Product End-of-Life Disassembly Instructions

Product Category: Notebooks and Tablet PCs

Marketing Name / Model [List multiple models if applicable.]
HP EliteBook 846 G5 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.

Item Description	Notes	Quantity of items included in product
Printed Circuit Boards (PCB) or Printed Circuit Assemblies (PCA)	With a surface greater than 10 sq cm	1
Batteries	All types including standard alkaline and lithium coin or button style batteries	2
Mercury-containing components	For example, mercury in lamps, display backlights, scanner lamps, switches, batteries	0
Liquid Crystal Displays (LCD) with a surface greater than 100 sq cm	Includes background illuminated displays with gas discharge lamps	1
Cathode Ray Tubes (CRT)		0
Capacitors / condensers (Containing PCB/PCT)		0
Electrolytic Capacitors / Condensers measuring greater than 2.5 cm in diameter or height		0
External electrical cables and cords	power cord	1
Gas Discharge Lamps		0
Plastics containing Brominated Flame Retardants weighing > 25 grams (not including PCBs or PCAs already listed as a separate item above)		0
Components and parts containing toner and ink, including liquids, semi-liquids (gel/paste) and toner	Include the cartridges, print heads, tubes, vent chambers, and service stations.	0

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.

Tool Description	Tool Size (if applicable)
Screwdriver #1	Electric cross screwdriver
Description #2	TORX T8 (2.31mm)
Description #3	D73 1 * 3.0 * 20 * 40
Description #4	
Description #5	

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).

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

MANUFACTURING PROCESS INSTRUCTIONS
MECHANICAL ASSEMBLY
MODEL : Computron Trypticon

Sub-assembly name:	Computron Trypticon 14" DIS ASS'Y SOP		
Document No.:	Computron Trypticon 14" DIS ASS'Y SOP		
Written by:	Vick Weng	Revision:	**1.00**
Date:	2017/12/18	Page:	1 of 29

A.Current station version list:

Station	Version	Station	Version	Station	Version	Station	Version	Station	Version	Station	Version
1	1.00	11	1.00	21	1.00						
2	1.00	12	1.00	22	1.00						
3	1.00	13	1.00	23	1.00						
4	1.00	14	1.00	24	1.00						
5	1.00	15	1.00	25	1.00						
6	1.00	16	1.00	26	1.00						
7	1.00	17	1.00	27	1.00						
8	1.00	18	1.00	28	1.00						
9	1.00	19	1.00								
10	1.00	20	1.00								

B.Version Modify list:

Date	Station	Content	Ver.	Design
2017/12/18	ALL	First Version	1.**	Xiao-bo Li

Auditor ： C.S. Lee   Tabulator ： Vick Weng

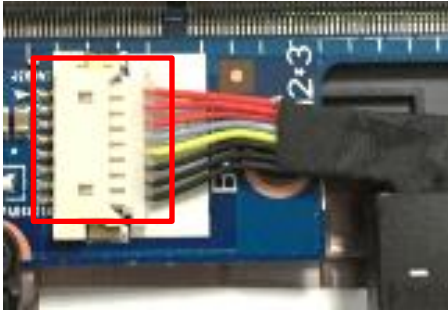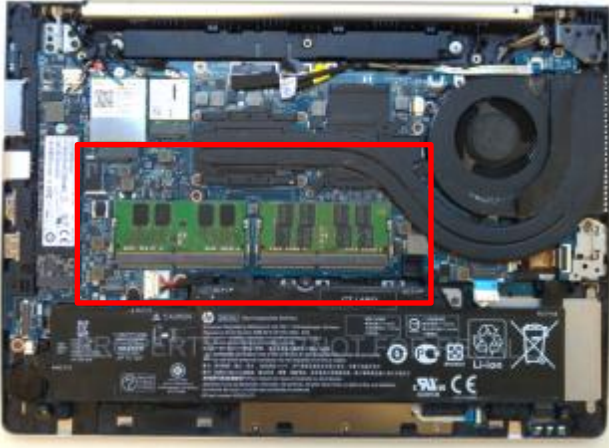**Step：**

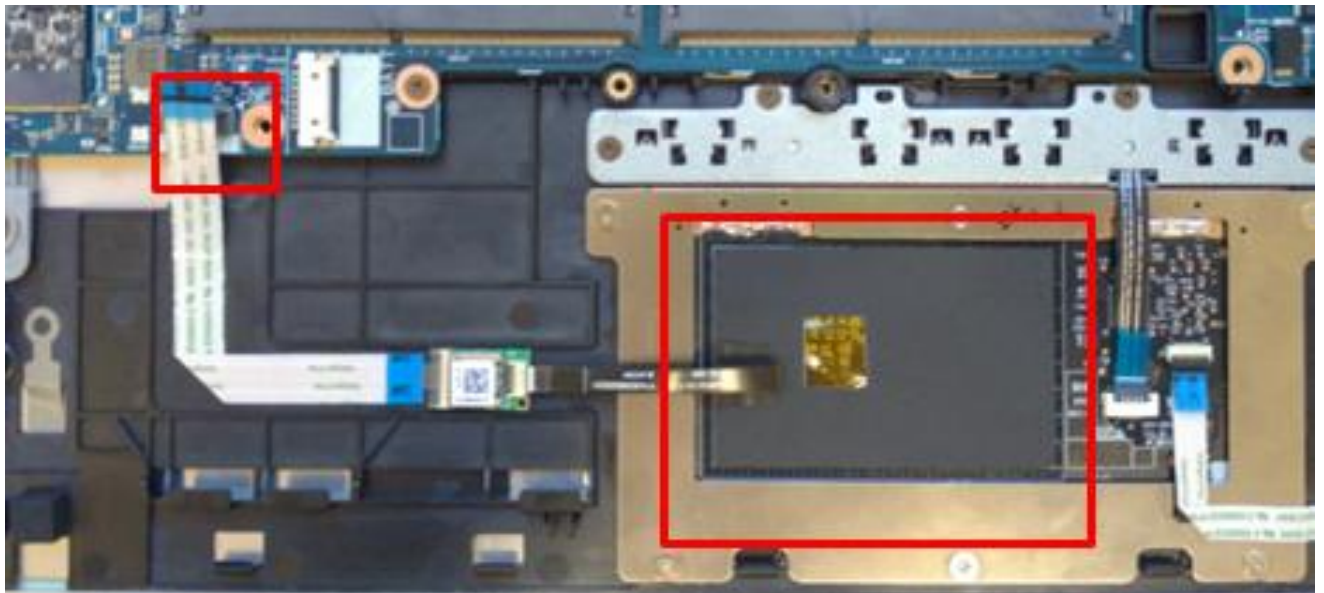1. Loosen screw*8.
   ❖ Torsion：2.0 ± 0.2 kgf · cm
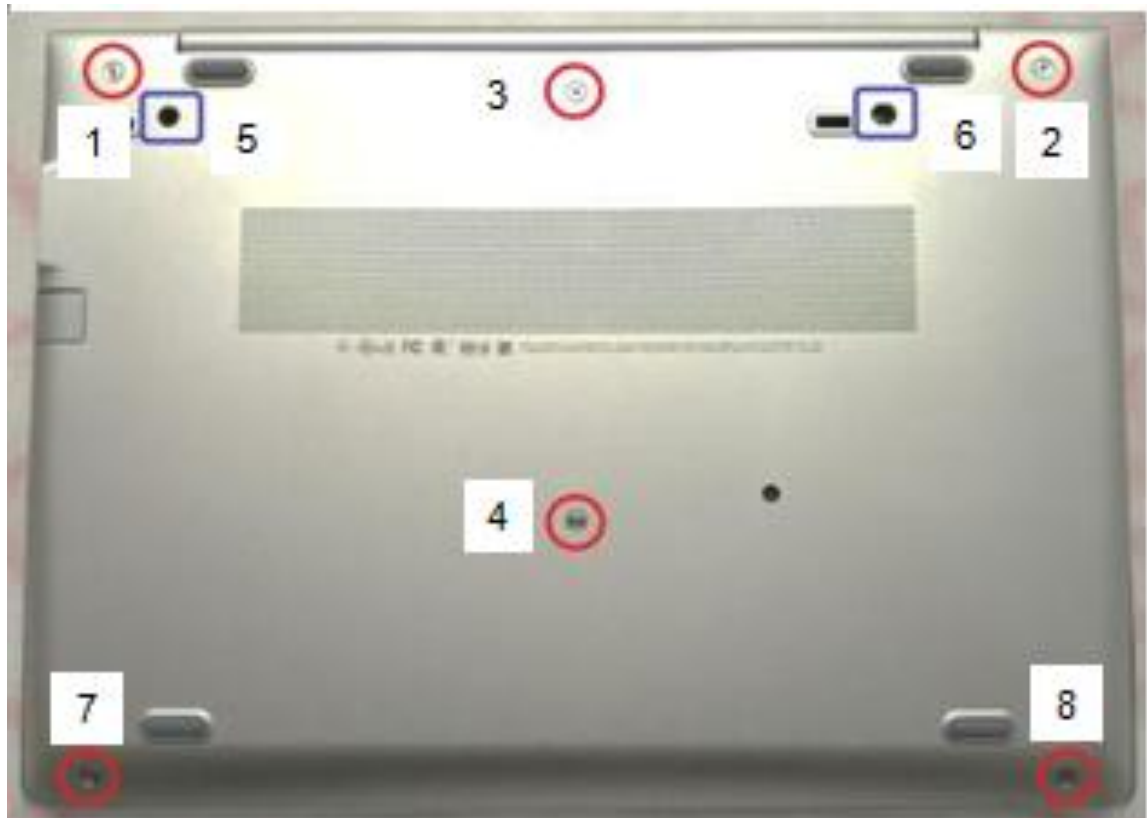
Notes : If finding anything uncommon, notice foreman or assistant at once.

Holding fixture list (holding fixture standard)	Qty	Holding fixture list (holding fixture standard)	Qty
Electric cross screwdriver	1		

Tabulator：Vick Weng   Auditor ： C.S. Lee   Issue department ： __NPSU-PPE__
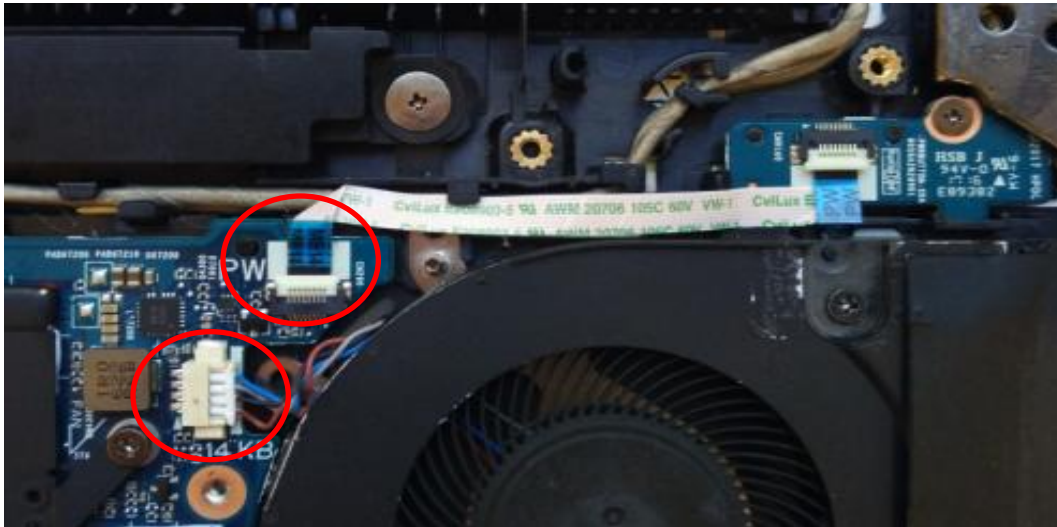
Step：

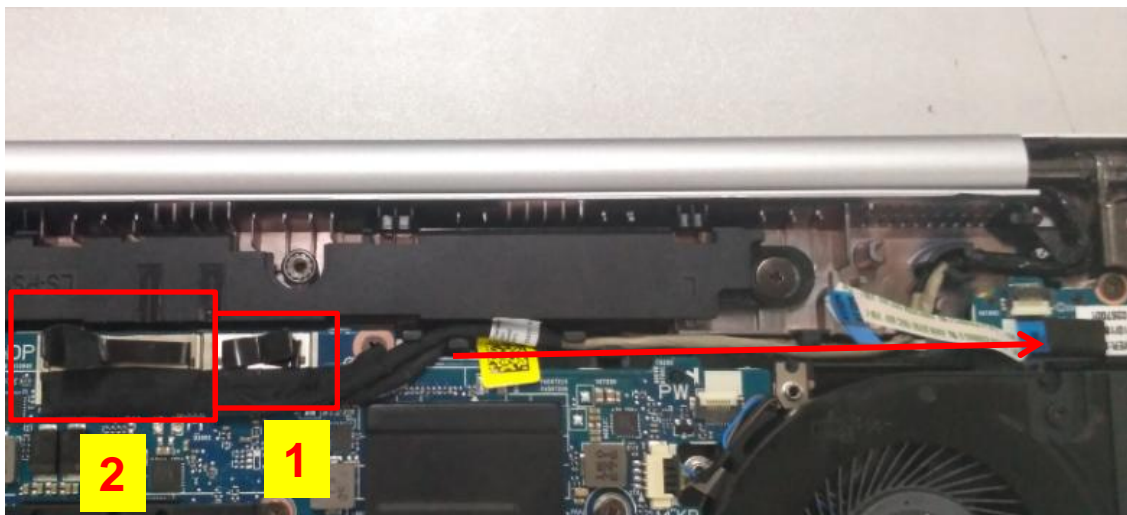1.Use plastic stick to disassemble bottom case.
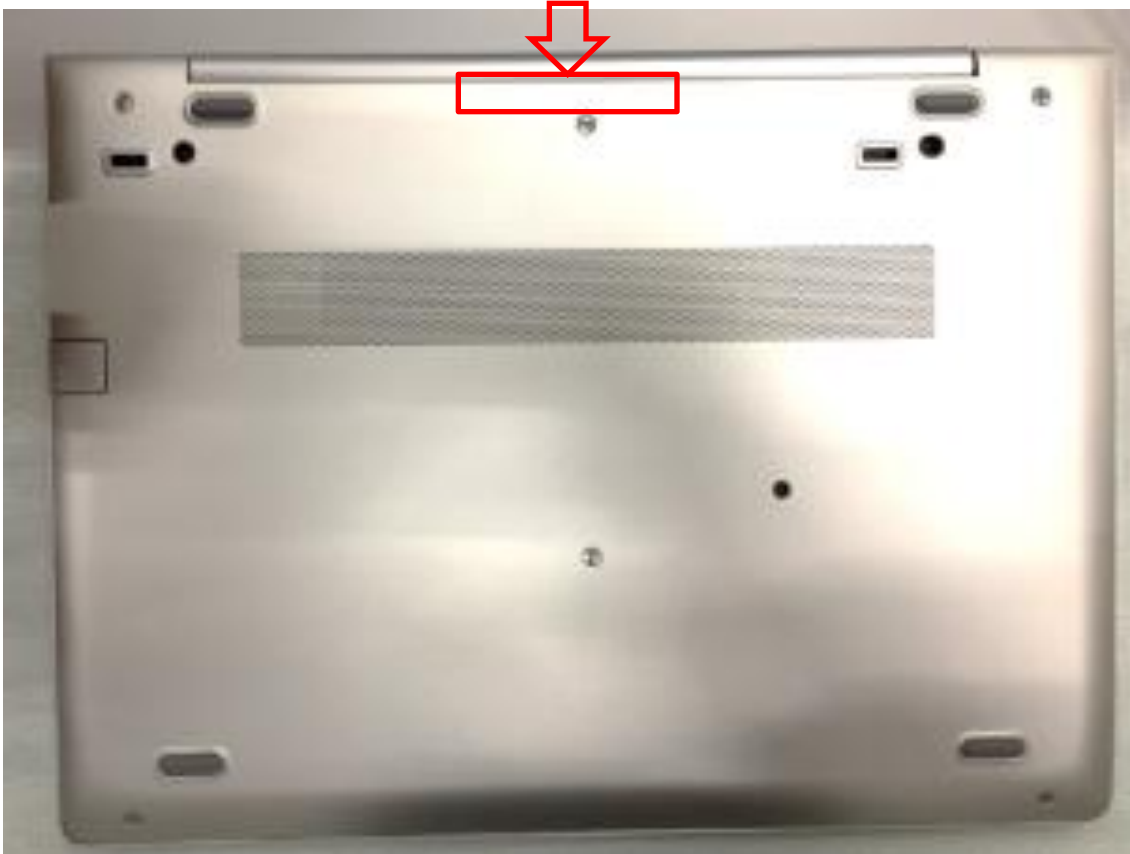
Notes : If finding anything uncommon, notice foreman or assistant at once.

Holding fixture list (holding fixture standard)	Qty	Holding fixture list (holding fixture standard)	Qty
Plastic stick	1		

Tabulator：Vick Weng   Auditor ： C.S. Lee   Issue department ： NPSU-PPE

Document No. : Computron Trypticon 14" DIS ASS'Y SOP   Station : __3(1/1)__

Name   : Disassemble Battery   Ver. : __1.00__ Date   __: 2017/12/18__

Step：

1. Disconnect battery cable(Fig.1).
2. Loosen Battery screw*5(T8)(Fig.2).
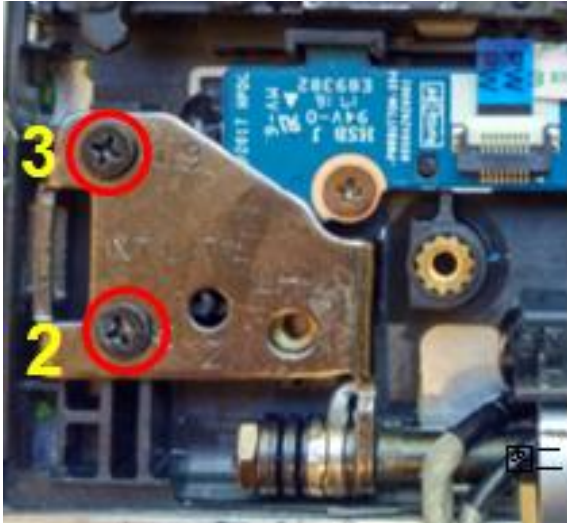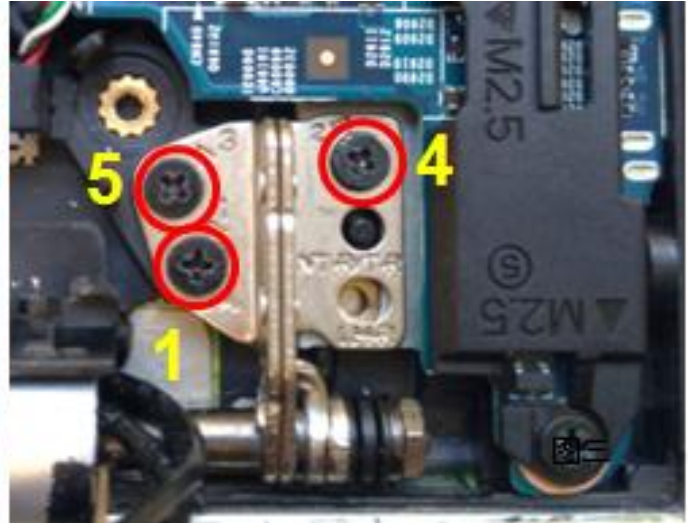   ❖ Torsion：2.0±0.2 kgf‧cm
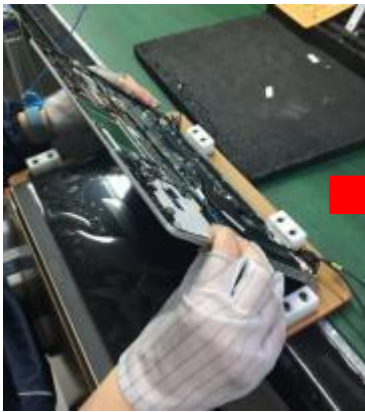3. Remove battery.

Fig.1

Fig.2

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

Holding fixture list (holding fixture standard)	Qty	Holding fixture list (holding fixture standard)	Qty
Electric cross screwdriver(T8)	1		

Tabulator：Vick Weng   Auditor ： C.S. Lee   Issue department ：__NPSU-PPE__

Standard Operation Procedure

Document No. : Computron Trypticon 14" DIS ASS'Y SOP	Station : 4(1/1)
Name : Disassemble DDR/NFC	Ver. : 1.00 Date : 2017/12/18

Step：

1.Disassemble DDR(Fig.1).

2.Disassemble NFC FFC, NFC module, NFC antenna(Fig.2).

Fig.1

Fig.2

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

Holding fixture list (holding fixture standard)	Qty	Holding fixture list (holding fixture standard)	Qty

Tabulator：Vick Weng   Auditor ： C.S. Lee   Issue department： NPSU-PPE

Document No. ： Computron Trypticon 14" DIS ASS'Y SOP　　Station ： __5(1/1)__

Name ： Disassemble WLAN/WWAN/SSD　　Ver. ： __1.00__　Date ： __2017/12/18__

Step：

1.Disassemble WLAN/WWAN cable from module & hook(Fig.1).

2.Loosen WLAN/WWAN/SSD screw, then remove WLAN/WWAN/SSD module from M/B(Fig.2).
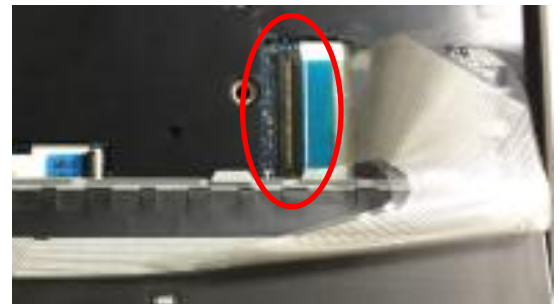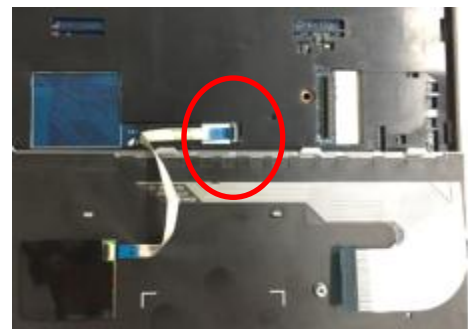
❖ Torsion：1.5 ± 0.2 kgf · cm

Fig.1

Fig.2

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

Holding fixture list (holding fixture standard)	Qty	Holding fixture list (holding fixture standard)	Qty
Electric cross screwdriver	1		

Tabulator：Vick Weng　　　Auditor ： C.S. Lee　　Issue department ： __NPSU-PPE__

Standard Operation Procedure

Document No. : Computron Trypticon 14" DIS ASS'Y SOP		Station :	6(1/1)
Name : Disassemble Power FFC, FAN/LVDS/CCD Cable	Ver. : 1.00	Date	: 2017/12/18

H F — ATTENTION 2

Step：

1.Disassemble Power FFC, FAN cable, LVDS cable, CCD cable(Fig.1/Fig.2).

Fig.1

Fig.2

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

Holding fixture list (holding fixture standard)	Qty	Holding fixture list (holding fixture standard)	Qty

Tabulator：Vick Weng   Auditor ： C.S. Lee   Issue department：NPSU-PPE

Step：

1. Loosen hinge screw*5(M2.5*4.0)(Fig.1/Fig.2).

❖ Torsion：3.0 ± 0.2 kgf · cm

2. Open base unit to 90 degree, then separate panel set & base unit(Fig.3).

Fig.1　　　　　　　　　　　　　　　　　　Fig.2

Fig.3

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

Holding fixture list (holding fixture standard)	Qty	Holding fixture list (holding fixture standard)	Qty
Electric cross screwdriver	1		

Tabulator：Vick Weng　　　　Auditor ： C.S. Lee　　　Issue department ： NPSU-PPE

Standard Operation Procedure

Document No. : Computron Trypticon 14" DIS ASS'Y SOP	Station :	8(1/1)
Name : Loosen K/B screw	Ver. : 1.00 Date	: 2017/12/18

Step：
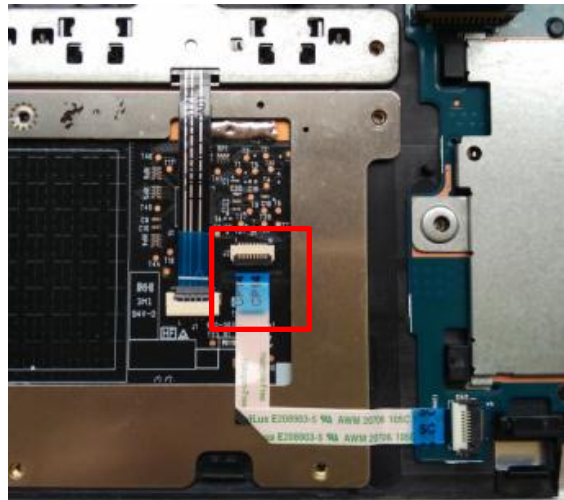
1.Loosen K/B screw*2(M2.0*3.0).

❖ Torsion：1.5 ± 0.2 kgf‧cm
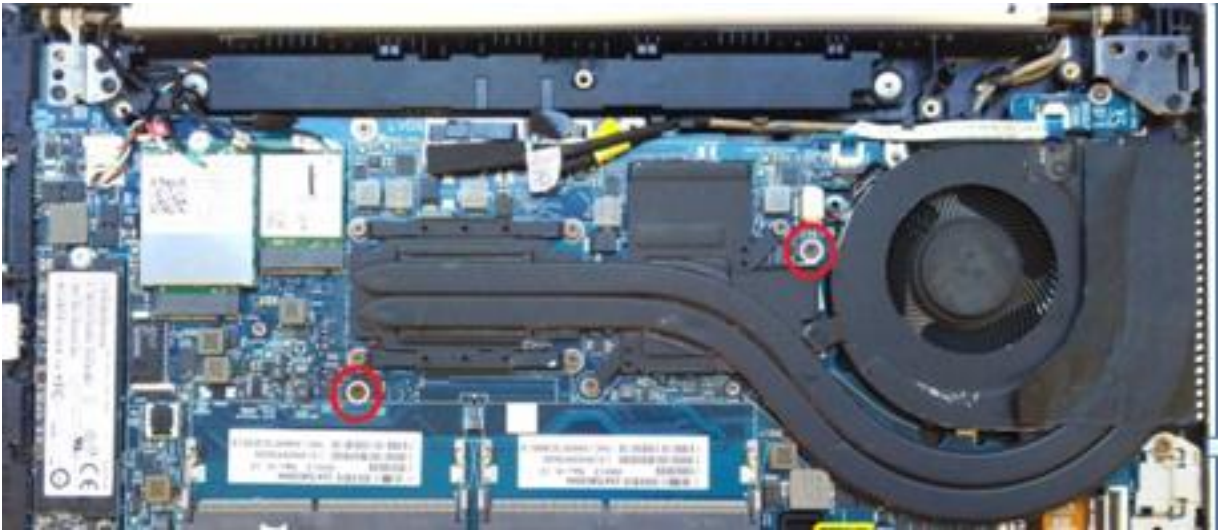
Notes : If finding anything uncommon, notice foreman or assistant at once.

Holding fixture list (holding fixture standard)	Qty	Holding fixture list (holding fixture standard)	Qty
Electric cross screwdriver	1		

Step：

1. Use plastic stick to push the K/B(Fig.1).
2. Turn the computer over, then disassemble K/B(Fig.2).
3. Disassemble K/B FFC, backlight FPC, PS FFC, then remove K/B(Fig.3~5).

Fig.1

Fig.2
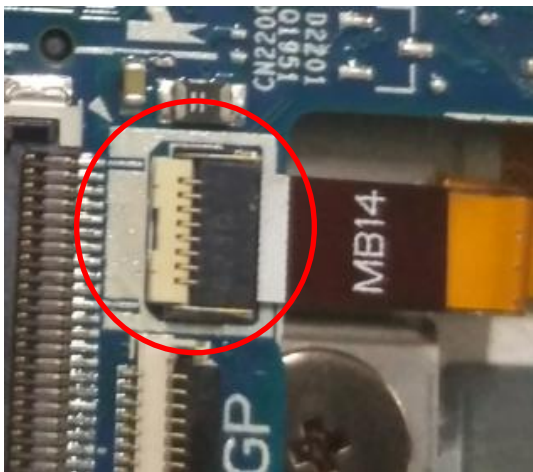

Fig.3

Fig.4

Fig.5

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

Holding fixture list (holding fixture standard)	Qty	Holding fixture list (holding fixture standard)	Qty
Plastic stick	1		

Tabulator：Vick Weng   Auditor ： C.S. Lee   Issue department：NPSU-PPE

Step：

1.Loosen screw*7(M2.0*3.0).

❖ Torsion：1.5±0.2 kgf‧cm

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

Holding fixture list (holding fixture standard)	Qty	Holding fixture list (holding fixture standard)	Qty
Electric cross screwdriver	1		

Tabulator：Vick Weng   Auditor ： C.S. Lee   Issue department：__NPSU-PPE__

Step：

1. Turn the computer over.
2. Loosen thermal/FAN screw*8.
   - ❖ Torsion：1.5 ± 0.2 kgf · cm
3. Remove thermal & FAN module.
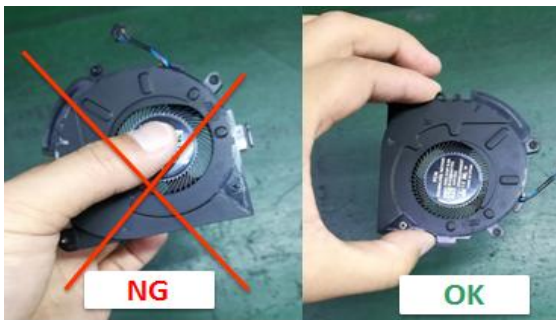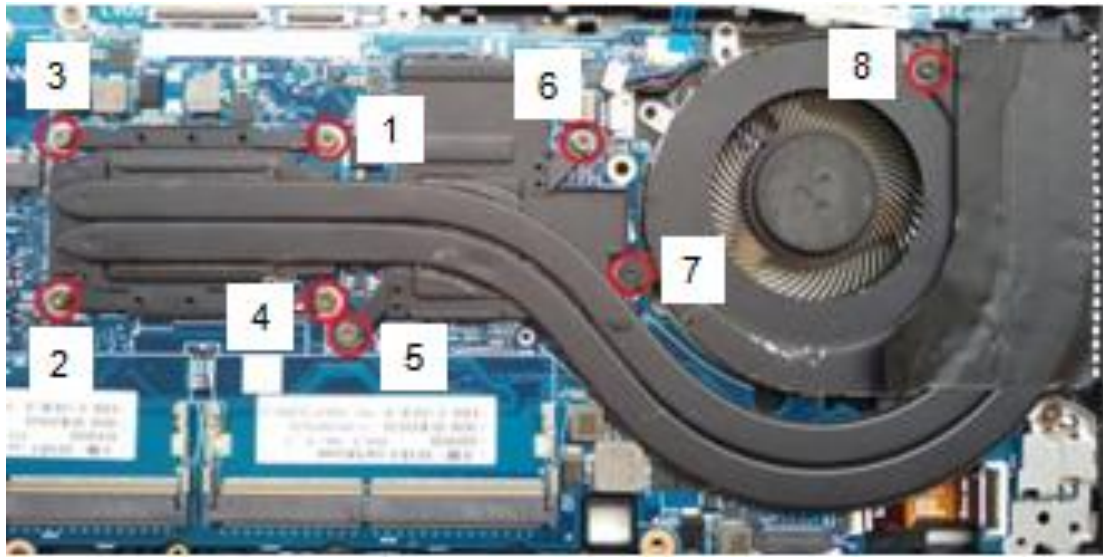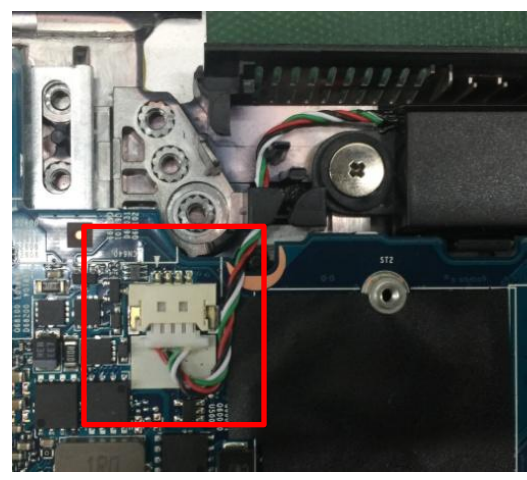

NG   OK

Pick up Thermal position

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

Holding fixture list (holding fixture standard)	Qty	Holding fixture list (holding fixture standard)	Qty
Electric cross screwdriver	1		

Step：

1. Loosen USB bracket screw*2(tM2.0*3.0)(Fig.1).

❖ Torsion：1.5 ± 0.2 kgf · cm

2. Disassemble USB bracket(Fig.1).

3. Disassemble smart card FFC/Finger Pinter FPC(Fig.2/Fig.3).

Fig.1

Fig.2

Fig.3

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

Holding fixture list (holding fixture standard)	Qty	Holding fixture list (holding fixture standard)	Qty
Electric cross screwdriver	1		

Tabulator：Vick Weng   Auditor ： C.S. Lee   Issue department：_NPSU-PPE_

H F

ATTENTION 2

Step：
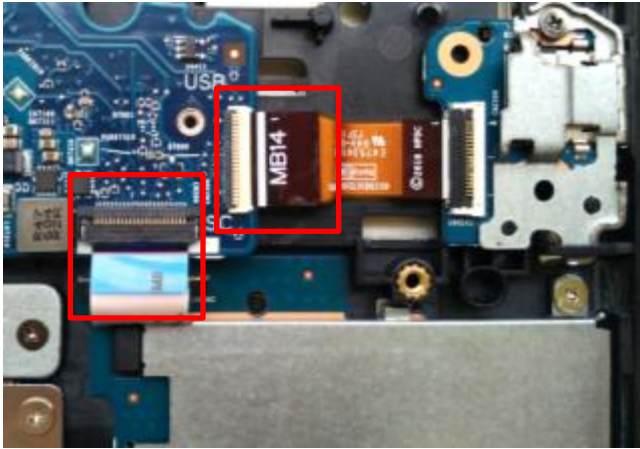
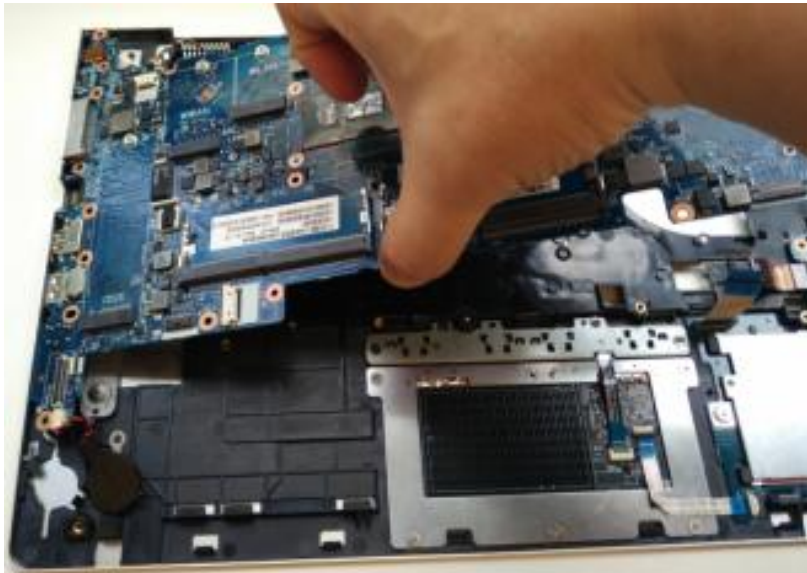1.Loosen RJ45 screw*6(M2.0*4.0).

❖ Torsion：1.5 ± 0.2 kgf・cm
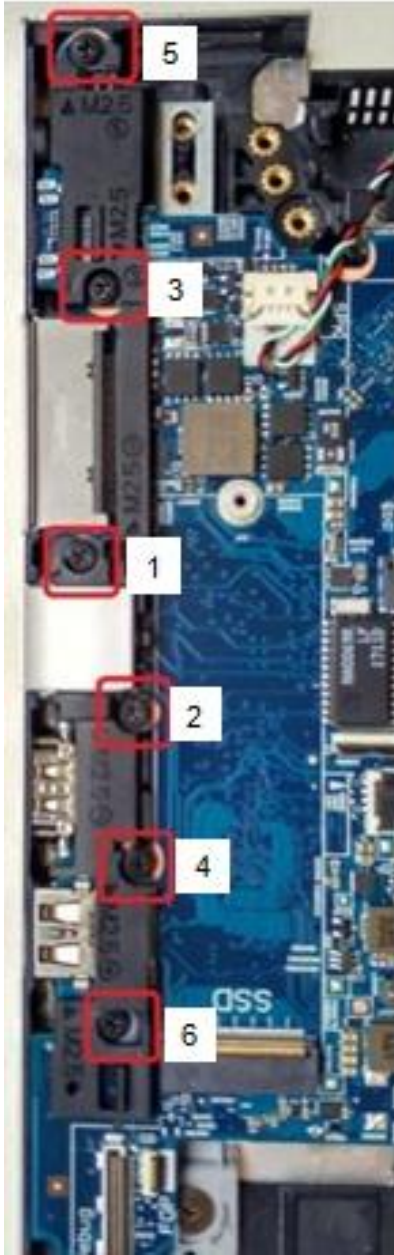
Notes : If finding anything uncommon, notice foreman or assistant at once.

Holding fixture list (holding fixture standard)	Qty	Holding fixture list (holding fixture standard)	Qty
Electric cross screwdriver	1		

Tabulator：Vick Weng　　　　Auditor ：　C.S. Lee　　　　Issue department：　NPSU-PPE

HF

ATTENTION 2

Step：

1.Disassemble RJ45 frame(Fig.1).

2.Disassemble speaker cable(Fig.2).

3.Disassemble sub battery cable, then disassemble sub battery from hook(Fig.3).

Fig.1

Fig.2

Fig.3

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

Holding fixture list (holding fixture standard)	Qty	Holding fixture list (holding fixture standard)	Qty

Document No. : Computron Trypticon 14" DIS ASS'Y SOP   Station : __15(1/1)__

Name   : Loosen M/B screw   Ver. : __1.00__ Date   : 2017/12/18

Step：

1.Loosen M/B screw*5(M2.0*3.0).

❖ Torsion：1.5±0.2 kgf · cm

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

Holding fixture list (holding fixture standard)	Qty	Holding fixture list (holding fixture standard)	Qty
Electric cross screwdriver	1		

Tabulator：Vick Weng   Auditor ：C.S. Lee   Issue department：NPSU-PPE

Step：

1. Disassemble Smart Card FFC & USB FPC, then remove USB/B from top case(Fig.1).

2. Disassemble M/B from top case(Fig.2).

Fig.1

Fig.2

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

Holding fixture list (holding fixture standard)	Qty	Holding fixture list (holding fixture standard)	Qty

Tabulator：Vick Weng   Auditor ： C.S. Lee   Issue department：NPSU-PPE

Step：

1. Loosen finger printer screw*1(M2.0*2.0).
❖ Torsion：1.5±0.2 kgf・cm
2. Disassemble finger printer or dummy from top case.
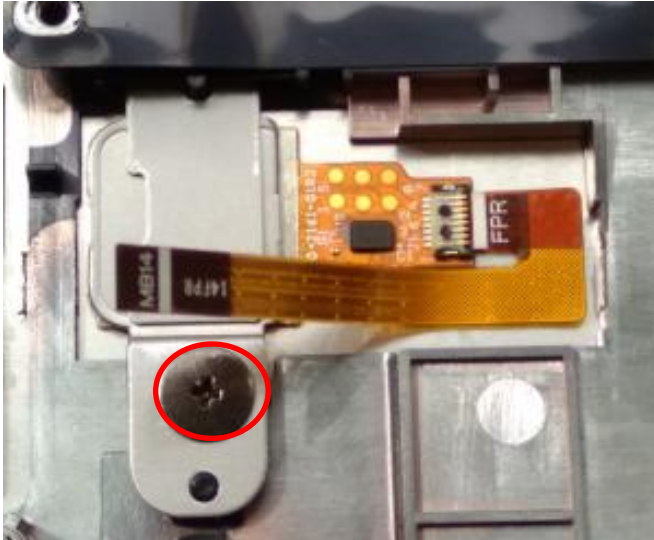
Notes : If finding anything uncommon, notice foreman or assistant at once.

Holding fixture list (holding fixture standard)	Qty	Holding fixture list (holding fixture standard)	Qty
Electric cross screwdriver	1		

Step：

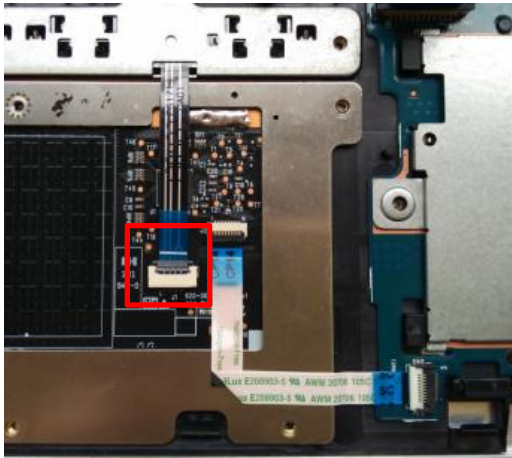1.Loosen SMC screw*3(M2.0*2.0), then remove SMC/B from top case(Fig.1).

❖Torsion：1.5±0.2 kgf‧cm

❖Dummy Smartcard loosen screw*1(Fig.2)
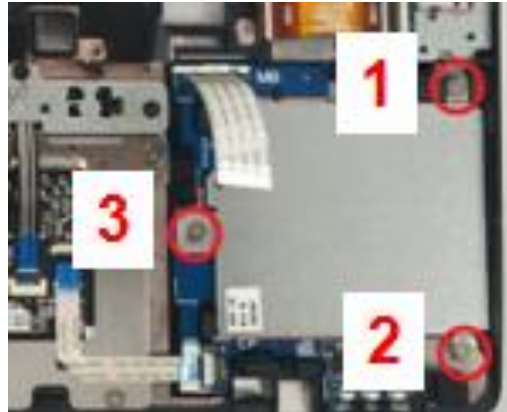
Smartcard

Fig.1
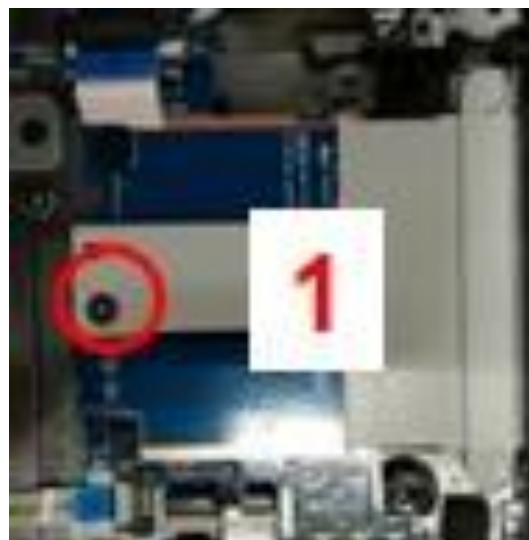
dummy Smartcard

Fig.2

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

Holding fixture list (holding fixture standard)	Qty	Holding fixture list (holding fixture standard)	Qty
Electric cross screwdriver	1		

Standard Operation Procedure

Document No. : Computron Trypticon 14" DIS ASS'Y SOP   Station :   19(1/1)
Name   :   Disassemble Speaker   Ver. :   1.00   Date   : 2017/12/18

Step：

1.Disassemble pick button FPC(Fig.1).

2.Loosen speaker screw*2(M2.0*2.0), then remove speaker from top case(Fig.2).
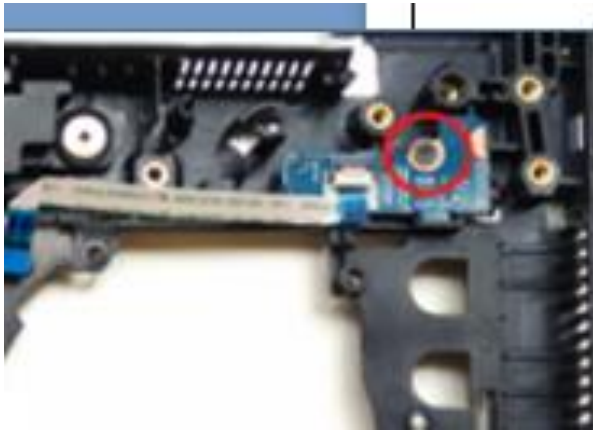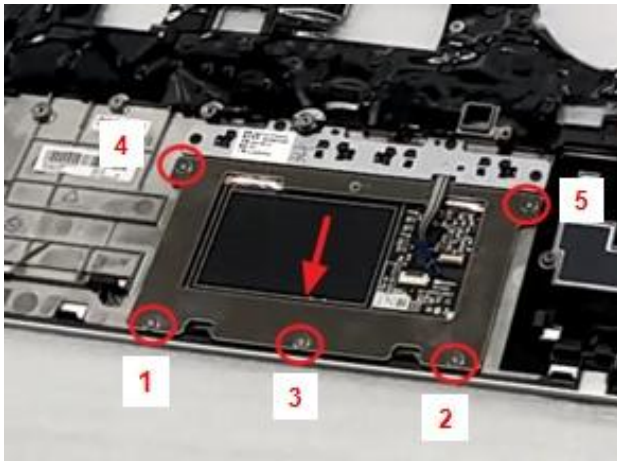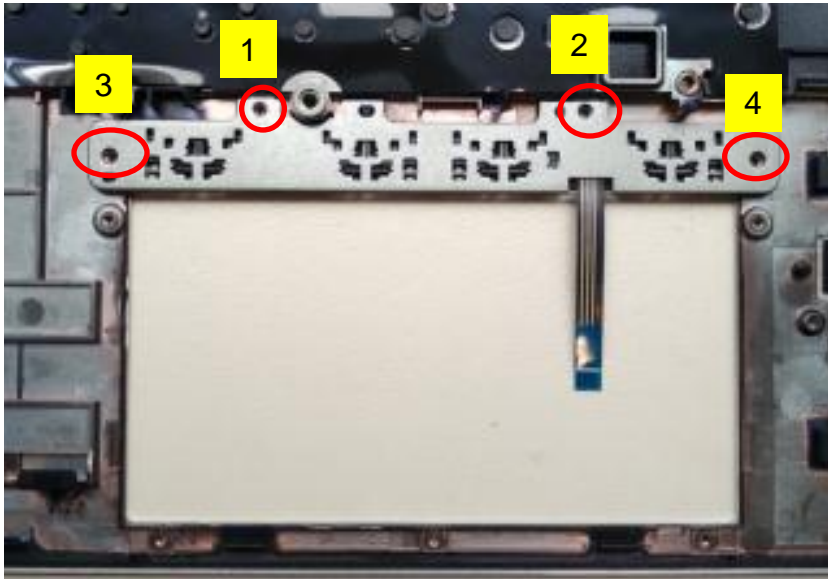
❖ Torsion：1.5 ± 0.2 kgf · cm

Fig.1

Fig.2

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

Holding fixture list (holding fixture standard)	Qty	Holding fixture list (holding fixture standard)	Qty
Electric cross screwdriver	1		

Tabulator：Vick Weng   Auditor :   C.S. Lee   Issue department : NPSU-PPE

Step：

1.Loosen Power/B screw*1(M2.0*3.0), then disassemble Power/B from top case(Fig.1).

2.Loosen click pad screw*5(M2.0*3.0), then disassemble click pad module from top case(Fig.2).

❖ Torsion：1.5±0.2 kgf · cm

Fig.1

Fig.2

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

Holding fixture list (holding fixture standard)	Qty	Holding fixture list (holding fixture standard)	Qty
Electric cross screwdriver	1		

Tabulator：Vick Weng   Auditor ： C.S. Lee   Issue department ： NPSU-PPE

Step：

1.Loosen screw*4(M2.0*2.0), then remove pick button.

Torsion：1.5 ± 0.2 kgf・cm

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

Holding fixture list (holding fixture standard)	Qty	Holding fixture list (holding fixture standard)	Qty
Electric cross screwdriver	1		

Tabulator：Vick Weng 　　　Auditor ： C.S. Lee 　　　Issue department : 　NPSU-PPE

Step：

1.Disassemble hinge cap in order.
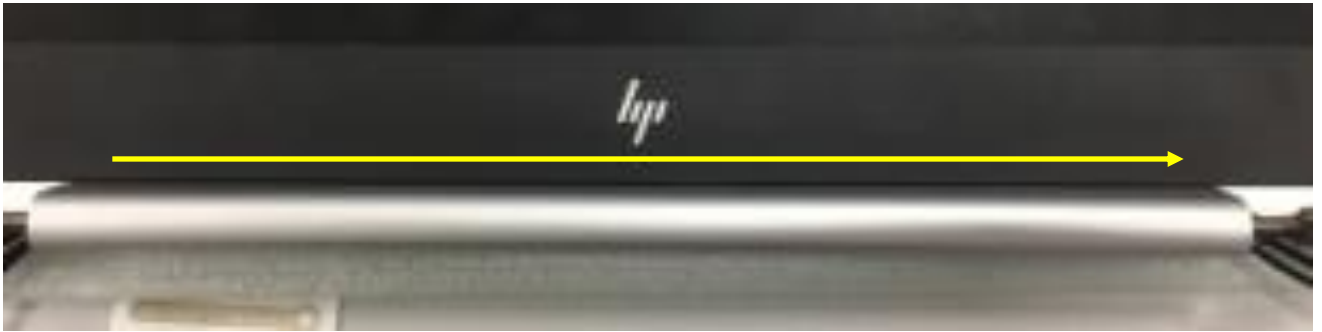
Notes : If finding anything uncommon, notice foreman or assistant at once.

Holding fixture list (holding fixture standard)	Qty	Holding fixture list (holding fixture standard)	Qty

Step：

1.Disassemble bezel in order.
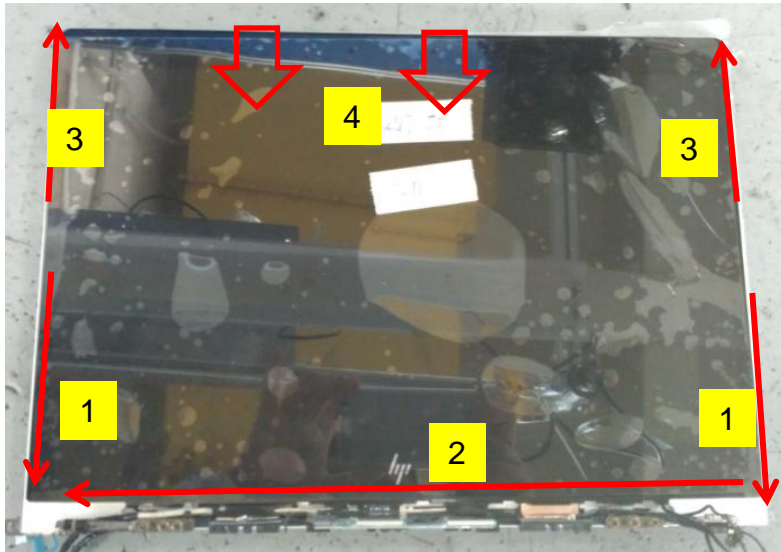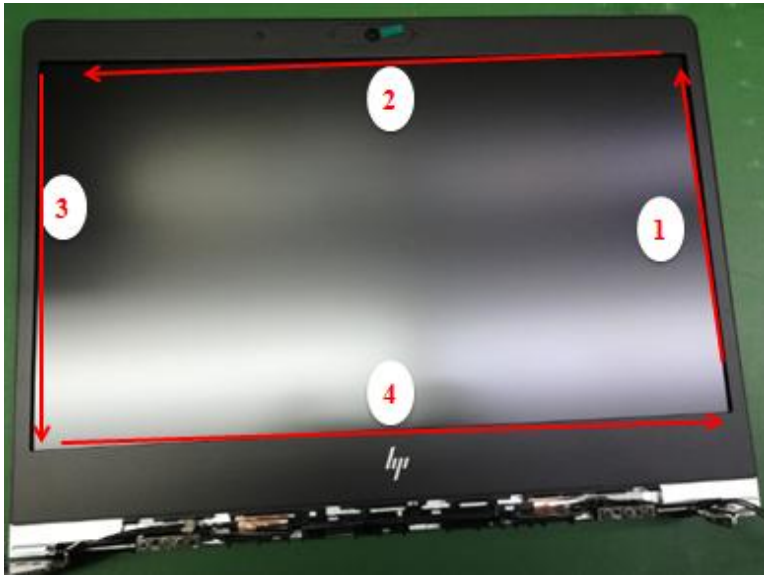
Notes : If finding anything uncommon, notice foreman or assistant at once.

Holding fixture list (holding fixture standard)	Qty	Holding fixture list (holding fixture standard)	Qty

Step :

1.Loosen panel screw*4(M2.0*2.0), then remove panel from rear case.

❖ Torsion : 2.0 ± 0.2 kgf‧cm

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

Holding fixture list (holding fixture standard)	Qty	Holding fixture list (holding fixture standard)	Qty
Electric cross screwdriver	1		

Tabulator : Vick Weng   Auditor : C.S. Lee   Issue department : NPSU-PPE

Step：

1.Disassemble LCM cable(Fig.1).

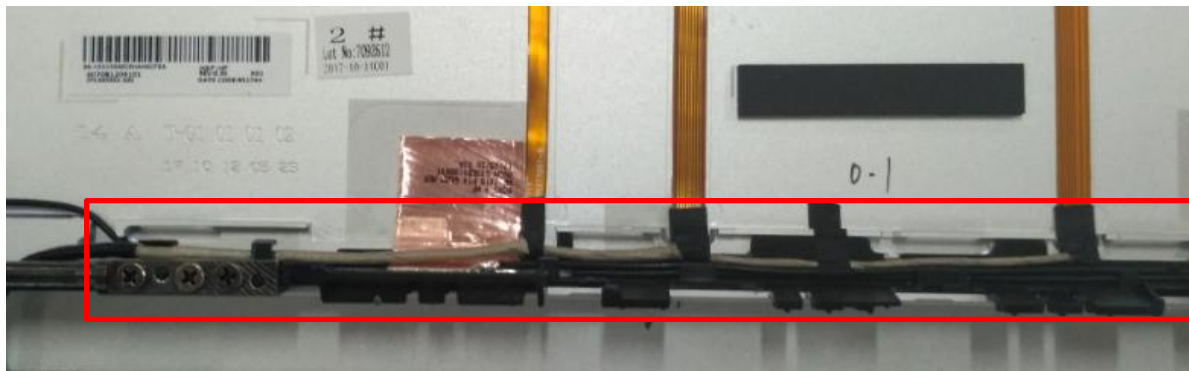2.Disassemble camera cable from hook(Fig.2).

Fig.1

Fig.2

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

Holding fixture list (holding fixture standard)	Qty	Holding fixture list (holding fixture standard)	Qty

Tabulator：Vick Weng   Auditor ： C.S. Lee   Issue department：NPSU-PPE

Step：

1.Disassemble camera cable.

2.Disassemble camera, ALS/B, MIC/B from rear case.

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

Holding fixture list (holding fixture standard)	Qty	Holding fixture list (holding fixture standard)	Qty

HF

ATTENTION

Step：

1. Disassemble WLAN cable from hook, then remove antenna from rear case(Fig.1/Fig.2).

2. Disassemble WWAN cable from hook, then remove antenna from rear case(Fig.3/Fig.4).

Fig.1

Fig.2

Fig.3

Fig.4

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

Holding fixture list (holding fixture standard)	Qty	Holding fixture list (holding fixture standard)	Qty

Tabulator：Vick Weng   Auditor ： C.S. Lee   Issue department：NPSU-PPE

HF

ATTENTION 2

Step：

1.Loosen hinge screw*6(M2.5*10), then disassemble hinge from rear case(Fig.1/Fig.2).
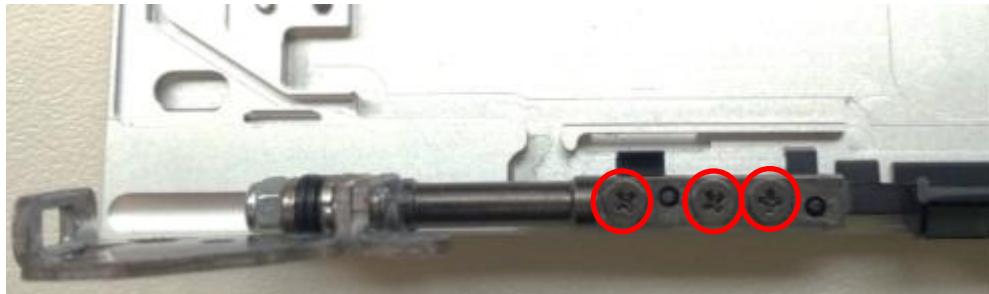
❖ Torsion：3.0±0.2 kgf・cm

Fig.1

Fig.2

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

Holding fixture list (holding fixture standard)	Qty	Holding fixture list (holding fixture standard)	Qty
Electric cross screwdriver	1		

Tabulator：Vick Weng   Auditor ： C.S. Lee   Issue department：NPSU-PPE