Product End-of-Life Disassembly Instructions

Product Category: Notebooks and Tablet PCs

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

<table>
<thead>
<tr>
<th>HP ProBook 650 G4 Notebook PC</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP EliteBook 850 G4 Notebook PC</td>
</tr>
<tr>
<td>HP EliteBook 840 G4 Notebook PC</td>
</tr>
</tbody>
</table>

Purpose: The document is intended for use by end-of-life recyclers or treatment facilities. It provides the basic instructions for the disassembly of HP products to remove components and materials requiring selective treatment, as defined by EU directive 2002/96/EC, Waste Electrical and Electronic Equipment (WEEE).

1.0 Items Requiring Selective Treatment

1.1 Items listed below are classified as requiring selective treatment.

1.2 Enter the quantity of items contained within the product which require selective treatment in the right column, as applicable.

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Notes</th>
<th>Quantity of items included in product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Printed Circuit Boards (PCB) or Printed Circuit Assemblies (PCA)</td>
<td>With a surface greater than 10 sq cm</td>
<td>1</td>
</tr>
<tr>
<td>Batteries</td>
<td>All types including standard alkaline and lithium coin or button style batteries</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>0</td>
</tr>
<tr>
<td>Cathode Ray Tubes (CRT)</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Capacitors / condensers (Containing PCB/PCT)</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Electrolytic Capacitors / Condensers measuring greater than 2.5 cm in diameter or height</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>External electrical cables and cords</td>
<td>Power cord</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 already listed as a separate item above)</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Components and parts containing toner and ink, including liquids, semi-liquids (gel/paste) and toner</td>
<td>Include the cartridges, print heads, tubes, vent chambers, and service stations.</td>
<td>0</td>
</tr>
</tbody>
</table>

PSG instructions for this template are available at [EL-MF877-01](#).
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>T8 Electric Screwdriver</td>
<td></td>
</tr>
<tr>
<td>Cross Electrical Screwdriver</td>
<td></td>
</tr>
<tr>
<td>M/B Support Fixture</td>
<td></td>
</tr>
<tr>
<td>Plastic stick</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. 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. Disconnect RTC battery cable and remove battery from M/B.
5. Dispose of all removed components according to regulation requirements.
6. 
7. 
8. 
9. 

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>Station</th>
<th>Version</th>
<th>Station</th>
<th>Version</th>
<th>Station</th>
<th>Version</th>
<th>Station</th>
<th>Version</th>
<th>Station</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>6</td>
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<td>8</td>
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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>2018/1/16</td>
<td>ALL</td>
<td>First Version</td>
<td>0.1*</td>
<td>Jonners Long</td>
</tr>
</tbody>
</table>

Auditor : C.S. Lee  Tabulator : Vick Weng
Standard Operation Procedure

Document No. : Chromia 15 DIS ASS’Y SOP
Name : Loosen Screw

Step :

1. Loosen screw* 4.
   ❖ Torsion : 2.0 ± 0.2 Kgf • cm

<table>
<thead>
<tr>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric cross screwdriver(#1)</td>
<td>1</td>
</tr>
</tbody>
</table>

Tabulator : Vick Weng  Auditor : C.S. Lee  Issue department : NPSU-PPE
Step:

1. Loosen screw* 4.
   ❖ Torsion : 2.0 ± 0.2 Kgf · cm

Holding fixture list (holding fixture standard)

<table>
<thead>
<tr>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric cross screwdriver(#1)</td>
<td>1</td>
</tr>
</tbody>
</table>

Tabulator : Vick Weng  
Auditor : C.S. Lee  
Issue department : NPSU-PPE
Standard Operation Procedure

Step:

1. Disassemble bottom case from hinge side.

<table>
<thead>
<tr>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
</tr>
</thead>
</table>

Tabulator: Vick Weng  
Auditor: C.S. Lee  
Issue department: NPSU-PPE
Step:

1. Loosen K/B screw* 3.

❖ Torsion : 2.0± 0.2 Kgf · cm
Standard Operation Procedure

Document No. : Chromia 15 DIS ASS’Y SOP
Name : Loosen Battery Screw

Step :

1. Loosen battery screw* 6.
   ❖ Torsion : 1.5± 0.2 Kgf · cm
2. Disassemble battery.

<table>
<thead>
<tr>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric cross screwdriver (#1)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tabulator : Vick Weng   Auditor : C.S. Lee   Issue department : NPSU-PPE
Standard Operation Procedure

Document No.: Chromia 15 DIS ASS‘Y SOP  Station: 6(1/1)
Name: Loosen HDD & ODD Screw  Ver.: 0.10  Date: 2018/01/16

Holding fixture list (holding fixture standard)

<table>
<thead>
<tr>
<th>Qty</th>
<th>Holding fixture list (holding fixture standard)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Electric cross screwdriver (#1)</td>
</tr>
</tbody>
</table>

Step:

1. Loosen HDD & ODD screw* 5.
   ❖ Torsion: 1.5 ± 0.2 Kgf · cm
2. Disassemble HDD & ODD(or ODD dummy) from base unit.

Tabulator: Vick Weng  Auditor: C.S. Lee  Issue department: NPSU-PPE
### Standard Operation Procedure

**Document No.**: Chromia 15 DIS ASS’Y SOP  
**Station**: 7(1/1)  
**Name**: Disassemble ODD Bracket & Bezel  
**Ver.**: 0.10  
**Date**: 2018/01/16

**Tabulator**: Vick Weng  
**Auditor**: C.S. Lee  
**Issue department**: NPSU-PPE

#### Step:

**FOR ODD**

1. Put ODD on the support fixture, loosen ODD bracket screw 2 (Fig.1).
   - Torsion: 1.5 ± 0.2 Kgf cm

2. Disassemble ODD bezel from ODD (Fig.2).

---

**Holding fixture list (holding fixture standard)**

<table>
<thead>
<tr>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric cross screwdriver (#1)</td>
<td>1</td>
<td>Support fixture</td>
<td>1</td>
</tr>
</tbody>
</table>

---

*Fig.1  
Fig.2*
Step:

1. Loosen HDD bracket screw* 4, then separate HDD & HDD bracket.
   ❖ Torsion : 2.5 ± 0.2 Kgf · cm

<table>
<thead>
<tr>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric cross screwdriver (#1)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tabulator: Vick Weng  Auditor: C.S. Lee  Issue department: NPSU-PPE
Step:
1. Disassemble DDR.
Step:

1. Disconnect WWAN antenna from WWAN module, then disassemble antenna from hook.
**Standard Operation Procedure**

Document No.: Chromia 15 DIS ASS’Y SOP
Station: 11(1/1)
Name: Disassemble WWAN Module
Version: 0.10
Date: 2018/01/16

**Step:**

**FOR WWAN module**

1. Loosen WWAN screw*1(Fig.1), then disassemble WWAN module.
2. Loosen WWAN bracket screw*1(Fig.2), then disassemble WWAN bracket.
   - Torsion: 1.5 ± 0.2 Kgf·Cm

---

<table>
<thead>
<tr>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric cross screwdriver (#1)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Fig.1

Fig.2

Tabulator: Vick Weng  
Auditor: C.S. Lee  
Issue department: NPSU-PPE
Step:

1. Disconnect WLAN antenna from WLAN module, then disassemble antenna from hook.
**Standard Operation Procedure**

Document No. : Chromia 15 DIS ASS’Y SOP

Name : Disassemble WLAN/SSD

Ver. : 0.10 Date : 2018/01/16

Station : 13(1/1)

---

**Step :**

1. Loosen WLAN/SSD screw, then disassemble WLAN/SSD module.
   - Torsion : 1.5 ± 0.2 Kgf · Cm

---

**Holding fixture list (holding fixture standard)**

<table>
<thead>
<tr>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric cross screwdriver(#1)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

Tabulator : Vick Weng Auditor : C.S. Lee Issue department : NPSU-PPE
Step:
1. Use plastic stick to push the K/B(Fig.1).
2. Turn the base unit over, then disassemble K/B(Fig.2).

<table>
<thead>
<tr>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastic stick</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tabulator: Vick Weng  Auditor: C.S. Lee  Issue department: NPSU-PPE
Step:

1. Disassemble K/B FPC, BL FFC, PS FFC from M/B CNTR, then remove K/B.
Step:

1. Disassemble Power/B FFC from M/B CNTR.
2. Disassemble speaker cable from M/B CNTR.
3. Disassemble FPR FFC from M/B CNTR.
Standard Operation Procedure

Document No. : Chromia 15 DIS ASS'Y SOP
Name : Loosen Frame Screw

Step :

1. Turn the base unit over.
2. Loosen frame screw* 5.

❖ Torsion : 2.0 ± 0.2 Kgf · Cm

Electric cross screwdriver(T8) | Qty | Holding fixture list (holding fixture standard) | Qty
--- | --- | --- | ---
1 | Holding fixture list (holding fixture standard) | Qty

Tabulator : Vick Weng Auditor : C.S. Lee Issue department : NPSU-PPE
Step:

1. Loosen frame screw* 5.

- Torsion : 2.0 ± 0.2 Kgf • Cm

<table>
<thead>
<tr>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric cross screwdriver(T8)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tabulator : Vick Weng  
Auditor : C.S. Lee  
Issue department : NPSU-PPE
Step:

1. Loosen frame screw* 5.
   - Torsion : $2.0 \pm 0.2 \text{ Kgf \cdot Cm}$

<table>
<thead>
<tr>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric cross screwdriver(T8)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Step:

1. Loosen frame screw* 5.

   - Torsion : $2.0 \pm 0.2$ Kgf $\cdot$ Cm

<table>
<thead>
<tr>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric cross screwdriver(#1)</td>
<td>1</td>
<td></td>
<td></td>
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</tbody>
</table>
Step:

1. Disassemble frame from hinge side.

<table>
<thead>
<tr>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
</tr>
</thead>
</table>

Tabulator : Vick Weng  
Auditor : C.S. Lee  
Issue department : NPSU-PPE
Standard Operation Procedure

Document No. : Chromia 15 DIS ASS’Y SOP
Name : Disassemble Smart Card & Click pad FFC
Ver. : 0.10
Date : 2018/01/16
Station : 22(1/1)

Step :
1. Disassemble smart card & click pad FFC.
Step:

1. Pull EDP cable mylar, than disassemble EDP cable from M/B CNTR(Fig.1).
2. Disassemble cable from hook(Fig.2).

Fig.1

Fig.2
**Standard Operation Procedure**

**Disassemble FAN Cable**

**Step:**

1. Disassemble FAN cable from M/B CNTR(Fig.1).
2. Loosen FAN screw*1(Fig.2).
   - **Torsion**: $1.5 \pm 0.2$ Kgf \cdot Cm

---

<table>
<thead>
<tr>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric cross screwdriver(#1)</td>
<td>1</td>
</tr>
</tbody>
</table>

---

**Tabulator**: Vick Weng  
**Auditor**: C.S. Lee  
**Issue department**: NPSU-PPE
Step:

1. Disassemble NFC FFC from M/B CNTR, then disassemble NFC & NFC antenna from top case.
Step:

1. Disassemble FFC & NFC antenna from NFC module.
Standard Operation Procedure

Document No. : Chromia 15 DIS ASS’Y SOP  Station : 27(1/1)
Name : Loosen Screw  Ver. : 0.10  Date : 2018/01/16

Step :
1. Loosen FP bracket screw*1(position1)
2. Loosen M/B screw*1(position2)
3. Loosen VGA/B or RS232/B screw*2(position3,4).
   ❖ Torsion : 1.5 ± 0.2 Kgf · Cm

<table>
<thead>
<tr>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric cross screwdriver(#1)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tabulator : Vick Weng  Auditor : C.S. Lee  Issue department : NPSU-PPE
Step:

1. Disassemble VGA/B or RS232/B from M/B.
Step:

1. Hold Fan position then pick up M/B 30~40°, then disassemble from top case.
**Standard Operation Procedure**

**Document No.:** Chromia 15 DIS ASS’Y SOP

**Station:** 30(1/1)

**Name:** Disassemble FAN & Thermal

**Ver.:** 0.10  **Date:** 2018/01/16

**Tabulator:** Vick Weng  **Auditor:** C.S. Lee  **Issue department:** NPSU-PPE

---

**Step:**

1. Put M/B on support fixture, Loosen FAN screw*2 (Fig.1), then separate FAN from M/B.
2. Loosen thermal screw, then separate thermal from M/B
   - UMA U type(Fig.2)
   - UMA H type(Fig.3)
   - DIS type(Fig.4)
   - Torsion : 1.5 ± 0.2 Kgf · Cm

---

**Holding fixture list (holding fixture standard)**

<table>
<thead>
<tr>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric cross screwdriver(#1)</td>
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<td></td>
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</tr>
<tr>
<td>M/B B side support fixture</td>
<td>1</td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

---

Tabulator : Vick Weng  **Auditor :** C.S. Lee  **Issue department :** NPSU-PPE
Step:

1. Disassemble antenna from hook (Fig.1).
2. Rip mylar from top case (Fig.2).

Fig.1

Fig.2
**Step:**

1. Open LCM to 150°, put base unit on support fixture(Fig.1).
2. Loosen screw*3(Fig.2/Fig.3).
   ❖ **Torsion**: 3.0 ± 0.2 Kgf · cm

---

**Holding fixture list (holding fixture standard)**

<table>
<thead>
<tr>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Support fixture</td>
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<tr>
<td>Electric cross screwdriver(#1)</td>
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</tbody>
</table>

---

Tabulator : Vick Weng  
Auditor : C.S. Lee  
Issue department : NPSU-PPE
Standard Operation Procedure

Document No. : Chromia 15 DIS ASS'Y SOP
Name : Disassemble F/P or Dummy F/P
Ver. : 0.10
Date : 2018/01/16

Step :
1. Disassemble Finger FFC(Fig.1).
2. Disassemble Finger Bracket from left side to right side(Fig.2).
3. Disassemble Finger Print(Fig.3) or Dummy(Fig.4) from top case.

<table>
<thead>
<tr>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tabulator : Vick Weng  Auditor : C.S. Lee  Issue department : NPSU-PPE
### Step:

1. Loosen W/Smart Card screw*3(Fig.1) or S/C dummy screw*2(Fig.2).
   - Torsion: $1.5 \pm 0.2$ Kgf $\cdot$ cm
2. Disassemble bracket & Smart Card or S/C dummy from top case.

### Holding fixture list (holding fixture standard)

<table>
<thead>
<tr>
<th></th>
<th>Qty</th>
<th></th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric cross screwdriver(#1)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Fig.1**

**Fig.2**
Standard Operation Procedure

Document No. : Chromia 15 DIS ASS'Y SOP
Name : Disassemble Power/B · Speaker
Ver. : 0.10
Date : 2018/01/16

1. Loosen Power/B screw*1, then disassemble Power/B from top case(Fig.1).
2. Lossen speaker screw*1, then disassemble speaker from top case(Fig.2).
   ❖ Torsion : 1.5 ± 0.2 Kgf . cm
3. Disassemble FFC from click pad CNTR(Fig.3).

<table>
<thead>
<tr>
<th>Holding fixture list (holding fixture standard)</th>
<th>Qty</th>
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<tbody>
<tr>
<td>Electric cross screwdriver(#1)</td>
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</table>

Tabulator : Vick Weng  Auditor : C.S. Lee  Issue department : NPSU-PPE
Step:

1. Loosen screw*3(Fig.1). (NPS)
   screw*6(Fig.2). (PS)
   ❖ Torsion : 1.5 ± 0.2 Kgf . cm

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Tabulator : Vick Weng  Auditor : C.S. Lee  Issue department : NPSU-PPE
Step:
1. Loosen screw*3(Fig.1). (NPS)
   screw*6(Fig.2). (PS)
   ❖ Torsion : 1.5 ± 0.2 Kgf·cm
2. Disassemble click pad & pick button from top case.

Holding fixture list (holding fixture standard)

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Tabulator : Vick Weng    Auditor : C.S. Lee    Issue department : NPSU-PPE
Step:

1. Disassemble front bezel in order.
Step:

1. Loosen LCM screw* 4.

>Torsion : 1.5 ± 0.2 Kgf . cm

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Tabulator : Vick Weng  
Auditor : C.S. Lee  
Issue department : NPSU-PPE
**Step:**

1. Disassemble LCM from rear case (Fig.1).
2. Disassemble EDP cable from LCM module (Fig.2).

---

**Fig.1**

**Fig.2**

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**Tabulator:** Vick Weng  
**Auditor:** C.S. Lee  
**Issue department:** NPSU-PPE
Step:

For Touch SKU
1. Loosen hinge cap screw*2(Fig.1).

2. Loosen hinge screw*2(Fig.2).
❖ Torsion : 1.5± 0.2 Kgf . cm

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Tabulator : Vick Weng  
Auditor : C.S. Lee  
Issue department : NPSU-PPE
Step:

1. Disassemble hinge cap R&L from rear case.
Standard Operation Procedure

Document No. : Chromia 15 DIS ASS’Y SOP
Name : Loosen Hinge Screw
Ver. : 0.10
Date : 2018/01/16
Station : 43(1/1)

Step:

1. Loosen hinge screw*6(Fig.1/Fig.2).
   ❖ Torsion : 2.0 ± 0.2 Kgf . cm

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Tabulator : Vick Weng  Auditor : C.S. Lee  Issue department : NPSU-PPE
Step:

1. Disassemble hinge R & L from rear case.
Step:

1. Disassemble Antenna-L from hook, then rip antenna from rear case.
1. Disassemble Camera or MIC board from rear case.
2. Disconnect CCD cable from Camera or MIC board, then disassemble cable from hook.
Step:
1. Disassemble Antenna-R from hook, then rip antenna from rear case.