**Product End-of-Life Disassembly Instructions**

**Product Category:** Notebooks and Tablet PCs

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

HP ProBook 640 G5 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></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>
</tbody>
</table>
| 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.) | Battery(ies) are attached to the product by (check all that apply with an “x” inside the “[ ]”): [X] screws [ ] snaps [X] adhesive [ ] other. Explain ______.  
NOTE: Add detailed removal procedures including required tools in the sections 3.1 and 3.2. | 2                                       |
| Mercury-containing components                                                     | For example, mercury in lamps, display backlights, scanner lamps, switches, batteries | 0                                       |
| Liquid Crystal Displays (LCD) with a surface greater than 100 sq cm              | Includes background illuminated displays with gas discharge lamps    | 1                                       |
| Cathode Ray Tubes (CRT)                                                          |                                                                       | 0                                       |
| Capacitors / condensers (Containing PCB/PCT)                                     |                                                                       | 0                                       |
| Electrolytic Capacitors / Condensers measuring greater than 2.5 cm in diameter or height |                                                                       | 0                                       |
| External electrical cables and cords                                             | DC Cable for External Power Supply                                   | 1                                       |
| Gas Discharge Lamps                                                              |                                                                       | 0                                       |
| Plastics containing Brominated Flame Retardants                                   |                                                                       | 0                                       |

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>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>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:** Chromia & Tracks & Cocoa

### Sub-assembly name:
2018-2019B series (Chromia/Tracks/Cocoa) 14"拆机SOP

### Document No.:
2018-2019B series (Chromia/Tracks/Cocoa) 14"拆机SOP

### Written by:
馬麗紅

### Date:
2019/4/26

### Revision:
1.00

### Page:
1 of 49

## A. Current station version list:

<table>
<thead>
<tr>
<th>Station</th>
<th>Version</th>
<th>Station</th>
<th>Version</th>
<th>Station</th>
<th>Version</th>
<th>Station</th>
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</table>

## 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>2018/1/12</td>
<td>ALL</td>
<td>首发SOP</td>
<td>0.1*</td>
<td>龍建軍</td>
</tr>
</tbody>
</table>

審核：鄧義川  制表：馬麗紅
Step:

1. Remove 4pcs screws (6052B0409901) from D cover
   - Torque force: 2.0 ± 0.2 Kgf · cm
   - Be careful to confirm no screw loose

<table>
<thead>
<tr>
<th>Fixture List (Fixture Spec.)</th>
<th>Qty</th>
<th>Fixture List (Fixture Spec.)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cross type electric screw driver (#1)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Attention: Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.
Standard Operation Process

Process Name: Remove D cover screw*4pcs
Ver.: 1.0
Date: 2019/4/26

Step:

1. Remove 4pcs screws (6052B0409901) from D cover
   ❖ Torque force : 2.0 ± 0.2 Kgf · cm
   ❖ Be careful to confirm no screw loose

Fixtures:

<table>
<thead>
<tr>
<th>Fixture List(Fixture Spec.)</th>
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Attention: Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.

Tabulator: Lihong Ma
Department: IE
Step:

1. Begin with the place in red circle (Picture1)
   - Disassembled sequence follow the sequence of arrows.
   - The D cover is weak. There are hooks in the blue boxes. Please slowly lift up the cover to avoid hooks breaking down.

Attention: Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.
1. Remove KB Set screws*2pcs
   ❖ **Attention**: Be sure no screw loose
   ❖ **Torque force**: $2.0 \pm 0.2 \text{ Kgf} \cdot \text{cm}$ (K/B module M2.5 screw)

### Fixture List

<table>
<thead>
<tr>
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Tabulator: Lihong Ma

Department: IE
Standard Operation Process

Document No. 2018-2019B series(Cocoa) 14’ disassembly SOP

Process Name : Remove battery Set screws*6pcs

Ver. : 1.0

Date: 2019/4/26

Station: 5(1/1)

1. Remove battery Set screws*6pcs
   ❖ Attention : Be sure no screw loose
   ❖ Torque force : 1.5± 0.2 Kgf · cm (Battery module M2 screw)

2. Take out the Battery

<table>
<thead>
<tr>
<th>Fixture List(Fixture Spec.)</th>
<th>Qty</th>
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<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cross type electric screw driver (#1)</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Attention : Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.

Tabulator : Lihong Ma  Department : IE
**Standard Operation Process**

Document No. 2018-2019B series (Cocoa) 14” disassembly SOP

Process Name: HDD Disassembly

Station: 6(1/1)  
Ver.: 1.0  
Date: 2019/4/26

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**Step:**

1. Remove SET screw * 4pcs
   - Attention: Be sure no screw loose
   - Torque force: $1.5 \pm 0.2$ Kgf cm (HDD M2 module)

2. Take out HDD in the direction of arrows

---

**Fixture List (Fixture Spec.)**

<table>
<thead>
<tr>
<th>Fixture List (Fixture Spec.)</th>
<th>Qty</th>
<th>Fixture List (Fixture Spec.)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cross type electric screw driver (#1)</td>
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</tbody>
</table>

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Attention: Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.

Tabulator: Lihong Ma  
Department: IE
**Attention**: Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.

**Standard Operation Process**

Document No. 2018-2019B series(Cocoa) 14’ disassembly SOP  
Station: 7(1/1)

Process Name: Disassemble HDD Bracket  
Ver.: 1.0  
Date: 2019/4/26

**Step:**

1. Remove HDD screw M3*3.5(60520D065405) * 4pcs  
   ❖ Torque force: 2.0 ± 0.2 Kgf · cm

**Fixture List (Fixture Spec.)**

<table>
<thead>
<tr>
<th>Fixture List (Fixture Spec.)</th>
<th>Qty</th>
<th>Fixture List (Fixture Spec.)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cross type electric screw driver (#1)</td>
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<td></td>
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</tr>
</tbody>
</table>
### Standard Operation Process

**Document No.** 2018-2019B series(Cocoa) 14’ disassembly SOP

**Process Name:** DDR disassembly

**Station:** 8(1/1)

**Ver.:** 1.0

**Date:** 2019/4/26

---

**Step:**

1. Disassemble DDR (picture 1) •
   - knocking the fixed DDR Scoter • DDR will open, take out DDR in the angle of 15~35°

---

**Attention:** Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.

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

**Tabulator:** Lihong Ma

**Department:** IE
# Standard Operation Process

**Document No.** 2018-2019B series(Cocoa) 14' disassembly SOP  
**Station:** 9(1/1)  
**Process Name:** Disassemble WLAN antenna*2pcs  
**Ver.:** 1.0  
**Date:** 2019/4/26

## Step:

1. Disassemble WLAN antenna  
   - Lift up the CONN and pull out the Cable from the slot

---

### Fixture List

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

---

**Attention:** Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.

---

**Tabulator:** Lihong Ma  
**Department:** IE
Step:

1. Disassemble WWAN antenna
   ❖ Lift up the CONN and pull out the Cable from the slot

Attention: Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.
Step:

1. Disassemble WWAN/WLAN/SSD cards and remove the screw M2x2L(6052B0156201) *1
   ❖ Attention: Be sure no screw loose
   ❖ Torque force: 1.5 ± 0.2 Kgf · Cm

Cross type electric screw driver (#1) 1

Tabulator: Lihong Ma  Department: IE
Step:
1. Prop up the KB on the back and disassemble KB in the direction of arrows.

❖ Please be careful and do not pull down the FFC on the back when lifting up KB

<table>
<thead>
<tr>
<th>Fixture List (Fixture Spec.)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open bar</td>
<td>1</td>
</tr>
</tbody>
</table>

Attention: Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.
Step:
1. Turn over KB, disassemble the PS \ FPC \ BL FFC on the MB
2. Take the KB and pack it

Attention: Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.
Standard Operation Process

Document No. 2018-2019B series(Cocoa) 14’ disassembly SOP  Station: 14(1/1)
Process Name: Disassemble Power / USB CNTR  Ver. : 1.0  Date: 2019/4/26

Step :

1. Disassemble Power FFC/USB FFC

Attention : Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.

<table>
<thead>
<tr>
<th>Fixture List(Fixture Spec.)</th>
<th>Qty</th>
<th>Fixture List(Fixture Spec.)</th>
<th>Qty</th>
</tr>
</thead>
</table>

Tabulator : Lihong Ma  Department : IE
**Standard Operation Process**

**Document No. 2018-2019B series(Cocoa) 14’ disassembly SOP**

**Process Name**: Remove Frame screw*2pcs

**Ver.**: 1.0  **Date**: 2019/4/26

---

**Step:**

1. Remove Frame screw M2.0*2.0  
   (6052B0156201)* 2pcs  
   ❖ **Attention**: Be sure no screw loose  
   ❖ **Torque force**: 1.5 ± 0.2 Kgf · Cm (M2.0)

---

**Fixture List (Fixture Spec.)**

<table>
<thead>
<tr>
<th>Fixture List (Fixture Spec.)</th>
<th>Qty</th>
<th>Fixture List (Fixture Spec.)</th>
<th>Qty</th>
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</thead>
<tbody>
<tr>
<td>Cross type electric screw driver (#1)</td>
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---

**Tabulator**: Lihong Ma  **Department**: IE

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**Attention**: Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.
**Standard Operation Process**

Document No. 2018-2019B series(Cocoa) 14’ disassembly SOP  
Process Name : Remove Frame screw*5pcs  
Station:  
Ver. : 1.0  
Date: 2019/4/26

**Step :**

1. Remove Frame screw M2.5*2.5  
   (6052B0239501)* 5pcs  
   ❖ **Attention** : Be sure no screw loose  
   ❖ Torque force: 2.0 ± 0.2 Kgf · Cm (M2.5)

---

**Fixture List (Fixture Spec.)**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Fixture List (Fixture Spec.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cross type electric screw driver (#1)</td>
</tr>
</tbody>
</table>

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**Tabulator : Lihong Ma**  
**Department : IE**
Step:

1. Remove Frame screw M2.5*6
   T8(6052B0185501)* 5pcs
   ❖ Attention: Be sure no screw loose
   ❖ Torque force: 2.0 ± 0.2 Kgf · Cm (M2.5)

<table>
<thead>
<tr>
<th>Fixture List (Fixture Spec.)</th>
<th>Qty</th>
<th>Fixture List (Fixture Spec.)</th>
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<tbody>
<tr>
<td>Plum-blossom electric screw driver (T8)</td>
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</tr>
</tbody>
</table>

Attention: Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.

Tabulator: Lihong Ma Department: IE
Step:

1. Remove Frame screw M2.5*6
   T8(6052B0185501)*4pcs
   ❖ Attention: Be sure no screw loose
   ❖ Torque force: 2.0 ± 0.2 Kgf · Cm (M2.5)

---

Tabulator: Lihong Ma  Department: IE
Step:

1. Remove Frame screw M2.5*6
   T8(6052B0185501)*5pcs

❖ Attention: Be sure no screw loose
❖ Torque force : 2.0 ± 0.2 Kgf · Cm (M2.5)

Attention: Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.

<table>
<thead>
<tr>
<th>Fixture List(Fixture Spec.)</th>
<th>Qty</th>
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<th>Qty</th>
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</thead>
<tbody>
<tr>
<td>Plum-blossom electric screw driver(T8)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Step:

1. Disassemble Frame in the sequence of arrow and number. Be careful to the hooks in the red circle.
Step:

1. Disassemble Click pad FFC / EDP Cable
   - Attention to the adhesive glue in the middle
   - Pull the Cable CONN vertically upwards

<table>
<thead>
<tr>
<th>品名</th>
<th>料號</th>
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</thead>
<tbody>
<tr>
<td>Click FFC 14”(禾昌)</td>
<td>6035B0175001</td>
</tr>
<tr>
<td>Click FFC 14”(CviLux)</td>
<td>6035B0174401</td>
</tr>
</tbody>
</table>

Attention: Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.
Step:

1. Disassemble Speaker & Smart card FFC (Picture 1 / 2)
Standard Operation Process

Document No. 2018-2019B series(Cocoa) 14’ disassembly SOP  Station: 23(1/1)
Process Name : Disassemble FP FFC & FAN CONN  Ver. : 1.0  Date: 2019/4/26

Step :
1. Disassemble FP FFC/Fan cable (Picture 1 / 2)

Attention ︰ Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.

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

Tabulator : Lihong Ma  Department : IE
### Standard Operation Process

**Document No.** 2018-2019B series(Cocoa) 14’ disassembly SOP  
**Station:** 24(1/1)  
**Process Name:** Disassemble NFC FFC  
**Ver.:** 1.0  
**Date:** 2019/4/26

#### Step:

1. Disassemble NFC Module
   - **Attention** that there is adhesive glue under NFC antenna, FFC and daughter board

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<table>
<thead>
<tr>
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Tabulator: Lihong Ma  
Department: IE
**Attention:** Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.

**Standard Operation Process**

Document No. 2018-2019B series(Cocoa) 14' disassembly SOP  
Process Name : Remove NFC  
Station: 25(1/1)  
Ver. : 1.0  
Date: 2019/4/26

**Step:**

1. Remove NFC Module

---

<table>
<thead>
<tr>
<th>NFC FFC</th>
<th>瀚荃</th>
<th>禾昌(玖東)</th>
</tr>
</thead>
<tbody>
<tr>
<td>14&quot; NFC FFC</td>
<td>6035B0174201</td>
<td>6035B0174101</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NFC Antenna</th>
<th>INPAQ 佳邦</th>
<th>ACON 連展</th>
<th>國巨</th>
</tr>
</thead>
<tbody>
<tr>
<td>14&quot; NFC ANT</td>
<td>6036B0205501</td>
<td>6036B0202101</td>
<td>6036B0202601</td>
</tr>
</tbody>
</table>

Tabulator : Lihong Ma  
Department : IE
Standard Operation Process

Document No. 2018-2019B series(Cocoa) 14’ disassembly SOP
Station: 26(1/1)
Process Name : Remove Screw
Ver. : 1.0
Date: 2019/4/26

Step :

1. Remove 2 pcs screw on M/B M2x3L (6052B0302601)*2
   ❖ Note: Screw can not make scratch on the unit or dropped into the unit.
   ❖ Torque force: 1.5 ± 0.2 Kgf.Cm

2. Remove FP Bracket M2*2 (6052B0156201) *1
   Location "3" (Picture 3)
   ❖ Note: Screw can not make scratch on the unit or dropped into the unit.
   ❖ Torque force : 1.5 ± 0.2 Kg.f.Cm

3. Remove screw on FAN Set
   Note: Screw can not make scratch on the unit or dropped into the unit.
   ❖ Torque force: 1.5 ± 0.2 Kgf.Cm

Cross electric screwdriver

<table>
<thead>
<tr>
<th>Fixture List(Fixture Spec.)</th>
<th>Qty</th>
<th>Fixture List(Fixture Spec.)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cross electric screwdriver</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Attention : Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.

Tabulator : Lihong Ma
Department : IE
Step:
1. On the side of fan, lift up MB 30~40° and then remove MB.
Step:
1. Remove screws on thermal and fan. (Picture 1/2)
   - If thermal for DIS SKU · remove 6 pcs screw
   - If thermal for UMA SKU, remove 4 pcs screw
     Torque force : 1.5 ± 0.2 Kgf.Cm
   - Screws on thermal remove sequence : 1→2→3→4→5→6
   - Screws on fan remove sequence : 1→2→3
2. Remove FFC
3. Collect fan, thermal and FFC.

Cross electric screwdriver (#1)                        1

<table>
<thead>
<tr>
<th>Fixture List(Fixture Spec.)</th>
<th>Qty</th>
<th>Fixture List(Fixture Spec.)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cross electric screwdriver (#1)</td>
<td>1</td>
<td></td>
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</tr>
</tbody>
</table>

Attention: Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.

Tabulator: Lihong Ma  Department: IE
**Attention:** Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.

---

**Step:**

1. Put the top on the bearing fixture.  
   - Make sure the angle is 150 degree.
2. Remove 6 pcs screw with M2.5*4 (6052B0101901)  
   - Torque force: 2.5±0.2Kgf·cm  
   - Screw can not make scratch on the unit.  
   - 3. Taking out the LCM Module carefully to avoid scratch.

---

**Fixture List:**

<table>
<thead>
<tr>
<th>Fixture List(Fixture Spec.)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bearing Fixture</td>
<td>1</td>
</tr>
<tr>
<td>Cross electric screwdriver</td>
<td>1</td>
</tr>
</tbody>
</table>

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**Picture 1**

**Picture 2**
Standard Operation Process

Document No. 2018-2019B series(Cocoa) 14’ disassembly SOP

Process Name : Remove FP BRKT, Finger

Ver. : 1.0

Date: 2019/4/26

Station: 30(2/2)

Step:

1. Remove set screws on FP BRKT (P/N: 6053B1627401) or Dummy(6051B1284101) M2*2L(6052B0205901)*1 (Picture 1)
   ❖ Torque force: 1.5 ± 0.2Kgf . cm
   ❖ Screw can not make scratch on the unit.

2. Take out finger module or dummy finger and tear down conductive fabric on it. (P/N: 6054B2130501 Picture2)

Attention : Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.

<table>
<thead>
<tr>
<th>Fixture List(Fixture Spec.)</th>
<th>Qty</th>
<th>Fixture List(Fixture Spec.)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cross electric screwdriver(#1)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tabulator : Lihong Ma
Department : IE
Standard Operation Process

Document No. 2018-2019B series(Cocoa) 14’ disassembly SOP

Process Name : Remove Smart /Dummy card

Ver. : 1.0

Date: 2019/4/26

Station: 31(1/1)

Step :

1. Remove W/Smartcard M2*2L(6052B0156201)*3
   or SC Dummy M2*2L(6052B0156201)*2
   ❖ Torque force: 1.5 ± 0.2Kgf . cm (M2)
   ❖ Screw can not make scratch on the unit.

2. Collect the material.

W/Smart Card

Smart Card Dummy

Attention : Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.

<table>
<thead>
<tr>
<th>Fixture List(Fixture Spec.)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Cross electric screwdriver(#1)</td>
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</tbody>
</table>

<table>
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<tr>
<th>Fixture List(Fixture Spec.)</th>
<th>Qty</th>
</tr>
</thead>
</table>

Tabulator : Lihong Ma

Department : IE
Standard Operation Process

Document No. 2018-2019B series(Cocoa) 14' disassembly SOP

Process Name : Remove USB/B

Station: 32(1/1)  Ver. : 1.0  Date: 2019/4/26

Step:

1. Remove USB/B M2x3L screw (6052B0302601) * 1
   - Torque force: 1.5 ± 0.2Kgf . cm (M2 screw)
   - Screw can not make scratch on the unit.

<table>
<thead>
<tr>
<th>Fixture List(Fixture Spec.)</th>
<th>Qty</th>
<th>Fixture List(Fixture Spec.)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cross electric screwdriver (#1)</td>
<td></td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

Tabulator : Lihong Ma  Department : IE

Attention : Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.
Standard Operation Process

Document No. 2018-2019B series(Cocoa) 14’ disassembly SOP  Station: 33(1/1)
Process Name : Remove Speaker/ Power/B Screw /FFC  Ver. : 1.0  Date: 2019/4/26

Step :

1. Remove screw on speaker M2.5 x 2.5L(6052B0239501) *1
   Power/B M2.5 x 2.5 L(6052B0239501) * 1
   ❖ Torque force: 2.0 ± 0.1Kgf . cm
   ❖ Screw can not make scratch on the unit.
2. Remove Click Pad FFC

Cross electric screwdriver (#1) 1

Attention : Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.
1. Disassemble TP screw (PS) TPCB M2*2L (6052B0156201)*4
   ❖ Torque Value: 1.5 ± 0.2Kgf. cm (M2)
   ❖ Pay attention to screw which can’t loosen

Attention: Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.

<table>
<thead>
<tr>
<th>Fixture List(Fixture Spec.)</th>
<th>Qty</th>
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<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cross torque(#1)</td>
<td>1</td>
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<td></td>
</tr>
</tbody>
</table>

Tabulator: Lihong Ma   Department: IE
1. Disassemble TP screw (NPS) TPCB M2*2L(6052B0156201)*3
   (PS) TPCB M2*2L(6052B0156201)*3
   ❖ Torque value: 1.5 ± 0.2Kgf · cm (M2)
   ❖ Pay attention to screw which can't loosen

Attention: Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.

<table>
<thead>
<tr>
<th>Fixture List(Fixture Spec.)</th>
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</thead>
<tbody>
<tr>
<td>Cross electric screwdriver(#1)</td>
<td>1</td>
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<td></td>
</tr>
</tbody>
</table>

Tabulator: Lihong Ma  Department: IE
Standard Operation Process

Document No. 2018-2019B series(Cocoa) 14’ disassembly SOP
Process Name : Disassemble Click Pad & Pick Button
Ver. : 1.0
Date: 2019/4/26

Station: 36(1/1)

Step :
1. Disassemble the screw
   (NPS) TPCB M2*2L(6052B0156201)*3
   (PS) TPCB M2*2L(6052B0156201)*3
   ❖ Torque Value : 1.5 ± 0.2 Kgf . cm (M2)
   ❖ Pay attention to screw which can’t loosen
2. Put the material into the box

---

Fixure List (Fixture Spec.)

<table>
<thead>
<tr>
<th>Qty</th>
<th>Fixture List (Fixture Spec.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cross electric screwdriver(#1)</td>
</tr>
</tbody>
</table>

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Attention : Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.

Tabulator : Lihong Ma
Department : IE
Step:

1. Catch LCM Module, disassemble A cover and bezel
   Cover and Bezel combine with double side tape
   Follow the arrows with number to disassemble the bezel, pay attention to the panel and avoid the crack
2. Put the bezel into the box
Attention ︰ Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.

Step :

1. Disassemble 4 screws of LCM
   M2 x 2.5 L(6052B0120001) * 4
   ❖ Torque value : 1.5 ± 0.2 Kgf . cm

<table>
<thead>
<tr>
<th>Fixture List (Fixture Spec.)</th>
<th>Qty</th>
<th>Fixture List (Fixture Spec.)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cross torque(#1)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tabulator : Lihong Ma       Department : IE
Step:

1. Turn over panel · disassemble cable from CONN, *loosen cramp ring*
2. Put the material into the box

**Attention**: Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.
Attention: Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.

**Station:** 40(1/1)
**Process Name:** Disassemble Panel Bracket
**Ver.:** 1.0
**Date:** 2019/4/26

**Step:**
1. Pull Panel adhesive glue, carry BRKT
2. Put the material into the box

**Pic 1**

<table>
<thead>
<tr>
<th>Fixture List(Fixture Spec.)</th>
<th>Qty</th>
<th>Fixture List(Fixture Spec.)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>6053B1515501 BRACKET,FHD_HVA_1,SGCC,14</td>
<td></td>
<td>6053B1515601 BRACKET,FHD_HVA_2,SGCC,14</td>
<td></td>
</tr>
</tbody>
</table>

Tabulator: Lihong Ma  Department:  IE
Standard Operation Process

Document No. 2018-2019B series(Cocoa) 14’ disassembly SOP

Attention:
Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.

Process Name : Disassemble Hinge cap · screw

Ver. : 1.0

Date: 2019/4/26

Station: 41(1/1)

Step:

For Non-Touch

1. Disassemble the screw of Hinge Cap*2(Location 3,4)
   M2 x 2.5 L(6052B0120001) * 2
   ❖ Torque value : 1.5 ± 0.2 Kgf · cm

For Touch

1. Disassemble M2 x 2.5 L(6052B0120001) * 4(Location 1,2,3,4)
   ❖ Torque value : 1.5 ± 0.2 Kgf · cm

2. Disassemble Hinge cap, put the material into box

<table>
<thead>
<tr>
<th>Fixture List(Fixture Spec.)</th>
<th>Qty</th>
<th>Fixture List(Fixture Spec.)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cross torque(#1)</td>
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<td></td>
</tr>
</tbody>
</table>

Tabulator : Lihong Ma        Department : IE
Standard Operation Process

Document No. 2018-2019B series(Cocoa) 14’ disassembly SOP

Process Name : Disassemble screw of HINGE

Step :

1. Disassemble the six screws of hinge
   M2.5 x 2.5 L(6052B0239501) *6
   ❖ Torque Value : 1.5 ± 0.2Kgf . cm

<table>
<thead>
<tr>
<th>Fixture List(Fixture Spec.)</th>
<th>Qty</th>
<th>Fixture List(Fixture Spec.)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cross torque(#1)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Attention : Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.

Tabulator : Lihong Ma    Department : IE
Step :

1. Disassemble the hinge and put into the box
   Pay the attention to the hook of hinge

Attentions: Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.
Attention: Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.

Step:

1. Disassemble Cable, Camera/MIC/B
2. Put the material into the box
   - Camera have adhesive glue
Standard Operation Process

Document No. 2018-2019B series(Cocoa) 14’ disassembly SOP

Process Name: Disassemble the left antenna

Station: 44(1/1)

Ver. : 1.0

Date: 2019/4/26

Step:

1. Disassemble the left antenna
2. Put the material into box

Attention: Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.

<table>
<thead>
<tr>
<th>Fixture List(Fixture Spec.)</th>
<th>Qty</th>
<th>Fixture List(Fixture Spec.)</th>
<th>Qty</th>
</tr>
</thead>
</table>

Tabulator: Lihong Ma
Department: IE
Step:

1. Disassemble the right antenna
2. Put the material into box

Attention: Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.
Standard Operation Process

Document No. 2018-2019B series(Cocoa) 14’ disassembly SOP

Process Name : Put A cover in the box

Step :

1. Put A cover in the box

<table>
<thead>
<tr>
<th>Fixture List(Fixture Spec.)</th>
<th>Qty</th>
<th>Fixture List(Fixture Spec.)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum foil</td>
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</table>

Attention : Please handle PCB board gently and do not touch PCB parts. Any defective product, please inform line leader or assistant.

Tabulator : Lihong Ma

Department : IE