# Product End-of-Life Disassembly Instructions

**Product Category:** Notebooks and Tablet PCs

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

| HP 346 G4 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 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>2</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>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></td>
<td>0</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>
<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>
</tbody>
</table>

PSG instructions for this template are available at [EL-MF877-01](#)
Components, parts and materials containing radioactive substances

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>Screwdriver #1</td>
<td>Electric cross screwdriver</td>
</tr>
<tr>
<td>Description #2</td>
<td>TORX T8 (2.31mm)</td>
</tr>
<tr>
<td>Description #3</td>
<td>D73 1 * 3.0 * 20 * 40</td>
</tr>
<tr>
<td>Description #4</td>
<td></td>
</tr>
<tr>
<td>Description #5</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. 
5. 
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).
**MANUFACTURING PROCESS INSTRUCTIONS**

**MECHANICAL ASSEMBLY**

**MODEL : MI (DF / FF)**

<table>
<thead>
<tr>
<th>Sub-assembly name:</th>
<th>FA DIS ASS’Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>Document No.:</td>
<td>MI(DF / FF) FA DIS ASS’Y SOP</td>
</tr>
<tr>
<td>Written by:</td>
<td>Kevin Lee</td>
</tr>
<tr>
<td>Revision:</td>
<td>0.1</td>
</tr>
<tr>
<td>Date:</td>
<td>2015/12/14</td>
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<tr>
<td>Page:</td>
<td>1</td>
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</table>

### A. Current station version list

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</table>

### B. Version Modify list

<table>
<thead>
<tr>
<th>Revision</th>
<th>Date</th>
<th>Station</th>
<th>Content</th>
<th>Ver.</th>
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<td>0.1</td>
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<td>ALL</td>
<td>FIRST VERSION</td>
<td>0.1</td>
<td>Kevin Lee</td>
</tr>
</tbody>
</table>

Auditor : Kevin Lee  Tabulator : Alicia Chien
Standard Operation Procedure

Document No. MI(DF/FF) FA DIS ASS’Y SOP  Station : 1(1/1)
Name : Disassemble Battery  Ver. : 0.1  Date : 2015/12/14

Step :

1. Turn the computer over. (Fig.1)

2. Slide the battery latch to the right. (Fig.2)

3. Slide the other battery latch to the left to remove the battery. (Fig.2)

Notes : If finding anything uncommon, notice foreman or assistant at once.

<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>
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<tbody>
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</table>

Tabulator : Alicia Chien  Auditor : Kevin Lee  Issue department : NPSU-PPE
Step:

1. Remove the rubbers by stick. (Fig.1)

Notes: If finding anything uncommon, notice foreman or assistant at once.

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

Tabulator: Alicia Chien  
Auditor: Kevin Lee  
Issue department: NPSU-PPE
Step:

1. Loosen screw (6052A0034701) * 5. (Fig.1)

Notes: If finding anything uncommon, notice foreman or assistant at once.

Holding fixture list (holding fixture standard)     Qty     Holding fixture list (holding fixture standard)     Qty

Tabulator: Alicia Chien    Auditor: Kevin Lee    Issue department: NPSU-PPE
Step:

1. Loosen screw (6052A0034701) * 6. (Fig.1)

Notes: If finding anything uncommon, notice foreman or assistant at once.
Step:

1. Loosen screw (6052A0034701) * 6. (Fig.1)

Notes: If finding anything uncommon, notice foreman or assistant at once.
Step:

For W/ ODD model
1. Disassemble ODD. (Fig.1)

2. Loosen ODD screw (6052B0001501) * 2. (Fig.2)

Notes: If finding anything uncommon, notice foreman or assistant at once.

Tabulator: Alicia Chien                        Auditor: Kevin Lee                       Issue department: NPSU-PPE
Step:

1. Put the machine on the desk. (Fig.1)

Notes: If finding anything uncommon, notice foreman or assistant at once.
Standard Operation Procedure

Document No.: MI(DF/FF) FA DIS ASS’Y SOP
Name: Disassemble BASE
Station: 7(2/3)
Ver.: 0.1
Date: 2015/12/14

1. Insert the stick into battery slot (between BTCB & TPCB) to disassemble the base. (Fig.1 / Fig.2)

2. Insert the stick into the left side of battery slot to disassemble the base. (Fig.3)

Notes: If finding anything uncommon, notice foreman or assistant at once.

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

Tabulator: Alicia Chien
Auditor: Kevin Lee
Issue department: NPSU-PPE
Step:

1. Disassemble the base. (Fig.1 / Fig.2)

Notes: If finding anything uncommon, notice foreman or assistant at once.

<table>
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<tr>
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</table>

Tabulator: Alicia Chien  
Auditor: Kevin Lee  
Issue department: NPSU-PPE
Step:

1. Disassemble the DDRs. (Fig.1)

Notes: If finding anything uncommon, notice foreman or assistant at once.

<table>
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</tbody>
</table>

Tabulator: Alicia Chien  
Auditor: Kevin Lee  
Issue department: NPSU-PPE
Step:

**For W/ HDD model**

1. Disconnect HDD FFC . (Fig.1)

2. Disassemble HDD. (Fig.1)

**Disassemble SSD**

1. Disassemble SSD/B (1310A2745101) screw (6052A0035101) *4. (marked in red/blue circle)

2. Disassemble SSD/B & SSD BRKT.

Notes: If finding anything uncommon, notice foreman or assistant at once.

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<th>Holding fixture list (holding fixture standard)</th>
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Tabulator: Alicia Chien  
Auditor: Kevin Lee  
Issue department: NPSU-PPE
Step:
1. Disconnect pick button FFC. (Fig.1)
2. Disassemble speaker connector. (Fig.2)
3. Rip acid tape (6054A0076201) * 2. (Fig.2)
4. Disassemble speakers.

Notes: If finding anything uncommon, notice foreman or assistant at once.
Step :

1. Disconnect USB FFC from M/B. (Fig.1)

2. Remove FFC from TPCB.

3. Loosen USB/B screw (6052A0019002) * 1. (Fig.2)

4. Disassemble USB/B

Notes: If finding anything uncommon, notice foreman or assistant at once.
Step:

1. Disconnect antenna cable. (Fig.1)

2. Rip acid tape (6054A0076201) *3. (Fig.2)

3. Disassemble antenna cable. (Fig.3)

Notes: If finding anything uncommon, notice foreman or assistant at once.

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</thead>
</table>

Tabulator: Alicia Chien  
Auditor: Kevin Lee  
Issue department: NPSU-PPE
Step:

1. Disassemble DC IN cable connector. (Fig.1)

2. Disassemble DC IN cable. (Fig.2)

**Notes:** If finding anything uncommon, notice foreman or assistant at once.

<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:** Alicia Chien  
**Auditor:** Kevin Lee  
**Issue department:** NPSU-PPE
Step:

1. Rip acid tape (6054A0076201) *3. (Fig.1)

2. Disconnect eDP cable. (Fig.1)

3. Disassemble Touch connector. (For Touch Only)

4. Disassemble eDP cable. (Fig.2)

Notes: If finding anything uncommon, notice foreman or assistant at once.
Step:

1. Loosen fan screw (6052B0081901) *2. (Fig.1)

2. Disassemble fan connector. (Fig.1)

Notes: If finding anything uncommon, notice foreman or assistant at once.

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

Tabulator: Alicia Chien  
Auditor: Kevin Lee  
Issue department: NPSU-PPE
Step:

1. Loosen thermal module screw (6052B0120001).
   For CPU&GPU : screw * 7
   For Only CPU : screw * 4
   For Braswal : screw * 5

2. Disassemble thermal module.
Step:

1. Disassemble Power/B connector. (Fig.2)

2. Disassemble K/B connector. (Fig.3)

Notes: If finding anything uncommon, notice foreman or assistant at once.
Step:

1. Loosen M/B screw (6052A0019002) * 5.

2. Disassemble M/B

Notes: If finding anything uncommon, notice foreman or assistant at once.
Step:

**For Finger Dummy:**
1. Loosen screw (6052B0120001) * 1. (Fig.1)

2. Disassemble finger printer dummy (6051B1065401) from TPCB.

**For Finger Printer:**
1. Remove the mylar that is on BRKT. (Fig.1.1)

2. Remove the AL foil from BKRT, loosen screw (6052B0120001) * 1, disassemble finger printer BRKT (6053B1268901). (Fig.2)

3. Disassemble finger printer (6042B0345501) from TPCB. (Fig.3)

Notes: If finding anything uncommon, notice foreman or assistant at once.

<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: Alicia Chien    Auditor: Kevin Lee    Issue department: NPSU-PPE
Standard Operation Procedure

Document No.  MI(DF/FF) FA DIS ASS’Y SOP  Station : 20(1/1)
Name : Loosen TOP Hinge Screws  Ver. : 0.1  Date : 2015/12/14

Step :

   (6052A0019002) * 1
   (6052A0034701) * 3
   (6052B0083501) * 2

Notes : If finding anything uncommon, notice foreman or assistant at once.

Holding fixture list (holding fixture standard) | Qty | Holding fixture list (holding fixture standard) | Qty

Tabulator : Alicia Chien  Auditor : Kevin Lee  Issue department : NPSU-PPE
Step:
1. Disassemble the TOP.
2. Disassemble DC IN cable.

Notes: If finding anything uncommon, notice foreman or assistant at once.

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

Tabulator: Alicia Chien  
Auditor: Kevin Lee  
Issue department: NPSU-PPE
Step:

1. Loosen TOP hinge screw (6052A0019002) * 2

2. Disassemble the bezel.

Notes: If finding anything uncommon, notice foreman or assistant at once.
Step:


Notes: If finding anything uncommon, notice foreman or assistant at once.
Step:
1. Disassemble LCD connector.

Notes: If finding anything uncommon, notice foreman or assistant at once.

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

Tabulator: Alicia Chien  
Auditor: Kevin Lee  
Issue department: NPSU-PPE
Step:

1. Rip acid tape.

2. Loosen screw (6052B0120001) * 2.

3. Remove the bracket.

Notes: If finding anything uncommon, notice foreman or assistant at once.

<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: Alicia Chien  
Auditor: Kevin Lee  
Issue department: NPSU-PPE
Step:

1. Loosen hinge bracket screw * 4.
   
   (6052B0120001) * 1
   
   (6052A0047401) * 3

2. Rip the gasket, then disassemble hinge bracket.

Notes: If finding anything uncommon, notice foreman or assistant at once.

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

Tabulator: Alicia Chien  
Auditor: Kevin Lee  
Issue department: NPSU-PPE
Step:

1. Loosen hinge bracket screw * 4.
   (6052B0120001) * 1
   (6052A0047401) * 3

2. Rip the gasket, then disassemble hinge bracket.

Notes: If finding anything uncommon, notice foreman or assistant at once.

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Tabulator: Alicia Chien  
Auditor: Kevin Lee  
Issue department: NPSU-PPE
Step:

1. Disassemble eDP cable. (Fig.1)

2. Disassemble camera module. (Fig.2)

3. Rip acid tape, disassemble camera connector. (Fig.3)

Notes: If finding anything uncommon, notice foreman or assistant at once.

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</thead>
</table>

Tabulator: Alicia Chien  Auditor: Kevin Lee  Issue department: NPSU-PPE
Step:

1. Disassemble antenna cable. (Fig.1)

2. Disassemble mail antenna and AUX antenna. (For RCTO) (Fig.2/Fig.3)

Notes: If finding anything uncommon, notice foreman or assistant at once.
Step:

1. Put the LCD cover into kitting box.

Notes: If finding anything uncommon, notice foreman or assistant at once.