Product End-of-Life Disassembly Instructions

Product Category: Notebooks and Tablet PCs

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

HP EliteBook x360 830 G7 Notebook PC
HP EliteBook x360 830 G7

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>2</td>
</tr>
<tr>
<td>Batteries, excluding Li-Ion batteries.</td>
<td>All types including standard alkaline, coin or button style batteries</td>
<td></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 “[ ]”): [x] screws [x] snaps [ ] adhesive [ ] other. Explain ____</td>
<td>2 (Main battery and RTC battery)</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</td>
<td>1</td>
</tr>
<tr>
<td>Cathode Ray Tubes (CRT)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capacitors / condensers (Containing PCB/PCT)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electrolytic Capacitors / Condensers measuring greater than 2.5 cm in diameter or height</td>
<td></td>
<td></td>
</tr>
<tr>
<td>External electrical cables and cords</td>
<td>DC Cable for External Power Supply</td>
<td></td>
</tr>
<tr>
<td>Gas Discharge Lamps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plastics containing Brominated Flame Retardants</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

EL-MF877-00
Template Revision C

Last revalidation date 09-May-2018

HPI instructions for this template are available at EL-MF877-01
<table>
<thead>
<tr>
<th>Item Description</th>
<th>Notes</th>
<th>Quantity of items included in product</th>
</tr>
</thead>
<tbody>
<tr>
<td>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></td>
</tr>
<tr>
<td>Components and waste containing asbestos</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Components, parts and materials containing refractory ceramic fibers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Components, parts and materials containing radioactive substances</td>
<td></td>
<td></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>#1 screwdriver</td>
<td>Electric cross screwdriver</td>
</tr>
<tr>
<td>T5 screwdriver</td>
<td>Electric cross screwdriver</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).
A. Current station version list:

<table>
<thead>
<tr>
<th></th>
<th></th>
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<td>6</td>
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<td>22</td>
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<td></td>
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<tr>
<td>7</td>
<td>1.00</td>
<td>15</td>
<td>1.00</td>
<td>23</td>
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<td>8</td>
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<td>1.00</td>
<td>24</td>
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</table>

B. Version Modify list:

<table>
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<tr>
<th>Date</th>
<th>Sta.</th>
<th>Content</th>
<th>Ver.</th>
<th>Design</th>
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</thead>
<tbody>
<tr>
<td>2020/3/21</td>
<td>ALL</td>
<td>initial</td>
<td>1.**</td>
<td>Zhao neil</td>
</tr>
</tbody>
</table>

Sub-assembly name: Oleander Disassemble SOP

Document No.: Oleander Disassemble SOP

Written by: Yi qiu-ling

Revision: 1.00

Date: 2020/3/21

Page: 1 of 25
Standard Operation Procedure

Document No. : Oleander Disassemble SOP
Operation Name : Disassembly Base
Station : 1(1/1)
Ver. : 1.00
Edit date : 2020/3/21

step :

1. Loosen Base screw *5pcs as below picture showing
   - Torque : 2.5 ±0.2 kgf.cm
   - screw can not be slipped.

2. Disassembly Base
   - Pull down the back shell to the side of the sky after the left and right side of the card is removed

Notice: Please inform production line leader or master if you found any abnormal..

<table>
<thead>
<tr>
<th>Fixture list (Spec.)</th>
<th>Qty</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screw driver ( T5 )</td>
<td>1</td>
<td><img src="image" alt="Symbol" /></td>
</tr>
</tbody>
</table>

Picture 1
Notice: Please inform production line leader or master if you found any abnormal.

<table>
<thead>
<tr>
<th>Fixture list (Spec.)</th>
<th>Qty</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><img src="Symbol-Image.png" alt="Symbol" /></td>
</tr>
</tbody>
</table>

Attention: Safe | Quality | Order | Fixture | Hear | Look | Do | Static |

step:

1. Disassemble battery CNTR (picture 1)
2. Disassemble SSD Shielding Can (6053B1743801) (picture 2)

❖ pull shielding can remove the handle is on the right
Standard Operation Procedure

Document No.: Oleander Disassemble SOP
Operation Name: Disassemble DDR
Station: 3(1/1)
Ver.: 1.00
Edit date: 2020/3/21

Step:

1. Disassemble DDR Shielding Can(6053B1744001) (picture1)
   - pull shielding can the right handle lift unloading

2. Take DDR (picture2)

Notice: Please inform production line leader or master if you found any abnormal..

<table>
<thead>
<tr>
<th>Fixture list (Spec.)</th>
<th>Qty</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Prepared: Zhou.gui-ling
Issued: IE department
step:

1. Hold the Camera Cable handle, and unplug the CNTR (picture1)
2. Hold the LCM Cable handle, and unplug the CNTR (picture2)

Notice: Please inform production line leader or master if you found any abnormal.

<table>
<thead>
<tr>
<th>Fixture list (Spec.)</th>
<th>Qty</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
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<td>Look</td>
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<td></td>
<td>Do</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Static</td>
</tr>
</tbody>
</table>

Prepared: Zhou gui-ling  
Issued: IE department
Standard Operation Procedure

Document No.: Oleander Disassemble SOP
Operation Name: Disassemble WWAN antenna
Station: 5(1/1)
Ver.: 1.00
Edit date: 2020/3/21

1. Unplug all antenna CNTR on WWAN card and tie the antenna out of the antenna slot (picture1)

Notice: Please inform production line leader or master if you found any abnormal.

<table>
<thead>
<tr>
<th>Fixture list (Spec.)</th>
<th>Qty</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>![image]</td>
</tr>
</tbody>
</table>

Prepared: Zhou.gui-ling
Issued: IE department
step:

1. Remove the 7 and 8 antennas from the I/O frame and speaker (picture)

Notice: Please inform production line leader or master if you found any abnormal.

<table>
<thead>
<tr>
<th>Fixture list (Spec.)</th>
<th>Qty</th>
<th>Symbol</th>
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<tbody>
<tr>
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</tbody>
</table>

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Prepared: Zhou gui-ling

Issued: IE department
Standard Operation Procedure

Document No.: Oleander Disassemble SOP  
Operation Name: Disassemble WWAN 7 and 8

Station: 7(1/1)  
Ver.: 1.00  
Edit date: 2020/3/21

Step:
1. Remove the aluminum foil of no. 7 and 8 antenna from the battery
2. Remove the antenna from the top

Notice: Please inform production line leader or master if you found any abnormal.

<table>
<thead>
<tr>
<th>Fixture list (Spec.)</th>
<th>Qty</th>
<th>Symbol</th>
</tr>
</thead>
</table>
| WNC                  | 1.00| 6036B0250101 AUX2  
                       |     | 6036B0250001 AUX3  
| AWAN                 | 1.00| 6036B0252101 AUX2  
                       |     | 6036B0251201 AUX3  
| HONG-BO              | 1.00| 6036B0252001 AUX2  
                       |     | 6036B0252601 AUX3  

Prepared: Zhou gui-ling  
Issued: IE department
Standard Operation Procedure

Document No.: Oleander Disassemble SOP
Operation Name: Disassemble battery
Station: 8(1/1)
Operation Name: Disassemble battery
Ver.: 1.00
Edit date: 2020/3/21

step:

1. Disassemble screw
M2.0*4.0 (6052B0081901)*4 (picture2)
❖ Torque: 1.5 ±0.2 kgf.cm
❖ screw can not be slipped.
2. Disassemble battery (picture2)

Notice: Please inform production line leader or master if you found any abnormal..

<table>
<thead>
<tr>
<th>Fixture list (Spec.)</th>
<th>Qty</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screw driver (#1)</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Prepared: Zhou gui-ling
Issued: IE department
Standard Operation Procedure

Document No.: Oleander Disassemble SOP
Operation Name: Disassemble WLAN antenna

step:

1. Remove WLAN CNTR, and find out from the fan hook (picture1)

Notice: Please inform production line leader or master if you found any abnormal.

<table>
<thead>
<tr>
<th>Fixture list (Spec.)</th>
<th>Qty</th>
<th>Symbol</th>
</tr>
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<tbody>
<tr>
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</tbody>
</table>

Prepared: Zhou.gui-ling  Issued: IE department
Standard Operation Procedure

Document No.: Oleander Disassemble SOP
Operation Name: Remove FFC
Station: 10(1/1)
Ver.: 1.00
Edit date: 2020/3/21

Notice: Please inform production line leader or master if you found any abnormal.

<table>
<thead>
<tr>
<th>Fixture list (Spec.)</th>
<th>Qty</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><img src="picture1" alt="Image" /> <img src="picture2" alt="Image" /> <img src="picture3" alt="Image" /></td>
</tr>
</tbody>
</table>

step:

1. Open CNTR, remove Click Pad FFC (picture1)
2. Open CNTR, remove Smart card FFC (picture1)
3. Open CNTR, remove Backlight FFC (picture3)
4. Open CNTR, remove KB Membrane (picture2)
Standard Operation Procedure

Document No.: Oleander Disassemble SOP
Operation Name: Disassemble small battery
Station: 11(1/1)
Ver.: 1.00
Edit date: 2020/3/21

Prepared: Zhou gui-ling
Issued: IE department

Notice: Please inform production line leader or master if you found any abnormal..

<table>
<thead>
<tr>
<th>Fixture list (Spec.)</th>
<th>Qty</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

step:
1. Open CNTR, and take out Finger print FFC (picture1)
2. Open CNTR, and take out NFC CNTR (picture2)
3. Tear the small battery from the top of part C and exit the line from the hook (picture1)

Line FFC down to MB

[Picture1]

[Picture2]
step :

1. Take the NFC group down

Notice: Please inform production line leader or master if you found any abnormal..

<table>
<thead>
<tr>
<th>Fixture list (Spec.)</th>
<th>Qty</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Safe  Quality  Order  Fixture  Hear  Look  Do  Static
Standard Operation Procedure

Document No.: Oleander Disassemble SOP
Operation Name: Disassemble Hinge up

step:

1. Will hinge up to 270 degrees
2. Remove screw
   M2.0*5.0(6052A0003501)*6 (picture1)
   ❖ Torque: 2.5 ±0.2 kgf.cm
   ❖ screw can not be slipped.

Notice: Please inform production line leader or master if you found any abnormal..

<table>
<thead>
<tr>
<th>Fixture list (Spec.)</th>
<th>Qty</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screw driver (#1)</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Prepared: Zhou.gui-ling Issued: IE department
Standard Operation Procedure

Document No.: Oleander Disassemble SOP  Station: 14(1/1)
Operation Name: Disassemble SSD & WLAN & WWAN  Ver.: 1.00  Edit date: 2020/3/21

step:

1. Disassemble screw M2.0*2.0 (6052B038301)*3
   - Torque: 1.5 ±0.2 kgf.cm
   - Screw can not be slipped.

2. Remove SSD/WLAN /WWAN Module (picture1)

Notice: Please inform production line leader or master if you found any abnormal.

<table>
<thead>
<tr>
<th>Fixture list (Spec.)</th>
<th>Qty</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screw driver (#1)</td>
<td>1</td>
<td>+</td>
</tr>
</tbody>
</table>

Prepared: Zhou gui-ling  Issued: IE department
Standard Operation Procedure

Document No.: Oleander Disassemble SOP
Operation Name: Disassemble USB Bracket

Step:
1. Remove screw M2.0*4.0(6052B0081901)*4 (picture1)
   - Torque: 1.5 ± 0.2 kgf.cm
   - Screw can not be slipped.
2. Remove USB Bracket (6053B1746501)

Notice: Please inform production line leader or master if you found any abnormal.

<table>
<thead>
<tr>
<th>Fixture list (Spec.)</th>
<th>Qty</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screw driver ( #1 )</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Safe  Quality  Order  Fixture  Hear  Look  Do  Static

Prepared: Zhou gui-ling  Issued: IE department
Standard Operation Procedure

Document No.: Oleander Disassemble SOP
Operation Name: Disassemble IO Frame

Station: 16(1/1)
Ver.: 1.00
Edit date: 2020/3/21

Notice: Please inform production line leader or master if you found any abnormal.

<table>
<thead>
<tr>
<th>Fixture list (Spec.)</th>
<th>Qty</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screw driver (#1)</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

1. Remove screw M2.0*4.0(6052B0081901)*5 (图一)
   - Torque: 1.5 ± 0.2 kgf.cm
   - Screw cannot be slipped.
2. Remove IO Frame(6051B1360601)

Screw driver (#1) 1

Prepared: Zhou.guiling
Issued: IE department
Standard Operation Procedure

Document No.: Oleander Disassemble SOP
Operation Name: Disassemble FAN

Station: 17(1/1)
Ver.: 1.00
Edit date: 2020/3/21

Prepared: Zhou gui-ling
Issued: IE department

**step:**
1. Remove SET screw *2 (picture2)
   - Torque: 1.5 ± 0.2 kgf.cm
   - Screw cannot be slipped.
2. Remove FAN Cable CNTR (picture2)
3. Remove FAN (picture1)

---

**Notice:** Please inform production line leader or master if you found any abnormal.

<table>
<thead>
<tr>
<th>Fixture list (Spec.)</th>
<th>Qty</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screw driver (#1)</td>
<td>1</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Safe</th>
<th>Quality</th>
<th>Order</th>
<th>Fixture</th>
<th>Hear</th>
<th>Look</th>
<th>Do</th>
<th>Static</th>
</tr>
</thead>
</table>

FAN Delta 603380078101
FAN FCN 603380078001

---

Picture1

Picture2

Picture3
Standard Operation Procedure

Document No.: Oleander Disassemble SOP
Operation Name: Disassemble thermal module

Station: 18(1/1)
Ver.: 1.00
Edit date: 2020/3/21

Notice: Please inform production line leader or master if you found any abnormal.

<table>
<thead>
<tr>
<th>Fixture list (Spec.)</th>
<th>Qty</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screw driver ( #1 )</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

- 1. Remove SET screw*4 (picture1)
  - Torque: 1.5 ± 0.2 kgf.cm
  - screw can not be slipped.
- 2. Remove thermal

THERMAL 604380282601
THERMAL 604380282611

Prepared: Zhou gui-ling
Issued: IE department
Standard Operation Procedure

Document No.: Oleander Disassemble SOP
Operation Name: Disassemble MB
Station: 19(1/1)
Ver.: 1.00
Edit date: 2020/3/21

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<table>
<thead>
<tr>
<th>Fixture list (Spec.)</th>
<th>Qty</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screw driver (#1)</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Safe | Quality | Order | Fixture | Hear | Look | Do | Static |
|-----|---------|-------|---------|------|------|----|--------|

1. Remove M/B screw M2.0*2.0(6052B0388301)*2 (picture1)
   - Torque: 1.5 ±0.2 kgf.cm
   - Screw cannot be slipped.
2. Remove speaker cable CNTR (picture2)
3. Remove MB (picture3)
Standard Operation Procedure

Document No.: Oleander Disassemble SOP
Operation Name: Disassemble Smartcard/B or Dummy
Station: 20(1/1)
Ver.: 1.00
Edit date: 2020/3/21

Notice: Please inform production line leader or master if you found any abnormal.

<table>
<thead>
<tr>
<th>Fixture list (Spec.)</th>
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<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screw driver (#1)</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

step:
For Smart Card SKU (picture1)
1. Remove screw M2.0*2.0*D5 (6052B0388301)*3
   - Torque: 1.5 ± 0.2 kgf.cm
   - Screw can not be slipped.
2. Remove Smart Card/B (1397B0293701)

For Dummy Smart Card SKU
1. Tear off the copper stuck to C part (picture2)
2. Rip the Dummy Smart Card (6051B1360001) up and take it out (picture3)

Off the steel bath
撕掉銅箔
需要穿過銅箔的開口
Standard Operation Procedure

Document No.: Oleander Disassemble SOP
Operation Name: Disassemble Finger Print and Dummy

Station: 21(1/1)
Ver.: 1.00
Edit date: 2020/3/21

Notice: Please inform production line leader or master if you found any abnormal.

### Fixture list (Spec.)

<table>
<thead>
<tr>
<th>Fixture list (Spec.)</th>
<th>Qty</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screw driver (#1)</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

For FPR Module
1. Remove screw M2.0*1.5 D4 (6052B0324501) *1
   - Torque: 1.5 ± 0.2 kgf.cm
   - screw can not be slipped.
2. Remove FPR Bracket (6053B1742401)

For Dummy FPR
1. Remove screw M2.0*1.5 D4 (6052B0324501) *1
   - Torque: 1.5 ± 0.2 kgf.cm
   - screw can not be slipped.
2. Remove Dummy FRP (6051B1358301)
Standard Operation Procedure

Document No.: Oleander Disassemble SOP  Station: 22(1/1)
Operation Name: Disassemble right speaker  Ver.: 1.00  Edit date: 2020/3/21

step:
1. Tear off the stationary speaker cable Mylar, and remove speaker

Notice: Please inform production line leader or master if you found any abnormal.

<table>
<thead>
<tr>
<th>Fixture list (Spec.)</th>
<th>Qty</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

picture1

Prepared: Zhou.gui-ling  Issued: IE department
**Standard Operation Procedure**

**Document No.: Oleander Disassemble SOP**

**Operation Name: Disassemble left speaker**

**Station:** 23(1/1)

**Ver.: 1.00**  
**Edit date: 2020/3/21**

**Step:**

1. Tear off the stationary speaker cable Mylar, and remove speaker

---

**Notice:** Please inform production line leader or master if you found any abnormal.

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**Fixture list (Spec.)**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>[Image]</td>
</tr>
</tbody>
</table>

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**Prepared:** Zhou gui-ling  
**Issued:** IE department
Standard Operation Procedure

Document No.: Oleander Disassemble SOP
Operation Name: Disassemble click pad
Station: 24(1/1)
Ver.: 1.00  Edit date: 2020/3/21

Notice: Please inform production line leader or master if you found any abnormal.

Fixtures list (Spec.)

<table>
<thead>
<tr>
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<th>Qty</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screw driver (#1)</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

- Safe
- Quality
- Order
- Fixture
- Hear
- Look
- Do
- Static

Picture1

step:

1. Remove Click Pad
   Screw M1.6*1.8 (6052B0508901)*6
2. Remove click pad
   - Torque: 1.5 ±0.2 kgf.cm
   - Screw can not be slipped