# Product End-of-Life Disassembly Instructions

**Product Category:** Notebooks and Tablet PCs

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

HP Compaq 4415s_4416s_4515s_Notebook

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**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>3</td>
</tr>
<tr>
<td>Batteries</td>
<td>All types including standard alkaline and lithium coin or button style batteries</td>
<td>2</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</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>
<tr>
<td>Components, parts and materials containing radioactive substances</td>
<td></td>
<td>0</td>
</tr>
</tbody>
</table>
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>Motor-screw-driver “+”</td>
</tr>
<tr>
<td>Description #2</td>
<td>Motor-screw-driver “***”</td>
</tr>
<tr>
<td>Description #3</td>
<td>Motor-screw-driver “-”</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).
MANUFACTURING PROCESS INSTRUCTIONS
MECHANICAL ASSEMBLY

MODEL : S-Series

<table>
<thead>
<tr>
<th>Station</th>
<th>Version</th>
<th>Station</th>
<th>Version</th>
<th>Station</th>
<th>Version</th>
<th>Station</th>
<th>Version</th>
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</thead>
<tbody>
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<td>1.00</td>
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<td>23</td>
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<tr>
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<td>24</td>
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<td></td>
</tr>
</tbody>
</table>

A. Current station version list:

B. Version Modify list:

<table>
<thead>
<tr>
<th>Date</th>
<th>Station</th>
<th>Content</th>
<th>Ver.</th>
<th>Design</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008/7/11</td>
<td>ALL</td>
<td>First SOP for mass production</td>
<td>1.**</td>
<td>Huang pengfei</td>
</tr>
</tbody>
</table>

审核：__________  制表：__________
Working Instruction
Document No.: SOP S-SERIES FA dis-ASS’Y
Name: Disassemble Battery

Point for attention: If finding some defects, notice the gaffer and assistant

<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>Automatic hexagonal screw driver</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Pull latch, slip battery, and take it out.
   • Battery must be paralleled with machine when pushing out.

Issuing department: Zhang Ying
IE
Working Instruction

Document No.: SOP S-SERIES FA dis-ASS'Y
Name: disassemble HDD & Cover

1. Loosen screws of HDD Cover *2 and WLAN Cover *1. (Fig.2)
   - Torsion: 2.0 ± 0.5 kgf · cm
   - Screws can't be stripped.
2. Disassemble HDD Cover and WLAN Cover
3. Loosen screws of HDD *1. (Fig.1)
   - Torsion: 2.0 ± 0.5 kgf · cm
   - Screws can't be stripped.
4. Pull the puller and to Disassemble HDD. (Fig.3)

In this direction pull puller then take out HDD

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
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<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic crossing screw driver</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Point for attention: If finding some defects, notice the gaffer and assistant

Tabulator: Zhang Ying  Issuing department: IE
## Point for attention:
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<tr>
<td>Automatic hexagonal screw driver</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Loosen screws (60520D046304) *5
- Torsion: $2.0 \pm 0.5$ Kgf · cm
- Screws can't be stripped or dropped into machine.

2. Loosen screws of BTCB (Only For 17”)

Only For 17”
For 14”

Fig.1

1. Loosen screws of ODD/KB (60520D046304) *3
   - Torsion : 2.0 ± 0.5 Kgf · cm
   - Screws can't be stripped or dropped into machine.

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic hexagonal screw driver</td>
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</tbody>
</table>

Point for attention: If finding some defects, notice the gaffer and assistant.
### Working Instruction

**Document No.**: SOP S-SERIES FA dis-ASS’Y  
**Station**: 4(2/3)  
**Name**: Loosen screws  
**Ver.**: 1.00  
**Date**: 2008/07/11

#### Point for attention:
- If finding some defects, notice the gaffer and assistant.

#### Fixtures List

<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>Automatic hexagonal screw driver</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**Tabulator**: Zhang Ying  
**Issuing department**: IE

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**Fig.1**

1. Loosen screws of BTCB (60520D046304) *1
2. Loosen screws of ODD/KB (60520D046304) *3

- Torsion: $2.0 \pm 0.5$ Kgf $\cdot$ cm
- Screws can't be stripped or dropped into machine.

---

**Fig.1**

For 15”
Point for attention:
If finding some defects, notice the gaffer and assistant.

1. Loosen screws (60520D046304)
   *4:Fig.1
   - Torsion: 2.0 ± 0.5 Kgf • cm
   - Screws can't be stripped or dropped into machine.
   - 1, 4 are screws of BTCB; 2, 3 are screws of Keyboard.

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
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<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic hexagonal screw driver</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
For 14”

Point for attention: If finding some defects, notice the gaffer and assistant

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<tbody>
<tr>
<td>Automatic hexagonal screw driver</td>
<td>1</td>
</tr>
</tbody>
</table>

1. Loosen screws of SW Cover*2 (6052A0051301), Fig. 1
   - Torsion: 2.0 ± 0.5 Kgf · cm
   - Screws can't be stripped or dropped into machine.

2. Loosen screws of BTCB(60520D046304)*2: Fig. 2
   - Torsion: 2.0 ± 0.5 Kgf · cm
   - Screws can't be stripped or dropped into machine.

Issuing department: Zhang Ying IE

Tabulator: 1.00 Date: 2008/07/11
1. Loosen screws of SW Cover*3 (6052A0051301), Fig.1
   - Torsion: 2.0 ± 0.5 Kgf · cm
   - Screws can’t be stripped or dropped into machine.

2. Loosen screws of BTCB*2 (6052A0021902), Fig.2
   - Screws with red whorl are more tight.
   - Torsion: 2.0 ± 0.5 Kgf · cm
   - Screws can’t be stripped or dropped into machine.

**Point for attention:** If finding some defects, notice the gaffer and assistant.

<table>
<thead>
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<tbody>
<tr>
<td>Automatic hexagonal screw driver</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tabulator: Zhang Ying  
Issuing department: IE
For 17”

1. Loosen screws of SW Cover*3 (6052A0051301)
   - Torsion: $2.0 \pm 0.5$ Kgf $\cdot$ cm
   - Screws can't be stripped or dropped into machine.

2. Loosen screws of BTCB(6052A0021902) * 2
   - Screws with red whorl are more tight
   - Torsion: $2.0 \pm 0.5$ Kgf $\cdot$ cm
   - Screws can't be stripped or dropped into machine.

Point for attention: If finding some defects, notice the gaffer and assistant

<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>Automatic hexagonal screw driver</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Tabulator: Zhang Ying  Issuing department: IE
1. Loosen screws of BTCB (60520D046304) * 6
   - Torsion: $2.0 \pm 0.5$ Kgf $\cdot$ cm
   - Screws can't be stripped or dropped into machine.

For 14’’

Point for attention: If finding some defects, notice the gaffer and assistant

<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>Automatic hexagonal screw driver</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
For 15”

1. Loosen screws of BTCB (60520D046304) * 5
   - Torsion: 2.0 ± 0.5 Kgf · cm
   - Screws can’t be stripped or dropped into machine.

**Point for attention**: If finding some defects, notice the gaffer and assistant

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
<th>Fixture list (Fixture standard)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Automatic hexagonal screw driver</td>
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<td></td>
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</tbody>
</table>

Tabulator: Zhang Ying    Issuing department: IE
1. Loosen screws of BTCB(60520D046304) * 5
   - Torsion: 2.0 ± 0.5 Kgf · cm
   - Screws can't be stripped or dropped into machine.

For 17”

<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>Automatic hexagonal screw driver</td>
<td>1</td>
<td></td>
<td></td>
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</tbody>
</table>

Point for attention: If finding some defects, notice the gaffer and assistant.

Tabulator: Zhang Ying   Issuing department: IE
Working Instruction

Document No. : SOP S-SERIES FA dis-ASS’Y

Station Station Station Station

Name : Loosen screws of ODD

Ver. : 1.00

Date : 2008/07/11

1. Loosen screws of ODD (6052B0097001) * 3.
   - Loosen screws with the sequence as figures showing
   - Torsion: 2.0 ± 0.5 Kgf · cm
   - Screws can't be stripped or dropped into machine.

<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>Automatic crossing screw driver</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
1. Aim cable CNTR at Module CNTR and take it down.
2. Loosen screws of DDR Cover *1 (Fig.3)
3. Loosen screws of HDD *1 (Fig.4)

Point for attention:
If finding some defects, notice the gaffer and assistant

<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>crossing screw driver</td>
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</tr>
</tbody>
</table>

Tabulator: Zhang Ying  Issuing department: IE
Working Instruction

Document No. : SOP S-SERIES FA dis-ASS’Y
Name : Disassemble K/B, DisassembleODD

Station : ________
Ver. : 1.00
Date : 2008/07/11

Issuing department : Zhang Ying

<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>Tabulator : Zhang Ying</td>
<td></td>
<td>Issuing department : IE</td>
<td></td>
</tr>
</tbody>
</table>

- **Point for attention**
  - If finding some defects, notice the gaffer and assistant

1. Turn over the machine, DisassembleODD (Fig.1)
   - Lift the right side of machine slightly, then DisassembleODD
2. Disassemble K/B, pull out Lock piece, loosen K/B FFC from MB CNTR (Fig.2, Fig.3)
1. Loosen Lock piece, Disassemble S/W FFC (Fig.1)

2. disassemble S/W Cover, (Fig.2)

- Disassemble from bottom to top.

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

**Point for attention:** If finding some defects, notice the gaffer and assistant

Tabulator: Zhang Ying  
Issuing department: IE
For 14”

Fig. 1

1. Pull out Antenna cable along the slot of BTCB. (Fig.1),
2. Disassemble the speaker Cable from MB (Fig.3)

Fig. 2

Fig. 3

Point for attention: If finding some defects, notice the gaffer and assistant

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

Tabulator: Zhang Ying  Issuing department: IE
For 15”

1. Pull out Antenna cable along the slot of BTCB. (Fig.1),
2. Disassemble the speaker Cable from MB (Fig.3)

Point for attention: If finding some defects, notice the gaffer and assistant

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

Tabulator: Zhang Ying  Issuing department: IE
For 17”

1. Pull out Antenna cable along the slot of BTCB. (Fig.1),
2. Disassemble speaker cable from MB. (Fig.2)

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
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<tbody>
<tr>
<td></td>
<td></td>
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Point for attention: If finding some defects, notice the gaffer and assistant.

Tabulator: Zhang Ying  Issuing department: IE
1. Pull out Camera Connector from MB. (Fig.1)
2. Take out Antenna & Camera cable from slot. (Fig.2, Fig.3)

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
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<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable trimming stick</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Point for attention: If finding some defects, notice the gaffer and assistant
Working Instruction

Document No.: SOP S-SERIES FA dis-ASS'Y

Name: Pull out Camera CNTR

For 15”

1. Pull out Camera Connector from MB. (Fig.1)
2. Take out Antenna & Camera cable from slot. (Fig.2, Fig.3)

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
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<tbody>
<tr>
<td>Cable trimming stick</td>
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Point for attention: If finding some defects, notice the gaffer and assistant

Issuing department: Zhang Ying
## For 17”

1. Pull out Camera Connector from MB. (Fig.1)
2. Take out Antenna & Camera cable from slot. (Fig.2, Fig.3)

### Point for attention:
If finding some defects, notice the gaffer and assistant

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<tr>
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<td>1</td>
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</tbody>
</table>

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Tabulator: Zhang Ying  
Issuing department: IE
For 14”

1. Take out Antenna & Camera cable from slot. (Fig.1)
2. Disassemble LCM CNTR from MB. (Fig.2)
3. Take out LCM Cable from slot. (Fig.3)

Point for attention: If finding some defects, notice the gaffer and assistant

<table>
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<tbody>
<tr>
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</table>
For 15”

1. Tear the Acetic acid sticky tape, take out Antenna & Camera cable from slot. (Fig.1)
2. Tear the Aluminum foil of LCM CNTR, Disassemble LCM CNTR from MB. (Fig.2)
3. Take out LCM Cable from slot. (Fig.3)

<table>
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<td>Cable trimming stick</td>
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**Point for attention**: If finding some defects, notice the gaffer and assistant

Tabulator: Zhang Ying  
Issuing department: IE
For 17”

1. Take out Antenna & Camera cable from slot. (Fig.1)
2. Disassemble LCM CNTR from MB. (Fig.2)
3. Take out LCM Cable from slot. (Fig.2)

Point for attention: If finding some defects, notice the gaffer and assistant

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<tbody>
<tr>
<td>Cable trimming stick</td>
<td>1</td>
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</table>

Tabulator: Zhang Ying  Issuing department: IE
**Point for attention:** If finding some defects, notice the gaffer and assistant

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic hexagonal screw driver</td>
<td>1</td>
</tr>
</tbody>
</table>
For 15”

1. Loosen screws of LCM Ê4 (Fig.1)
   - Torsion: 3.0 ± 0.5 Kgf cm
   - Screws can't be stripped.

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
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</thead>
<tbody>
<tr>
<td>Automatic hexagonal screw driver</td>
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</tbody>
</table>
1. Loosen screws of LCM \(^*4\) (Fig.1)
   - Torsion: \(3.0 \pm 0.5\) Kgf \cdot cm
   - Screws can't be stripped.

**Point for attention:** If finding some defects, notice the gaffer and assistant.

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
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<tbody>
<tr>
<td>Automatic hexagonal screw driver</td>
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</tbody>
</table>
For 14”

2. Loosen screws (60520D046304) * 1 (Fig. 1)
   - Torsion: $2.0 \pm 0.5$ Kgf cm
   - Screws can't be stripped or dropped into machine.

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
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</thead>
<tbody>
<tr>
<td>Automatic hexagonal screw driver</td>
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Point for attention: If finding some defects, notice the gaffer and assistant.
For 15”

Point for attention: If finding some defects, notice the gaffer and assistant

<table>
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<tr>
<th>Fixture list (Fixture standard)</th>
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<tbody>
<tr>
<td>Automatic hexagonal screw driver</td>
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</table>

1. Loosen screws (60520D046304) * 2 (Fig. 1).
   - Torsion: $2.0 \pm 0.5$ Kgf cm
   - Screws can't be stripped or dropped into machine.

Tabulator: Zhang Ying  
Issuing department: IE
For 17”

1. Loosen screws (60520D046304) * 3
   (Fig. 1)
   - Torsion: 2.0 ± 0.5 Kgf · cm
   - Screws can’t be stripped or dropped into machine.

**Point for attention:** If finding some defects, notice the gaffer and assistant

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</table>

Tabulator: Zhang Ying  
Issuing department: IE
1. Disassemble TPCB

- disassemble it as the sequence pictures showing.

Point for attention: If finding some defects, notice the gaffer and assistant.
## Working Instruction

**Document No.** : SOP S-SERIES FA dis-ASS’Y  
**Station** : 17(1/3)  
**Name** :  
**Version** : 1.00  
**Date** : 2008/07/11

### Point for attention

If finding some defects, notice the gaffer and assistant

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<thead>
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<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
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</thead>
<tbody>
<tr>
<td>Automatic crossing screw driver</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

---

### For 14”

1. **Loosen screws of USB/B, pull out T/P FFC**
   - **Fig.1**
   - **Torsion**: $1.0 \pm 0.5$ Kgf cm
   - Screws can't be stripped.

2. **pull out TOUCH PAD FFC** (Fig.3)

---

**Tabulator** : Zhang Ying  
**Issuing department** : IE
1. Loosen USB/B Screw *1 (6052A0029101), Fig. 1
   - Torsion: 1.0 ± 0.5 Kgf cm
   - Screws can't be stripped.

2. Disassemble TOUCH PAD FFC from M/B (Fig. 3).

### Fixture list

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

**Point for attention:** If finding some defects, notice the gaffer and assistant

Tabulator: Zhang Ying  
Issuing department: IE
For 17”

1. Loosen USB/B Screw *1 (6052A0029101) , Fig.1
   - Torsion: 1.0 ± 0.5 Kgf cm
   - Screws can’t be stripped.

2. Disassemble TOUCH PAD FFC from M/B (Fig.3).

### Point for attention:
If finding some defects, notice the gaffer and assistant

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
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<tbody>
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Working Instruction

Document No. : SOP S-SERIES FA dis-ASS’Y
Station : 18(1/1)
Name : Disassemble USB/B
Ver. : 1.00
Date : 2008/07/11

Point for attention:
If finding some defects, notice the gaffer and assistant

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<th>Fixture list (Fixture standard)</th>
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<tr>
<td>Automatic crossing screw driver</td>
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<td></td>
<td></td>
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</tbody>
</table>

Tabulator : Zhang Ying
Issuing department : IE

1. Loosen screws of USB/B (6052A0024301) *1, Disassemble USB/B from MB. (Fig.1)
   - Torsion : 1.0 ± 0.5 Kgf · cm
   - Screws can't be stripped.
2. If with Bluetooth, loosen screws of Bluetooth *2
   (Fig.4, Fig.5)
   - Torsion : 1.0 ± 0.5 Kgf · cm
   - Screws can't be stripped.
3. Take out Bluetooth & USB/B Cable from slot of BTCB. (Fig.2)

Fig.1

Fig.2

Fig.3

Fig.4

For 14”

Fig.5

Fig.2

Fig.1

Fig.3

Fig.4

Fig.5
1. Disassemble Bluetooth from MB. Fig. 1
2. Loosen screws of ODD extension board (6052A0004501) *2(Fig.2)
   - Torsion: 1.5 ± 0.5 Kgf·cm
   - Screws can't be stripped.
   - For 15” Only
3. Loosen screws of ODD extension board (6052A0004501) *2(Fig.3)
   - Torsion: 1.5 ± 0.5 Kgf·cm
   - Screws can't be stripped.
   - For 17” Only

Point for attention: If finding some defects, notice the gaffer and assistant

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<thead>
<tr>
<th>Fixture list (Fixtue standard)</th>
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<tbody>
<tr>
<td>Automatic crossing screw driver</td>
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</table>

Tabulator: Zhang Ying  Issuing department: IE
Automatic hexagonal screw driver 1

Point for attention: If finding some defects, notice the gaffer and assistant

<table>
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<tbody>
<tr>
<td>Tabulator</td>
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</tr>
</tbody>
</table>

Tabulator: Zhang Ying  Issuing department: IE
1. Loosen screws of M/B *1 (6052B0001601) (Fig.1,2)

- Torsion: 2.0 ± 0.5 Kgf · cm
- Screws can't be stripped or dropped into machine.

Point for attention: If finding some defects, notice the gaffer and assistant
Working Instruction

Document No. : SOP S-SERIES FA dis-ASS'Y

Station : 21(2/2)
Name : Pull out Connector of fan
Ver. : 1.00
Date : 2008/07/11

Pull out Connector of fan, Fig.1

Point for attention:
If finding some defects, notice the gaffer and assistant

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
<th>Fixture list (Fixture standard)</th>
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<tbody>
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Tabulator : Zhang Ying
Issuing department : IE
**Working Instruction**

**Document No.**: SOP S-SERIES FA dis-ASS'Y  
**Station**: 22(1/1)  
**Ver.**: 1.00  
**Date**: 2008/07/11

**Name**: Take out M/B  
**Issuing department**: Zhang Ying IE

---

**Point for attention**: If finding some defects, notice the gaffer and assistant

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

---

1. Take out M/B from BTCB.

---

**Fig.1**: ZZ/ZZI Fig.  
**Fig.2**: PP Fig.
Working Instruction

Document No.: SOP S-SERIES FA dis-ASS'Y

Name: Take down RJ11, take out ODD extension board, DDR2

Ver. 1.00

Issuing department: Zhang Ying, IE

Fig. 1

For 15”

For 17”

Fig. 2

Fig. 3

Point for attention: If finding some defects, notice the gaffer and assistant

<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>S Series ZI M/B Bside or PP M/B Bside assembling CPU or S Class ZZ M/B Bside mdc(RJ11)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Put MB on supporting fixture.
2. Take down DDR from MB.
3. Take down extension board of 15” ODD (Fig.2) or extension board of 17” ODD. (Fig.2)
4. Take down RJ11

Issuing department: Zhang Ying

IE

Date: 2008/07/11

Station: 23(1/1)
For platform without WLAN, needn’t to disassemble WLAN

1. Put MB on supporting fixture,
2. Loosen two screws (6052A0024301) and take down WLAN. (Fig.1)
3. Loosen screws of thermal elastic*2 (ZZI MB; Fig.2; PP MB; Fig.3)
   - Torsion: 1.5 ± 0.5 Kgf • cm

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
<th>Fixture list (Fixture standard)</th>
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<tbody>
<tr>
<td>Automatic crossing screw driver</td>
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<td>S Series ZZI M/B Bside or PP M/B Bside WL or S Class ZZ M/B Bside WL</td>
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</table>

Tabulator: Zhang Ying  Issuing department: IE
**Working Instruction**

**Document No.** : SOP S-SERIES FA dis-ASS'Y  
**Station** : 25(1/3)  
**Name** : Take down CPU THERMAL  
**Ver.** : 1.00  
**Date** : 2008/07/11

---

**For ZZ M/B**

**Fig.1**

1. Put MB on supporting fixture.
2. Loosen screws of thermal*4
   - Torsion : $1.5\pm0.5$ kgf/cm$^2$
   - Screws can't be stripped.
3. Take down CPU Thermal

---

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
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</thead>
<tbody>
<tr>
<td>Automatic crossing screw driver</td>
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<td>S Series ZI M/B Bside or PP M/B Bside thermal or S Class ZZ M/B Bside thermal</td>
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---

**Point for attention** : If finding some defects, notice the gaffer and assistant

---

**Tabulator** : Zhang Ying  
**Issuing department** : IE
## For ZZI M/B

![Image of ZZI M/B]

1. Put MB on supporting fixture.
2. Loosen screws of thermal*4
   - Torsion: 1.5±0.5kgf/cm²
   - Screws can't be stripped.
3. Take down CPU Thermal

---

### Point for attention:
If finding some defects, notice the gaffer and assistant

<table>
<thead>
<tr>
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<tr>
<td>Automatic crossing screw driver</td>
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<td>S Series ZZI M/B Bside thermal</td>
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<td></td>
<td></td>
<td>PP M/B Bside thermal</td>
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<td></td>
<td></td>
<td>S Class ZZI M/B Bside thermal</td>
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</tr>
</tbody>
</table>

Tabulator: Zhang Ying  
Issuing department: IE
For PP M/B

Fig.1

1. Put MB on supporting fixture.
2. Take down screws of thermal*4
   - Torsion: ±0.5kgf/cm*cm
   - Screws can't be stripped.
3. Take down CPU Thermal

<table>
<thead>
<tr>
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<tbody>
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<td>Automatic crossing screw driver</td>
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<td>S Class ZZ M/B Bside thermal</td>
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Point for attention: If finding some defects, notice the gaffer and assistant.
Working Instruction

Document No.: SOP S-SERIES FA dis-ASS’Y

Name: Take down MODEM

Point for attention:
If finding some defects, notice the gaffer and assistant

Tabulator: Zhang Ying
Issuing department: IE

1. Put M/B on supporting fixture.
2. Loosen screws of MODEM (6052A0024301) * 2 (Fig.1,2)
   ▶ Torsion: 1.5 ± 0.5 Kgf. cm
3. Take down MDM

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
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<td>PP M/B Bside mdc(RJ11)</td>
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<td>or</td>
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<tr>
<td></td>
<td></td>
<td>S Class ZZ M/B Bside CPU-BACKING</td>
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</tbody>
</table>

Issuing department: Zhang Ying

Ver. 1.00  Date: 2008/07/11
Working Instruction

Take down RJ11

1. Take down MODEM from M/B (Fig.2)
2. Take down RJ11 CABLE (6017B0119501) from Modem. (Fig.1)

Point for attention: If finding some defects, notice the gaffer and assistant

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
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</thead>
<tbody>
<tr>
<td>PP M/B Bside</td>
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<tr>
<td>or ZI M/B Bside</td>
<td>1</td>
</tr>
<tr>
<td>or ZZ M/B Bside</td>
<td>1</td>
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</tbody>
</table>

Tabulator: Zhang Ying
Issuing department: IE
1. Put MB on supporting fixture.
2. Take down CPU with suck pen.
   (take down it in counter clockwise)

**Point for attention:** If finding some defects, notice the gaffer and assistant

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
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<td>or</td>
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<td>PP M/B Bside CUP-BACKING</td>
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<td>S Class ZZ M/B Bside</td>
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<td>组装</td>
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Tabulator: Zhang Ying  
Issuing department: IE