# Product End-of-Life Disassembly Instructions

## Product Category: Personal Computers

### Marketing Name / Model

[List multiple models if applicable.]

- HP Envy TouchSmart 23se All-in-One PC

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**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 MB, scalar, sidekey, webcam, b-cas, converterboard, Graphic card</td>
<td>8</td>
</tr>
<tr>
<td>Batteries</td>
<td>All types including standard alkaline and lithium coin or button style batteries (motherboard, wireless KB, wireless mouse, remote)</td>
<td>7</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 LED Panel</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>Power cord</td>
<td>1</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>
</tbody>
</table>

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PSG instructions for this template are available at [EL-MF877-01](EL-MF877-01)
Components and waste containing asbestos: 0
Components, parts and materials containing refractory ceramic fibers: 0
Components, parts and materials containing radioactive substances: 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>Description #1 Electric screw driver</td>
<td>2# X10</td>
</tr>
<tr>
<td>Description #2 Electric screw driver</td>
<td>1# X10</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:

- Please refer to the 3.1.2 disassemble hinge and real cover
- Please refer to the 3.1.3 disassemble the stand
- Please refer to the 3.1.4 Remove MB shielding
- Please refer to the 3.1.5 disassemble HDD & ODD
- Please refer to the 3.1.6 disassemble B-case
- Please refer to the 3.1.7 disassemble visa mount.
- Please refer to the 3.1.8 disassemble Speaker
- Please refer the 3.1.9/10/11 disassemble CPU/thermal module/system fan
- Please refer to 3.1.12/13 disassemble scalar & converter board.
- Please refer to 3.1.14 disassemble webcam
- Please refer to 3.1.15 disassemble microphone
- Please refer to 3.1.16 disassemble wireless card
- Please refer to 3.1.17 disassemble TV card.
- Please refer to 3.1.18 disassemble MB and battery remove
- Please refer to 3.1.19 disassemble CPU & DDR.
- Please refer to 3.1.20 disassemble Base pan and touch module.
- Please refer to 3.1.21 Remove Mouse/Keyboard Battery/MB
- Please refer to 3.1.22 Remove power supply

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).

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**Figure 1 : Mechanical parts disassembly**

1) Place the system

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PSG instructions for this template are available at [EL-MF877-01](EL-MF877-01)
2) Disassemble hinge cover and real cover.
Remove the screws with circle in red.

3) Disassemble stand
Remove four screws on both left and right so you can remove stand with two hands.

4) Disassemble MB shielding
Remove the screws with circles in red.
5) Disassemble HDD & ODD
Remove one screw from HDD and pull backward to disengage the HDD from base pan.

Remove one screw and push ODD forward to slide from ODD cage.

6) Disassemble B-case (with Japan SKU that has B-case module)
Remove the following screws that have circulated in yellow

PSG instructions for this template are available at EL-MF877-01
7) Disassemble for VESA mount (only for the scalar)
Remove the following screws that have circulated in red.

8) Disassemble speaker
Remove two screws from left and right. Also remove the speaker cable in order to take out two speakers from system.
9) Disassemble CPU thermal module
   Remove five screws and remove away the thermal module.

10) Disassemble MXM thermal module and remove the graphic card (with Graphic card module)
    Remove five screws to remove the thermal module and disengage the graphic card from slot.

11) Disassemble FAN
    Remove three screws and remove one calbe to disassemble the fan.
12) Disassemble Scalar Board (that has scalar SKU) and side key. Remove the following screws and cables that have circulated in yellow.

13) Disassemble Converter board

Remove two cables and screws to disassemble the CVB.

PSG instructions for this template are available at EL-MF877-01
14) Disassemble webcam

Remove the cable and screw in order to disengage the webcam module and mechanical parts.

15) Disassemble MIC.

Remove the cable and screw in order to disengage the MIC module and mechanical parts.
16) Disassemble Wireless card
Remove one screw and two cables in order to remove wireless card.

17) Remove TV card
Remove one screw and two connectors to remove the TV card.

18) Remove MB & MB battery
Remove 9 screws to disassemble the INTEL/AMD MB.
Pull backward the clip to release the battery
19) Disassemble CPU and DDR
Remove the CPU by releasing the hook for Intel (above) & AMD (below).

Pull both clicks outward that holding the memory to remove the DDR

20) Separate BASE pan and touch module
Un-plug cable from touch control board(Left/Bottom)side.
Remove screws *4 to diassemble LCM and front bezel
Remove Screws M3 x5 from LCM to disassemble LCD bracket.

21) Remove Mouse/Keyboard Battery/MB

22) Remove power supply