Product End-of-Life Disassembly Instructions

Product Category: Notebooks and Tablet PCs

Marketing Name / Model
[List multiple models if applicable.]
Name / Model #1  HP Mini 2140 Notebook PC
Name / Model #2  Galileo 1.6
Name / Model #3
Name / Model #4
Name / Model #5

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>3</td>
</tr>
<tr>
<td>Batteries</td>
<td>All types including standard alkaline and lithium coin or button style batteries</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>1</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></td>
<td>0</td>
</tr>
<tr>
<td>Gas Discharge Lamps</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Plastics containing Brominated Flame Retardants</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>
</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>Description #1 Motor-screw-driver “+”</td>
<td>Cross head of screwdriver</td>
</tr>
<tr>
<td>Description #2 Motor-screw-driver “*”</td>
<td>TORX T8 (2.31mm)</td>
</tr>
<tr>
<td>Description #3 Motor-screw-driver “-”</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. 

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).
Step:

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

2. Take down Battery module and put it in Box (Fig.2).

Point for attention: If finding some defects, notice the gaffer and assistant

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

Tabulator: Jiang Chun-ling      Issuing department: IE
Working Instruction

Document No. : SOP GALILEO FA DISASSEMBLY
Station : 2(1/1)
Name: Disassembly Rubber foot
Ver. : 1.00
Date :

Point for attention:

- If finding some defects, notice the gaffer and assistant

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic screwdriver (hexagonal)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Step:

1. Take four Rubber foot. (Fig.1)
2. Dismantle 1pcs screw(6052B0130501) and put in in screw box. (Fig.2)
   - Torsion : 2.5 ± 0.2 Kgf · cm
   - Screws can't be stripped or idled

Tabulator : Jiang Chun-ling
Issuing department : IE
Step:

1. Disassemble BASE screw *3pcs (6052B0119401)
   - Torsion : 2.5 ± 0.2 Kgf · cm
   - Screws can't be stripped or idled

Point for attention: If finding some defects, notice the gaffer and assistant

<table>
<thead>
<tr>
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<th>Fixture list (Fixture standard)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Electronic screwdriver (Hexagonal)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Step:

1. Assemble Rubber foot*4

Point for attention: If finding some defects, notice the gaffer and assistant

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<thead>
<tr>
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</table>

Tabulator: Jiang Chun-ling    Issuing department: IE
Working Instruction

Document No. : SOP GALILEO FA DISASSEMBLY
Station : 5(1/1)
Name: Disassembly screw of K/B
Ver. : 1.00
Date :

Step:

1. Turn over machine and put it on fixture.

2. Disassemble Keyboard screw *3pcs (6052B0119201) and put them in screw box.
   - Torsion : $2.5 \pm 0.2 \text{ Kgf} \cdot \text{cm}$
   - Screws can't be stripped or idled

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic Screwdriver (Crossing)</td>
<td>1</td>
<td>Galileo K/B Fixture</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>1</td>
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</tr>
</tbody>
</table>

Point for attention: If finding some defects, notice the gaffer and assistant

Tabulator: Jiang Chun-ling   Issuing department: IE
Step:

1. Take down Keyboard.
   - Disassemble the two left latches of K/B first, then disassemble the right latch of K/B.
2. Pull out K/B connector of M/B, and put K/B module in Box.
   - Check thermal pad must be on the top of thermal module.

Point for attention: If finding some defects, notice the gaffer and assistant

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</table>

Tabulator: Jiang Chun-ling    Issuing department: IE
Working Instruction

Document No. : SOP GALILEO FA DISASSEMBLY  Station : 7(1/2)
Name: Disassembly Screws of Top case  Ver.: 1.00  Date: 

Point for attention:

If finding some defects, notice the gaffer and assistant

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
<th>Fixture list (Fixture standard)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Electronic screwdriver (Hexagonal)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tabulator : Jiang Chun-ling  Issuing department :  IE
Step:

1. Disassemble HDD screw*2pcs, 60520D055001 and put them in box.
2. Disassemble HDD attaching screw*1pcs.
Step:
1. Pull out HDD connector and disassemble HDD CONN FPC (6035B0021301) and put it in material box.
2. Packaging HDD module and put it in box.

Point for attention: If finding some defects, notice the gaffer and assistant

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
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<tbody>
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</tbody>
</table>

Tabulator: Jiang Chun-ling   Issuing department: IE
Step:

1. Disassemble top case
   - Disassembly sequence: A ➞ B ➞ C ➞ D ➞ E
   - There are nine latches

Point for attention: If finding some defects, notice the gaffer and assistant

Tabulator: Jiang Chun-ling    Issuing department: IE
Working Instruction

Document No. : SOP GALILEO FA DISASSEMBLY
Station : 12(1/1)

Name: Take down cable of top case

Ver. : 1.00
Date : 

Point for attention:
If finding some defects, notice the gaffer and assistant

Fixure list (Fixture standard) | Qty | Fixture list (Fixture standard) | Qty
--- | --- | --- | ---

Step:
1. Pull out TP/FPC of M/B.
2. Pull out power cable, wlan cable

Tabulator : Jiang Chun-ling
Issuing department : IE
Working Instruction

Document No.: SOP GALILEO FA DISASSEMBLY
Station: 13(1/1)
Name: Disassemble Screws of Bracket
Ver.: 1.00
Date: 

Step:
1. Disassemble Bracket screw (6053B0336301) *4pcs, and put them in material box
2. Take down bracket and put them in box separately
   - Torsion: 2.0 ± 0.2 Kgf·cm
   - Screws can't be stripped or idled

Point for attention: If finding some defects, notice the gaffer and assistant

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
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<tbody>
<tr>
<td>Electronic screwdriver (Hexagonal)</td>
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</table>

Tabulator: Jiang Chun-ling  Issuing department: IE
Working Instruction

Document No. : SOP GALILEO FA DISASSEMBLY
Station : 14(1/1)
Name: Disassemble Audio/B
Ver. : 1.00
Date :

Point for attention:

If finding some defects, notice the gaffer and assistant

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
<th>Fixture list (Fixture standard)</th>
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</thead>
<tbody>
<tr>
<td>Electronic screwdriver (Hexagonal)</td>
<td>1</td>
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<td></td>
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</tbody>
</table>

Step:

1. Disassemble audio/B screw *1pcs (6053B0336301) and put it in box.
2. Pull out audio/B cable, and put audio/B in box
   - Torsion : 2.0 ± 0.2 Kgf · cm
   - Screws can't be stripped or idled

Tabulator : Jiang Chun-ling    Issuing department : IE
Step:

1. Disassemble blue tooth module, and put it in box.

Point for attention: If finding some defects, notice the gaffer and assistant

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
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Tabulator: Jiang Chun-ling   Issuing department: IE
Step:

1. Disassemble RAM Module and put them in box.

Point for attention: If finding some defects, notice the gaffer and assistant

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
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Tabulator: Jiang Chun-ling    Issuing department: IE
Step:

1. Tear down tape which is used to fasten cable.
2. Pull out I/V cable, Camera cable, LCD cable

Point for attention: If finding some defects, notice the gaffer and assistant

Fixture list (Fixture standard) | Qty | Fixture list (Fixture standard) | Qty
--- | --- | --- | ---

Tabulator: Jiang Chun-ling   Issuing department: IE
Working Instruction

Document No. : SOP GALILEO FA DISASSEMBLY
Station : 18(1/1)
Name: Disassemble screws of Bracket
Ver. : 1.00
Date :

Point for attention:

If finding some defects, notice the gaffer and assistant

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic screwdriver (Hexagonal)1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Step:

1. Disassemble audio/B Bracket screw*3pcs (6053B0336301)
   - Torsion: 2.0 ± 0.2 Kgf · cm
   - Screws can't be stripped or idled

Tabulator: Jiang Chun-ling      Issuing department: IE
**Working Instruction**

Document No.: SOP GALILEO FA DISASSEMBLY  
Station: 19(1/1)  
Name: Disassembling M/B and packing  
Ver.: 1.00  
Date: __________

**Step:**

1. Disassemble M/B, and put it in PE static bag as classified.  
   - check M/B should be with M/B SN.  
   - check thermal module should be with thermal pad.

**Point for attention:** If finding some defects, notice the gaffer and assistant

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

Tabulator: Jiang Chun-ling  
Issuing department: IE
Step:

1. Tear down 3pcs Acetic acid sticky tape
   Which are used to fasten cables of BASE.

Point for attention: If finding some defects, notice the gaffer and assistant

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

Tabulator: Jiang Chun-ling    Issuing department: IE
Working Instruction

Document No. : SOP GALILEO FA DISASSEMBLY  
Station :  21(1/1)  
Name: Disassemble Screw of hinge frame  
Ver. :  1.00  
Date :  

Step:

1. Disassemble hinge frame screw *4pcs  
2. Separate LCD Module and BASE, put them on Transmit bringing.  
   - Torsion :  2.0 ± 0.2 Kgf · cm  
   - Screws can't be stripped or idled

Point for attention: If finding some defects, notice the gaffer and assistant

<table>
<thead>
<tr>
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<tr>
<td>Electronic screwdriver (Hexagonal)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tabulator : Jiang Chun-ling  
Issuing department :  IE
Working Instruction

Document No. : SOP GALILEO FA DISASSEMBLY
Name: Cosmetic inspect of BASE

Step:

1. Cosmetic inspect BASE.
2. Packaging with ESD bag and put it in box.

Point for attention: If finding some defects, notice the gaffer and assistant

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

Tabulator: Jiang Chun-ling    Issuing department: IE
Working Instruction

Document No. : SOP GALILEO FA DISASSEMBLY
Name: Disassembly Rubber of LCD Module

Step:

1. Take down LCD module Rubber*4pcs

Point for attention:
If finding some defects, notice the gaffer and assistant

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
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</tbody>
</table>

Tabulator: Jiang Chun-ling       Issuing department: IE
Step:

1. Disassemble LCD Module screws*4pcs (6052A0005201)
   - Torsion : 2.0 ± 0.2 Kgf · cm
   - Screws can't be stripped or idled

Point for attention: If finding some defects, notice the gaffer and assistant

<table>
<thead>
<tr>
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<tr>
<td>Electronic screwdriver (Hexagonal)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tabulator: Jiang Chun-ling  Issuing department: IE
Step:

1. Disassemble LCD Bezel, disassembly sequence as map seem
   - There are 16 latches of LCD.

Point for attention: If finding some defects, notice the gaffer and assistant

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
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Tabulator: Jiang Chun-ling        Issuing department: IE
Step:

1. Disassemble hinge cover *2pcs

Point for attention: If finding some defects, notice the gaffer and assistant
Step:

1. Disassemble LCD Bezel, and put LCD Bezel in the ESD bag.

Point for attention: If finding some defects, notice the gaffer and assistant

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

Tabulator: Jiang Chun-ling   Issuing department: IE
Working Instruction

Document No. : SOP GALILEO FA DISASSEMBLY  Station : 28(1/1)
Name: Disassemble LCM screw  Ver. : 1.00  Date : 

Point for attention:

If finding some defects, notice the gaffer and assistant

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
<th>Qty</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Electronic screwdriver (Hexagonal)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Step:

1. Disassemble screw(6052A0005201) x6pcs
   - Torsion: 2.5 ± 0.2 Kgf · cm
   - Screws can't be stripped or idled

Direction Screws locking sequence: 6, 5, 4, 3, 2, 1
Direction Screws locking sequence: 1, 2, 3, 4, 5, 6

Tabulator: Jiang Chun-ling  Issuing department: IE
Working Instruction

Document No.: SOP GALILEO FA DISASSEMBLY
Station: 29(1/1)
Name: Remove sponge
Ver.: 1.00
Date: __________

Step:

1. Remove LCD panel sponge *4pcs

Point for attention: If finding some defects, notice the gaffer and assistant

<table>
<thead>
<tr>
<th>Fixture list (Fixture standard)</th>
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</table>

Tabulator: Jiang Chun-ling    Issuing department: IE
Working Instruction

Document No. : SOP GALILEO FA DISASSEMBLY

Name: Take down I/V

Ver. : 1.00

Date :

Station : 30(1/1)

Step:
1. Take down inverter (6038B0019801) and sleeve pipe (6054B0339301)

Point for attention: If finding some defects, notice the gaffer and assistant

<table>
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</table>

Tabulator: Jiang Chun-ling  Issuing department: IE
Step:

1. Take out cable from hinge frame

Point for attention: If finding some defects, notice the gaffer and assistant
Working Instruction

Document No. : SOP GALILEO FA DISASSEMBLY
Station : 32(1/1)
Name: Disassemble screws of bracket
Ver. : 1.00
Date :

Step:
1. Take down LCD panel, and disassemble hinge bracket screw*4pcs (6052B0118901) x 2
   - Torsion : 1.5± 0.2 Kgf · cm
   - Screws can't be stripped or idled

Point for attention: If finding some defects, notice the gaffer and assistant

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

Tabulator : Jiang Chun-ling
Issuing department : IE
Step:
1. Packaging LCD panel with ESD bag and put it in box.

Point for attention: If finding some defects, notice the gaffer and assistant