.1 / Fig.2 / Fig.3)

3. Separate LCM and BU.