Product End-of-Life Disassembly Instructions

Product Category: Notebooks and Tablet PCs

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

| HP 348 G7 Notebook PC |

Purpose: The document is intended for use by end-of-life recyclers or treatment facilities. It provides the basic instructions for the disassembly of HPI products to remove components and materials requiring selective treatment, as defined by EU directive 2012/19/EC, Waste Electrical and Electronic Equipment (WEEE).

NOTE: Recyclers should sort plastic materials into resin streams for recycling based on the ISO 11469 plastic marking code on the plastic part. For any questions on plastic marking, please contact HP's Sustainability Contact.

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>4</td>
</tr>
<tr>
<td>Batteries, excluding Li-Ion batteries.</td>
<td>All types including standard alkaline, coin or button style batteries</td>
<td>0</td>
</tr>
<tr>
<td>Li-Ion batteries. Include all Li-Ion batteries if more than one is provided with the product (such as a detachable notebook keyboard battery, RTC coin cell, etc.)</td>
<td>Battery(ies) are attached to the product by (check all that apply with an “x” inside the “[ ]”): [ ] screws [ ] snaps [ ] adhesive [ ] other. Explain _____</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>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>DC Cable for External Power Supply</td>
<td>1</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)</td>
<td></td>
<td>0</td>
</tr>
</tbody>
</table>

NOTE: Add detailed removal procedures including required tools in the sections 3.1 and 3.2.

HPI instructions for this template are available at [EL-MF877-01](EL-MF877-01)
### Item Description | Notes | Quantity of items included in product
--- | --- | ---
already listed as a separate item above) | | |
Components and parts containing toner and ink, including liquids, semi-liquids (gel/paste) and toner | Include the 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

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>Electric screwdriver (Cross)</td>
<td>Cross, #1</td>
</tr>
<tr>
<td>Screwdriver #2</td>
<td></td>
</tr>
<tr>
<td>Screwdriver #3</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 including the required steps to remove the external enclosure:

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. 

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:** Silverbell

<table>
<thead>
<tr>
<th>Station</th>
<th>Ver.</th>
<th>1.00</th>
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</table>

**B. Version Modify List:**

<table>
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<td>2019/9/18</td>
<td>ALL</td>
<td>First version SOP for dismantling</td>
<td>1.**</td>
<td>Yang.Mik</td>
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</tbody>
</table>

Auditor: Zhou.Hong  Tabulation: Zhu.Ya
Steps:

1. Take down the rubber *2pcs marked in red frame.

<table>
<thead>
<tr>
<th>Color</th>
<th>Rubber-front</th>
<th>Rubber-Rear</th>
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</thead>
<tbody>
<tr>
<td>Pick silver</td>
<td>6054B2050001</td>
<td>6054B2049901</td>
</tr>
<tr>
<td>Stone silver</td>
<td>6054B2162201</td>
<td>6054B2162101</td>
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</tbody>
</table>

Attention: If abnormal condition happens, please contact foreman or assistant immediately.

<table>
<thead>
<tr>
<th>Jig list(Jig specification)</th>
<th>QTY</th>
<th>Jig list(Jig specification)</th>
<th>QTY</th>
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</thead>
<tbody>
<tr>
<td>Electric screw driver</td>
<td>1</td>
<td></td>
<td></td>
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</tbody>
</table>
Steps:

1. Take down screw M2.5x4 2pcs. Pay attention to color of the NB.
   - Pick silver: Screw P/N: 6052B0424501
   - Stone silver: Screw P/N: 6052B0101901
   - Dismantling Sequence 1 → 2
2. Take down screw M2.5x6 (6052A0029201)*4
   - Screwdriver bits model: #1
   - Torsion: 2.0 ± 0.30 Kgf · cm
   - Dismantling Sequence 3 → 4 → 5 → 6
   - Recycle screw separately.

Attention: If abnormal condition happens, please contact foreman or assistant immediately.

<table>
<thead>
<tr>
<th>Jig list (Jig specification)</th>
<th>QTY</th>
<th>Jig list (Jig specification)</th>
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</thead>
<tbody>
<tr>
<td>Electric screw driver</td>
<td>1</td>
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</tbody>
</table>
**Operation Instruction**

Document No. : Silverbell FA Dismantling SOP

Operation Item : Dismantle C/D cover

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**Steps**:

1. Open the notebook in angle of over 60°, put it upright on the desk. Dismantle the parts which is on the upper right of D cover. Dismantling method is as shown in the picture.

2. Separate D cover from C cover with a gap, then put a sucking disc on the lower right of D cover.

3. Left hand holds TOP cover, and right hand pulls the sucking disc to take down the D cover as shown in the picture.

4. At last, close the notebook and put it flat, disassemble the side parts of D cover from right to left in sequence, and then take the whole D cover with some strength.

Attention: If abnormal condition happens, please contact foreman or assistant immediately.

<table>
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<tr>
<th>Jig list(Jig specification)</th>
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<th>Jig list(Jig specification)</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sucking Disc</td>
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</table>

Tabulation: Zhu.Ya   Department: IE
Operation Instruction

Document No. : Silverbell FA Dismantling SOP
Operation Item : Disassemble battery
Work Station: 4(1/1)

Attention: If abnormal condition happens, please contact foreman or assistant immediately.

Steps:
1. Take down BATT screw
   - M2x3.5(6052A0051101) * 4 pcs
   - Screwdriver bits model #1
   - Torsion: 1.5 ± 0.30 Kg/cm
2. Take down the battery, and recycle it.

### Jig list (Jig specification)

<table>
<thead>
<tr>
<th>Jig list (Jig specification)</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric screw driver #1 Screwdriver bits</td>
<td>1</td>
</tr>
</tbody>
</table>

Tabulation: Zhu.Ya  Department: IE
1. Push aside the clips on both side of DDR socket, and take out DDR for recycle.
2. Recycle hook(6051B1241101)

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**Attention**: If abnormal condition happens, please contact foreman or assistant immediately.

<table>
<thead>
<tr>
<th>Jig list (Jig specification)</th>
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<th>Jig list (Jig specification)</th>
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</table>

**Tabulation**: Zhu.Ya  **Department**: IE
Operation Instruction

Document No. : Silverbell FA Dismantling SOP
Operation Item : Dismantle DDR

Steps:

1. Push the clips on both side of DDR socket, and take out DDR for recycle
2. Recycle hook(6051B1241101)

Attention: If abnormal condition happens, please contact foreman or assistant immediately.

Tabulation: Zhu.Ya Department: IE
Operation Instruction

Document No. : Silverbell  FA Dismantling SOP
Operation Item : Dismantle HDD

Steps :

1. Dismantle the HDD FFC on MB
2. Take HDD out from C cover.

Attention : If abnormal condition happens, please contact foreman or assistant immediately.

<table>
<thead>
<tr>
<th>Jig list(Jig specification)</th>
<th>QTY</th>
<th>Jig list(Jig specification)</th>
<th>QTY</th>
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</thead>
</table>

Tabulation : Zhu.Ya  Department : IE
Steps:

1. Dismantle SSD FFC for recycle (pic 1)
   **For EMMC (pic 2)**
2. Disassemble screws M2x3.5(6052A0051101) *3, and then recycle EMMC/B(1310A2760301)
   ❖ Screwdriver bits model #1
   ❖ Torsion : 1.5 ± 0.30 Kg/cm
   ❖ Screws can not be loose.
   **For SSD (pic 3)**
   Disassemble the screws on SSD Card M2x3.5(6052A0051101)*1, recycle SSD Card (P/N:6022B0260501)
   Disassemble the screws on SSD Board M2x3.5(6052A0051101)*2
   Recycle SSD Board(1310A2745101)
   ❖ Screwdriver bits model #1
   ❖ Torsion : 1.5 ± 0.30 Kg/cm
   ❖ Screws cannot be loose.

Attention: If abnormal condition happens, please contact foreman or assistant immediately.

<table>
<thead>
<tr>
<th>Jig list(Jig specification)</th>
<th>QTY</th>
<th>Jig list(Jig specification)</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric Screwdriver</td>
<td>1</td>
<td></td>
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</tbody>
</table>
### Steps:

1. Disassemble HDD patch cord
2. Disassemble HDD protective jacket.

### Attention:

*If abnormal condition happens, please contact foreman or assistant immediately.*

<table>
<thead>
<tr>
<th>Jig list (Jig specification)</th>
<th>QTY</th>
<th>Jig list (Jig specification)</th>
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</tbody>
</table>

Tabulation: Zhu.Ya  Department: IE
Steps:

1. **Disassemble SSD BRKT**
   (P/N:6053B1557703) or **EMMC BRKT**
   (6053B1557704)

   *Need distinguish EMMC BRKT from SSD BRKT. SSD BRKT has one more BOSS pillar.*

Attention: If abnormal condition happens, please contact foreman or assistant immediately.

<table>
<thead>
<tr>
<th>Jig list(Jig specification)</th>
<th>QTY</th>
<th>Jig list(Jig specification)</th>
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<tbody>
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</tr>
</tbody>
</table>

Tabulation: Zhu.Ya  Department: IE
Steps:

1. Disassemble antenna terminal*2
2. Disassemble screws on SSD · wlan module. M2x3.5 (6052A0051101)) *2
   ( pic 1/2 )
   ✤ Screwdriver bit model #1
   ✤ Torsion : 1.5± 0.30 Kgf · cm
   ✤ Screws cannot be loose or fall down into notebook.
2. Recycle SD/WLAN card.

Attention: If abnormal condition happens, please contact foreman or assistant immediately.

<table>
<thead>
<tr>
<th>Jig list(Jig specification)</th>
<th>QTY</th>
<th>Jig list(Jig specification)</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric screwdriver</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tabulation: Zhu.Ya  Department: IE
Steps:

1. Dismantle USB/B FFC and turn orchid out, remove the FFC.
2. Dismantle Antenna cable.

Attention: If abnormal condition happens, please contact foreman or assistant immediately.

<table>
<thead>
<tr>
<th>Jig list (Jig specification)</th>
<th>QTY</th>
<th>Jig list (Jig specification)</th>
<th>QTY</th>
</tr>
</thead>
</table>

Tabulation: Zhu.Ya  Department: IE
Operation Instruction

Document No.: Silverbell FA Dismantling SOP
Operation Item: Dismantling Edp cable/FFC

Steps:

1. Dismantle Edp cable, turn orchid out, remove the CNTR.
2. Dismantle TH pad board FFC

Attention: If abnormal condition happens, please contact foreman or assistant immediately.

<table>
<thead>
<tr>
<th>Jig list (Jig specification)</th>
<th>QTY</th>
<th>Jig list (Jig specification)</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

Tabulation: Zhu.Ya  Department: IE
# Operation Instruction

**Document No.**: Silverbell FA Dismantling SOP  
**Operation Item**: Remove hinge up Screw  
**Work Station**:  
**Ver.**: 1.00  
**Date**: 2019/9/18

## Steps:

1. Get Hinge UP, remove fixed hinge Screw M2.5x6(6052A0029201)*4.5  
2. Remove fixed Hinge to MBM2X3.5 (6052A0051101)  
   - Torque: 3.0 ± 0.3 Kgf · cm  
   - The screw must not slip its teeth and into the machine.  
   - Disassembly sequence: 1 → 2 → 3 → 4 → 5

---

**Attention**: If abnormal condition happens, please contact foreman or assistant immediately.

<table>
<thead>
<tr>
<th>Jig list(Jig specification)</th>
<th>QTY</th>
<th>Jig list(Jig specification)</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric screwdriver</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Tabulation**: Zhu.Ya  
**Department**: IE
### Steps:

1. Turn the machine table open at a certain angle and close again, make Hinge separate from top.
2. Remove the TOP.

### Attention:

If abnormal condition happens, please contact foreman or assistant immediately.

<table>
<thead>
<tr>
<th>Jig list (Jig specification)</th>
<th>QTY</th>
<th>Jig list (Jig specification)</th>
<th>QTY</th>
</tr>
</thead>
</table>

Tabulation: Zhu.Ya Department: IE
Operation Instruction

Operation Item: Remove KB FPC/DC-IN Cable

Steps:
1. Open the lid of the pot, take KBFPC with backlight SKU
2. Get DC-IN cable to the right and tilt upward. don’t force straight up and down.

Attention: If abnormal condition happens, please contact foreman or assistant immediately.

Tabulation: Zhu.Ya Department: IE
Operation Instruction

Document No.: Silverbell FA Dismantling SOP
Operation Item: Remove DC-IN CNTR & Fan CNTR

Attention: If abnormal condition happens, please contact foreman or assistant immediately.

<table>
<thead>
<tr>
<th>Jig list (Jig specification)</th>
<th>QTY</th>
<th>Jig list (Jig specification)</th>
<th>QTY</th>
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</thead>
</table>

Steps:
1. Get DC-IN CNTR, remove DC-IN cable
2. Remove Fan CNTR.

Date: 2019/9/18
Operation Instruction

Document No. : Silverbell FA Dismantling SOP
Operation Item : Dismantling FAN&Thermal

Steps :
1. Get Fan screw M2x3.5(6052A0051101)*2
   - remove FAN and recovery.
2. Get Thermal screw as below marked
   M2x3.5(6052A0051101)*2
   - Starter head model: #1
   - Torque value : 1.5 ± 0.3Kgf · cm
   - The screw must not slip its teeth and into the machine.
   - Disassembly sequence : 1 → 2 → 3 → 4

Attention : If abnormal condition happens, please contact foreman or assistant immediately.

<table>
<thead>
<tr>
<th>Jig list(Jig specification)</th>
<th>QTY</th>
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<tbody>
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<td>Electric screwdriver</td>
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</tr>
</tbody>
</table>

Tabulation : Zhu.Ya Department : IE
Stage: Dismantling Thermal

Attention: If abnormal condition happens, please contact foreman or assistant immediately.

Steps:
1. Get Thermal screw M2x3.5 (6052A0051101)*4, recovery thermal.
   - Starter head model: #1
   - Torque value: 1.5 ± 0.3 Kgf · cm
   - The screw must not slip its teeth and into the machine.
   - Disassembly sequence: 1 → 2 → 3 → 4

Jig list (Jig specification) | QTY |
---------------------------|-----|
Electric screwdriver       | 1   |

Tabulation: Zhu.Ya  Department: IE
Steps:
1. Get MB screw M2x2 (6052B0156201)*3.
2. Get MB screw M2x3.5 (6052A0051101)*1.
   ❖ Starter head model: #1
   ❖ Torque value: 1.5 ± 0.3 Kgf cm
   ❖ The screw must not slip its teeth and into the machine.
   ❖ Disassembly sequence: 1 → 2 → 3 → 4

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<table>
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<tr>
<th>Jig list (Jig specification)</th>
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<tbody>
<tr>
<td>Electric screwdriver</td>
<td>1</td>
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<td></td>
</tr>
</tbody>
</table>
Steps:
1. Push up MB, pull out MB downward.
2. Recycling Card reader FFC.

Attention: If abnormal condition happens, please contact foreman or assistant immediately.
Steps:

For With FP
1. Remove FP BRK screw (6052B01317101)*2. Remove FP BRK (marked as 1)
   ❖ Starter head model: #1
   ❖ Torque value: 1.5 ± 0.3 Kgf cm
   ❖ The screw must not slip its teeth and into the machine.
2. Remove FP from the TOP

For Non FP
1. Remove screw (6052B01317101)*2. Remove dummy FP (marked as 3)
   ❖ Starter head model: #1
   ❖ Torque value: 1.5 ± 0.3 Kgf cm
   ❖ The screw must not slip its teeth and into the machine.

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<table>
<thead>
<tr>
<th>Jig list(Jig specification)</th>
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<td>Cross electric screwdriver</td>
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### MECHANICAL ASSEMBLY

**MODEL : Silverbell**

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**B. Version Modify list:**

<table>
<thead>
<tr>
<th>Date</th>
<th>Station</th>
<th>Content</th>
<th>Ver.</th>
<th>Design</th>
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<tbody>
<tr>
<td>2019/9/18</td>
<td>ALL</td>
<td>First SOP for dismantling</td>
<td>1.**</td>
<td>Yang.Mike</td>
</tr>
</tbody>
</table>

**Auditor:** Zhou.Hong  **Tabulation:** Zhu.Ya
**Operation Instruction**

Document No. : silverbell LCM Dismantling SOP  
Operation item : Disassemble Hinge cover  
Ver. : 1.00  Date : 2019/9/18

---

**Steps:**

1. Push down to disassemble Hinge cover.

---

**Attention:** If abnormal condition happens, please contact foreman or assistant immediately.

<table>
<thead>
<tr>
<th>Jig list (Jig specification)</th>
<th>QTY</th>
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</table>

Tabulation : Huang.Ya-jun  
Department : IE
Operation Instruction

Document No. : silverbell LCM Dismantling SOP
Operation item : Disassemble Bezel

Steps :

1. Disassemble left Bezel by pulling the bezel towards inner side.
2. Disassemble the ambient bezel in sequence by $1 \rightarrow 2 \rightarrow 3 \rightarrow 4$ marked in the picture.

❖ Do dismantling slowly. Can use card to separate gum.

Attention : If abnormal condition happens, please contact foreman or assistant immediately.

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</table>

Tabulation : Huang.Ya-jun    Department : IE
**Steps:**

1. Use tweezer to take out the head of the easy-to-pull sticker on both left and right side, then pull it down to make it separate from LCD.

---

**Attention**: If abnormal condition happens, please contact foreman or assistant immediately.

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<th>Jig list (Jig specification)</th>
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<td>Tweezer</td>
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</table>

**Tabulation**: Huang.Ya-jun  
**Department**: IE
Operation Instruction

Document No. : silverbell LCM Dismantling SOP  
Operation item : Disassemble LCD

Steps :

1. Turn the LCD to back side and take down EDP cable CNTR.
2. Keep the LCD well and recycle it.

Attention : If abnormal condition happens, please contact foreman or assistant immediately.

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</table>

Tabulation : Huang.Ya-jun  
Department : IE
Operation Instruction

Document No. : silverbell LCM Dismantling SOP
Operation item : Disassemble Hinge
Work station: 5(1/1)
Ver. : 1.00 Date : 2019/9/18

Steps :

1. Take out the screws on both hinges.
   M2.5x2.5(*6).
   ❖ Screwdriver bits model #1
   ❖ Torsion : 2.5± 0.3 Kg/cm
2. Disassemble the hinges for recycle.

Attention : If abnormal condition happens, please contact foreman or assistant immediately.

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<thead>
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<tbody>
<tr>
<td>Electric Screwdriver</td>
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Tabulation : Huang.Ya-jun  Department : IE
Attention: If abnormal condition happens, please contact foreman or assistant immediately.

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Steps:

1. Disassemble left/right hinges for recycle.
Steps:

1. Take the antenna out from slot.
2. Pull the left antenna towards the direction of the arrowhead.

Attention: If abnormal condition happens, please contact foreman or assistant immediately.

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Tabulation: Huang.Ya-jun  Department: IE
Steps:

1. Remove the right antenna from the slot.
2. Pull the left antenna out in the same direction.
3. Remove the fixed foil, pull the antenna out follow the path shown by the arrow.

Attention: If abnormal condition happens, please contact foreman or assistant immediately.

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Tabulation: Huang.Ya-jun  Department: IE
Operation Instruction

Document No. : silverbell LCM Dismantling SOP
Operation item : Dismantling W/L Antenna

Steps:

1. Remove the right antenna from the slot.

Attention: If abnormal condition happens, please contact foreman or assistant immediately.

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</table>

Tabulation : Huang.Ya-jun  Department : IE
Steps:

1. Remove the left antenna and lift PCB up with tweezers, then slowly unravels the gule.
2. Remove the right antenna and lift the PCB board above with tweezers, then slowly release the back glue.

Attention: If abnormal condition happens, please contact foreman or assistant immediately.

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Tabulation: Huang.Ya-jun    Department: IE
Operation Instruction

Document No. : silverbell LCM Dismantling SOP
Operation item : Dismantling EDP cable

Steps :

1. Remove the EDP cable follow the arrow path.

Attention : If abnormal condition happens, please contact foreman or assistant immediately.

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Tabulation : Huang.Ya-jun  Department : IE
Steps:

1. Remove the EDP cable in the middle.

Attention: If abnormal condition happens, please contact foreman or assistant immediately.
Operation Instruction

Document No. : silverbell LCM Dismantling SOP
Operation item : Dismantling camera
Work station: 13(1/1)
Ver. : 1.00  Date : 2019/9/18

Steps:

1. Unfold the acetic acid mausoleum, pull the EDP cable connector from the camera.
2. Dismantling camera and recovery.

Attention: If abnormal condition happens, please contact foreman or assistant immediately.

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Tabulation : Huang.Ya-jun  Department :  IE
Steps:

1. Put A cover in bags and recovery.

Attention: If abnormal condition happens, please contact foreman or assistant immediately.

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Tabulation: Huang.Ya-jun    Department: IE