Product End-of-Life Disassembly Instructions

Product Category: Personal Computers

Marketing Name / Model
[List multiple models if applicable.]
HP ProOne 600 G3 Non-Touch All-in-One Business 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</td>
<td>1</td>
</tr>
<tr>
<td>Mercury-containing components</td>
<td>For example, mercury in lamps, display backlights,</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</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>7</td>
</tr>
<tr>
<td>External electrical cables and cords</td>
<td></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>
<tr>
<td>Components and waste containing asbestos</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Components, parts and materials containing asbestos</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>Electric screwdriver (Torx)</td>
<td>T15, Torx</td>
</tr>
<tr>
<td>Electric screwdriver (Cross)</td>
<td>#0, Cross</td>
</tr>
<tr>
<td>Plastic stick</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).
A. Current station version list:

<table>
<thead>
<tr>
<th>Station</th>
<th>Version</th>
<th>Station</th>
<th>Version</th>
<th>Station</th>
<th>Version</th>
<th>Station</th>
<th>Version</th>
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<tbody>
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<td>24</td>
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</tbody>
</table>

B. Version Modify list:

<table>
<thead>
<tr>
<th>Date</th>
<th>Station</th>
<th>Content</th>
<th>Ver.</th>
<th>Design</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017/5/23</td>
<td>ALL</td>
<td>First version</td>
<td>1.**</td>
<td>Porter Zan</td>
</tr>
</tbody>
</table>

Auditor: Ethan Lai  Tabulator: Xin-Xin Chen
Steps:
1. Take out Stand and put into the material box (Fig. 1, 2).

- Follow the steps as Fig. 1 & 2, push the black button, then pull up Stand.

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

Document No. : Pegasus600 DISASS’Y SOP  Station :  2(1/1)
Operation Name : Take out Rear Cover  Ver. : 1.00  Date : 2017/5/23

Steps :

1. Follow the direction of red arrow to push Rear Cover (Fig. 1).

2. Follow the sequence to pull open Rear Cover and take it out. (Fig. 1).
    Operating sequence: Bottom side → Left side → Right side.

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

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

Tabulator : Xin-Xin Chen  Auditor : Ethan Lai  Issue Department : NPSU-PPE
Glove Requirements: Half-fingered gloves

Steps:

1. Take out M/B shielding (Fig. 1).
   - Follow the direction of red arrow to pull open the spring, then pull up obliquely to take out the shielding along the direction of upper left corner.
   - Notice the hooks in red box in Fig. 1.

Note: If finding anything uncommon, notice foreman or assistant at once.
Glove Requirements: Half-fingered gloves

Steps:

1. Unscrew (Torx Pin-Head × 5) all joints to take out Thermal Module (Fig. 1).
   - Torsion: 4.0 ± 1.0 kgf.cm
   - Take the screwdriver vertically to the screw holes.

2. Put Thermal Module into the material box.

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

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<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>Electric Screwdriver (S-6000MS)</td>
<td>1</td>
<td>Bits Type: T15, φ=5mm, L=60mm</td>
<td>1</td>
</tr>
</tbody>
</table>
Glove Requirements: Half-finger gloves

**Steps:**

1. Take out HDD (Fig. 1).
   - Pull open the HDD bracket softly to the right, and push upward HDD to disconnect, then put it into the material box.

2. Take out ODD (Fig. 2).
   - Press the latch and push ODD to the left simultaneously to disconnect, then put ODD into the material box.

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

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Tabulator: Xin-Xin Chen  
Auditor: Ethan Lai  
Issue Department: NPSU-PPE
Standard Operation Procedure

Document No. : Pegasus600 DISASS’Y SOP  Station : 6(1/1)
Operation Name : Take out I/O board  Ver. : 1.00  Date : 2017/5/23

Steps :

1. Unscrew (× 2) all joints to take out I/O board and disconnect I/O cable (Fig. 1, 2).
  - Torsion: 4.0 ± 1.0 kgf.cm
  - Take the screwdriver vertically to the screw holes.
  - Put I/O board and two screws into the material box.
  - Switch can’t fall off.

2. Be careful not to make the pin heads of the I/O connector are crooked (Fig. 3).
  - Pull out the I/O cable vertically from the top of the I/O connector.

Glove Requirements: Half-fingered gloves

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

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<th>Fixture list (Specification)</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric Screwdriver (S-3000MS)</td>
<td>1</td>
<td>Bits Type: #0,φ=5mm,L=60mm</td>
<td>1</td>
</tr>
</tbody>
</table>

Tabulator : Xin-Xin Chen  Auditor : Ethan Lai  Issue Department : NPSU-PPE
Standard Operation Procedure

Document No. : Pegasus600 DISASS’Y SOP
Operation Name : Take out DDR and CPU

Tabulator : Xin-Xin Chen  Auditor : Ethan Lai  Issue Department : NPSU-PPE

Glove Requirements: Half-finger gloves

Steps:

1. Take out DDR and put it into the material box (Fig. 1).
   - Expand the springs on the both sides of the DDR socket.
2. Take out CPU illustrated as Fig. 2, then put it into the tray.
   - Don’t touch the pin heads of CPU.
   - Open the bracket by pulling off the link and take out CPU.

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

<table>
<thead>
<tr>
<th>Fixture list (Specification)</th>
<th>Qty.</th>
<th>Fixture list (Specification)</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ion fan</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Glove Requirements: Half-finger gloves

Steps:

1. Unscrew (×5) all joints of Top Vent illustrated as Fig. 1.
   - Torsion: 4.0 ± 0.5 kgf.cm
   - Take the screwdriver vertically to the screw holes.
   - Put the screws into the material box.

2. Follow the unscrewing sequence to take out Top Vent.
   - Don't pull it using force.

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

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<thead>
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<th>Fixture list (Specification)</th>
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<th>Fixture list (Specification)</th>
<th>Qty.</th>
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</thead>
<tbody>
<tr>
<td>Electric Screwdriver (S-4000MS)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bits Type: T15, φ=5mm, L=60mm</td>
<td>1</td>
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<td></td>
</tr>
</tbody>
</table>

Tabulator: Xin-Xin Chen          Auditor: Ethan Lai          Issue Department: NPSU-PPE
Steps:

1. Unscrew (× 5) all joints illustrated as Fig. 1 & Fig. 3.
   - Torsion: 4.0 ± 0.5 kgf.cm
   - Take the screwdriver vertically to the screw holes.
   - Put the screws into the material box.

2. Take out Center IO Door (Fig. 2).

3. Take out Center Cover (Fig. 1).

Note: If finding anything uncommon, notice foreman or assistant at once.
Glove Requirements: Half-finger gloves

Steps:

1. Unscrew (Torx Pin-Head × 4) all joints of Speaker (Fig. 2).
   - Torsion: 4.0 ± 1.0 kgf.cm
   - Take the screwdriver vertically to the screw holes.

2. Take out Speaker (Fig. 2).
   - Don’t lose the four rubber rings of Speaker.
   - No obvious defect in the surface.
   - First pull out the cable from the hook and don’t pull it using force (Fig. 1).

Electric Screwdriver (S-4000MS)
Bits Type: T15, φ=5mm, L=60mm

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

1. Unscrew (×4) all joints to take out Vesa Mount illustrated as Fig. 1 & 2.
   - Torsion: 6.0 ± 0.5 kgf.cm
   - Take the screwdriver vertically to the screw holes.
   - Put the screws into the material box.

Glove Requirements: Half-finger gloves

Fixtures list (Specification) | Qty. | Fixtures list (Specification) | Qty.
--- | --- | --- | ---
Electric Screwdriver (S-4000MS) | 1 | Bits Type: T15, φ=5mm, L=60mm | 1

Note: If finding anything uncommon, notice foreman or assistant at once.
Glove Requirements: Half-finger gloves

**Steps:**

1. Disconnect PSU cable from the connector of M/B side, then take out PSU into the material box (Fig. 1, 2).

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

<table>
<thead>
<tr>
<th>Fixture list (Specification)</th>
<th>Qty.</th>
<th>Fixture list (Specification)</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tabulator: Xin-Xin Chen  Auditor: Ethan Lai  Issue Department: NPSU-PPE
Steps:

1. Disconnect FAN cable-1 & 2 and LVDS cable from the connectors of M/B side (Fig. 2, 3).
   - Pull out FAN cable from the hook carefully.

2. Unscrew (×4) all joints to take out FAN illustrated as Fig. 1.
   - Torsion: 4.0 ± 0.5 kgf.cm
   - Take the screwdriver vertically to the screw holes.

Glove Requirements: Half-finger gloves

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

<table>
<thead>
<tr>
<th>Fixture list (Specification)</th>
<th>Qty.</th>
<th>Fixture list (Specification)</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric Screwdriver (S-4000MS)</td>
<td>1</td>
<td>Bits Type: T15, ø=5mm, L=60mm</td>
<td>1</td>
</tr>
</tbody>
</table>

Tabulator: Xin-Xin Chen    Auditor: Ethan Lai    Issue Department: NPSU-PPE
Standard Operation Procedure

Document No. : Pegasus600 DISASS’Y SOP  Station : 14(1/1)
Operation Name : Unscrew ODD SATA CNTR  Ver. : 1.00  Date : 2017/5/23

Steps :

1. Unscrew (Torx Pin-Head × 2) all joints of ODD SATA CNTR, then take out ODD cable (Fig. 1, 2).
   - Don't pull the cable using force.
   - Torsion: 4.0 ± 0.5 kgf.cm
   - Take the screwdriver vertically to the screw holes.

Glove Requirements: Half-finger gloves

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

<table>
<thead>
<tr>
<th>Fixture list (Specification)</th>
<th>Qty.</th>
<th>Fixture list (Specification)</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric Screwdriver (S-4000MS)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bits Type: T15,φ=5mm,L=60mm</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Fig. 1

Fig. 2

Tabulator : Xin-Xin Chen  Auditor : Ethan Lai  Issue Department : NPSU-PPE
Standard Operation Procedure

Document No. : Pegasus600 DISASS’Y SOP
Operation Name: Disconnect cables
Station : 15(1/1)
Ver. : 1.00
Date : 2017/5/23

Glove Requirements: Half-finger gloves

Steps:

1. Disconnect ODD SATA cable, HDD SATA cable and Power cable from the connectors of M/B side (Fig. 2).

2. Pull out Backlight cable from the hooks, then pull out it vertically from the top of connector on M/B (Fig. 1).
   ✴ Be careful not to make the pin heads of the connector are crooked.

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

<table>
<thead>
<tr>
<th>Fixture list (Specification)</th>
<th>Qty.</th>
<th>Fixture list (Specification)</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ODD SATA</td>
<td></td>
<td>Power</td>
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</tr>
<tr>
<td>HDD SATA</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Fig. 1

Fig. 2

Tabulator : Xin-Xin Chen
Auditor : Ethan Lai
Issue Department : NPSU-PPE
Standard Operation Procedure

Document No.: Pegasus600 DISASS’Y SOP
Operation Name: Take out Wireless LAN/ M.2 SSD

Steps:

1. Tear off the acetate tapes (×2) illustrated as Fig. 2.

2. Disconnect WLAN antenna cables illustrated as Fig. 1.

3. Unscrew (Cross ×1) one screw to take out M.2 SSD (Fig. 4).
   - Torsion: 2.5 ± 0.5 kgf.cm
   - Take the screwdriver vertically to the screw holes.

4. Unscrew (Cross ×1) one screw to take out WLAN card (Fig. 1, 3).
   - Torsion: 2.5 ± 0.5 kgf.cm
   - Take the screwdriver vertically to the screw holes.

Glove Requirements: Half-finger gloves

<table>
<thead>
<tr>
<th>Fixture list (Specification)</th>
<th>Qty.</th>
<th>Fixture list (Specification)</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric Screwdriver (S-3000MS)</td>
<td>1</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Bits Type: #0, Cross, φ=5mm, L=60mm</td>
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<td></td>
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</tbody>
</table>

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

Tabulator: Xin-Xin Chen    Auditor: Ethan Lai    Issue Department: NPSU-PPE
**Glove Requirements:** Half-finger gloves

**Steps:**

1. Unscrew (×6) all joints to take out Middle Band-R illustrated as Fig. 1.
   - Torsion: 4.0 ± 0.5 kgf.cm
   - Take the screwdriver vertically to the screw holes.

**Fig. 1**

<table>
<thead>
<tr>
<th>Fixture list (Specification)</th>
<th>Qty.</th>
<th>Fixture list (Specification)</th>
<th>Qty.</th>
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<tbody>
<tr>
<td>Electric Screwdriver (S-4000MS)</td>
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<td></td>
</tr>
<tr>
<td>Bits Type: T15, φ=5mm, L=60mm</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Steps:

1. Unscrew (Torx Pin-Head × 4) all joints of M/B (Fig. 1).
   - Torsion: 4.0 ± 0.5 kgf.cm
   - Take the screwdriver vertically to the screw holes.

Glove Requirements: Half-finger gloves

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

<table>
<thead>
<tr>
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<td>1</td>
<td>Bits Type: T15, φ=5mm, L=60mm</td>
<td>1</td>
</tr>
</tbody>
</table>
Steps:

1. Disconnect Touch cable from the connector of M/B side (Fig. 2).

2. Unscrew (Torx Pin-Head ×2) all joints to take out M/B (Fig. 1).
   - Torsion: 4.0 ± 0.5 kgf.cm
   - Take the screwdriver vertically to the screw holes.
   - Take the ion fan to blow M/B for 2~3 seconds.

Glove Requirements: Half-finger gloves

Fixtures

<table>
<thead>
<tr>
<th>Fixture list (Specification)</th>
<th>Qty.</th>
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<td>Bits Type: T15, φ=5mm, L=60mm</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
Glove Requirements: Half-finger gloves

Steps:

1. Unscrew (×4) all joints to take out Middle Band-L illustrated as Fig. 1.
   - Torsion: 4.0 ± 0.5 kgf.cm
   - Take the screwdriver vertically to the screw holes.

2. Take out heat sink from BASE PAN (Fig. 2).

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

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Tabulator: Xin-Xin Chen  Auditor: Ethan Lai  Issue Department: NPSU-PPE
Glove Requirements: Half-finger gloves

Steps:

1. Unscrew (×3) all joints illustrated as Fig. 4.
   - Torsion: 4.0 ± 0.5 kgf.cm
   - Take the screwdriver vertically to the screw holes.

2. Take out Rubber Foot L & R, then put them into the material box (Fig. 1, 2, 3).
   - No obvious defect in the surface.

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

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Tabulator: Xin-Xin Chen          Auditor: Ethan Lai          Issue Department: NPSU-PPE
**Steps:**

1. Pull out Antenna cables moderately from the hooks from the right side to the left side (Fig. 1).

   - Pull out the cables from the hooks marked in red circles and don't pull them using force.
   - To confirm whether the cable is broken, fractured and so on.

---

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

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<tbody>
<tr>
<td>Plastic stick</td>
<td>1</td>
<td></td>
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</tbody>
</table>
Steps:

1. Pull out the cable from the hooks marked in blue circles (Fig. 1, 2).

2. Unscrew (Torx Pin-Head × 2) all joints of Camera (Fig. 2).
   - Torsion: 4.0 ± 1.0 kgf.cm
   - Take the screwdriver vertically to the screw holes.

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

<table>
<thead>
<tr>
<th>Fixture list (Specification)</th>
<th>Qty.</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Electric Screwdriver (S-4000MS)</td>
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<tr>
<td>Bits Type: T15, φ=5mm, L=60mm</td>
<td>1</td>
<td></td>
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</tr>
</tbody>
</table>
Glove Requirements: Half-finger gloves

**Steps:**

1. Tear off the gasket (×1) illustrated as Fig. 2.

2. Tear off the Mylar from the front to the back of Camera (Fig. 3).

3. Separate the bracket and Camera (Fig. 1).

4. Tear off the affiliated acetate tape, then pull out the cable from Camera (Fig. 3).

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

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<td>Ion fan</td>
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</tbody>
</table>
Glove Requirements: Half-finger gloves

**Steps:**

1. Unscrew (Torx Pin-Head × 6) all joints of BASE PAN (Fig. 1).
   - Torsion: 4.0 ± 1.0 kgf.cm
   - Take the screwdriver vertically to the screw holes.

![Fig. 1](image)

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

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</tbody>
</table>
Glove Requirements: Half-finger gloves

Steps:

1. Take out Middle Band Bottom from Front Bezel (Fig. 2).

2. Inspect whether Middle Band Bottom has obvious defect, then put it into the material box (Fig. 1).

3. Inspect whether Front Bezel has obvious defect in the four side, back side and bottom side (Fig. 2).
   - No obvious defect in the surface of Front Bezel, then put it into the material box.

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

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</table>

Tabulator: Xin-Xin Chen    Auditor: Ethan Lai    Issue Department: NPSU-PPE
Steps:

1. Unscrew (Torx Pin-Head × 4) all joints of Panel (Fig. 4, 5).
   - Torsion: 4.0 ± 1.0 kgf.cm
   - Take the screwdriver vertically to the screw holes.
   - Unscrew the one with the convex head at the final step.

2. For BOE panel, tear off the transparent Mylar (× 4) illustrated as Fig. 2 & 3.

3. Inspect BASE PAN, then put the grey rubbers at the both sides of BASE PAN into the material box.

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

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</table>
Standard Operation Procedure

Document No. : Pegasus600 DISASS’Y SOP  Station : 26(2/2)
Operation Name : Unscrew Panel  Ver. : 1.00  Date : 2017/5/23

Steps :

1. Unscrew (Torx Pin-Head × 4) all joints of Panel (Fig. 1, 2).
   - Torsion: 4.0 ± 1.0 kgf.cm
   - Take the screwdriver vertically to the screw holes.

2. Not damage LVDS cable when take out BASE PAN (Fig. 1).

Glove Requirements: Half-finger gloves

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

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Tabulator : Xin-Xin Chen  Auditor : Ethan Lai  Issue Department : NPSU-PPE
### Steps:

1. Tear the handle, then pull out LVDS cable horizontally from the connector of Panel (Fig. 1).
   - Goldfinger side of LVDS cable is downward.
   - Follow the direction of red arrow to press both side of connector, then pull out the cable (Fig. 2).

### Fixtures List (Specification)

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Note: If finding anything uncommon, notice foreman or assistant at once.
Glove Requirements: Half-finger gloves

Steps:

1. Tear off the gaskets at the front of the connector of Panel (Fig. 1).

   ▶ Exclude BOE, this step is done only for Panel produced by LG and AUO (Fig. 2).

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

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Tabulator: Xin-Xin Chen  
Auditor: Ethan Lai  
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