Product End-of-Life Disassembly Instructions

Marketing Name / Model
[List multiple models if applicable.]
HP EliteBook 855 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 2002/96/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>5</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 “[ ]”): [x] screws [x] snaps [ ] adhesive [ ] other. Explain NOTE: Add detailed removal procedures including required tools in the sections 3.1/3.2.</td>
<td>2</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 (15.6”)</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>Item Description</td>
<td>Notes</td>
<td>Quantity of items included in product</td>
</tr>
<tr>
<td>---------------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td>Gas Discharge Lamps</td>
<td></td>
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</tr>
<tr>
<td>Plastics containing Brominated Flame Retardants weighing &gt; 25 grams (not including PCBs or PCAs already listed as a separate item above)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Components and parts containing toner and ink, including liquids, semi-liquids (gel/paste) and toner</td>
<td>Include the cartridges, print heads, tubes, vent chambers, and service stations.</td>
<td>0</td>
</tr>
<tr>
<td>Components and waste containing asbestos</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Components, parts and materials containing refractory ceramic fibers</td>
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<td>0</td>
</tr>
<tr>
<td>Components, parts and materials containing radioactive substances</td>
<td></td>
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</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>Screw driver</td>
<td>Cross</td>
</tr>
<tr>
<td>Opening pry jig</td>
<td></td>
</tr>
<tr>
<td>Hot air gun or Hair dryer</td>
<td></td>
</tr>
<tr>
<td>Tweezer</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. Loosen screws and remove base cover
2. Remove main battery
3. Remove DDR and small cards
4. Disconnect all cables and remove RTC battery
5. Take out Thermal module, fan and PCA
6. [Add more steps if necessary]
7. [Add more steps if necessary]

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 :Camellia Linden

Sub-assembly name: Camellia Linden 15 disassembly SOP
Document No.: Camellia Linden 15 disassembly SOP
Written by: Zhou. Guilin
Revision: 0.10
Date: 2020/3/21
Page: 1 of 21

A. Current station version list:

<table>
<thead>
<tr>
<th>Station</th>
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<th>Station</th>
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B. Version Modify list:

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<td>2020/3/21</td>
<td>ALL</td>
<td>the first disassembly SOP</td>
<td>0.1*</td>
<td>Zhao. Hai-quan</td>
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</table>
### Standard Operation Procedure

**Document No.:** Camellia Linden 15 Disassembly SOP  
**Station:** 1(1/1)  
**Operation Name:** Release Base screws  
**Ver.:** 0.10  
**Edit date:** 2020/3/21

---

**Step:**

1. Loosen Base screw *5pcs as below picture showing.
   - Torque: 3.0 ± 0.2 kgf.cm
   - Screw cannot be slipped.

---

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

---

**Fixtures List (Spec.)**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

- **Screwdriver**

---

**Lister:** Zhou Gui-lin  
**Issue Department:** Industrial Engineering Class
Step:

1. Use cable jig to separate Base from unit.
   Attention: Insert jig to TOP & Base gap area, then slide jig to separate TOP & Base.

2. Put hands on Base and TOP corner area, handle Base lift it up while press TOP down.

3. Take away the Base from unit.

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

Document No. : Camellia Linden 15 disassembly SOP
Operation Name : Disassembly battery
station : 3(1/1)
Ver. : 0.10
Edit date 2020/3/21

Step :
❖ 1. Pullout battery cable from connector as Pic.1.
❖ 2. Loosen Battery screw *4pcs as below picture showing.
   ❖ Torque : 2.0 ± 0.2 kgf.cm
   ❖ screw can not be slipped.
❖ 3. Take out battery from unit.

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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<td>Screw driver</td>
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</tbody>
</table>

Lister : Zhou Gui-lin
Issue Department : Industrial Engineering Class
Standard Operation Procedure

Document No. : Camellia Linden 15 disassembly SOP  
Operation Name : Take off DDR

Step :
1. Take off DDR Shielding Can, pic 1
2. Take off DDR, pic 2

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

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

Lister : Zhou. Gui-lin  
Issue Department : Industrial Engineering Class
Standard Operation Procedure

Document No. : Camellia Linden 15 disassembly SOP
Operation Name : Take off WWAN/WAN CABLE
Station : 5(1/1)
Ver. : 0.10
Edit date : 2020/3/21

Step :
1. Take off WWAN/WLAN CABLE, DCIN CABLE from hook
2. Take off WWAN/WLAN, DCIN and SSD CARD screw, Take off WWAN/WAN, DCIN and SSD CARD
   - torque : 2.0 ± 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>
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<td>Screw driver</td>
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</tbody>
</table>

Lister : Zhou Gui-lin
Issue Department : Industrial Engineering Class
Standard Operation Procedure

Operation Name: Take off FAN/LVDS CABLE

Step:

1. Take off FAN cable, LVDS cable

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

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

Symbol:

- Safe
- Quality
- Order
- Fixture
- Hear
- Look
- Manual
- Static
Step:

1. Open LCD to 160 degree.
2. Loosen Hinge screw *6pcs and disassembly Base unit to separate hinge up and Base unit.
   - Torque: $4.0 \pm 0.2 \text{ kgf.cm}$
   - 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>
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<tr>
<td>Screw driver</td>
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</tr>
</tbody>
</table>

Lister: Zhou Gui-lin
Issue Department: Industrial Engineering Class
Standard Operation Procedure

Document No. : Camellia Linden 15 disassembly SOP
Operation Name : Take off screw
station : 8(1/1)
Ver. : 0.10  Edit date 2020/3/21

Step :
1. Take off USB Bracket screw M2.*4*3, Frame screw M2*4*4, MB screw M2*2*5, Speaker screw
   ❖ torque : 2.0 ± 0.2 kgf · cm
   ❖ screw cannot be slipped.
2. Take off USB Bracket, USB Board, Frame, I/O BRK

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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</thead>
<tbody>
<tr>
<td>Screw driver</td>
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</tbody>
</table>

Lister : Zhou. Gui-lin
Issue Department : Industrial Engineering Class
Standard Operation Procedure

Document No. : Camellia Linden 15 disassembly SOP
Operation Name : Take off FFC・MB

Step :
1. Take off FFC (Pic1)
2. Take off small battery (Pic2)
3. Take off speaker and M/B

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>Manual</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Static</td>
</tr>
</tbody>
</table>

Lister : Zhou. Gui-lin
Issue Department : Industrial Engineering Class
Standard Operation Procedure

Document No. : Camellia Linden 15 disassembly SOP
Station : 10(1/1)
Operation Name : Take off Thermal and fan screw
Ver. : 0.10
Edit date : 2020/3/21

Step :

1. Take off Thermal/FAN screw *7(pic1/2)
   - Torque : 2.0 ± 0.2 kgf · cm
   - Screw can not be slipped.
2. Pay attention to the way of taking thermal and fan

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

Fixure list (Spec.) | Qty | Symbol
--- | --- | ---
Screw driver | 1 | 

Lista : Zhou Gui-lin
Issue Department : Industrial Engineering Class
**Standard Operation Procedure**

Document No.: Camellia Linden 15 disassembly SOP

Station: 11(1/1)

Operation Name: Take off Finger print

Ver.: 0.10

Edit date: 2020/3/21

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**Step:**

1. Take off finger print screw M2.0*2.0 (Pic1)
   - Screw can not be slipped
   - Torque: 2.0 ± 0.2kgf·Cm

2. Take off Finger Print or Dummy Finger (pic2)

---

**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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</thead>
<tbody>
<tr>
<td>Screw driver</td>
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</tr>
</tbody>
</table>

Lister: Zhou. Gui-lin

Issue Department: Industrial Engineering Class
Standard Operation Procedure

Document No. : Camellia Linden 15 disassembly SOP  
Operation Name : Take off SMC  
station : 12(1/1)  
Ver. : 0.10  
Edit date : 2020/3/21

Step :

1. Take off SMC screw M2.0*2.0(6052B0156201)*3. Take off dummy Smartcard or SMC/B from top
   ❖ screw can not be slipped
   ❖ Torque : 2.0 ± 0.2kgf·Cm

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

Lister: Zhou Gui-lin  
Issue Department: Industrial Engineering Class
**Standard Operation Procedure**

**Document No.**: Camellia Linden 15 disassembly SOP  
**Operation Name**: Take off Power/B, pick button  
**Ver.**: 0.10  
**Edit date**: 2020/3/21

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**Step:**

1. Take off pick button and click pad FFC(Pic1)
2. Take off Pick button screw (6052B0508901) * 4, Take off Pick button (图二)
3. Take off click pad screw M2.0*3.0(6052B0156201))*5,
   Take off click pad(Pic3)
   ❖ Screw can not be slipped
   ❖ Torque : 2.0 ± 0.2kgf * Cm

---

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

---

**Fixtures list (Spec.)**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Qty</th>
<th>Screw driver</th>
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<tr>
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<tr>
<td>Look Manual</td>
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<tr>
<td>Static</td>
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</tr>
</tbody>
</table>

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Lister: Zhou Gui-lin  
Issue Department: Industrial Engineering Class
Step:

1. Hair dryer need to be around 10cm from B-cover.
2. When blowing, need to **swing and moving along bezel together**. Not focus on single spot to keep blowing.

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

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

Lister: Zhou Gui-lin  
Issue Department: Industrial Engineering Class
Step:

1. After heating the bezel 25s by 60 °C, then use the thickness jig to separate bezel and panel, disassembly priority as below showing 1~2~3~4,

Attention: First, separate bezel adhesive, and then release bezel hook. Try to avoid pressing panel to damage glass while tear down bezel.

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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<td>Hair dryer</td>
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<td></td>
</tr>
</tbody>
</table>

Lister: Zhou Gui-lin
Issue Department: Industrial Engineering Class
Step:

![Image](Pic1)

1. Loosen hinge cap screw and disassembly hinge cap from unit.
   - Torque: $1.0 \pm 0.2$ kgf.cm
   - Screw can not be slipped.

![Image](Pic2)

Push toward right side

![Image](Pic3)

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

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

Lister: Zhou. Gui-lin  
Issue Department: Industrial Engineering Class
Standard Operation Procedure

Document No. : Camellia Linden 15 disassembly SOP
Operation Name : 拆panel易拉胶
Station : 16(1/1)
Ver. : 0.10
Edit date : 2020/3/21

Step:

1. Use tweezer to clamp left easy-pull tape, then pull down in parallel.
2. Use the same method to disassembly right easy-pull tape.

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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<tr>
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</tbody>
</table>

Lister: Zhou. Gui-lin
Issue Department: Industrial Engineering Class
Standard Operation Procedure

Document No. : Camellia Linden 15 disassembly SOP
Operation Name : Take off e-DP Cable
station : 17(1/1)
Ver. : 0.10
Edit date : 2020/3/21

Step :

1. Tear down EDP cable from panel connector.
2. Take out EDP cable from trough.
3. For Privacy panel, disassembly FFC from panel connector.

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

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

Lister : Zhou Gui-lin
Issue Department : Industrial Engineering Class
Standard Operation Procedure

Document No. : Camellia Linden 15 disassembly SOP
Operation Name : Take off Camera, ALS/B, MIC/B
Station : 18(1/1)
Ver. : 0.10
Edit date : 2020/3/21

Step :

1. Take off camera cable, ALS/B cable, MIC/B cable, HUB/B cable
2. Take off camera, ALS/B, MIC/B, HUB/B from cover

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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</thead>
</table>

Lister : Zhou Gui-lin
Issue Department : Industrial Engineering Class
Standard Operation Procedure

Document No. : Camellia Linden 15 disassembly SOP  
Operation Name : Take off ANTENNA  
station : 19(1/1)  
Ver. : 0.10  
Edit date : 2020/3/21

Step:

1. Take off WLAN ANTENNA cable from cover hook

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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</table>

Lister : Zhou Gui-lin  
Issue Department : Industrial Engineering Class
Standard Operation Procedure

Document No. : Camellia Linden 15 disassembly SOP
Operation Name : Take off hinge screw

Step :
1. Take off left and right screw*6
   ❖ Torque : 4.0 ± 0.2Kgf . Cm

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

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