Product End-of-Life Disassembly Instructions

Product Category: Notebooks and Tablet PCs

Marketing Name / Model
[List multiple models if applicable.]
HP ProBook 645 G2 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>1</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>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>
</tbody>
</table>

PSG instructions for this template are available at EL-MF877-01
Components and waste containing asbestos  
Components, parts and materials containing refractory ceramic fibers  
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>
</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.

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:** Circus/Tropicana

<table>
<thead>
<tr>
<th>Sub-assemble name:</th>
<th>LCM DIS ASS'Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>Document No.:</td>
<td>Circus/Tropicana 14” LCM DIS ASS'Y SOP</td>
</tr>
<tr>
<td>Written by:</td>
<td>Stanley Chen</td>
</tr>
<tr>
<td>Revision:</td>
<td>0.1</td>
</tr>
<tr>
<td>Date:</td>
<td>2015/11/16</td>
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### A. Current station version list

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### B. Version Modify list

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<td>ALL</td>
<td>FIRST VERSION</td>
<td>0.1</td>
<td>Stanley Chen</td>
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Auditor: Stanley Chen  
Tabulator: Alicia Chien
Step:

1. Disassemble LCM bezel. (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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</tr>
</thead>
</table>

Tabulator: Alicia Chien    Auditor: Stanley Chen    Issue department: NPSU-PPE
Standard Operation Procedure

Document No. Circus Tropicana 14’’ LCM DIS ASS’Y SOP  Station : 2(1/1)
Name : Loosen Screws  Ver. : 0.1  Date : 2015/11/16

Step:
(Fig.1)

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

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<tr>
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</tr>
</tbody>
</table>

Tabulator: Alicia Chien  Auditor: Stanley Chen  Issue department: NPSU-PPE
Step:

1. Disconnect LCM cable. (Fig.1)

2. Disassemble LCM. (Fig.2)

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

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Tabulator: Alicia Chien  
Auditor: Stanley Chen  
Issue department: NPSU-PPE
Step:

1. Loosen hinge screw - M2.5*2.5
   (6052B0096201) *3. (Fig.1)

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

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Tabulator: Alicia Chien  Auditor: Stanley Chen  Issue department: NPSU-PPE
Step:

1. Loosen hinge screw - M2.5*2.5

(6052B0096201) *3. (Fig.1)

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

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</tbody>
</table>

Tabulator: Alicia Chien  
Auditor: Stanley Chen  
Issue department: NPSU-PPE
Step:

1. Disassemble the right antenna cable * 2.  
   (Fig.1)

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

<table>
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<tr>
<th>Holding fixture list (holding fixture standard)</th>
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Tabulator: Alicia Chien   Auditor: Stanley Chen   Issue department: NPSU-PPE
Standard Operation Procedure

Document No. Circus Tropicana 14” LCM DIS ASS’Y SOP
Name: Disassemble LCM Cable - L
Station: 7(1/1)
Ver.: 0.1 Date: 2015/11/16

Step:

1. Disassemble LCM cable. (Fig.1)

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

<table>
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<tr>
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</thead>
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Tabulator: Alicia Chien  Auditor: Stanley Chen  Issue department: NPSU-PPE
Step:

1. Disassemble the left antenna cable * 2.

(Fig.1)

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

1. Disassemble WLAN / WWAN module. (Fig.1)

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

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<tr>
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Tabulator: Alicia Chien  
Auditor: Stanley Chen  
Issue department: NPSU-PPE
Step:

1. Disassemble WLAN / WWAN module. (Fig.1)

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

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Tabulator: Alicia Chien  
Auditor: Stanley Chen  
Issue department: NPSU-PPE
Step:

1. Disassemble camera module.
   (Fig.1 / Fig.2 / Fig.3)

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

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Tabulator: Alicia Chien  
Auditor: Stanley Chen  
Issue department: NPSU-PPE
MANUFACTURING PROCESS INSTRUCTIONS
MECHANICAL ASSEMBLY

MODEL : Circus / Tropicana 14”

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B. Version Modify list

<table>
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<tr>
<td>0.1</td>
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<td>ALL</td>
<td>FIRST VERSION</td>
<td>0.1</td>
<td>Stanley Chen</td>
</tr>
</tbody>
</table>

Auditor : Stanley Chen  Tabulator : Alicia Chien
Step:

1. Loosen BTCB screw - M2.5*6
   
   (6052A0034701) * 4. (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>
<th>Holding fixture list (holding fixture standard)</th>
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<tbody>
<tr>
<td>Electric cross screwdriver (#1)</td>
<td>1</td>
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</table>

Tabulator: Alicia Chien  
Auditor: Stanley Chen  
Issue department: NPSU-PPE
Step:

1. Loosen BTCB screw - M2.5*6
   
   (6052A0034701) * 4. (Fig.1)

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

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<tbody>
<tr>
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</table>

Fig.1

Tabulator: Alicia Chien  
Auditor: Stanley Chen  
Issue department: NPSU-PPE
Step:

1. Disassemble Bottom cover. (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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</thead>
</table>

Tabulator: Alicia Chien  
Auditor: Stanley Chen  
Issue department: NPSU-PPE
Step:

1. Loosen battery set screw * 3. (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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<td>Electric cross screwdriver (#1)</td>
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Tabulator: Alicia Chien  
Auditor: Stanley Chen  
Issue department: NPSU-PPE
Standard Operation Procedure

Document No. Circus Tropicana 14” FA DIS ASS’Y SOP
Name : Disassemble Battery
Station : 5(1/1)
Ver. : 0.1
Date : 2015/11/16

Step :

1. Loosen battery set screw * 4. (Fig.1)

2. Disassemble battery.

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

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

Fig.1

Tabulator : Alicia Chien  Auditor : Stanley Chen  Issue department : NPSU-PPE
Step:

1. Loosen hinge cover screw - M2*5 (60520B055001) * 2. (Fig.1 / Fig.2)
2. Disassemble hinge cover * 2. (Fig.3 / Fig.4)

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

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

Tabulator: Alicia Chien          Auditor: Stanley Chen          Issue department: NPSU-PPE
Step:

1. Loosen BTCB screw - M2.5*8
   (6052A0029101) * 1. (Fig.1)

Fig.1

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

1. Loosen ODD set screw * 1, then disassemble ODD module. (Fig.1)

2. Disassemble audio/B FFC. (Fig.2)

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: Stanley Chen  Issue department: NPSU-PPE
Step:

1. Loosen screw - M2*3 (6052B0185401) * 2. (Fig.2)
2. Disassemble ODD bracket. (Fig.1 / Fig.2)
3. Disassemble ODD bezel.

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

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Tabulator: Alicia Chien  
Auditor: Stanley Chen  
Issue department: NPSU-PPE
Standard Operation Procedure

Document No. Circus Tropicana 14” FA DIS ASS’Y SOP

Station: 10(1/1)

Name: Disassemble HDD

Ver. : 0.1

Date: 2015/11/16

Step:

For HDD module
1. Loosen HDD set screw * 4, then slide downward to remove the HDD. (Fig.1)

2. Disassemble HDD module.

For SSD module
1. Loosen SSD module screw M2*3 (6052B0185401) * 1, then disassemble SSD (6022B0244601). (Fig.2)

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

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Tabulator: Alicia Chien  Auditor: Stanley Chen  Issue department: NPSU-PPE
Step:

1. Loosen HDD screw - M3x3 (60520D065405)
   * 4. (Fig.2 / Fig.3)
2. Disassemble HDD bracket (6053B1185301).

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

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Tabulator: Alicia Chien  Auditor: Stanley Chen  Issue department: NPSU-PPE
Step:

1. Loosen BTCB screw - M2*1.5
   (6052B0324501) * 2. (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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<tr>
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Tabulator: Alicia Chien    Auditor: Stanley Chen    Issue department: NPSU-PPE

Fig.1
**Step:**

1. Loosen BTCB screw - M2*3  
   (6052B0185401) * 3. (Fig.1)

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

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**Tabulator:** Alicia Chien  
**Auditor:** Stanley Chen  
**Issue department:** NPSU-PPE
Step:

1. Disassemble DDR. (Fig.1)

Notes: If finding anything uncommon, notice foreman or assistant at once.
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Tabulator: Alicia Chien  
Auditor: Stanley Chen  
Issue department: NPSU-PPE
Step:

1. Disassemble WLAN antenna cable *2. (Fig.2)

2. Loosen screw - M2*3 (6052B0185401) *1. (Fig.1)

3. Disassemble Bracket & WLAN card

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

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Tabulator: Alicia Chien  
Auditor: Stanley Chen  
Issue department: NPSU-PPE
Step:

1. Disassemble LVDS cable.

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

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Tabulator: Alicia Chien  
Auditor: Stanley Chen  
Issue department: NPSU-PPE
Step:

1. Loosen BTCB screw - M2.5*5

   (6052A0034701) * 4. (Fig.1)

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

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Fig.1

Tabulator: Alicia Chien  
Auditor: Stanley Chen  
Issue department: NPSU-PPE
Step:

1. Loosen BTCB screw - M2.5*5
(6052A0034701) * 3. (Fig.1)

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

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Fig.1

Tabulator: Alicia Chien  Auditor: Stanley Chen  Issue department: NPSU-PPE
Step:

1. Loosen KB set screw * 2.

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

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Tabulator: Alicia Chien  
Auditor: Stanley Chen  
Issue department: NPSU-PPE
Standard Operation Procedure

Document No. Circus Tropicana 14” FA DIS ASS'Y SOP
Name: Disassemble KB PS FFC & KB
Ver.: 0.1 Date: 2015/11/16

Step:

1. Disconnect K/B FFC, backlight FPC and PS FFC. (Fig.2)

2. Disassemble KB.

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

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Tabulator: Alicia Chien  Auditor: Stanley Chen  Issue department: NPSU-PPE
Step:

1. Disassemble power / speaker / FP FFC.
   (Fig.1)

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

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Tabulator: Alicia Chien  
Auditor: Stanley Chen  
Issue department: NPSU-PPE
Standard Operation Procedure

Document No.  Circus Tropicana 14” FA DIS ASS’Y SOP  Station : 22(1/1)
Name : Disassemble Top Case Module  Ver. : 0.1  Date : 2015/11/16

Step :
1. Disassemble top case module from upside.
   (Fig.1)

Fig.2

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

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Tabulator : Alicia Chien  Auditor : Stanley Chen  Issue department : NPSU-PPE
Step:

1. Disassemble LCM cable and antenna cable.

(Fig.1)

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

   (No.1 / 2 / 3)

2. Loosen screw - M2.5*2.5 (6052B0096201) * 1.
   (No.4).

3. Disassemble LCD module.

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

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Tabulator : Alicia Chien  
Auditor : Stanley Chen  
Issue department : NPSU-PPE
Step:


2. Disassemble Audio/B.

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

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Tabulator: Alicia Chien  
Auditor: Stanley Chen  
Issue department: NPSU-PPE
**Step:**

1. Loosen fan set screw * 2. (Fig.1)

2. Disconnect fan cable from MB. (Fig.2)

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

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**Tabulator:** Alicia Chien  
**Auditor:** Stanley Chen  
**Issue department:** NPSU-PPE
Standard Operation Procedure

Document No. Circus Tropicana 14” FA DIS ASS’Y SOP
Name : Disassemble Smart Card FFC / RTC Battery
Ver. : 0.1
Date : 2015/11/16
Station : 27(1/1)

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

### Step:

1. Disassemble smart card FFC from MB. (Fig.1)

2. Disassemble RTC battery. (Fig.2)

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Tabulator: Alicia Chien  
Auditor: Stanley Chen  
Issue department: NPSU-PPE
Step:
1. Loosen M/B screw - M2*3 (6052B0185401)
   * 2. (Fig.1)
2. Disassemble MB

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

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Tabulator: Alicia Chien  Auditor: Stanley Chen  Issue department: NPSU-PPE
Standard Operation Procedure

Document No. Circus Tropicana 14" FA DIS ASS’Y SOP
Name : Disassemble Thermal Module
Station : 29(1/1)

Ver. : 0.1
Date : 2015/11/16

Step:
1. Loosen thermal module screw. (Fig.1/ Fig.2)
2. Disassemble thermal module from MB.

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

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Tabulator: Alicia Chien  
Auditor: Stanley Chen  
Issue department: NPSU-PPE
Standard Operation Procedure

Document No. Circus Tropicana 14” FA DIS ASS’Y SOP
Name: Disassemble NFC

Step:

1. Disassemble NFC antenna (6036B0153901). (Fig.1)

2. Disassemble NFC module (6042B0244301) from touch pad BRKT. (Fig.1)

3. Disassemble FPR FFC. (Fig.3)

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


2. Disassemble Bracket & FPR module / dummy.

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

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Tabulator: Alicia Chien  
Auditor: Stanley Chen  
Issue department: NPSU-PPE