# Product End-of-Life Disassembly Instructions

**Product Category:** Personal Computers

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

<table>
<thead>
<tr>
<th>HP ProOne 600 G1 All-in-One Business PC</th>
</tr>
</thead>
</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 PCA</td>
<td>1</td>
</tr>
<tr>
<td>Batteries</td>
<td>All types including standard alkaline and lithium coin or button style batteries RTC BATTERIES</td>
<td>1</td>
</tr>
<tr>
<td>Mercury-containing components</td>
<td>For example, mercury in lamps, display backlights, scanner lamps, switches, batteries LED backlights</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 N/A</td>
<td>0</td>
</tr>
<tr>
<td>Cathode Ray Tubes (CRT)</td>
<td>N/A</td>
<td>0</td>
</tr>
<tr>
<td>Capacitors / condensers (Containing PCB/PCT)</td>
<td>N/A</td>
<td>0</td>
</tr>
<tr>
<td>Electrolytic Capacitors / Condensers measuring greater than 2.5 cm in diameter or height</td>
<td>N/A</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>N/A</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>N/A</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. N/A</td>
<td>0</td>
</tr>
<tr>
<td>Components and waste containing asbestos</td>
<td>N/A</td>
<td>0</td>
</tr>
</tbody>
</table>

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Components, parts and materials containing refractory ceramic fibers | N/A | 0
Components, parts and materials containing radioactive substances | N/A | 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>A. SCREW M2 x 3L:</td>
<td>1.5#0.2 kgf-cm</td>
</tr>
<tr>
<td>B. SCREW M3 x 3.5L:</td>
<td>3.0#0.3 kgf-cm</td>
</tr>
<tr>
<td>C. SCREW M3 x 4L:</td>
<td>3.0#0.3 kgf-cm</td>
</tr>
<tr>
<td>D. SCREW M3 x 5L:</td>
<td>3.0#0.3 kgf-cm</td>
</tr>
<tr>
<td>E. SCREW M4 x 8L:</td>
<td>8.0#0.3 kgf-cm</td>
</tr>
<tr>
<td>Phillips Screwdriver</td>
<td>2# 2.55-3.00kgf.cm</td>
</tr>
<tr>
<td>Slotted Screwdriver</td>
<td>2# 2.55-3.00kgf.cm</td>
</tr>
<tr>
<td>Knife</td>
<td>Description #5</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. 2.1 Description of the sample submitted for assessment
2. 2.2 Assessment Method
3. 2.3 Description of the disassembly sequences
4. 2.4 Summary of disassembly assessment
5. 2.5 Photo of Disassembly Components
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).

Test conducted

2.1 Description of the sample submitted for assessment

<table>
<thead>
<tr>
<th>Product overview</th>
<th>Personal Computer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front</td>
<td></td>
</tr>
<tr>
<td>Top</td>
<td></td>
</tr>
<tr>
<td>Left</td>
<td></td>
</tr>
<tr>
<td>Back</td>
<td></td>
</tr>
<tr>
<td>Bottom</td>
<td></td>
</tr>
<tr>
<td>Right</td>
<td></td>
</tr>
</tbody>
</table>
Product overview - Mouse

Front

Top

Left

Back

Bottom

Right

Product overview - Keyboard

Front

Top

Left

Back

Bottom

Right

PSG instructions for this template are available at EL-MF877-01
2.2 Assessment Method

The submitted sample is disassembled into different parts by using ordinary tools. Similar materials from each part were grouped and weighed. The recycling and recovery rates were calculated based on the treatment requirements as set up in the WEEE directive, followed by the status quo of best available technology for recycling and recovery technology available in Europe as well as Taiwan. Materials for which currently no recycling technology is available or where the recycling is not economically feasible, or which contain hazardous substances, are assumed to be disposed in landfills without further use.
2.3 Description of the disassembly sequences

Disassembly process - Personal Computer (Support )

Separate the panel by loosening 4 screws.

Separate the connector socket by loosening 4 screws.

Separate the plastic cover of connector socket.

Remove the plastic washer from metal base.

Separate the metal base by loosening 16 screws.

Tear off the rubber pads from base.

Separate the plastic cover of base.

Separate the metal support by loosening 12 screws.

Separate the plastic cover of hinge.

(To be continued)
Test conducted

Disassembly process (Cont’d).

- Personal Computer (Support)

Loosen 10 screws from cover of hinge.

Separate the plastic cover of support.

Separate cover of hinge by loosening 4 screws of support cover and 2 screws of metal support.

Completed disassembly.

Separate the cover of base.

Separate the cover of hinge.

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Test conducted

Disassembly process - Personal Computer (Frame)

Take off the connector cover.

Push out the rear cover.

Separate the metal sheet from rear cover.

Separate the side covers.

Separate the rear cover by loosening 1 screw.

Remove the locks from rear cover.

Separate the metal sheet from side cover.

Separate the panel by loosening 15 screws.

Separate the frame of panel.

(To be continued)

Completed disassembly.
Test conducted

Disassembly process - Personal Computer (Mainboard)

Separate cover of adaptor by loosening 2 screws.
Separate adaptor by loosening 2 screws.
Separate speaker by loosening 4 screws.

Separate PCB assembly of DVD by loosening 2 screws.
Take off the Hard disk.
Separate connector by loosening 3 screws.

Take off the DVD.
Separate plastic part by loosening 4 screws.
Separate fan by loosening 3 screws.
(To be continued)
**Test conducted**

<table>
<thead>
<tr>
<th>Disassembly process</th>
<th>Personal Computer</th>
<th>Mainboard</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Cont’d)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Separate heat sink by loosening 6 screws.</td>
<td>Take off the heat sink.</td>
<td>Separate CPU and frame by loosening 3 screws.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Take off the heat sink.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Take off the RAM.</td>
<td>Separate WAL by loosening 1 screw.</td>
<td>Separate display board by loosening 2 screws.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Separate card edge by loosening 2 screws.</td>
<td>Take off the battery.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(To be continued)</td>
</tr>
</tbody>
</table>

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Test conducted

Disassembly process - Personal Computer (Mainboard)
(Cont’d).

Separate Mainboard by loosening 10 screws.

Separate connector and metal part by loosening 3 screws.

Separate metal cover by loosening 4 screws.

Completed disassembly.

Remove the tapes and pad.

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Test conducted

Disassembly process
- Personal Computer
(Panel)

Separate the cable.
Tear off tape.
Separate the metal frame.

Separate the plastic film.
Tear off tape from plastic frame.
Separate plastic frame by loosening 2 screws.

Take off the LED.
LED
Take off PCB assembly.
Completed disassembly.
Test conducted

Disassembly process

- Personal Computer

(Mouse)

Tear off stickers and pads.

Take off the cover of battery box.

Open the case by loosening 2 screws.

Separate the metal contacts from battery box and PCB assembly.

Take off the PCB assembly.

Take off the wheel.

Separate the housing.

Completed disassembly.
Test conducted

Disassembly process - Personal Computer (Keyboard)

Tear off stickers and pads.
Take off the cover of battery box.
Open the case by loosening 14 screws.

Take off the metal rod.
Take off the buttons.
Take off the middle frame.

Take off the rubber pad.
Separate PCB assembly by loosening 3 screws.
Cut off the cable.

Completed disassembly.
Test conducted

Disassembly process

- Personal Computer

(Receiver)

Tear off sticker.

Open the housing.

Separate the LER indicator.

Completed disassembly.

Separate the metal parts of lack.

Separate the USB jack.

PSG instructions for this template are available at EL-MF877-01
### 2.4 Summary of disassembly assessment

<table>
<thead>
<tr>
<th>Item</th>
<th>Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disassembly time</td>
<td>90 minutes by manual disassembly</td>
</tr>
<tr>
<td>Tools used for manual disassembly</td>
<td>Slotted Screwdriver</td>
</tr>
<tr>
<td></td>
<td>Philips Screwdriver</td>
</tr>
<tr>
<td></td>
<td>Hexagonal Screwdriver</td>
</tr>
<tr>
<td></td>
<td>Knife</td>
</tr>
<tr>
<td></td>
<td>Pincer Pliers</td>
</tr>
<tr>
<td>Connection techniques found on submitted sample</td>
<td>Screw x 130</td>
</tr>
<tr>
<td></td>
<td>Combination x 15</td>
</tr>
<tr>
<td></td>
<td>Adherence x 12</td>
</tr>
</tbody>
</table>
2.5 Photo of Disassembly Components

Support

<table>
<thead>
<tr>
<th>Metal</th>
<th>Recyclable Plastic</th>
<th>Recyclable Plastic</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Metal Support" /></td>
<td><img src="image2" alt="Recyclable Plastic Support" /></td>
<td><img src="image3" alt="Recyclable Plastic Support" /></td>
</tr>
</tbody>
</table>

Non-recyclable plastic

<table>
<thead>
<tr>
<th>Metal</th>
<th>Recyclable Plastic</th>
<th>Recyclable Plastic</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image4" alt="Metal Support" /></td>
<td><img src="image5" alt="Recyclable Plastic Support" /></td>
<td><img src="image6" alt="Recyclable Plastic Support" /></td>
</tr>
</tbody>
</table>

Frame

<table>
<thead>
<tr>
<th>Metal</th>
<th>Recyclable Plastic</th>
<th>Recyclable Plastic</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image7" alt="Metal Frame" /></td>
<td><img src="image8" alt="Recyclable Plastic Frame" /></td>
<td><img src="image9" alt="Recyclable Plastic Frame" /></td>
</tr>
</tbody>
</table>

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Test conducted
Cont’d
Non-recyclable plastic  PCB Assembly

Mainboard 主機板
Metal  Non-recyclable plastic  PCB Assembly

PCB Assembly  External Cable  Adaptor

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Test conducted

Cont’d
Test conducted

Cont’d

PCB Assembly  Glass  Cable

Mouse

Metal  Recyclable plastic  Non-recyclable plastic

PCB Assembly
Test conducted

Keyboard

- Metal
- Recyclable Plastic
- Recyclable Plastic

Non-recyclable plastic
Non-recyclable plastic
PCB Assembly

Cable

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Test conducted

Receiver

- Metal
- Recyclable Plastic
- Non-recyclable plastic

PCB Assembly