# Product End-of-Life Disassembly Instructions

**Product Category:** Notebooks and Tablet PCs

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

<table>
<thead>
<tr>
<th>HSN-I34C</th>
<th>HP ProBook x360 435 G7 Notebook PC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HP ProBook x360 435 G7</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 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  
  [ ] adhesive  
  [X] other. Explain cable  
  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                                      |

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>
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<th>Notes</th>
<th>Quantity of items included in product</th>
</tr>
</thead>
<tbody>
<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>
<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>
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</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: Primrose

### Sub-assembly name: Primrose 拆机 SOP

### Document No.: Primrose 拆机 SOP

### Written by: 周贵玲

### Date: 2020/2/27

### Revision: 0.10

### Page: 1 of 25

### A. Current station version list:

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</table>

### B. Version Modify list:

<table>
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<th>Date</th>
<th>Sta.</th>
<th>Content</th>
<th>Ver.</th>
<th>Design</th>
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<tbody>
<tr>
<td>2020/2/27</td>
<td>ALL</td>
<td>首份SOP制作</td>
<td>0.1*</td>
<td>王興洪</td>
</tr>
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</table>

审核： 韩言刚  制表： 周贵玲
Steps:

1. Disassemble the screws*5 on the lower of the base according to the sequence shown in the figure.
   - Disassemble screw*A directly up and down
   - Torque: 2.5 ± 0.2 Kgf · cm
   - Do not slide the screw or withdraw the lower cover during disassembly.

Note: in case of any abnormality, please inform the foreman of assistant immediately

<table>
<thead>
<tr>
<th>Fixture list(fixture specification)</th>
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</thead>
<tbody>
<tr>
<td>Cross electric screwdriver head (#1)</td>
<td>1</td>
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</tbody>
</table>

Prepared: Zhou Guiling        Issuing department: IE
Steps:
1. Disassemble the screws*2 on the lower of the base according to the sequence shown in the figure.
   - Disassemble screw*A directly up and down
   - Torque: 2.5 ± 0.2 Kgf · cm
   - Do not slide the screw or withdraw the lower cover during disassembly

Note: in case of any abnormality, please inform the foreman of assistant immediately

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<tr>
<td>Cross electric screwdriver head (#1) 1</td>
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</tbody>
</table>
Steps:

1. Use the disassembly bar to pry off the base cover from the hinge cap and hook according to the sequence shown in the figure, and then place it in the material box.

2. Order of disassembly: 1→2→3,
   - The base cover magnet can not be attached to other screws.

Note: in case of any abnormality, please inform the foreman of assistant immediately.
Operation instruction

Document No.: Primrose disassembly SOP  Station : 4(1/1)
Operation name: Battery dismantling  Ver.: 0.10  editing date: 2020/2/27

Steps:

1. According to the sequence shown in the figure, remove the fixing screws*4. (figure 1)
   - Torque: 1.5 ± 0.2 Kgf · cm
   - Do not slide the screw when disassembling

2. Remove battery from the machine. (figure 2)
   - Lift the CR end of battery up to 45 and take it out
   - There are stops at the lower left and right corners, which cannot damage the hook and battery
   - Take out the battery and place it in the material box

Note: in case of any abnormality, please inform the foreman of assistant immediately

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<tr>
<td>Cross electric screwdriver head (#1)</td>
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</table>

Prepared: Zhou Guiling  Issuing department: IE
Steps:

1. Remove the DDR shield Bracket from MB and place it in the material box.
   - Make M/B Clips19 (figure2).
   - When taking DDR shield Bracket, do not damage the upper M/B components.

Note: in case of any abnormality, please inform the foreman of assistant immediately
Operation instruction

Document No.: Primrose disassembly SOP
Station: 6(1/1)
Operation name: Disassembly SSD Shield Bracket
Ver.: 0.10
editing date: 2020/2/27

Steps:

2. Remover SSD shield Bracket from M/B
   - Make M/B Clips 13（figure2）
   - When taking DDR shield Bracket, do not damage the upper M/B components.

Note: in case of any abnormality, please inform the foreman of assistant immediately

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Prepared: Zhou Guiling  
Issuing department: IE
Steps:

1. Open the buckle of the main DDR with both hands at the same time, and the DDR will pop up to the tilt automatically (figure 2).
2. Take it out in the direction of DDR (figure 3).
   - Do not operate with one hand (figure 3).
   - Do not damage the M/B components.
   - When taking DDR, do not touch the PIN.
   - Plug-in must not be skewed.

Note: in case of any abnormality, please inform the foreman of assistant immediately.

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<tr>
<td>Lon fan</td>
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</table>

Prepared: Zhou Guiling      Issuing department: IE
Steps:

1. Only one ram can be taken and put at a time, when taking and putting, fingers can only hold both sides of ram (figure 1).
   - do not press one side of ram and lift it up from the other side (figure 2)
   - Two or more RAM can not be taken and placed at the same time by each hand (figure 3)
   - do not take the place as figure 4
   - do not press the golden finger as figure 5
   - do not touch the gold finger on RAM as figure 6.

Note: in case of any abnormality, please inform the foreman of assistant immediately
Steps:

1. Remove K/b membrane from M/b CNTR (figure1)
   - Open the piano cover of CNTR and exit the line
   - Do not pull K/B Membrane
   - Do not press the broken line of KB membrane (figure2)

2. Disassemble K/b backlight FPC from M/b CNTR (figure1)
   - Open the piano cover of CNTR and exit the line
   - Do not pull K/B Backlight FPC

Note: in case of any abnormality, please inform the foreman of assistant immediately
Steps:

1. Remove click pad FFC from M/b CNTR. (figure1)
   - Open the piano cover of CNTR and exit the line.
   - Do not pull FFC

2. Remove 2nd camera FFC from M/b CNTR. (figure1)
   - Open the piano cover of CNTR and exit the line.
   - Do not pull FFC

3. Remove Fingerprint FFC from M/b CNTR. (figure2)
   - Open the piano cover of CNTR and exit the line.
   - Do not pull FFC

Note: in case of any abnormality, please inform the foreman of assistant immediately.
Operation instruction

Document No.: Primrose disassembly SOP  Station : 10(1/1)
Operation name: Disassembly EDP & WLAN Antenna cables  Station: 10  editing date: 2020/2/27

Steps:
1. Remove the WLAN main&aux sub antenna connector from the module terminal block  ❖ (figure1)
   ❖ When taking out the antenna, do not damage the terminal on the antenna module
   ❖ Exit the antenna from the hook

2. Take EDP cable CNTR  ❖ (figure1)
   ❖ Hold the cable terminal and lift it up gently
   ❖ Do not use too much force to prevent personnel from damaging the cable
   ❖ Withdraw the cable from the card hook.

3. remove the webcam cable CNTR from the M/b  ❖ (figure2)
   ❖ Hold the cable terminal and lift it up gently
   ❖ Do not use too much force to prevent personnel from damaging the cable
   ❖ Withdraw the cable from the card hook

Note: in case of any abnormality, please inform the foreman of assistant immediately

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</table>

Prepared: Zhou Guiling  Issuing department: IE
Operation instruction

Document No.: Primrose disassembly SOP
Station : 11(1/1)
Operation name  Disassembly DC-IN cable&IO Holder
Ver.: 0.10 editing date: 2020/2/27

Steps :

1. Remove DC-in cable from M/b CNTR
   ◦ (figure1)
   ❖ Push back DC-in cable CNTR with both thumbs until exiting M/B CNTR

2. Screw the holder&hinge in the order shown in the figure ◦ (figure2)
   ❖ Torque : 1.5 ± 0.2 Kgf · cm
   ❖ Do not slide the screw when disassembling

1. Take out the holder and place it in the material box ◦
   ❖ Take care not to damage the components ◦

Note: in case of any abnormality, please inform the foreman of assistant immediately

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<td>1</td>
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</table>

Prepared :  Zhou Guiling   Issuing department :  IE
1. Open the hinge to about 100 to 110 and place it on the load support fixture (figure1)

2. Dismantle the screw*7 at the upper end of hinge main. (figure2, figure3)
   ❖ Do not scratch hinge cap during disassembly
   ❖ Do not pull Hinge up cable
   ❖ Do not collide with MB parts
   ❖ Do not slide the screw
   ❖ Screw material NO.: 6052A0010401 (M2.5x6.0)
   ❖ Torguq: 3.0 ± 0.2 Kgf · cm

3. Take out the upper part and main upper part.

Note: in case of any abnormality, please inform the foreman of assistant immediately
Operation instruction

Document No.: Primrose disassembly SOP
Station: 13 (1/1)
Operation name: disassemble WLAN/WWAN/SSD
Ver.: 0.10
editing date: 2020/2/27

Steps:

1. Remove the screw*1 (figure1)
   - Screw material NO.: 6052B0156201 (M2.0x2.0)
   - Torque: 1.5 ± 0.2 Kgf · cm
   - Screw do not slide back when disassembling

2. Disassemble fix SSD module screw*1 (figure2)
   - Screw material NO.: 6052B0156201 (M2.0x2.0)
   - Torque: 1.5 ± 0.2 Kgf · cm
   - Screw do not slide back when disassembling

3. take out WLAN Module and SSD Module
   - It’s hard to record the force when inserted universal joint reverses*

Note: in case of any abnormality, please inform the foreman of assistant immediately

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Prepared: Zhou Guiling   Issuing department: IE
Steps:

1. Disassemble fixing screws*6. (figure1)
   - Torque: 1.5 ± 0.2 Kgf \cdot cm
   - Do not slide the screw when disassembling
   - It must be disassembled in the order 1 → 2 → 3 → 4 → 5 → 6

2. Remove the Thermal Module
   - Note that the right cooling fin is inserted obliquely so first lift the left side, and then exit the fin. (figure2)

Note: in case of any abnormality, please inform the foreman of assistant immediately

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</table>

Prepared: Zhou Guiling    Issuing department: IE
Steps:
1. Exit fan cable CNTR and speaker cable(figure1,2)
   ❖ When exiting cable CNTR, do not tilt or pull it out violently

2. Remove and fix fan module screw* 1 。（figure2）
   ❖ 扭力：1.5 ± 0.2 Kgf · cm
   ❖ Do not slide the screw when disassembling

3. Remove FAN module。

Note: in case of any abnormality, please inform the foreman of assistant immediately

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Prepared:  Zhou Guiling   Issuing department:  IE
Operation instruction

Document No.: Primrose disassembly SOP
Operation name: Dismantling USB Bracket & RTC battery
Station: 16(1/1)
Operation name: Dismantling USB Bracket & RTC battery
Ver.: 0.10
editing date: 2020/2/27

Steps:
1. Disassemble the USB bracket bolts screws *2 in the sequence shown in the figure1.
   ❖ Torque: 1.5 ± 0.2 Kgf · cm
   ❖ Do not slide the screw when disassembling
2. Remove USB Bracket
3. Remove the RTC battery cable from the plastic part and exit from the hook * (figure3)

Note: in case of any abnormality, please inform the foreman of assistant immediately

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</table>

Prepared: Zhou Guiling   Issuing department: IE
**Steps:**

1. Disassemble the M/B screw*5 according to the sequence shown in the figure1.
   - Screws material NO: 6052A0053001 (M2.0x2.5)
   - Torque: 1.5 ± 0.2 Kgf · cm
   - Do not slide the screw when disassembling

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**Note:** in case of any abnormality, please inform the foreman of assistant immediately

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Prepared:  Zhou Guiling  Issuing department:  IE
Steps:

1. Remove M/B (figure1)
   - Slowly lift the right end of M/B, then exit the left end of audio jack. Take out M/B again.
   - M/B components shall not be damaged during removal.

2. Take out DC-in cable (figure2)/(figure3)

Note: in case of any abnormality, please inform the foreman of assistant immediately
Steps:

**With 2nd Camera SKU**

1. Remove Bracket & K/B screws*3 at the right corner of Support Bracket ○ (figure1/2)
   - Torque: 1.5 ± 0.2 Kgf · cm
   - Screw should not slip at the time of disassembly
2. Remove 2nd Camera Bracket ○ (figure3)
   - when the positioning column is removed, it must not to damage the plastic parts.

**Without 2nd Camera SKU**

1. Disassemble the screw*1 at the lower right corner of K/b support bracket ○ (figure3)
   - Screw material No: 6052B0156201 (M2.0x2.0)
   - Torque: 1.5 ± 0.2 Kgf · cm
   - Do not slide the screw when disassembling

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**Note:** in case of any abnormality, please inform the foreman of assistant immediately

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Steps:

1. Slowly remove the cooling copper foil from the position as shown in the figure1
   - Take care not to damage 2nd camera and nearby FFC during tearing FFC, etc.
2. Disassemble the 2nd camera screw*1 (figure2)
   - Screw material No: 6052B0156301 (M2.0x2.0)
   - Torque: 1.5 ± 0.2 Kgf · cm
   - The screw shall not slip when locking
3. Remove 2nd Camera/B & Camera Module (figure3)
4. Remove the Camera Module FPC from the 2nd camera/B CNTR (figure4)
   - Open the CNTR piano cover before exiting the FPC

Note: in case of any abnormality, please inform the foreman of assistant immediately

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Prepared: Zhou Guiling    Issuing department: IE
Operation instruction

Document No.: Primrose disassembly SOP
Station : 21(1/1)
Operation name: Remove Finger print Dummy
Ver.: 0.10 editing date: 2020/2/27

Steps:

1. Disassembly FPR dummy screw*1 (figure1)
   - Screw material No: 6052B0156201 (M2.0x2.0)
   - Torque: 1.5 ± 0.2 Kgf · cm
   - Do not slide the screw when disassembling

2. Remove FPR Dummy (figure2)
   - Lift over the left and exit the right end and insert the part, then take it out.

Note: in case of any abnormality, please inform the foreman of assistant immediately

<table>
<thead>
<tr>
<th>Fixture list(fixture specification)</th>
<th>Qty</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Fingerprint vacuum suction assembly fixture</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cross electric screwdriver head (#1)</td>
<td>1</td>
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</tbody>
</table>

Prepared : Zhou Guiling    Issuing department : IE
**Operation instruction**

**Document No.: Primrose disassembly SOP**
**Operation name:** remove Fingerprint SKU

**Station:** 22(1/2)

**Ver.:** 0.10  **editing date:** 2020/2/27

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**Steps:**

1. Disassemble screw*1  (figure1)
   - Screw material No: 6052B0156201  (M2.0x2.0)
   - Torque: 1.5 ± 0.2 Kgf · cm
   - Do not slide the screw when disassembling

2. Take out FPR bracket from the fixing groove of upper shell(figure2/3)

   When taking out, first lift the left end to the left to exit the right insertion part, and then take out the BKT.

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**Note:** in case of any abnormality, please inform the foreman of assistant immediately

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**Fixture list (fixture specification) | Qty | Fixture list (fixture specification) | Qty**

| Fingerprint vacuum suction assembly fixture | 1 |
| Cross electric screwdriver head (#1) | 1 |

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**Prepared:** Zhou Guiling  **Issuing department:** IE
Operation instruction

Document No.: Primrose disassembly SOP
Station: 22(2/2)
Operation name: Removal Finger print
Ver.: 0.10 editing date: 2020/2/27

Steps:

With Fingerprint SKU

1. Remove the fingerprint module from the upper shall (figure1)
   - Hold the appearance of fingerprint module on the top page with your fingers and remove it
2. Disassemble FPC on fingerprint module (figure2)
   - Open the CNTR piano cover before exiting FFC

Note: in case of any abnormality, please inform the foreman of assistant immediately

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