# Product End-of-Life Disassembly Instructions

**Product Category:** Notebooks and Tablet PCs

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

HP Slate 7 extreme

## 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 1</td>
<td>1</td>
</tr>
<tr>
<td>Batteries</td>
<td>All types including standard alkaline and lithium coin or button style batteries 1</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></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 16cmx10cm</td>
<td>1</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>1</td>
<td>1</td>
</tr>
<tr>
<td>Gas Discharge Lamps</td>
<td>0</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></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>
</tbody>
</table>

PSG instructions for this template are available at EL-MF877-01
Components, parts and materials containing refractory ceramic fibers | 0
Components, parts and materials containing radioactive substances | 0

### 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>Phillips Head Screwdriver</td>
<td></td>
</tr>
<tr>
<td>Soldering Iron</td>
<td></td>
</tr>
<tr>
<td>Tweezers (to pry cover off)</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. 
2. 
3. 
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).

3.21 Total part disassembly

3.22 Remove battery module

3.23 Remove service door

3.24 LCD module set disassembly

3.25 Top case disassembly

3.26 Thermal module and mother board disassembly

3.27 Bottom case disassembly
# (Provisional) Standard Operating Procedure

## Standard Operating Procedure

### Operations Content:
1. Take a phone that was processed completely from the assembly line and place it on the work counter.
2. First, remove the stylus from the phone, and then remove the casing.
3. Then place the stylus and the casing into the materials box.

### Production Matters Requiring Attention:
1. The operator must wear a working electrostatic ring during the procedure (checked prior to entering the assembly line).
2. Operators or others in direct contact with the product cannot wear any metal or non-metallic jewelry during assembly, have long fingernails come in contact with the product, so as to not scratch the product.
3. Keep work surfaces and area clean.

### Enclosed Illustration

- Remove the stylus from the phone
- Remove the casing from the phone

### Components Used

<table>
<thead>
<tr>
<th>Component Name &amp; Specs</th>
<th>Component No.</th>
<th>Quantity</th>
<th>Position</th>
</tr>
</thead>
</table>

### Tools Used

<table>
<thead>
<tr>
<th>Name of Tool</th>
<th>Tool No.</th>
<th>Quantity</th>
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</thead>
</table>

### Revision History

<table>
<thead>
<tr>
<th>Project Mgmt</th>
<th>Project Value</th>
<th>Required to wear an electrostatic ring</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Approved</td>
</tr>
</tbody>
</table>

- Finger cots needs to be worn for designated fingers that have boxes filled in black above

- Yan Shuzhang
  2013-07-19
(Provisional) Standard Operating Procedure

STANDARD OPERATING PROCEDURE

<table>
<thead>
<tr>
<th>Machine Type</th>
<th>TT7</th>
<th>Process Procedure</th>
<th>Disassembly</th>
<th>Station</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Main Station</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Operations Content:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Take a phone that was processed completely from the assembly line and place it on the work counter.</td>
</tr>
<tr>
<td>2. First, remove one corner of the phone, and then use tweezers to separate the bottom and top casings. Care should be taken during the disassembly process in order to prevent damage to top and bottom casings. (Right Diagram)</td>
</tr>
<tr>
<td>3. After the process is complete, place non-defective items into the downstream assembly line.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Production Matters Requiring Attention:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. The operator must wear a working electrostatic ring during the procedure (checked prior to entering the assembly line)</td>
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<tr>
<td>2. Operators or others in direct contact with the product cannot wear any metal or non-metallic jewelry during assembly, have long fingernails come in contact with the product, so as to not scratch the product.</td>
</tr>
<tr>
<td>3. Keep work surfaces and area clean.</td>
</tr>
<tr>
<td>4. Before snapping on the bottom casing, the camera hole needs to be clean and free from dust and dirt or other undesirable elements.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Job Name</th>
<th>Removal of Bottom Casing</th>
<th>Standard Time (S)</th>
<th>Doc No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Enclosed Illustration

Components Used

<table>
<thead>
<tr>
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<th>Position</th>
</tr>
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</table>

Tools Used

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<thead>
<tr>
<th>Name of Tool</th>
<th>Tool No.</th>
<th>Quantity</th>
</tr>
</thead>
</table>

Revision History

<table>
<thead>
<tr>
<th>Project Mgmt</th>
<th>Project Value</th>
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</table>

Required to wear an electrostatic ring

<table>
<thead>
<tr>
<th>Approved</th>
<th>Verified</th>
<th>Completed</th>
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</thead>
</table>

Finger cots needs to be worn for designated fingers that have boxes filled in black above

Yan Shuzhang
2013-07-19
(Provisional) Standard Operating Procedure

STANDARD OPERATING PROCEDURE

Machine Type | TT7
---|---
Process Procedure | Disassembly
---|---
Station | Main Station
---|---
Job Name | Removal of Stylus/Casing
Standard Time | (S)
Doc No. | Page
---|---
Version | 1

Operations Content:
1. Take a phone that was processed completely from the assembly line and place it on the work counter.
2. Tear off the mylar film, and place it in the materials box. Then remove the 2 pieces of insulation glue. (Diagram 1)
3. After the process is completed, place the phone on the downstream assembly line for the next process.

Production Matters Requiring Attention:
1. The operator must wear a working electrostatic ring during the procedure (checked prior to entering the assembly line)
2. Keep work surfaces and area clean.
3. Operators or others in direct contact with the product cannot wear any metal or non-metallic jewelry during assembly, have long fingernails come in contact with the product, so as to not scratch the product.

Enclosed Illustration

Components Used

<table>
<thead>
<tr>
<th>Component Name &amp; Specs</th>
<th>Component No.</th>
<th>Quantity</th>
<th>Position</th>
<th>Name of Tool</th>
<th>Tool No.</th>
<th>Quantity</th>
<th>Project No.</th>
<th>Date</th>
<th>Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solder Temperature</td>
<td>370±10℃</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Soldering Time</td>
<td>Single touch for 2-3 seconds</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Required to wear an electrostatic ring

Finger cots needs to be worn for designated fingers that have boxes filled in black above

Yan Shuzhang
2013-07-19
# (Provisional) Standard Operating Procedure

## STANDARD OPERATING PROCEDURE

<table>
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<th>TT7</th>
<th>Process Procedure</th>
<th>Disassembly</th>
<th>Station</th>
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<td></td>
<td>Main Station</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td>22</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 4.22 Job Name: Removal of Foam (3) from Battery

### Standard Time: (S)

### Doc No.

### Page Version: 1

## Operations Content:

1. Take a phone that was processed completely from the assembly line and place it on the work counter.
2. Remove 3 strips of foam from the phone. (Right Diagram)
3. After the procedure is completed, place non-defective items onto the downstream assembly line.

## Production Matters Requiring Attention:

1. The operator must wear a working electrostatic ring during the procedure (checked prior to entering the assembly line)
2. Keep work surfaces and area clean.
3. Operators or others in direct contact with the product cannot wear any metal or non-metallic jewelry during assembly, have long fingernails come in contact with the product, so as to not scratch the product.

---

## Enclosed Illustration

![Illustration of Phone Disassembly]

- **Remove 3 strips of foam from the phone**

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## Components Used

<table>
<thead>
<tr>
<th>Component Name &amp; Specs</th>
<th>Component No.</th>
<th>Quantity</th>
<th>Position</th>
</tr>
</thead>
</table>

## Tools Used

<table>
<thead>
<tr>
<th>Name of Tool</th>
<th>Tool No.</th>
<th>Quantity</th>
<th>Project No.</th>
<th>Date</th>
<th>Changes</th>
</tr>
</thead>
</table>

## Revision History

- **Required to wear an electrostatic ring**

| Finger cots needs to be worn for designated fingers that have boxes filled in black above |

<table>
<thead>
<tr>
<th>Project Mgmt</th>
<th>Project Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solder Temperature</td>
<td>370±10°C</td>
</tr>
<tr>
<td>Soldering Time</td>
<td>Single touch for 2-3 seconds</td>
</tr>
</tbody>
</table>

| Yan Shuzhang | 2013-07-19 |

---

- **Necessary**
- **Not Necessary**

---

- **Approved**
- **Verified**
- **Completed**
(Provisional) Standard Operating Procedure

STANDARD OPERATING PROCEDURE

Machine Type | TT7
Process Procedure | Disassembly
Station | Main Station
Job Name | Removal of Insulation Sticker | Standard Time (S) | Doc No.

Operations Content:
1. Take a phone that was processed completely from the assembly line and place it on the work counter.
2. Tear off the insulation sticker from the right speaker; tear off the insulation glue on the side of the magnet next to the rear camera; remove the plastic glue on the connecting deck of the I/O base plate; remove the insulation glue on the TP/LCD cable; remove the insulation glue on the rear camera (Right Diagram)
3. After the process is completed, place the phone on the downstream assembly line for the next process.

Production Matters Requiring Attention:
1. The operator must wear a working electrostatic ring during the procedure (checked prior to entering the assembly line)
2. Keep work surfaces and area clean.
3. Operators or others in direct contact with the product cannot wear any metal or non-metallic jewelry during assembly, have long fingernails come in contact with the product, so as to not scratch the product.

Components Used

<table>
<thead>
<tr>
<th>Component Name &amp; Specs</th>
<th>Component No.</th>
<th>Quantity</th>
<th>Position</th>
<th>Name of Tool</th>
</tr>
</thead>
</table>

Required to wear an electrostatic ring

- [ ] Necessary
- [ ] Not Necessary

Tools Used

<table>
<thead>
<tr>
<th>Name of Tool</th>
<th>Tool No.</th>
<th>Quantity</th>
<th>Project No.</th>
<th>Date</th>
<th>Changes</th>
</tr>
</thead>
</table>

Revision History

- [ ] Approved
- [ ] Verified
- [ ] Completed

Yan Shuzhang
2013-07-19
(Provisional) Standard Operating Procedure

STANDARD OPERATING PROCEDURE

Machine Type | TT7 | Process Procedure | Disassembly | Station | Main Station | 6 | 22 | Job Name | Removal of the Foam from the Copper Piece/Removal of Copper Piece from Top Casing | Standard Time (S) | Doc No. | Page Version | 1

Operations Content:
1. Take a phone that was processed completely from the assembly line and place it on the work counter.
2. Individually remove the 3 strips of foam from the copper piece, and place it in the materials box. Then remove the copper piece from the top casing. (Right Diagram)
3. After the process is completed, place the phone on the downstream assembly line for the next process.

Production Matters Requiring Attention:
1. The operator must wear a working electrostatic ring during the procedure (checked prior to entering the assembly line)
2. Keep work surfaces and area clean.
3. Operators or others in direct contact with the product cannot wear any metal or non-metallic jewelry during assembly, have long fingernails come in contact with the product, so as to not scratch the product.

Components Used | Tools Used | Revision History

<table>
<thead>
<tr>
<th>Component Name &amp; Specs</th>
<th>Component No.</th>
<th>Quantity</th>
<th>Position</th>
<th>Name of Tool</th>
<th>Tool No.</th>
<th>Quantity</th>
<th>Project No.</th>
<th>Date</th>
<th>Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solder Temperature</td>
<td>370±10°C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solder Time</td>
<td>Single touch for 2-3 seconds</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Finger cots needs to be worn for designated fingers that have boxes filled in black above

Required to wear an electrostatic ring

Necessary

Not Necessary

Approved

Verified

Completed

Yan Shuzhang
2013-07-19
(Provisional) Standard Operating Procedure

STANDARD OPERATING PROCEDURE

Machine Type | TT7
---|---
Process Procedure | Disassembly
Station | Main Station
7 | 22

<table>
<thead>
<tr>
<th>Job Name</th>
<th>Removal of Hall Sensors</th>
<th>Standard Time</th>
<th>(S)</th>
</tr>
</thead>
</table>

Operations Content:
1. Take a phone that was processed completely from the assembly line and place it on the work counter.
2. Take the phone and remove from it the hall sensors. Be careful not to tear the wire soldered on the hall sensor to avoid it from becoming defective. (Right Diagram)
3. After the process is completed, place the phone on the downstream assembly line for the next process.

Production Matters Requiring Attention:
1. The operator must wear a working electrostatic ring during the procedure (checked prior to entering the assembly line)
2. Keep work surfaces and area clean.
3. Operators or others in direct contact with the product cannot wear any metal or non-metallic jewelry during assembly, have long fingernails come in contact with the product, so as to not scratch the product.

Enclosed Illustration

![Illustration of a phone with hall sensors]

Components Used

<table>
<thead>
<tr>
<th>Component Name &amp; Specs</th>
<th>Component No.</th>
<th>Quantity</th>
<th>Position</th>
<th>Name of Tool</th>
<th>Tool No.</th>
<th>Quantity</th>
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Tools Used

<table>
<thead>
<tr>
<th>Name of Tool</th>
<th>Tool No.</th>
<th>Quantity</th>
</tr>
</thead>
</table>

Revision History

<table>
<thead>
<tr>
<th>Project Mgmt</th>
<th>Project Value</th>
<th>Date</th>
<th>Changes</th>
</tr>
</thead>
</table>

Solder Temperature

<table>
<thead>
<tr>
<th>Soldering Time</th>
<th>Single touch for 2-3 seconds</th>
</tr>
</thead>
</table>

Finger cots needs to be worn for designated fingers that have boxes filled in black above

Required to wear an electrostatic ring

<table>
<thead>
<tr>
<th>Necessary</th>
<th>Not Necessary</th>
</tr>
</thead>
</table>

Approved | Verified | Completed

Yan Shuzhang
2013-07-19
STANDARD OPERATING PROCEDURE

Machine Type: TT7
Process Procedure: Disassembly
Station: Main Station
Job Name: Removal of Battery Wire
Standard Time (S): Doc No.: Page
Version: 1

Operations Content:
1. Take a phone that was processed completely from the assembly line and place it on the work counter.
2. Take the solder and use it to completely remove the battery in accordance to the black, white, green and red points. (Right Diagram)
3. After the procedure is completed, place non-defective items onto the downstream assembly line.

Production Matters Requiring Attention:
1. The operator must wear a working electrostatic ring during the procedure (checked prior to entering the assembly line)
2. Keep work surfaces and area clean.
3. Operators or others in direct contact with the product cannot wear any metal or non-metallic jewelry during assembly, have long fingernails come in contact with the product, so as to not scratch the product.

Enclosed Illustration

Components Used
Component Name & Specs
Component No.
Quantity
Position
Name of Tool
Tool No.
Quantity
Project No.
Date
Changes
Soldering Iron
1

Tools Used

Revision History

Project Mgmt
Project Value

Solder Temperature
370±10°C

Solder Time
Single touch for 2-3 seconds

Required to wear an electrostatic ring

Approved
Verified
Completed

Finger cots needs to be worn for designated fingers that have boxes filled in black above

Necessary
Not Necessary

Yan Shuzhang
2013-07-19
(Provisional) Standard Operating Procedure

Machine Type: TT7
Process Procedure: Disassembly
Station: Main Station

Operations Content:
1. Take a phone that was processed completely from the assembly line and place it on the work counter.
2. Use the soldering iron and remove the left speaker wire in accordance to the red ‘+’ and black ‘-’ points. (Right Diagram)
3. Use the soldering iron and remove the right speaker wire in accordance to the red ‘+’ and black ‘-’ points. (Right Diagram)
4. After the process is completed, place the phone on the downstream assembly line for the next process.

Production Matters Requiring Attention:
1. The operator must wear a working electrostatic ring during the procedure (checked prior to entering the assembly line)
2. Operators or others in direct contact with the product cannot wear any metal or non-metallic jewelry during assembly, have long fingernails come in contact with the product, so as to not scratch the product.
3. Keep work surfaces and area clean.

Components Used

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<thead>
<tr>
<th>Component Name &amp; Specs</th>
<th>Component No.</th>
<th>Quantity</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soldering Iron</td>
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Tools Used

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<tr>
<th>Name of Tool</th>
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<td>Soldering Time</td>
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</tr>
</tbody>
</table>

Required to wear an electrostatic ring

- Finger cots needs to be worn for designated fingers that have boxes filled in black above

Yan Shuzhang
2013-07-19
Operations Content:
1. Take a phone that was processed completely from the assembly line and place it on the work counter.
2. Use the soldering iron and remove the GPS/WIFI antenna from the phone. (Right Diagram)
3. After the procedure is completed, place non-defective items onto the downstream assembly line.

Production Matters Requiring Attention:
1. The operator must wear a working electrostatic ring during the procedure (checked prior to entering the assembly line)
2. Operators or others in direct contact with the product cannot wear any metal or non-metallic jewelry during assembly, have long fingernails come in contact with the product, so as to not scratch the product.
3. Keep work surfaces and area clean.

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

Revision History

Required to wear an electrostatic ring

- Necessary
- Not Necessary

- Approved
- Verified
- Completed

Yan Shuzhang
2013-07-19
**Provisional Standard Operating Procedure**

**STANDARD OPERATING PROCEDURE**

**Machine Type**: TT7  
**Process Procedure**: Disassembly  
**Station**: Main Station  
**Job Name**: TT7 Removal of Hall Sensors  
**Standard Time**: (S)  
**Doc No.**:  
**Page Version**: 1

### Operations Content:
1. Take a phone that was processed completely from the assembly line and place it on the work counter.
2. Use the soldering iron and remove the Hall sensors in accordance to the yellow, blue and yellow order. (Right Diagram)
3. After the procedure is completed, place non-defective items onto the downstream assembly line.

### Production Matters Requiring Attention:
1. The operator must wear a working electrostatic ring during the procedure (checked prior to entering the assembly line)
2. Operators or others in direct contact with the product cannot wear any metal or non-metallic jewelry during assembly, have long fingernails come in contact with the product, so as to not scratch the product.
3. Keep work surfaces and area clean.

---

**Components Used**

<table>
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**Revision History**

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**Required to wear an electrostatic ring**

- [ ] Necessary  
- [x] Not Necessary

---

Finger cots needs to be worn for designated fingers that have boxes filled in black above

---

Enclosed Illustration

Use the soldering iron and remove the Hall sensors in accordance to the yellow, blue and yellow order.

---

**Yan Shuzhang**  
2013-07-19
(Provisional) Standard Operating Procedure

STANDARD OPERATING PROCEDURE

<table>
<thead>
<tr>
<th>Machine Type</th>
<th>TT7</th>
<th>Process Procedure</th>
<th>Disassembly</th>
<th>Station</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tbody>
</table>

**Operations Content:**

1. Take a phone that was processed completely from the assembly line and place it on the work counter.
2. Take the phone and remove the battery from the top casing and place it in the materials box. The exposed core wire needs to be wrapped up with a shrinkable tube after being taken out. (Right Diagram)
3. After the procedure is completed, place non-defective items onto the downstream assembly line.

**Production Matters Requiring Attention:**

1. The operator must wear a working electrostatic ring during the procedure (checked prior to entering the assembly line)
2. Operators or others in direct contact with the product cannot wear any metal or non-metallic jewelry during assembly, have long fingernails come in contact with the product, so as to not scratch the product.
3. Keep work surfaces and area clean.

**Components Used**

<table>
<thead>
<tr>
<th>Component Name &amp; Specs</th>
<th>Component No.</th>
<th>Quantity</th>
<th>Position</th>
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**Tools Used**

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**Revision History**

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Required to wear an electrostatic ring

- Necessary
- Not Necessary

Approved | Verified |
---|---|
- | |

Yan Shuzhang
2013-07-19
(Provisional) Standard Operating Procedure

STANDARD OPERATING PROCEDURE

Machine Type: TT7
Process Procedure: Disassembly
Station: Main Station

Job Name: Removal of Left Speaker Screw (1) / Removal of Left Speaker from Top Casing
Standard Time: (S)
Doc No.

Operations Content:
1. Take a phone that was processed completely from the assembly line and place it on the work counter.
2. Use the electric screwdriver and remove the screws from the left speaker and place them in the materials box. Then remove the left speaker and place it in the materials box. (Right Diagram)
3. After the procedure is completed, place the phone onto the downstream assembly line.

Production Matters Requiring Attention:
1. The operator must wear a working electrostatic ring during the procedure (checked prior to entering the assembly line)
2. Operators or others in direct contact with the product cannot wear any metal or non-metallic jewelry during assembly, have long fingernails come in contact with the product, so as to not scratch the product.
3. Keep work surfaces and area clean.

Components Used
<table>
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<th>Position</th>
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<tbody>
<tr>
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Tools Used
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Required to wear an electrostatic ring
- Necessary
- Not Necessary

Finger cots needs to be worn for designated fingers that have boxes filled in black above

Use the electric screwdriver and remove the screws from the left speaker and place them in the materials box
Then remove the left speaker and place it in the materials box
(Provisional) Standard Operating Procedure

STANDARD OPERATING PROCEDURE

Machine Type | TT7  
Process Procedure | Disassembly  
Station | 14  
Main Station | 22  
Job Name | Removal of Insulation Glue between the TP and Motherboard Cable Insert/Removal of TP Screen Cable/Removal of the FPC Conductive Fabric from LCD/Removal of the LCD Cable/Removal of Attachment Plate Cable  
Standard Time | (S)  
Doc No. | Page Version |  
1

Operations Content:
1. Take a phone that was processed completely from the assembly line and place it on the work counter.
2. First, remove the insulation glue between the TP and the motherboard cable insert. Then open the TP cable port, then remove the TP screen cable. (Right Diagram)
3. Remove the FPC conductive cloth from the LCD and place it in the materials box. Then open the LCD cable port and remove the LCD cable. (Right Diagram)
4. Open the cable port of the attachment plate and remove the attachment plate cable. Position. (Right Diagram)
5. After the process is completed, place the phone on the downstream assembly line for the next process.

Production Matters Requiring Attention:
1. The operator must wear a working electrostatic ring during the procedure (checked prior to entering the assembly line)
2. Operators or others in direct contact with the product cannot wear any metal or non-metallic jewelry during assembly, have long fingernails come in contact with the product, so as to not scratch the product.
3. Keep work surfaces and area clean.

Components Used

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<td></td>
<td>Yan Shuzhang 2013-07-19</td>
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Finger cots needs to be worn for designated fingers that have boxes filled in black above
Operations Content:
1. Take a phone that was processed completely from the assembly line and place it on the work counter.
2. First, remove the foam behind the front-facing camera and place in the materials box. Then open the motherboard strip and remove the front-facing camera on the top casing strip. Then open the motherboard strip and remove the rear camera on the top casing strip. (Right Diagram)
3. After the procedure is completed, place on the downstream assembly line.

Production Matters Requiring Attention:
1. The operator must wear a working electrostatic ring during the procedure.
2. Keep work surfaces and area clean.
3. Operators or others in direct contact with the product cannot wear any metal or non-metallic jewelry during assembly, have long fingernails come in contact with the product, so as to not scratch the product.

Components Used

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Revision History

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Components Used

- Required to wear an electrostatic ring

- Finger cots needs to be worn for designated fingers that have boxes filled in black above

Tools Used

- Approved
- Verified
- Completed

Yan Shuzhang
2013-07-19
(Provisional) Standard Operating Procedure

STANDARD OPERATING PROCEDURE

Machine Type | TT7  | Process Procedure | Disassembly | Station | Main Station |
|--------------|------|-------------------|-------------|---------|--------------|

### Operations Content:
1. Take a phone that was processed completely from the assembly line and place it on the work counter.
2. Take the electric screwdriver and use it in order from 1/2/3/4/5/6/7 to remove the screws and place it in the materials box. (Right Diagram)
3. Take the electric screwdriver and use it in order from 8/9 to remove the screws and place it in the materials box. (Right Diagram)
4. After the process is completed, place the phone on the downstream assembly line for the next process.

### Production Matters Requiring Attention:
1. The operator must wear a working electrostatic ring during the procedure (checked prior to entering the assembly line)
2. Operators or others in direct contact with the product cannot wear any metal or non-metallic jewelry during assembly, have long fingernails come in contact with the product, so as to not scratch the product.
3. Keep work surfaces and area clean.

### Components Used

<table>
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<th>Component Name &amp; Specs</th>
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Finger cots needs to be worn for designated fingers that have boxes filled in black above

<table>
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<tr>
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<td>Yan Shuzhang 2013-07-19</td>
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</table>
(Provisional) Standard Operating Procedure

STANDARD OPERATING PROCEDURE

Machine Type: TT7

Process Procedure: Disassembly

Station: Main Station

Job Name: Removal of Motherboard/Right Speaker from the Top Casing

Standard Time: (S)

Doc No.

Page

Version

1

Operations Content:
1. Take a phone that was processed completely from the assembly line and place it on the work counter.
2. Take the phone and remove the motherboard from the top casing and place it in the materials box. Then remove the speaker from the top casing and place in the materials box. (Right Diagram)
3. After the procedure is completed, place non-defective items onto the downstream assembly line.

Production Matters Requiring Attention:
1. The operator must wear a working electrostatic ring during the procedure (checked prior to entering the assembly line)
2. Operators or others in direct contact with the product cannot wear any metal or non-metallic jewelry during assembly, have long fingernails come in contact with the product, so as to not scratch the product.
3. Keep work surfaces and area clean.

Enclosed Illustration

Components Used

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Required to wear an electrostatic ring

- [ ] Necessary
- [ ] Not Necessary

Finger cots needs to be worn for designated fingers that have boxes filled in black above

Approved

Verified

Completed

Yan Shuzhang

2013-07-19
## Standard Operating Procedure

**Machine Type:** TT7  
**Process Procedure:** Disassembly  
**Station:** Main Station  
**Job Name:** Removal of Attachment Plate Screws/Removal of I/O Frame  
**Standard Time:** 18 (S)  
**Doc No.:** 22  
**Page Version:** 1

### Operations Content:
1. Take a phone that was processed completely from the assembly line and place it on the work counter.
2. Use the electric screwdriver and remove the screws in accordance with the 1/2/3 in order and place in the materials box. Then remove the I/O frame from the top casing and place in the materials box. (Right Diagram)
3. After the procedure is completed, place the phone onto the downstream assembly line.

### Production Matters Requiring Attention:
1. The operator must wear a working electrostatic ring during the procedure (checked prior to entering the assembly line)
2. Operators or others in direct contact with the product cannot wear any metal or non-metallic jewelry during assembly, have long fingernails come in contact with the product, so as to not scratch the product.
3. Keep work surfaces and area clean.

### Components Used

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### Tools Used

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**Finger cots needs to be worn for designated fingers that have boxes filled in black above**

---

**Enclosed Illustration**

- **Left Hand:**
  - Required to wear an electrostatic ring
  - Necessary

- **Right Hand:**
  - Required to wear an electrostatic ring
  - Not Necessary

**Approved**
- Yan Shuzhang 2013-07-19
# Machine Type

**Machine Type:** TT7

## Process Procedure

### Disassembly

<table>
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## Job Name

### Removal of WIFI & GPS antenna/Attachment Plate from Top Casing/Removal of Attachment Plate Cable

## Standard Time

- **(S)**
- **Doc No.**
- **Page**
- **Version**

## Operations Content:

1. Remove a complete top casing from the previous procedure on the assembly line and place it on the working counter.
2. Remove the WIFI & GPS antenna from the top casing and place in the materials box. Then remove the attachment plate from within the top casing and opening the attachment plate port, remove the attachment plate cable. (Right Diagram)
3. After the procedure is completed, place non-defective items onto the downstream assembly line.

## Production Matters Requiring Attention:

1. The operator must wear a working electrostatic ring during the procedure (checked prior to entering the assembly line)
2. Operators or others in direct contact with the product cannot wear any metal or non-metallic jewelry during assembly, have long fingernails come in contact with the product, so as to not scratch the product.
3. Keep work surfaces and area clean.

## Components Used

<table>
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## Tools Used

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## Revision History

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<th>Project Value</th>
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### Finger cots needs to be worn for designated fingers that have boxes filled in black above

---

**Enclosed Illustration**

1. Remove the WIFI & GPS antenna from the top casing and place in the materials box.
2. Opening the attachment plate port, remove the attachment plate cable.

---

**Components Used**

- **Component Name & Specs**
- **Component No.**
- **Quantity**
- **Position**

**Tools Used**

- **Name of Tool**
- **Tool No.**
- **Quantity**

**Revision History**

- **Project Mgmt**
- **Project Value**

---

**Required to wear an electrostatic ring**

- **Necessary**
- **Not Necessary**

**Yan Shuzhang**

**2013-07-19**
# Machine Type
TT7

## Process Procedure
Disassembly

## Station
Main Station

<table>
<thead>
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<th>Machine Type</th>
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<th>Disassembly</th>
<th>Station</th>
<th>Ops</th>
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## Operations Content:

1. Take a phone that was processed completely from the assembly line and place it on the work counter.
2. Take a phone and use tweezers to individually remove the magnets on the left and right place in the materials box.
   (Right Diagram)
3. After the process is completed, place the phone on the downstream assembly line for the next process.

## Production Matters Requiring Attention:

1. The operator must wear a working electrostatic ring during the procedure (checked prior to entering the assembly line)
2. Operators or others in direct contact with the product cannot wear any metal or non-metallic jewelry during assembly, have long fingernails come in contact with the product, so as to not scratch the product.
3. Keep work surfaces and area clean.

---

### Enclosed Illustration

- Use tweezers to individually remove the magnets on the left and right place in the materials box.

---

### Components Used

<table>
<thead>
<tr>
<th>Component Name &amp; Specs</th>
<th>Component No.</th>
<th>Quantity</th>
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### Tools Used

<table>
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### Revision History

- **Required to wear an electrostatic ring**
- **Necessary**
- **Not Necessary**

---

**Project Mgmt**: Yan Shuzhang

**Project Value**: 2013-07-19

---

Finger cots needs to be worn for designated fingers that have boxes filled in black above.
(Provisional) Standard Operating Procedure

Standard Operating Procedure

<table>
<thead>
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<th>TT7</th>
<th>Process Procedure</th>
<th>Disassembly</th>
<th>Station</th>
<th>21</th>
<th>22</th>
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<th>Removal of Speaker Mesh from Top Casing</th>
<th>Standard Time</th>
<th>(S)</th>
<th>Doc No.</th>
<th>Page Version</th>
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</thead>
</table>
| **Operations Content:** |     | 1. Take a phone that was processed completely from the assembly line and place it on the work counter.  
2. Individually remove the left and right speaker meshes from within the top casing. (Right Diagram)  
3. After the process is completed, place the phone on the downstream assembly line for the next process. |     |     |     |     |     |                                      |               |     |         |              |
|     |     | **Production Matters Requiring Attention:** |     |     |     |     |     |                                      |               |     |         |              |
|     |     | 1. The operator must wear a working electrostatic ring during the procedure (checked prior to entering the assembly line)  
2. Operators or others in direct contact with the product cannot wear any metal or non-metallic jewelry during assembly, have long fingernails come in contact with the product, so as to not scratch the product.  
3. Keep work surfaces and area clean. |     |     |     |     |     |                                      |               |     |         |              |

**Components Used**

- Component Name & Specs
- Component No.
- Quantity
- Position

**Tools Used**

- Name of Tool
- Tool No.
- Quantity
- Project No.

**Revision History**

- Project Mgmt
- Project Value

**Enclosed Illustration**

Individual removal of the left and right speaker meshes from within the top casing

- Finger cot needs to be worn for designated fingers that have boxes filled in black above

- Required to wear an electrostatic ring

- Project Mgmt: Yan Shuzhang
- Date: 2013-07-19

- Necessary
- Not Necessary
Provisional Standard Operating Procedure

STANDARD OPERATING PROCEDURE

Machine Type | TT7
---|---
Process Procedure | Disassembly
Station | Main Station

<table>
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<th>22</th>
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</table>

Operations Content:
1. Take a 1PCS disassembled TP on the work counter.
2. First, place the 1PCS disassembled TP on the heating machine specially for disassembling TP, wait 2 minutes and remove the disassembled TP. (Diagram 1) Use a syringe to inject the universal glue remover, and then use hands to separate the TP from the middle frame. Then, use the eye cloth dabbled in the universal glue remover completely remove TP from the middle frame. (Diagram 2)
3. Carefully arrange the TP and the middle frame after separation.

Production Matters Requiring Attention:
1. TP must be held carefully.

### Components Used

<table>
<thead>
<tr>
<th>Component Name &amp; Specs</th>
<th>Component No.</th>
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### Tools Used

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</tbody>
</table>

| Required to wear an electrostatic ring |
|---|---|
| Necessary | Not Necessary |

Finger cots needs to be worn for designated fingers that have boxes filled in black above

Approved | Verified | Completed
---|---|---
| | |

Yan Shuzhang 2013-07-19

W1-004-FM01-5