



Product End-of-Life Disassembly Instructions

Product Category: Notebook

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

HP Dragonfly 13.5 inch G4 Notebook PC ENERGY STAR
HP Dragonfly G4

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 Inc. products to remove components and materials requiring selective treatment, as defined by EU directive 2012/19/EC, Waste Electrical and Electronic Equipment (WEEE).

NOTE: Recyclers should sort plastic materials into resin streams for recycling based on the ISO 11469 plastic marking code on the plastic part. For any questions on plastic marking or identification of location of parts or components requiring selective treatment, please contact [HP's Sustainability Contact](#).

1.0 Items Requiring Selective Treatment

1.1 Items listed below are classified as requiring selective treatment. An "X" in the list of components and parts indicates the product contains the component or part requiring selective treatment

Item Description	Components and parts requiring selective treatments	Quantity of items included in product
Printed Circuit Boards (PCB) or Printed Circuit Assemblies (PCA) with a surface greater than 10 sq cm	☒ Main board (MB) PCB ☒ Solid state drive (SSD) PCB ☐ Wireless WAN module (WWAN) PCB ☒ External power supply (EPS) PCB ☐ External Keyboard (KB) ☐ External Mouse ☒ Others: touch pad, I/O board,	
Batteries, excluding Li-Ion batteries. This includes standard alkaline, coin or button style batteries	RTC battery	0
Li-Ion batteries. Includes all Li-Ion batteries if more than one is provided with the product (such as a detachable notebook keyboard battery, etc.)	Battery(ies) are attached to the product by: ☒ screws ☐ snaps ☐ adhesive ☐ other. Explain _____	1
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	☒ Panel LCD	1
Cathode Ray Tubes (CRT)		0

Item Description	Components and parts requiring selective treatments	Quantity of items included in product
Capacitors / condensers (Containing PCB/PCT)		0
Electrolytic Capacitors / Condensers measuring greater than 2.5 cm in diameter or height	[] Power Supply capacitor(s) or condenser(s)	0
External electrical cables and cords	[x] AC power cord [] Audio, video or data cables [] Other:	1
Gas Discharge Lamps		0
Plastics containing Brominated Flame Retardants (not including external electrical cables and cords, 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
Components containing chlorofluorocarbons (CFC), hydrochlorofluorocarbons (HCFC) or hydrofluorocarbons (HFC), hydrocarbons (HC)		0

2.0 Tools Required

List of 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)
[x] screwdriver	#00, #0, #1

3.0 Product Disassembly Process

3.1 List the basic steps that should typically be followed to remove components and materials requiring selective treatment including the required steps to remove the external enclosure.

1. Follow steps described in each operation name of Disassembly instruction in 3.2 section.
2. If parts can be removed without using a tool, remove it first.
3. Use correct screwdriver and torque value before unlock the screw.

NOTE - For disassembly instructions of the external power supply (EPS), external keyboard (KB) external mouse and external cables and cords, refer to the links below:

- [Generic External Power Supply \(EPS\)](#)
- [Generic cables and cords](#)

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

Sub-assembly name:	Disassemble SOP		
Written by:	shone	Revision:	0.10
Date:	2023/2/3	Page:	1 of 60

A.Current station version list:

Station	Version	Station	Version	Station	Version	Station	Version	Station	Version	Station	Version
1	0.10	10	0.10	19	0.10	28	0.10	37	0.10	46	0.10
2	0.10	11	0.10	20	0.10	29	0.10	38	0.10	47	0.10
3	0.10	12	0.10	21	0.10	30	0.10	39	0.10	48	0.10
4	0.10	13	0.10	22	0.10	31	0.10	40	0.10	49	0.10
5	0.10	14	0.10	23	0.10	32	0.10	41	0.10	50	0.10
6	0.10	15	0.10	24	0.10	33	0.10	42	0.10	51	0.10
7	0.10	16	0.10	25	0.10	34	0.10	43	0.10	52	0.10
8	0.10	17	0.10	26	0.10	35	0.10	44	0.10		
9	0.10	18	0.10	27	0.10	36	0.10	45	0.10		

B.Version Modify list:

[illegible]

审核: Zhou.gui-ling 编制: IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 1(1/1)
Operation name: Disassemble D Cover Ver : 0.10 Edit date: 2023/2/3

Step :

-  1. Loosen Base screw *4pcs as below
❖ Torque : 2.0 ± 0.2 kgf.cm
❖ screw can not be slipped.
-  2. Disassemble D Cover from machine



Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol							
T5 electric screwdriver	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling Issued : IE_department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP

station: 2(1/2)

Operation name: Wwan+4cell ,remove RF gasket

Ver : 0.10 Edit date: 2022/2/3

Step :

1. For 4cell+WWAN , remove gasket*6 as below

- Gasket-1: 30*4*9 : 6054B2709101
- Gasket-2: 68*4*9 : 6054B2709201
- Gasket-3: 18*5*6 : 6054B2709301



Notice: Please inform production line leader or master if you found any abnormal.

Fixture list (Spec.)	Qty	Symbol							
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling

Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP

station: 2(2/2)

Operation name: Wwan+6cell ,remove RF gasket

Ver : 0.10 Edit date: 2022/2/3

Step :

FOR WWAN SKU



1. For 6cell+WWAN , remove gasket*4 as below

➤ 30*5*1 , 2pcs , 6054B2710001

➤ 16*5*1 , 2pcs , 6054B2729201



Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol						
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do
								Static

Prepared : Zhou.gui-ling

Issued : IE department

Standard Operation Procedure

Sub-assembly name :
Operation name: Disassemble mylar

Disassemble SOP
Ver : 0.10

station: 3(1/2)
Edit date: 2023/2/3

Step :

-  1. Disassemble 1 pcs mylar from MB



Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol							
Lon fan	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling

Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP

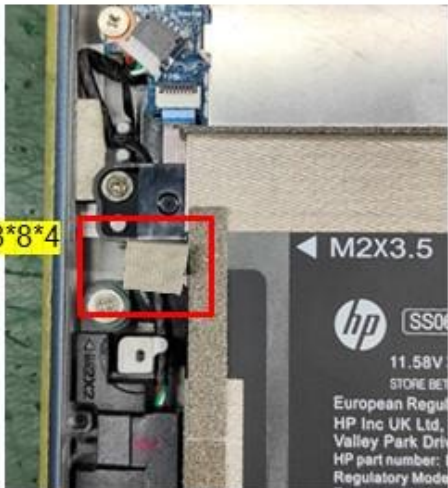
station: 3(2/2)

Operation name: Disassemble holder and Gasket

Ver : 0.10 Edit date: 2022/2/3

Step :

1. For WWAN , Disassemble gasket , (6054B0030501) pic 1
2. For 4cell battery , Disassemble holder*2 , (6051B1575501) pic 2



Pic 1



Pic 2

Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol						
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do
								Static

Prepared : Zhou.gui-ling

Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP

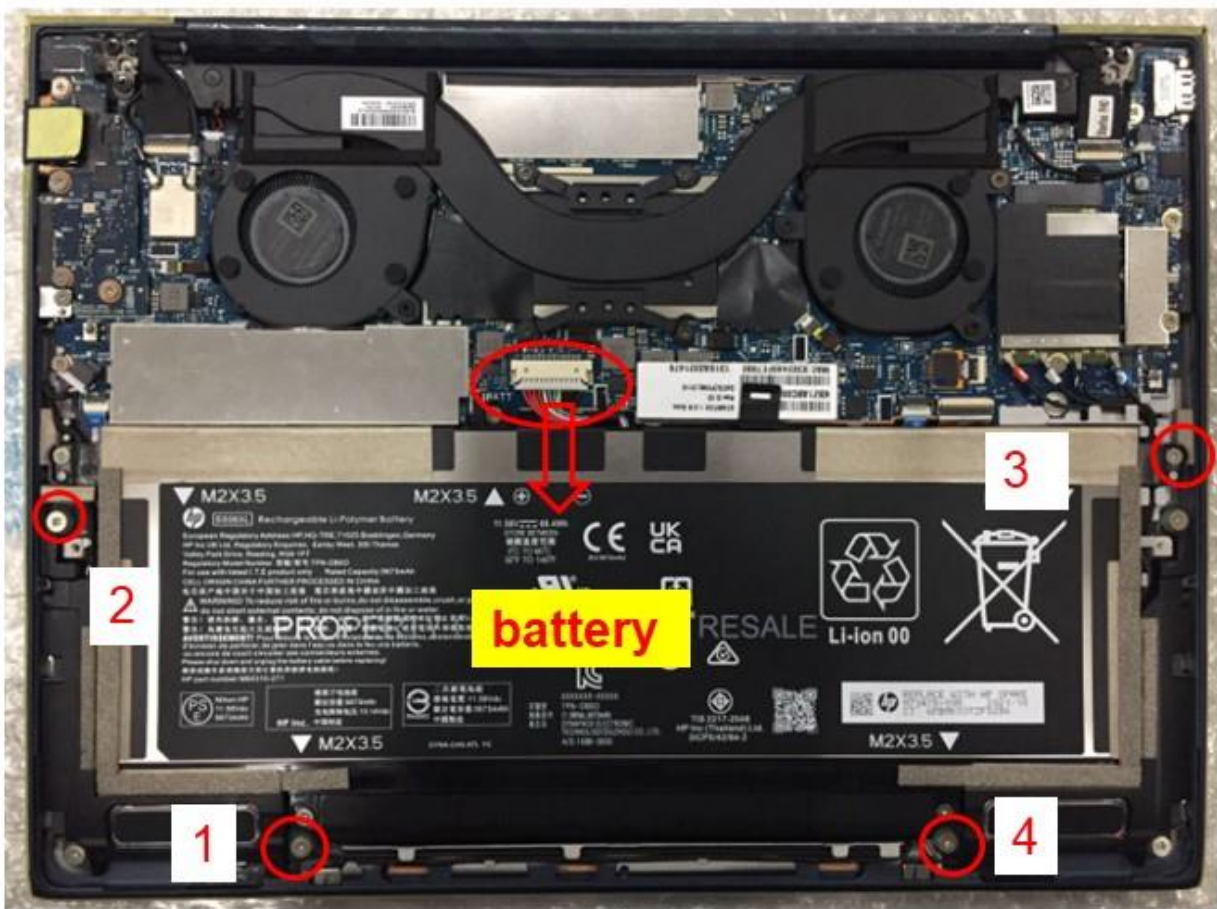
station: 4(1/1)

Operation name: Disassemble Battrey

Ver : 0.10 Edit date: 2023/2/3

Step :

-  1. Pullout battery CNTR.
 -  2. Disassemble battery Screw (6052B0619401)
*4 , recycle battery
- ❖ Torque : 1.5 ± 0.2 Kgf · cm
❖ screw can not be slipped.



Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (\$pec.)	Qty	Symbol							
electric screwdriver #0	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling

Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP

station: 5(1/2)

Operation name: WWAN Disassemble gasket

Ver : 0.10 Edit date: 2022/2/3

Step :

FOR WWAN SKU

1.1 For WWAN+6cell , remove gasket*2 from battery , Pic 1

P/N : 6054B2709901

1.2 For WWAN+4cell , remove gasket*2 from battery , Pic 2

P/N : 6054B2710001



Pic 1



Pic 2

Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol						
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do
								Static

Prepared : Zhou.gui-ling

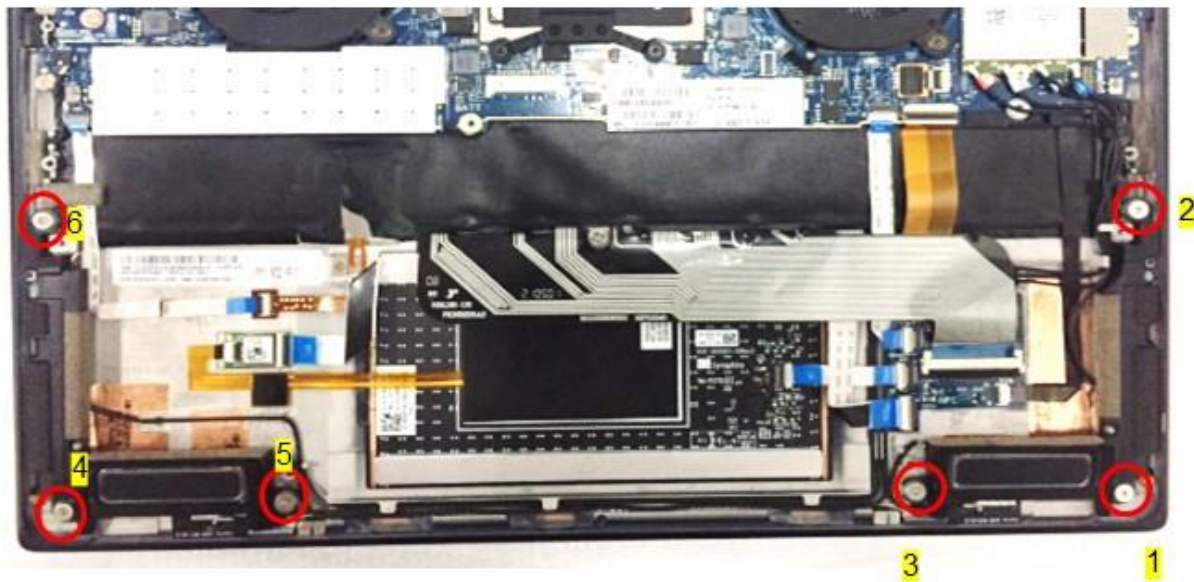
Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 6(1/1)
Operation name: Disassemble speaker screws Ver : 0.10 Edit date: 2023/2/3

Step :

-  1. Disassemble speaker screws(6052B0156201)*6
❖ Torque : 1.5 ± 0.2 Kgf · cm
❖ screw can not be slipped.



Notice: Please inform production line leader or master if you found any abnormal.

Fixture list (Spec.)	Qty	Symbol							
electric screwdriver #0	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling Issued : IE department

Standard Operation Procedure

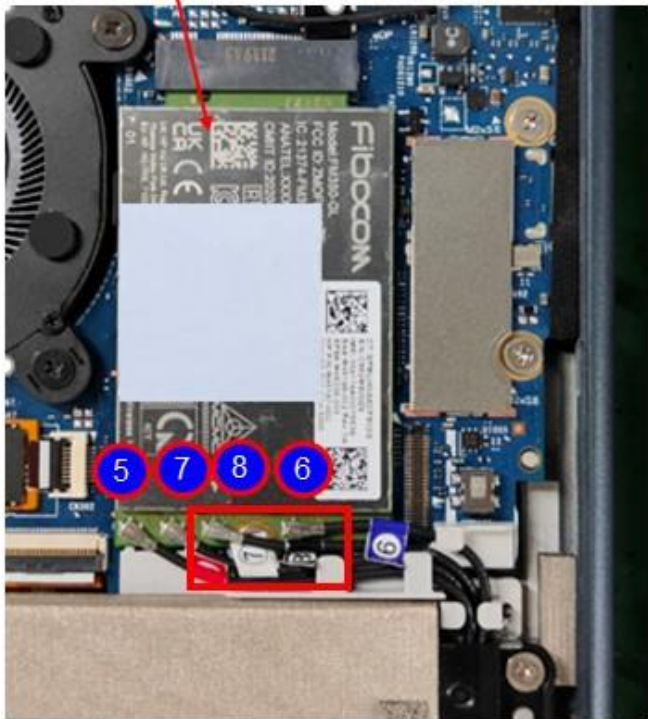
Sub-assembly name : Disassemble SOP station: 7(1/1)
Operation name: Disassemble Antenna CNTR Ver : 0.10 Edit date: 2023/2/3

Step :

FOR WWAN

- 1. Disassemble Antenna CNTR
- 2. Disassemble cable from Holder

WWAN Card



Notice: Please inform production line leader or master if you found any abnormal.

Fixture list (Spec.)	Qty	Symbol							
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 8(1/1)
Operation name: Disassemble Webcam cable&EDP cable Ver : 0.10 Edit date: 2023/2/3

Step :

- 1. Disassemble Webcam Cable CNTR (Pic.1)
- 2. Disassemble LCM cable CNTR(Pic.2)
 - For OLED panel , Disassemble LCM CNTR absorb (6054B2622801).
Disassemble LCM cable CNTR(Pic.3)



OLED : Disassemble LCM CNTR absorb



Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol							
									
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling Issued : IE department

Standard Operation Procedure

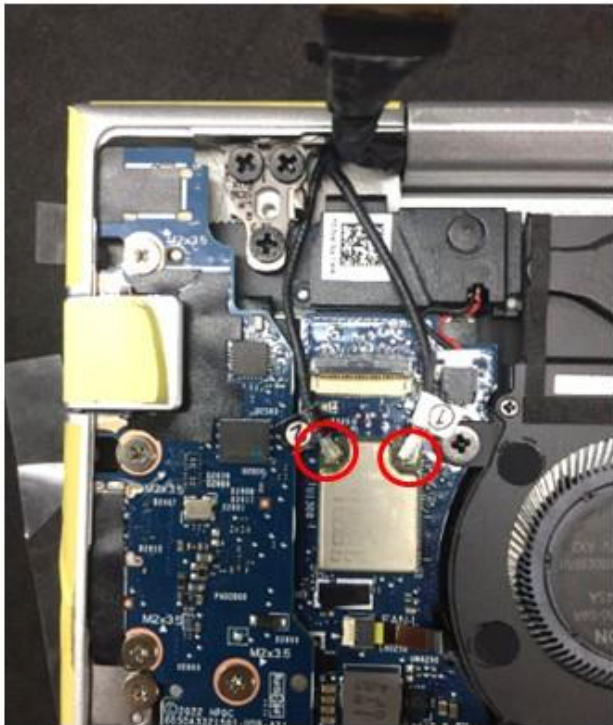
Sub-assembly name :
Operation name: Disassemble Wlan Antenna

Disassemble SOP
Ver : 0.10

station: 9(1/1)
Edit date: 2023/2/3

Step :

-  1. Disassemble Wlan Antenna CNTR.



Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol							
									
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling

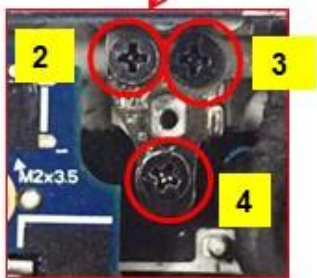
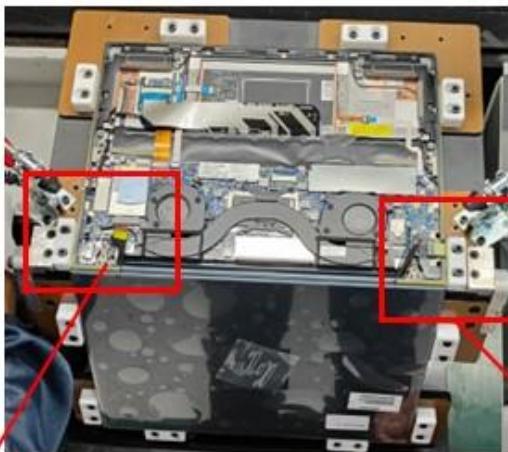
Issued : IE_department

Standard Operation Procedure

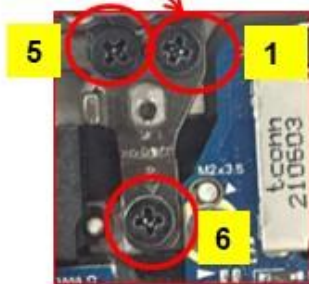
Sub-assembly name : Disassemble SOP station: 10(1/1)
Operation name: Disassemble Display Ver : 0.10 Edit date: 2023/2/3

Step :

-  1. Put unit on support Fixture
-  2. Keep Display at 160 degrees angle opened, Disassemble Hinge bracket Screws of left and right Side (6052A0019002)*6(pic.1 / pic.2).
 - ❖ Torque : 2.8+0/-0.2 Kgf · cm
 - ❖ screw can not be slipped.
-  3. Disassemble Display from system.



Pic 1



Pic 2

Notice: Please inform production line leader or master if you found any abnormal.

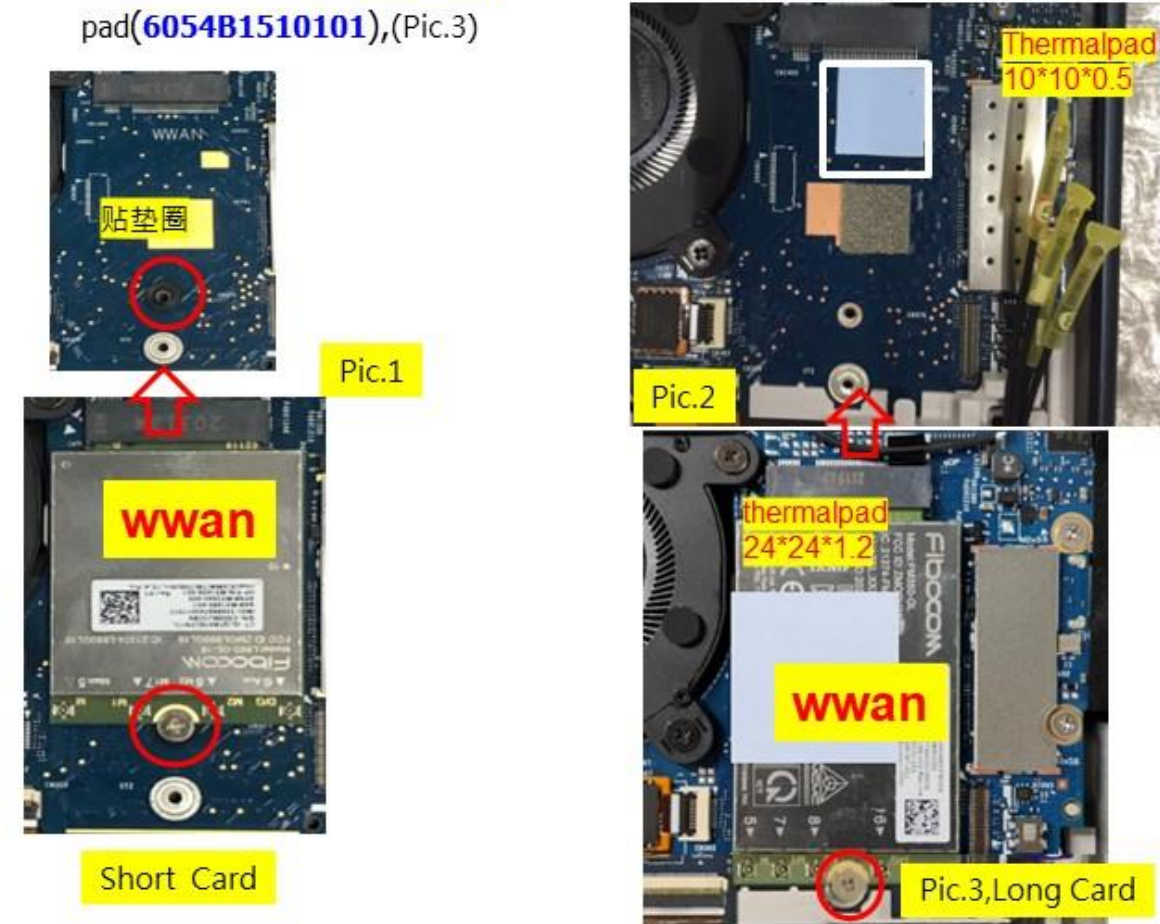
Fixture list (\$pec.)	Qty	Symbol							
Top & LCM Support fixture electric screwdriver #1	1								
	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling Issued : IE_department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 11(1/1)
Operation name: Disassemble WWAN Card Ver : 0.10 Edit date: 2023/2/3

- 1. Disassemble WWAN Card ScrewM2X3.5(6052B0619401), (Pic.1, Pic.3)
❖ Torque : 1.5± 0.2 Kgf · cm
❖ screw can not be slipped.
- 2.1 For 4G WWAN(Short Card),Take out 4G Card,Disassemble space(6051B1511001).(Pic.1)
- 2.2 For 5G WWAN(Long Card) , Take out 5G Card,Disassemble thermal pad(6054B1510101),(Pic.3)



Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (\$pec.)	Qty	Symbol							
electric screwdriver #0	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP

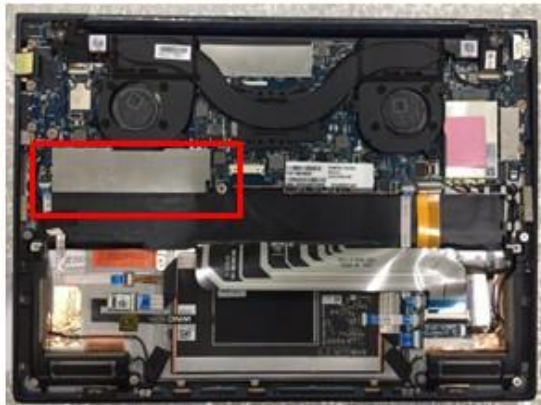
station: 12(1/1)

Operation name: Disassemble SSD

Ver : 0.10 Edit date: 2023/2/3

Step :

1. Put dut on support fixture (Pic.1)
 2. For Wwan Module, Disassemble SSD Shielding(6053B1951701) ,(Pic.3)
 3. Disassemble SSD Screw M2 x 3.5L (6052B0619401)*1 (Pic.2) ,Take SSD out from MB
- ❖ Torque : 1.5 ± 0.2 Kgf · cm
- ❖ screw can not be slipped.



Pic.1



Pic.2



Pic.3,For Wwan module

Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (\$pec.)	Qty	Symbol							
electric screwdriver #0	1	+	◆	●	🔧	🔍	👁️	👤	⚡
SSD shielding assemble fixture	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling

Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 13(1/1)
Operation name: Disassemble Fan Cable Ver : 0.10 Edit date: 2023/2/3

Step :

- 1. Disassemble FAN FFC CNTR from M (Pic.1)
- 2. For G4 SSD module, Disassemble thermal pad(6054B2627301) from M/B(Pic.2)



Pic.1



Pic.1

For G4 SSD module , disassemble thermal pad(20*35*0.75)

Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (\$pec.)	Qty	Symbol							
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

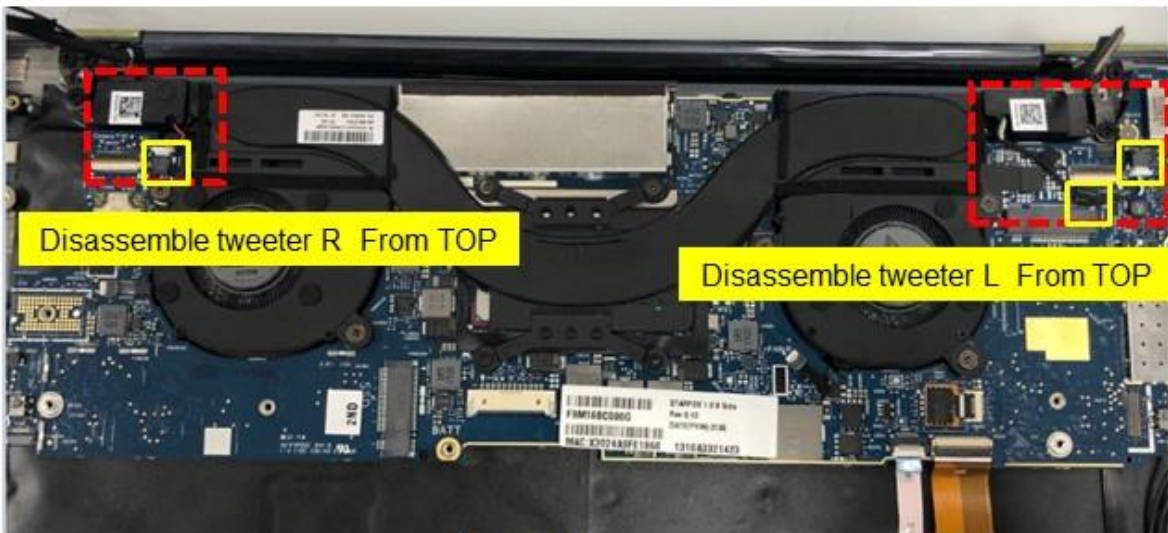
Prepared : Zhou.gui-ling Issued : IE_department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 14 (1/1)
Operation name: Disassemble speaker tweeter Ver : 0.10 Edit date: 2023/2/3

Step :

-  1. Disassemble speaker tweeter L from TOP(Pic.1)
-  2. Disassemble speaker tweeter R from TOP(Pic.1)



Pic.1

Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol							
									
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP

station: 15(1/1)

Operation name: Disassemble USB/B&drop jaw

Ver : 0.10 Edit date: 2023/2/3

Step :



1. Pullout Drop jaw from USB/B CNTR (Pic.1)



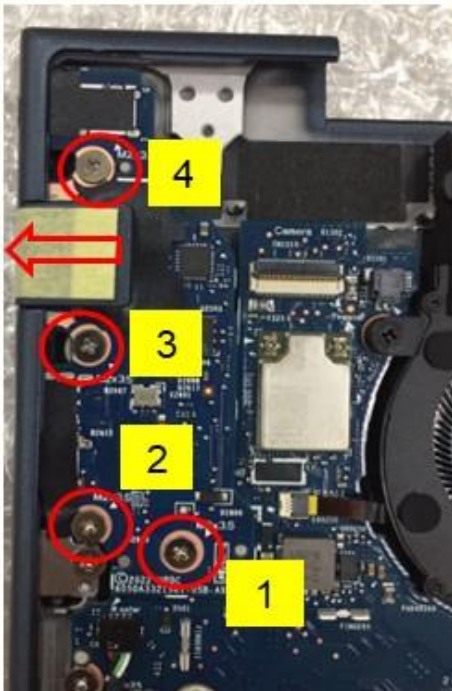
2. Disassemble USB/B screwM2 x 3.5
(6052B0619401) * 4(Pic.1).

❖ Torque : 1.5 ± 0.2 Kg $\cdot$ cm

❖ screw can not be slipped.



3. Disassemble USB/B from top(Pic.2)



Pic.1



Pic.2

Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol							
electric screwdriver #0	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling

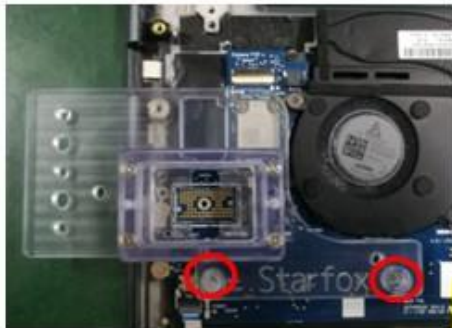
Issued : IE department

Standard Operation Procedure

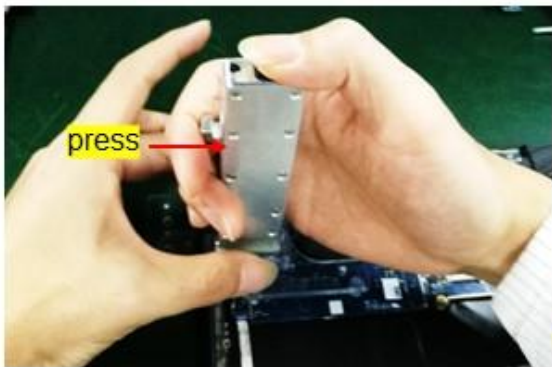
Sub-assembly name : Disassemble SOP station: 16(1/1)
Operation name: Disassemble interposer Ver : 0.10 Edit date: 2023/2/3

Step :

- 1.Take interposer positioning fixture on dut(Pic.1)
- 2. Use take put fixture Vertically into the positioning fixture hole, Take interposer/B (6012B1312201) out from M/B(Pic.2/Pic.3)



Pic.1



Pic.3



Pic.2

Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (\$pec.)	Qty	Symbol							
Interposer position fixture	1								
Interposer assemble fixture	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling Issued : IE department

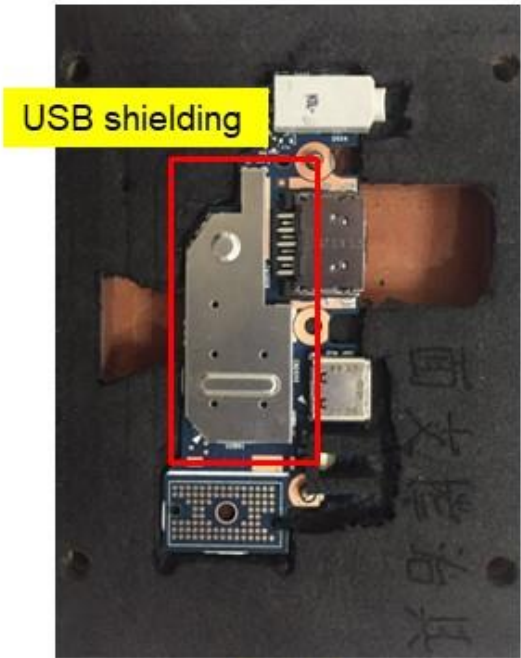
Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 17(1/1)
Operation name: Disassemble USB/B shielding&Wwan Ver : 0.10 Edit date: 2023/2/3

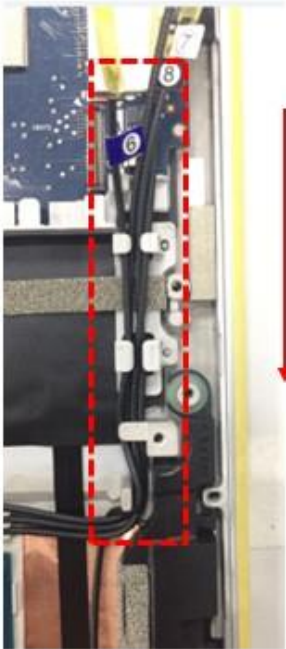
Antenna

Step : **FOR WWAN model**

- 1. Disassemble shielding can(6053B1951301) from USB.(Pic.1)
- 2. Disassemble Wwan Antenna.(Pic.2)



Pic.1



Pic.2

Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (\$pec.)	Qty	Symbol							
USB/B B support fixture	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling Issued : IE department

Standard Operation Procedure

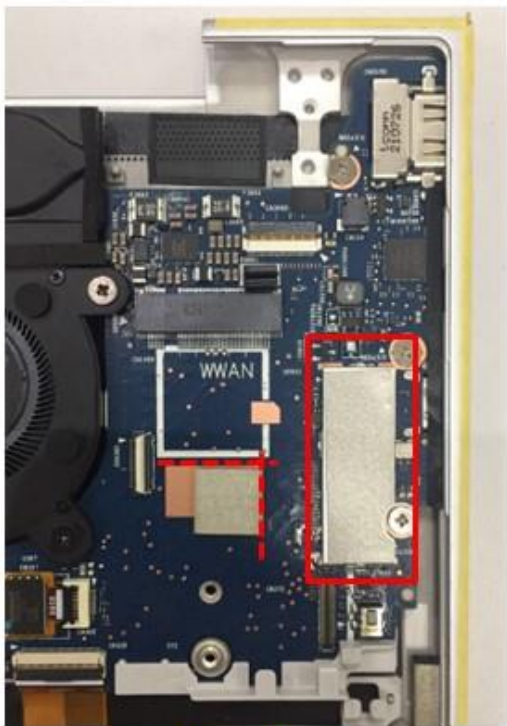
Sub-assembly name : Disassemble SOP station: 18(1/1)
Operation name: (For WWAN) Disassemble shielding& Ver : 0.10 Edit date: 2023/2/3

Gasket

Step :

FOR WWAN model

- 1. Disassemble shielding can (6053B1951501) from MB.(Pic.1)
- 2. Disassemble Gasket from MB(Pic.1)
- 3.Pullout Speaker CNTR (Pic.2)



Pic.1



Pic.2

Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol							
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

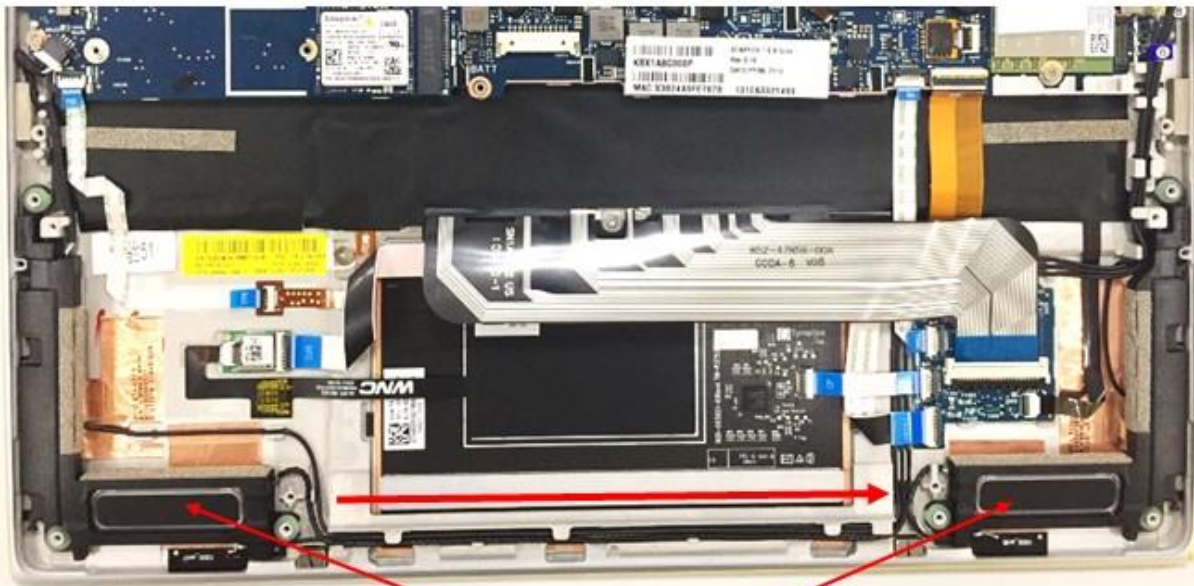
Prepared : Zhou.gui-ling Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 19(1/2)
Operation name: Disassemble speaker Cable Ver : 0.10 Edit date: 2023/2/3

Step :

-  1. Disassemble speaker cable from left to right and recycle speaker



Speaker Cable

Notice: Please inform production line leader or master if you found any abnormal.

Fixture list (Spec.)	Qty	Symbol							
electric screwdriver #0	1								
		Safe	Quality	Order	Fixture	Hear	Look	Do	Static

Prepared : Zhou.gui-ling Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 19(2/2)
Operation name: Disassemble finger FFC Ver : 0.10 Edit date: 2023/2/3

Step :

-  1. Disassemble FFC from MB, then, Disassemble FFC From Finger CNTR.



Notice: Please inform production line leader or master if you found any abnormal.

Fixture list (Spec.)	Qty	Symbol							
									
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

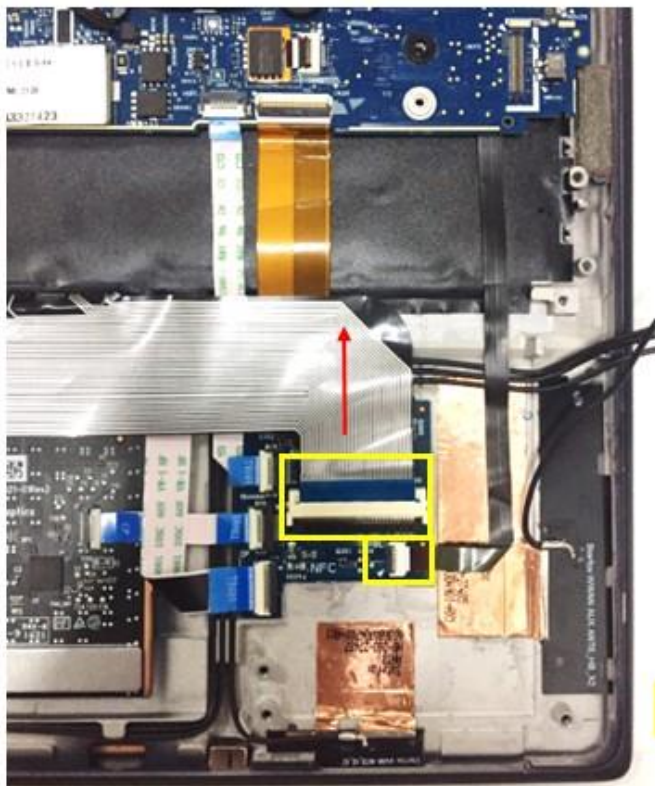
Prepared : Zhou.gui-ling Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 20(1/1)
Operation name: Disassemble KB FPC & BL FPC Ver : 0.10 Edit date: 2023/2/3

Step :

-  1. Disassemble K/B membrane from transfer/B CNTR (Pic.1)
-  2. Disassemble BL FPC from tranfer/B(Pic.1)



Pic.1

Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol							
									
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

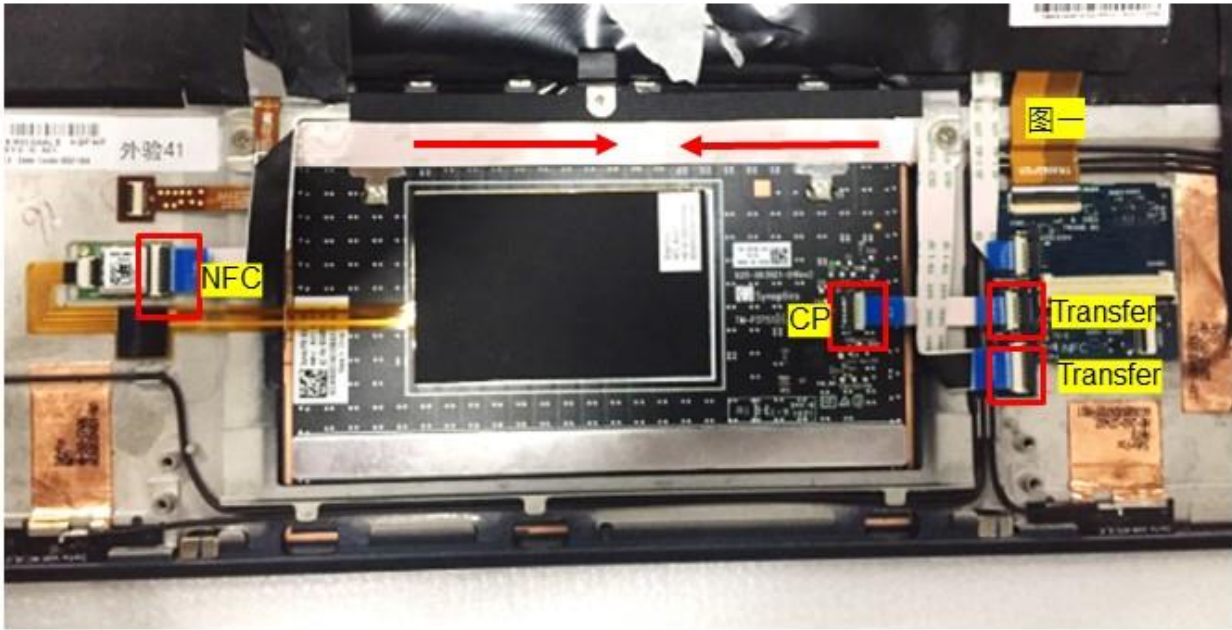
Prepared : Zhou.gui-ling Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 21(1/1)
Operation name: Disassemble Click pad FFC& NFC FFC Ver : 0.10 Edit date: 2023/2/3

Step :

- 1. Disassemble Click pad FFC
- 2. (For NFC Module), Disassemble NFC FFC from NFC Module and Transfer/B



Notice: Please inform production line leader or master if you found any abnormal.

Fixture list (Spec.)	Qty	Symbol						
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do
								Static

Prepared : Zhou.gui-ling Issued : IE department

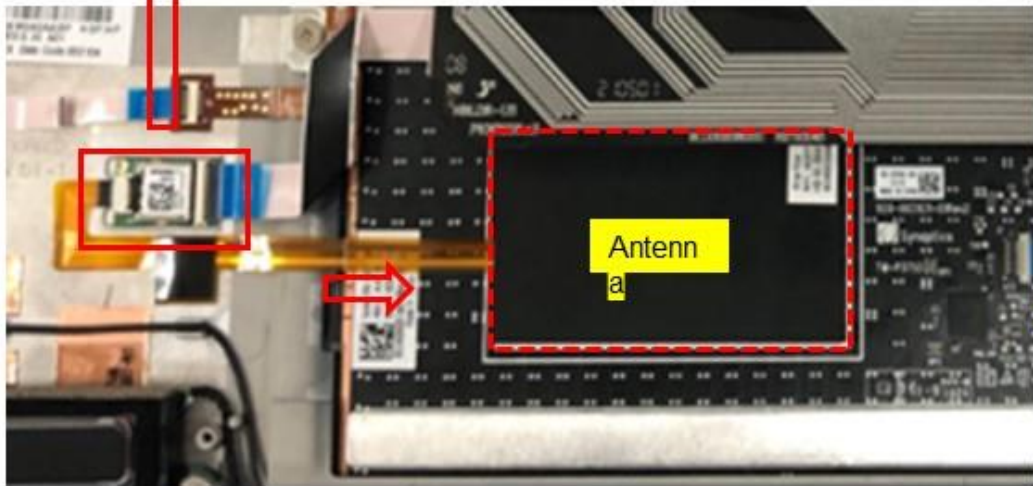
Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 22(1/1)
Operation name: Disassemble NFC Ver : 0.10 Edit date: 2023/2/3

Step :

FOR NFC 机型

- 1. Disassemble NFC Modue(6042B0386301) from top.
- 2. Disassemble NFC antenna from click pad.



Pic.1

Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol							
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

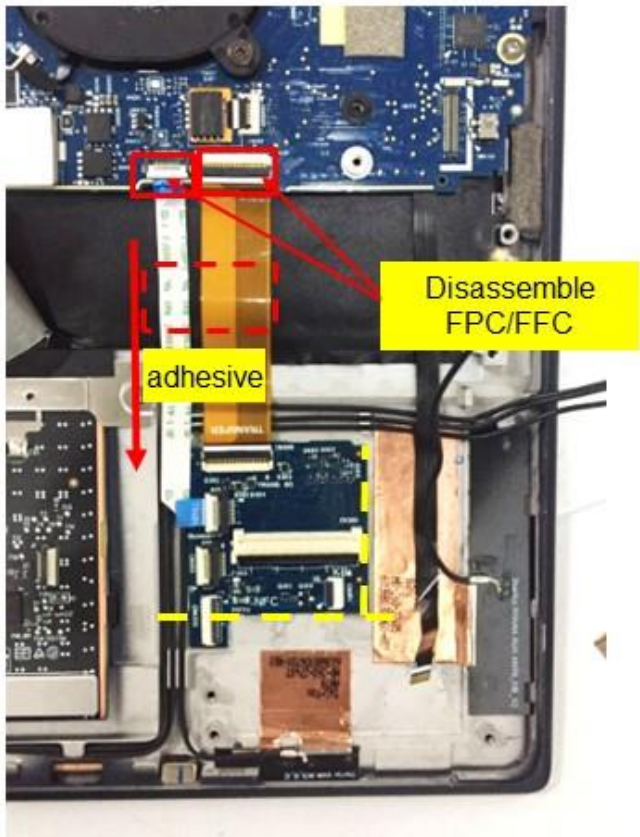
Prepared : Zhou.gui-ling Issued : IE department

Standard Operation Procedure

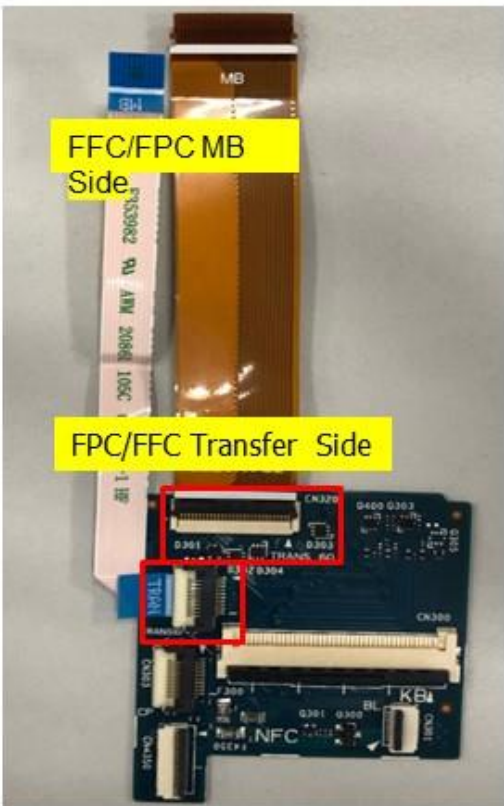
Sub-assembly name : Disassemble SOP station: 23(1/1)
Operation name: Disassemble transfer/B&FPC Ver : 0.10 Edit date: 2023/2/3

Step :

- 1. Disassemble FPC CNTR From MB(Pic.1)
- 2. Disassemble FFC transfer from MB (Pic.1)
- 3. Disassemble transfer/B module from Top (Pic.2)



Pic.1



Pic.2

Notice: Please inform production line leader or master if you found any abnormal.

Fixture list (Spec.)	Qty	Symbol							
Lon fan	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

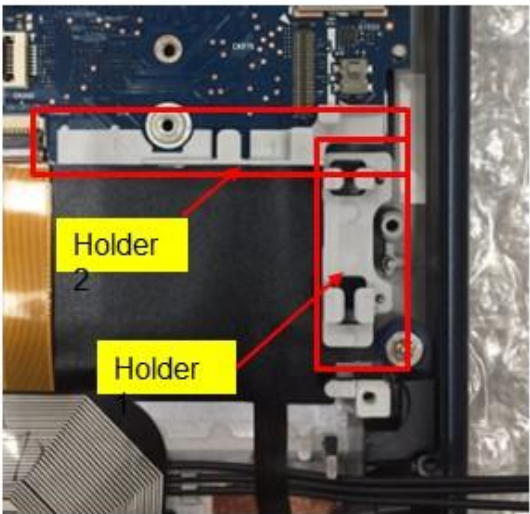
Prepared : Zhou.gui-ling Issued : IE department

Standard Operation Procedure

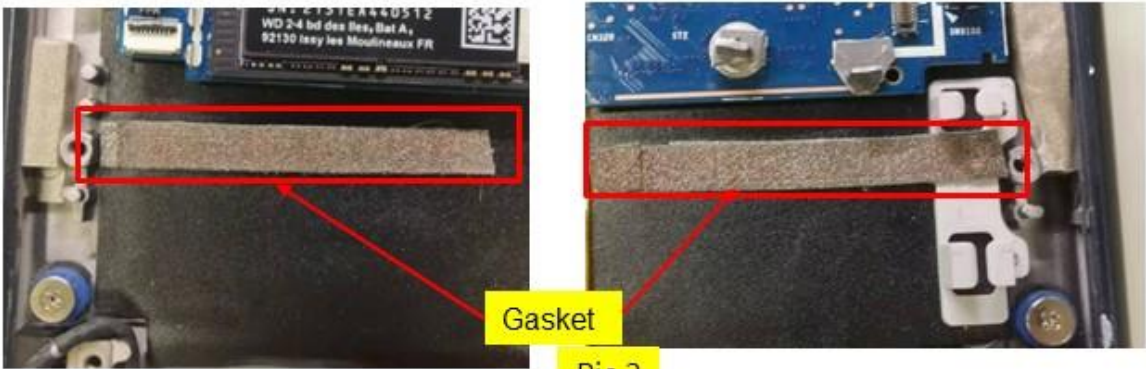
Sub-assembly name : Disassemble SOP station: 24(1/1)
Operation name: Disassemble WWAN holder & gasket Ver : 0.10 Edit date: 2023/2/3

Step : FOR WWAN model

- 1.Disassemble Wwan Holder 1(6051B1510601)(Pic.1)
- 2.Disassemble Wwan Hodler 2(6051B1510701)(Pic.1)
- 3.Disassemble gasket*2 from top(Pic.2)



Pic.1



Pic.2

Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol							
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling Issued : IE department

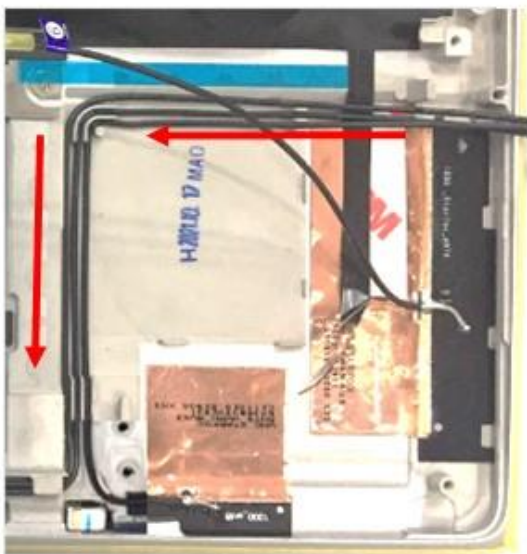
Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 25(1/1)
Operation name: Disassemble WWAN Antenna cable Ver : 0.10 Edit date: 2023/2/3

Step :

FOR WWAN model

1. Disassemble Wwan antenna cable



Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol							
									
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

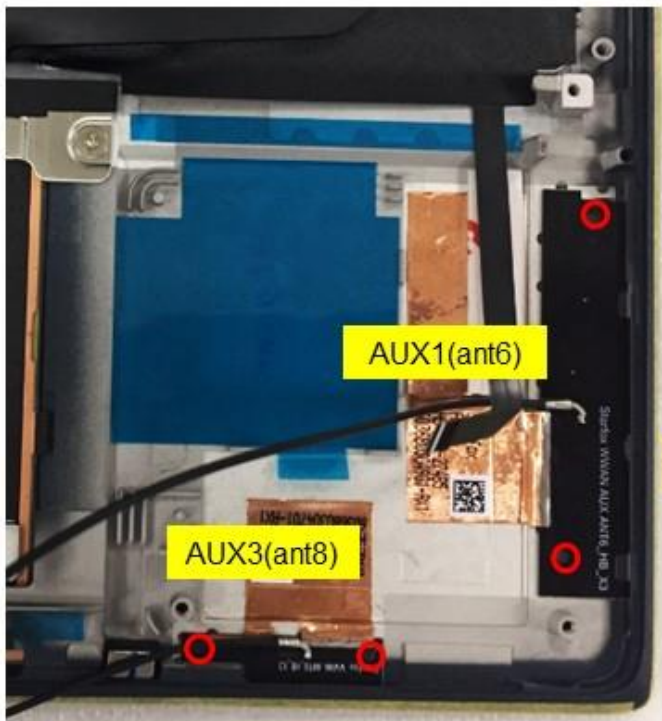
Prepared : Zhou.gui-ling Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 26(1/1)
Operation name: Disassemble WWAN Antenna-Aux Ver : 0.10 Edit date: 2023/2/3

Step : **FOR WWAN model**

-  1. Disassemble WWAN Antenna Aux1 from top (Pic.1).
-  2. Disassemble WWAN Antenna Aux3 FROM TOP (Pic.1).



Pic.1

Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (\$pec.)	Qty	Symbol							
									
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling Issued : IE department

Standard Operation Procedure

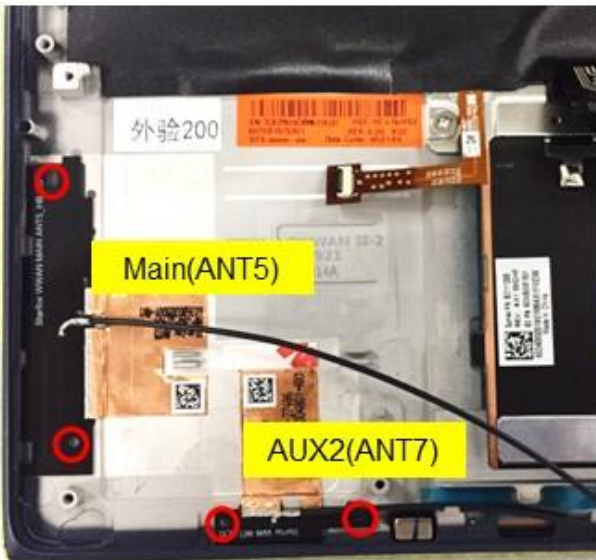
Sub-assembly name : Disassemble SOP station: 27(1/1)
Operation name: Disassemble WWAN Antenna- Ver : 0.10 Edit date: 2023/2/3

Main&aux

Step :

FOR WWAN model

- 1. Disassemble WWAN Antenna Main (Pic.1).
- 2. 从Top上撕WWAN Antenna Aux2 (Pic.1).



Pic.1

Notice: Please inform production line leader or master if you found any abnormal.

Fixture list (Spec.)	Qty	Symbol							
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 28(1/1)
Operation name: Disassemble Fan Screw Ver : 0.10 Edit date: 2023/2/3

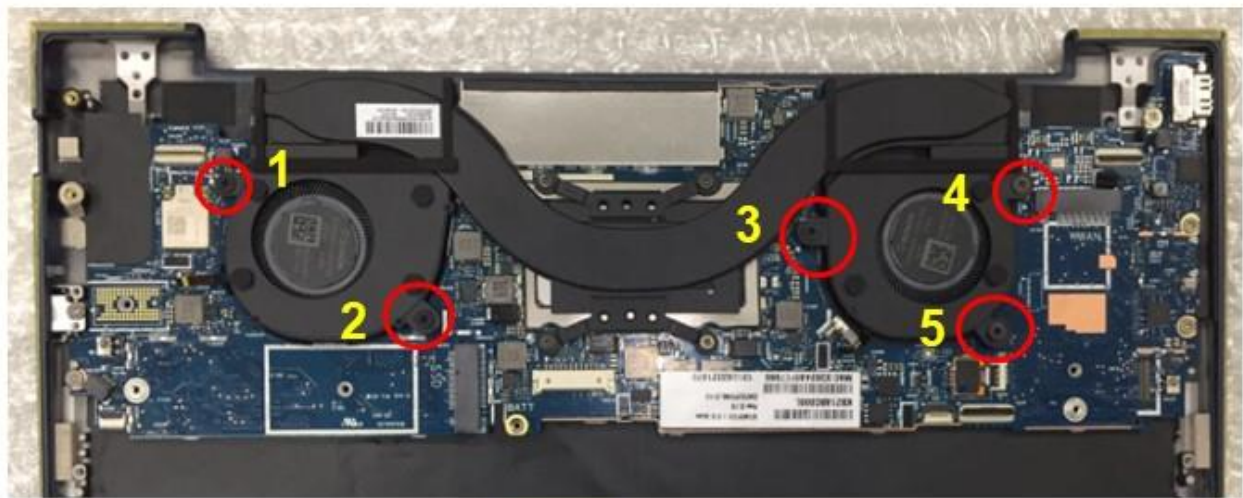
Step :



1. Loosen Fan Set Screw* 5 (Pic.1)

❖ Torque : 1.5 ± 0.2 Kg $\cdot$ cm

❖ screw can not be slipped.



Pic.1

Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (\$pec.)	Qty	Symbol							
electric screwdriver #0	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling Issued : IE department

Standard Operation Procedure

Sub-assembly name :
Operation name: Disassemble M/B Screw

Disassemble SOP
Ver : 0.10

station: 29(1/1)
Edit date: 2023/2/3

Step :

-  1. Disassemble M/B Screw M2 x 3.5(6052B0619401)
*4(Pic.1)
❖ Torque : 1.5± 0.2 Kgf · cm
❖ screw can not be slipped.
-  2. Take M/B out from Top (Pic.1).



Pic.1

Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (\$pec.)	Qty	Symbol							
electric screwdriver #0	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

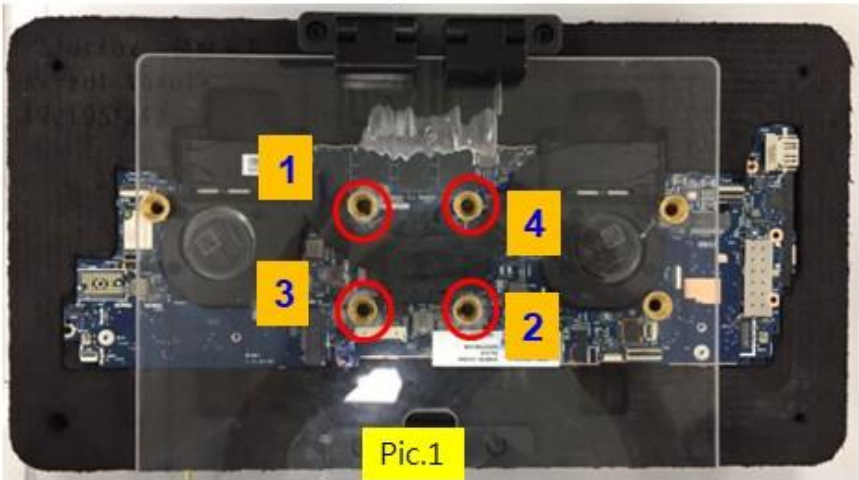
Prepared : Zhou.gui-ling

Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 30(1/1)
Operation nameDisassemble thermal & Screw Ver : 0.10 Edit date: 2023/2/3

- 1. Put MB into thermal module Fasten fixture.
- 2. Loosen thermal SET Screw * 4(Pic.1)
❖ Torque : 1.5 ± 0.2 Kgf · cm
❖ screw can not be slipped.
- 3. Take thermal module out Fasten fixture(Pic.2)
- 4. (WWAN SKU)Disassemble Absorber material (6054B2583201) from PCB (Pic.3)
- 5. Take M/B out from fixture.



Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (\$pec.)	Qty	Symbol							
Thermal fasten fixture electric screwdriver #0	1								
	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

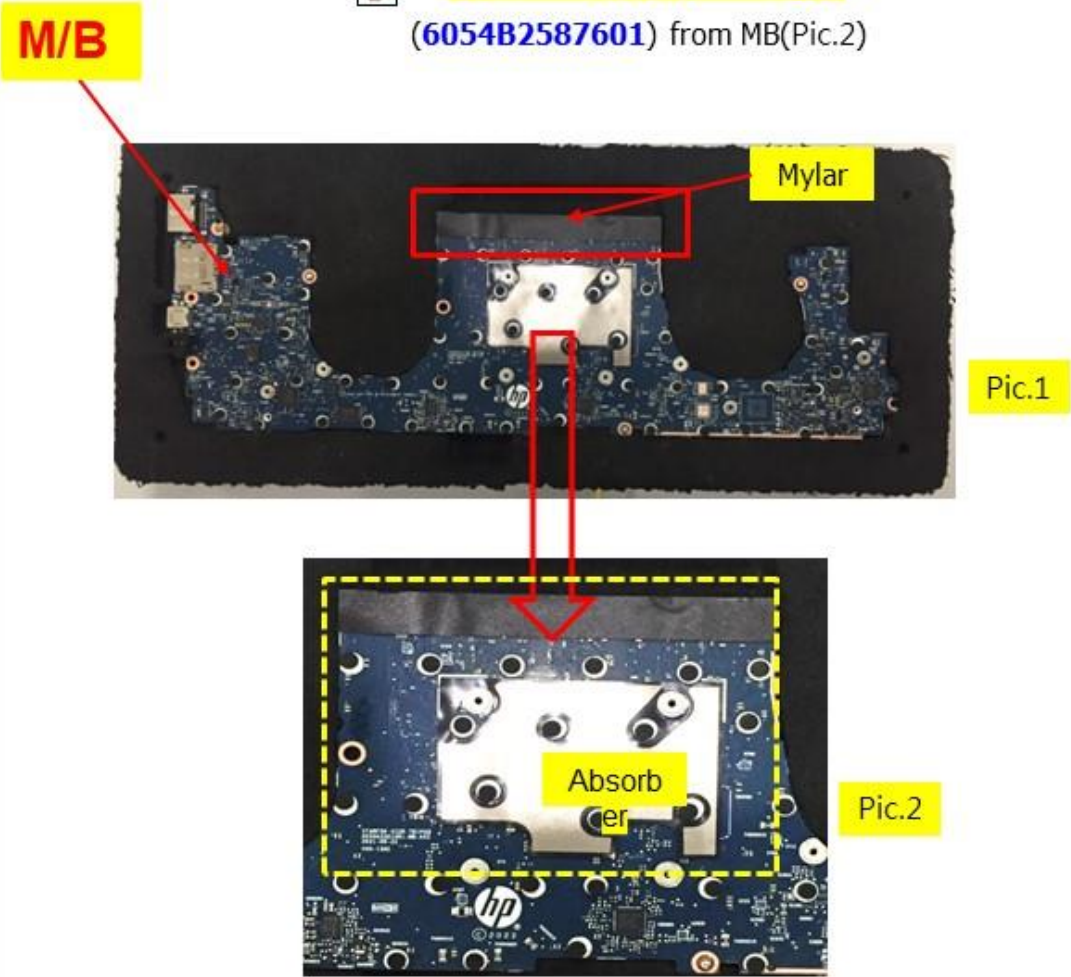
Prepared : Zhou.gui-ling Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 31(1/1)
Operation name: Disassemble Mylar & Absorber Ver : 0.10 Edit date: 2023/2/3

Step :

- 1.Put MB into support fixture (Pic.1)
- 2.Disassemble Mylar from M/B(6054B2586801)(Pic.2)
- 3.(For WWAN Sku)Disassemble absorber (6054B2587601) from MB(Pic.2)



Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol							
MB B Side support fixture	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling Issued : IE department

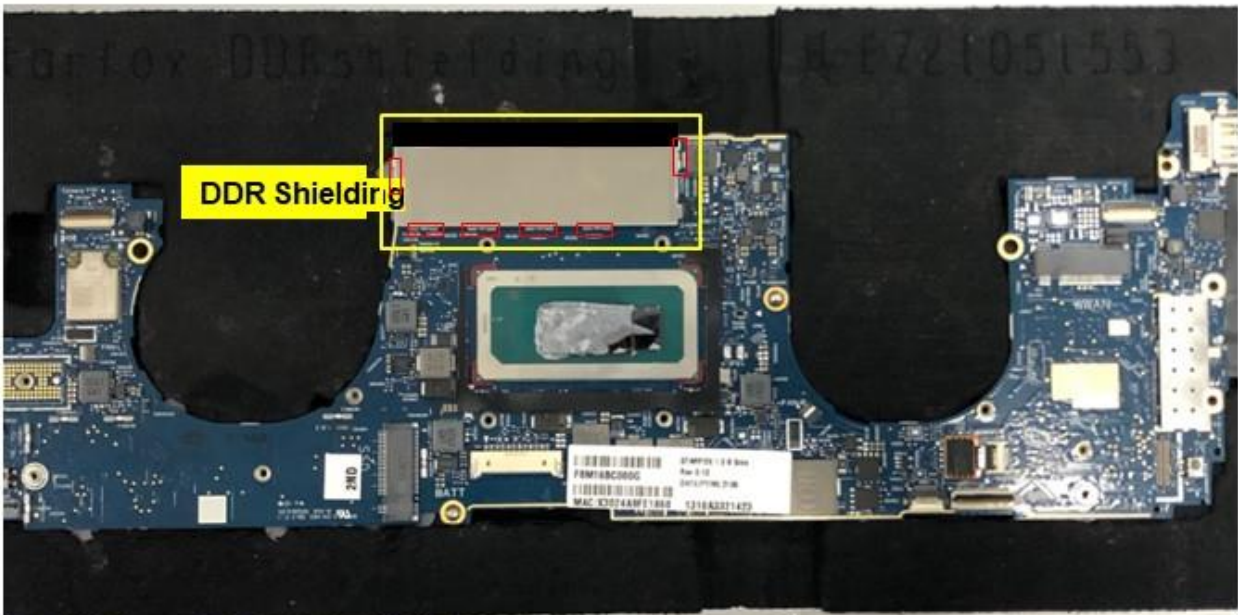
Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 32(1/1)
Operation name: Disassemble DDR shielding can Ver : 0.10 Edit date: 2023/2/3

Step :

(For wwan Sku)

-  1. Disassemble DDR shielding from MB



Notice: Please inform production line leader or master if you found any abnormal.

Fixture list (Spec.)	Qty	Symbol							
DDR shielding assemble fixture									
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling Issued : IE department

Standard Operation Procedure

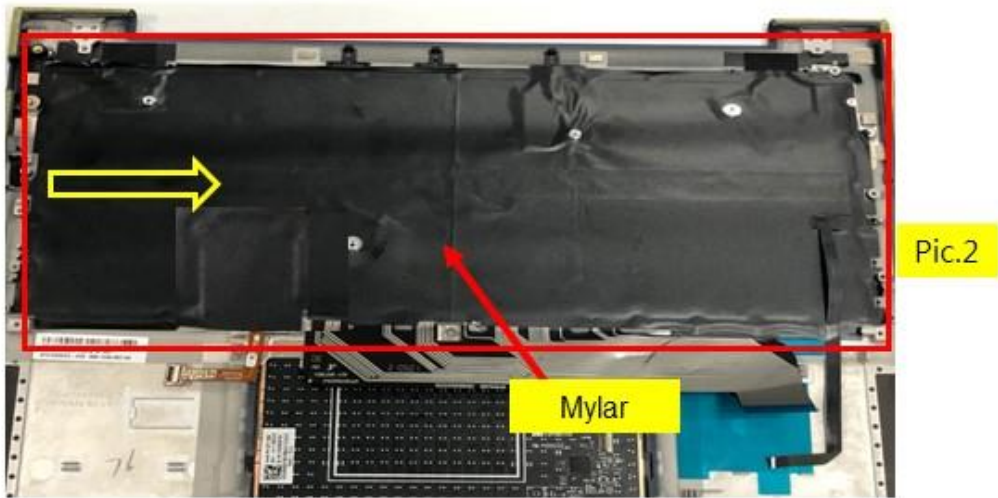
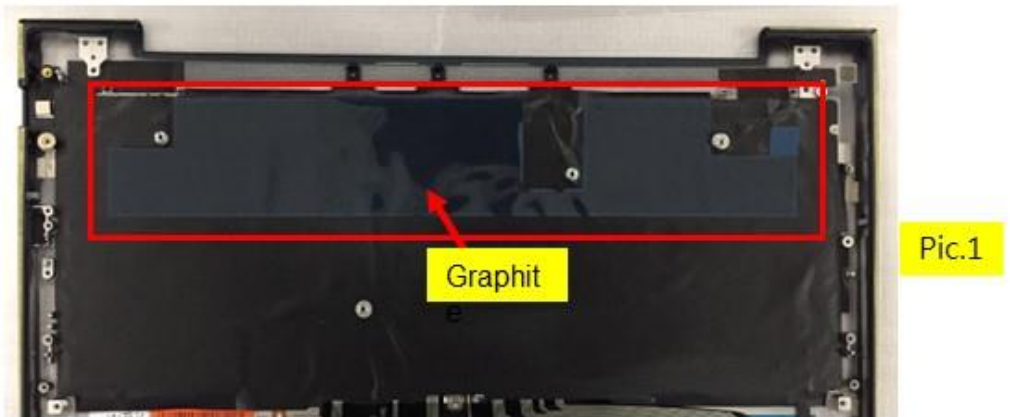
Sub-assembly name :
Operation name: Disassemble graphite& Mylar

Disassemble SOP
Ver : 0.10

station: 33(1/1)
Edit date: 2023/2/3

Step :

-  1. Disassemble KB graphite (**6054B2578301**) from top(pic 1)
-  2. Disassemble KB Mylar(**6054B2587101**) from top



Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol							
									
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling

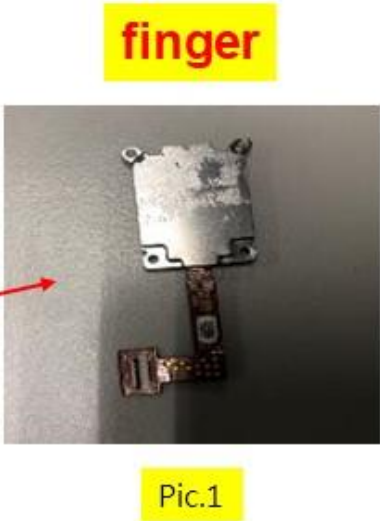
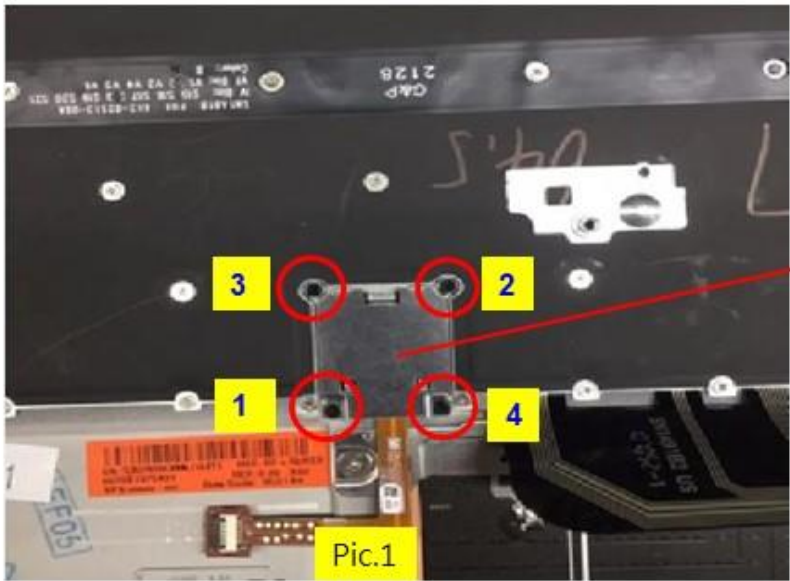
Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 34(1/1)
Operation name: Disassemble FPS Screw Ver : 0.10 Edit date: 2023/2/3

Step :

- 1. Take top module on support fixture
 - 2. Disassemble Screw(**6052B0457902**) *4
(Pic.1).
- ❖ Torque : 0.5+0/-0.2 Kgf · cm
❖ screw can not be slipped



Notice: Please inform production line leader or master if you found any abnormal.

Fixture list (\$pec.)	Qty	Symbol							
electric screwdriver #00	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

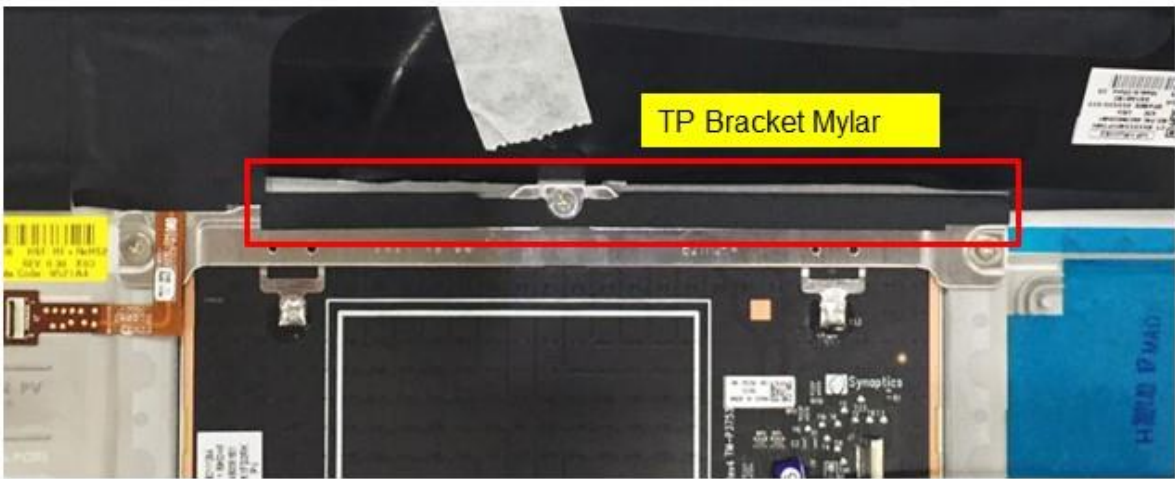
Prepared : Zhou.gui-ling Issued : IE_department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 35(1/2)
Operation name: Disassemble TP BRKT Mylar Ver : 0.10 Edit date: 2023/2/3

Step :

-  1. Disassemble mylar from (6054B2587001) TP bracket



Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol							
									
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

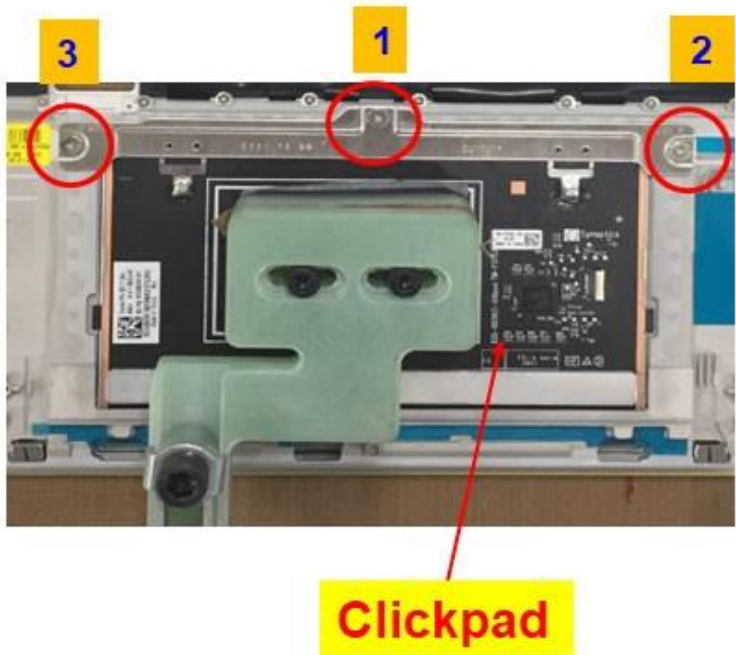
Prepared : Zhou.gui-ling Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 35(2/2)
Operation name: Disassemble Click pad Ver : 0.10 Edit date: 2023/2/3

Step :

-  1. Put top module on clickpad assemble fixture
-  2. Disassemble Click pad BRKT Screw M2x2L (6052B0156201)* 3 .
 - ❖ Torque : 2.0 ± 0.2 Kgf · cm
 - ❖ screw can not be slipped.
-  3. Take Click pad out from top



Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (\$pec.)	Qty	Symbol							
electric screwdriver #0	1								
Touchpad assemble fixture	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling Issued : IE_department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP

station: 36(1/3)

Operation name: Debonding hinge up

Ver : 1.00 Edit date: 2023/2/12

Touch Model

Step :

1. Put the LCM module glass face up into the oven °

❖ Heating temperature :80+/-5°C

❖ Heating time :10+/-1 min



LCM

Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol							
Heating fixture	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling

Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP

station: 36(2/3)

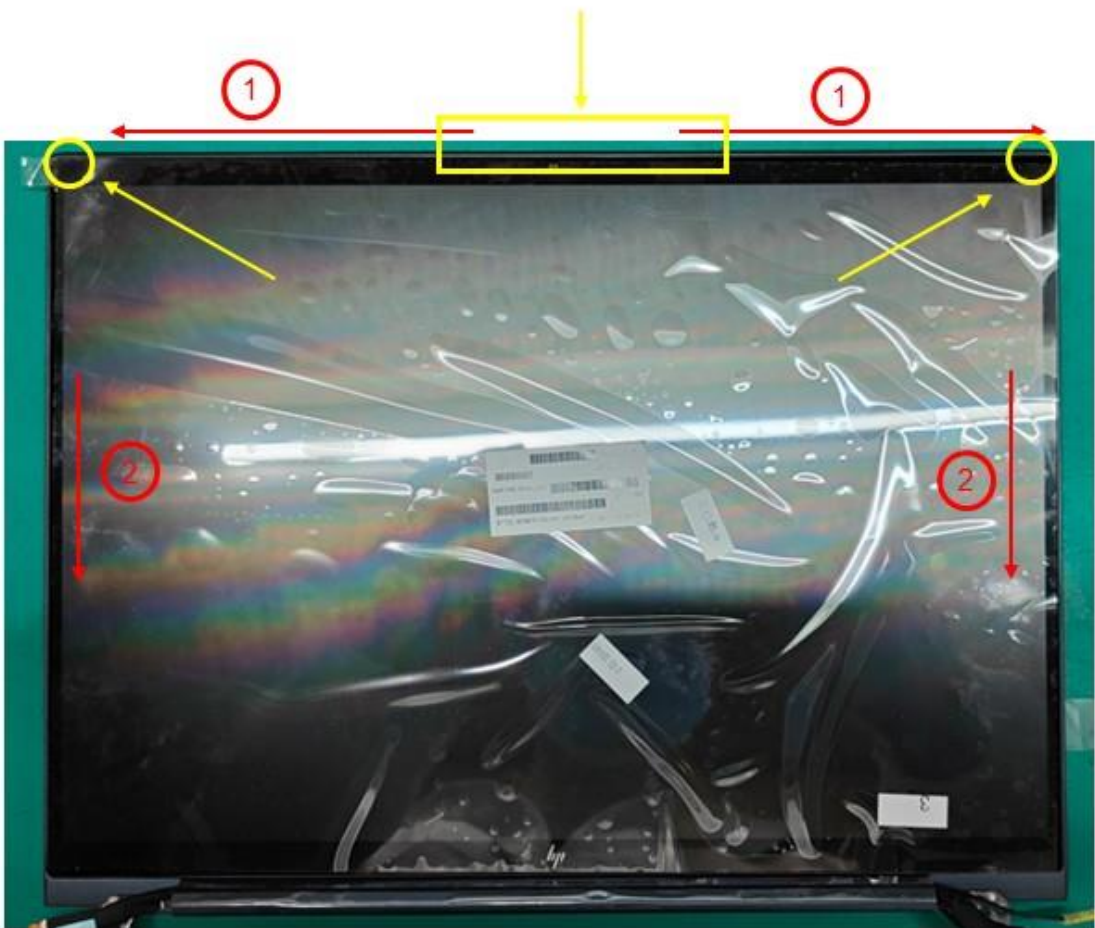
Operation name: Debonding hinge up

Ver : 1.00 Edit date: 2023/2/12

Touch Model

Step :

1.Debonding hinge up from shutter location ,use thickness jig separate A/B parts as below(1-2)



Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol							
thickness jig	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling

Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP

station: 36(3/3)

Operation name: Disassemble bezel

Ver : 1.00 Edit date: 2023/2/12

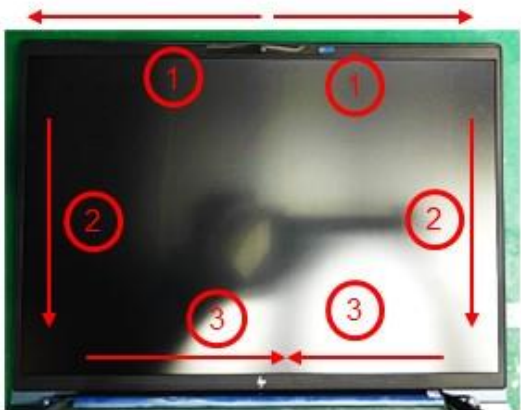
Non Touch Model

Step :

1. Use Hair dryer heating the bezel 25s by 60 °C
 - Hair dryer need to be around 10cm from B-cover.(pic 1)
 - When blowing, need to swing and moving along bezel together. Not focus on single spot to keep blowing.
2. After heating, disassemble bezel as below(pic 2)



Pic 1



Pic 2

Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol							
Hair dryer	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

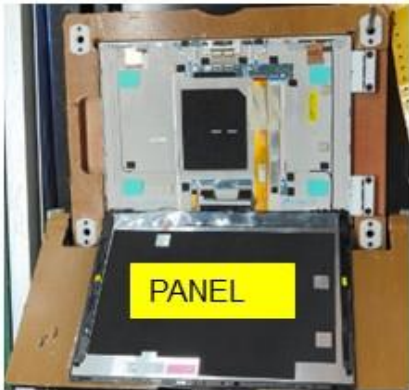
Prepared : Zhou.gui-ling

Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 37(1/2)
Operation name: Disassemble DBTS Ver : 1.00 Edit date: 2023/2/12

Touch Model



Step :

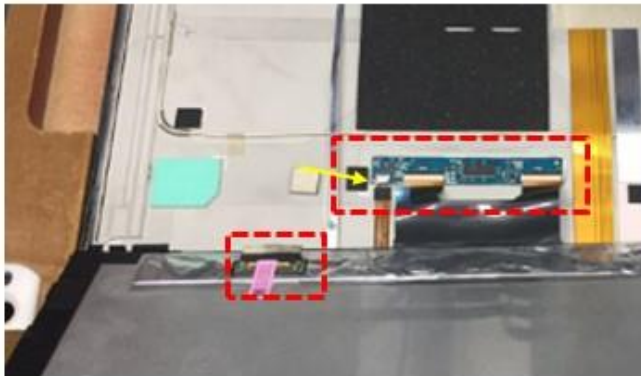
- 1.Put the unit on the support fixture
- 2.For OLED , remove absorber(**6054B2622901**)and thermal pad(**6054B2594301**) (pic 1)
- 3.For Privacy , disassemble ALS FFC (pic 2)
- 4.Take down the touch control/B from A-cover , disassemble touch FPC of LCM cable (pic 3)
- 5.Disassemble LCM CNTR (pic 3) ,take down DBTS



Pic 1 , Oled



Pic 2 , privacy



Pic 3

Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (\$pec.)	Qty	Symbol							
Support fixture	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 37(2/2)
Operation name: Disassemble panel Ver : 1.00 Edit date: 2023/2/12

Non Touch Model

Step :



Pic 1

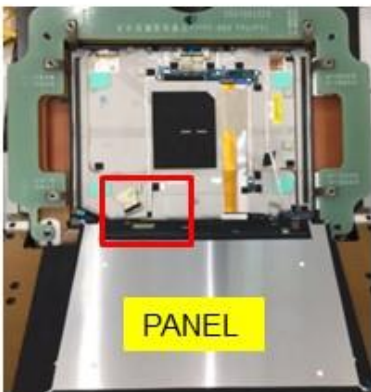
- 1.Put the unit on the support fixture
- 2.Use the tweezers pullout adhesive , separate cover and panel
- 3.For OLED , remove absorber(6054B2622901)and thermal pad(6054B2594301) (pic 2)
- 4.For Privacy , disassemble ALS FFC (pic 3)
- 5.Disassemble LCM CNTR (pic), take down the panel



Pic 2 , Oled



Pic 3 , privacy



Pic 4

Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol							
Support fixture Tweezers	1 1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

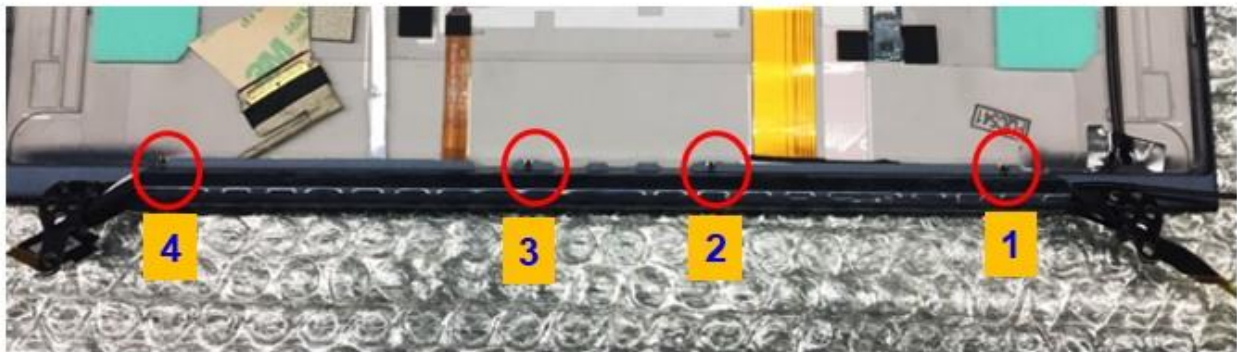
Prepared : Zhou.gui-ling Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 38(1/1)
Operation name: Disassemble hinge cover screw Ver : 1.00 Edit date: 2023/2/12

Step :

- 1. Put the unit on the table
- 2. Loosen Hinge cap screw*4
(6052B0617001)
 - ❖ Torque : 0.5+0.2/0 Kgf · cm
 - ❖ screw can not be slipped.



Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (\$pec.)	Qty	Symbol							
electric screwdriver #00	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling Issued : IE_department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 39(1/1)

Operation name: Disassemble hinge cover Ver : 1.00 Edit date: 2023/2/12

Step :

-  1. Disassemble hinge cap



Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol							
									
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling

Issued : IE_department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP

station: 40(1/1)

Operation name: Disassemble mylar

Ver : 1.00 Edit date: 2023/2/12

Step :



1. Disassemble hub/B mylar (6054B2653101) ,Camera CNTR mylar(6054B2655601)



Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol							
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling

Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 41(1/1)
Operation name: Disassemble hinge-L Ver : 1.00 Edit date: 2023/2/12

Step :

-  1. Loosen hinge-L screw*3(**6052A0019002**) as below
❖ Torque : 3.0± 0.2 Kgf · cm
❖ screw can not be slipped.
-  2. Disassemble hinge-L and recycle into box



Notice: Please inform production line leader or master if you found any abnormal.

Fixture list (Spec.)	Qty	Symbol							
electric screwdriver #1	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP

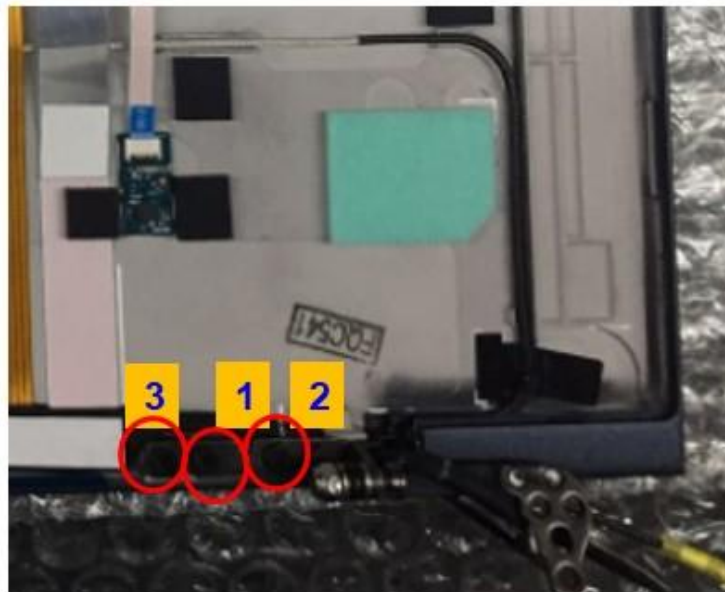
station: 42(1/1)

Operation name: Disassemble hinge-R

Ver : 1.00 Edit date: 2023/2/12

Step :

1. Loosen hinge-R screw*3(**6052A0019002**) as below
 - ❖ Torque : 3.0 ± 0.2 Kgf · cm
 - ❖ screw can not be slipped.
2. Disassemble hinge-R and recycle into box



Notice: Please inform production line leader or master if you found any abnormal.

Fixture list (\$pec.)	Qty	Symbol							
electric screwdriver #1	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

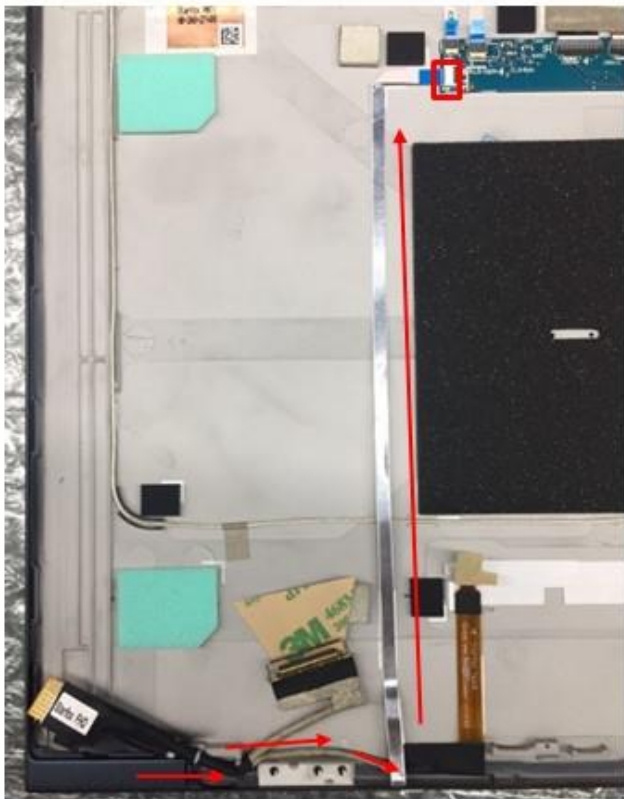
Prepared : Zhou.gui-ling

Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 43(1/1)
Operation name: Disassemble LCM cable Ver : 1.00 Edit date: 2023/2/12

- 1. Open the Hub/B CNTR of LCM cable
- 2. Disassemble LCM cable and recycle into box



Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol							
									
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling Issued : IE department

Standard Operation Procedure

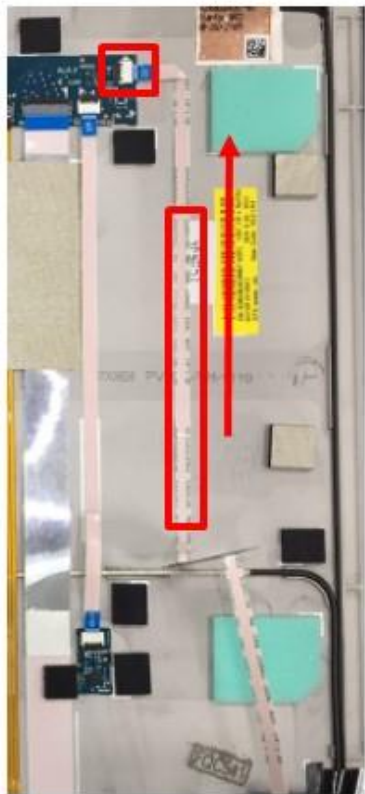
Sub-assembly name :
Operation name: Disassemble Privacy FFC

Disassemble SOP
Ver : 1.00

station: 44(1/1)
Edit date: 2023/2/12

Step :

- For privacy panel
1. Open the Hub/B CNTR of Privacy FFC
2. Disassemble privacy FFC



Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol							
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling

Issued : IE department

Standard Operation Procedure

Sub-assembly name :
Operation name: Disassemble sensor cable

Disassemble SOP
Ver : 1.00

station: 45(1/1)
Edit date: 2023/2/12

Step :

-  1. Open the sensor cable CNTR
-  2. Disassemble sensor cable
-  3. Remove gasket(6054B1492501) on sensor cable



Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol							
									
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling

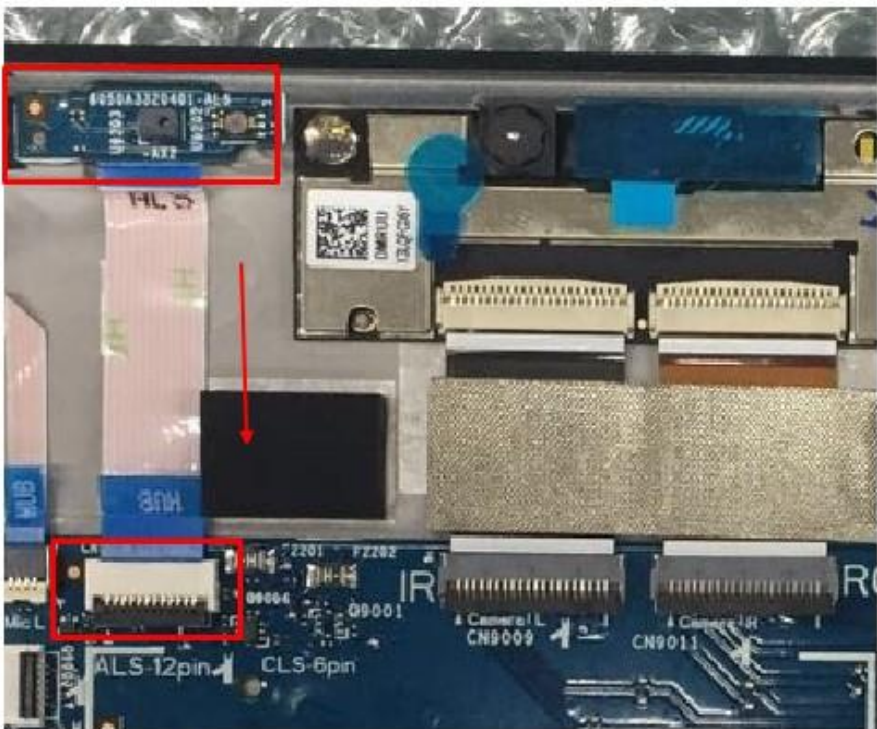
Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 46(1/1)
Operation name: Disassemble ALS/B or CLS/B Ver : 1.00 Edit date: 2023/2/12

Step :

- 1. Open ALS/B or CLS/B CNTR
- 2. Disassemble Small/B



Notice: Please inform production line leader or master if you found any abnormal..

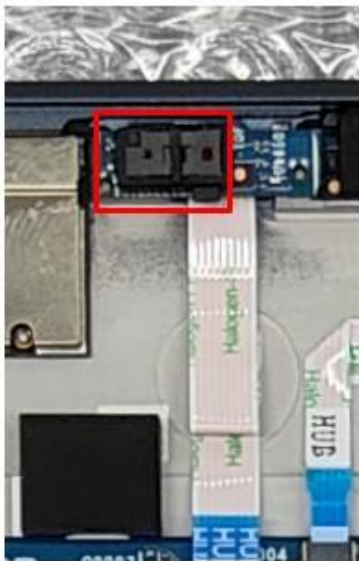
Fixture list (Spec.)	Qty	Symbol						
								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do
								Static

Prepared : Zhou.gui-ling Issued : IE department

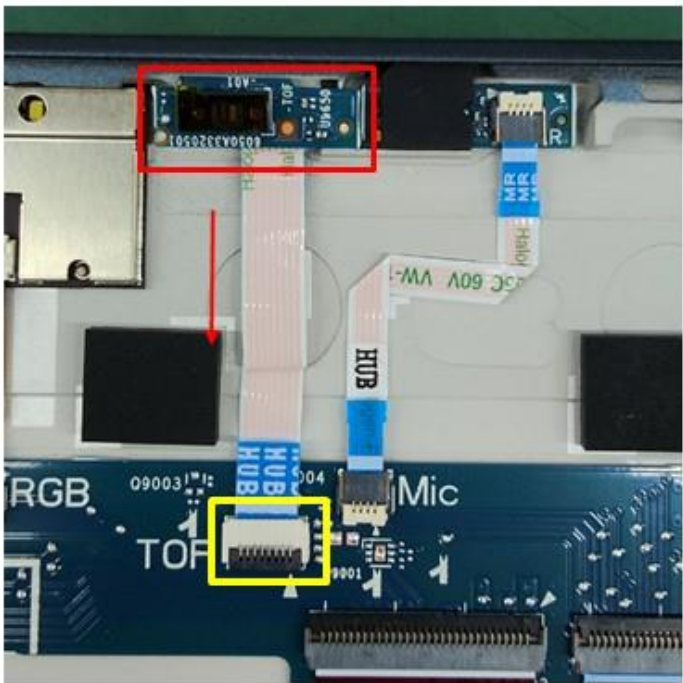
Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 47(1/1)
Operation name: Disassemble TOF/B Ver : 1.00 Edit date: 2023/2/12

- 1. Take down TOF rubber(6054B2592601)(pic 1)
- 2. Open the TOF/B HUB CNTR , Disassemble TOF/B(1310A3320502)(pic 2)



pic 1



pic 2

Notice: Please inform production line leader or master if you found any abnormal.

Fixture list (Spec.)	Qty	Symbol						
								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do
								Static

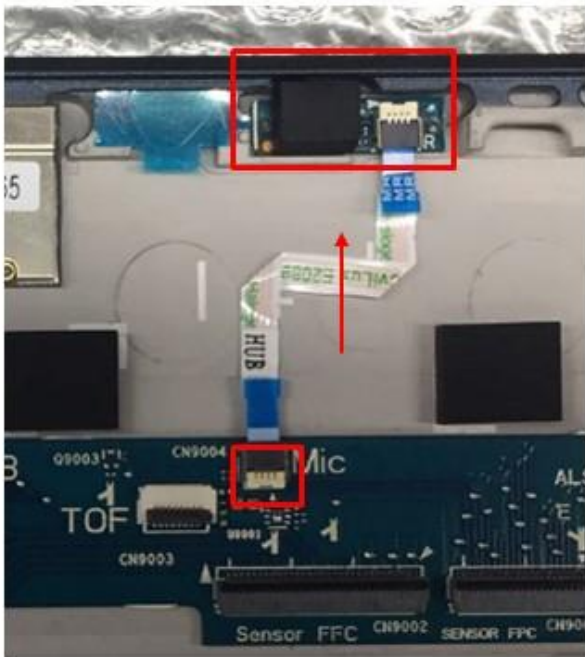
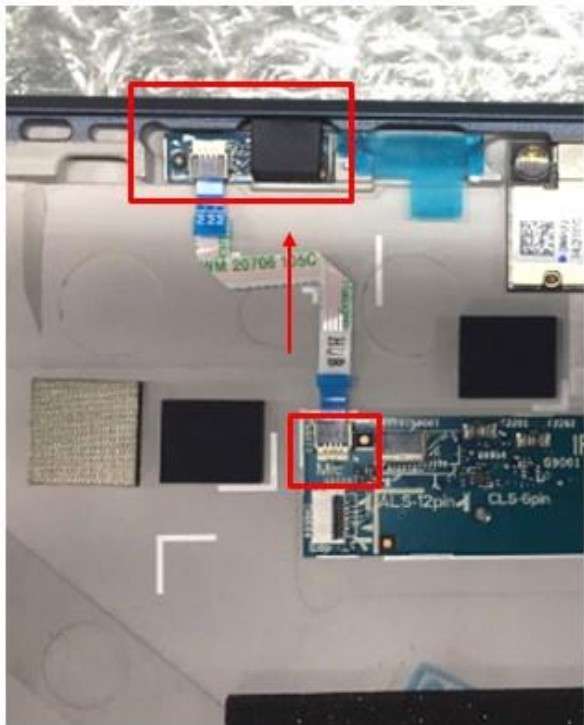
Prepared : Zhou.gui-ling Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 48(1/1)
Operation name: Disassmeble Mic-L/B & Mic-R/B Ver : 1.00 Edit date: 2023/2/12

Step :

- 1. Open the MIC-L/B CNTR , take down the MIC-L/B(1310A3320202)
- 2. Open the MIC-R/B CNTR , take down the MIC-R/B(1310A3320302)



Notice: Please inform production line leader or master if you found any abnormal.

Fixture list (Spec.)	Qty	Symbol							
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

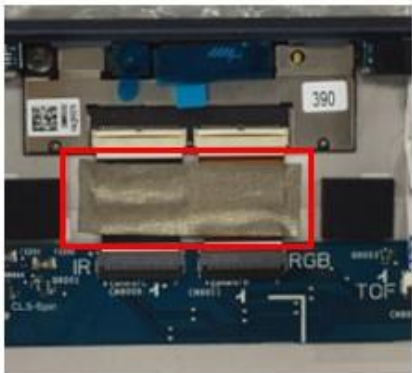
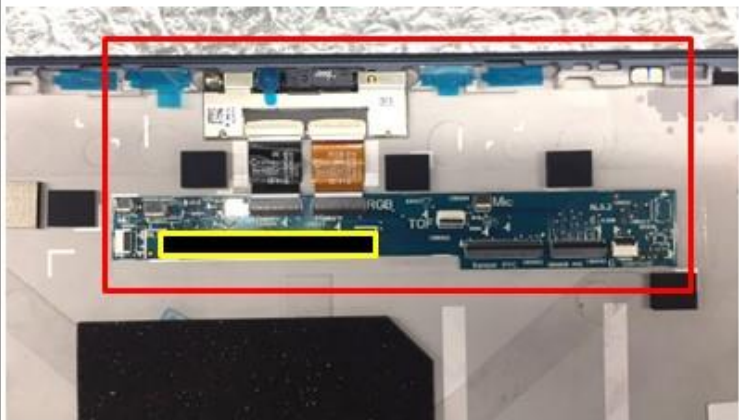
Prepared : Zhou.gui-ling Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 49(1/1)
Operation name: Disassemble HUB/B &remove material Ver : 1.00 Edit date: 2023/2/12

Step :

- 1. Use the Cable jig , take down HUB/B&camera
- 2. Remove Gasket (6054B0256301) and sponge (6054B2585701)



Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol							
Cable jig	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling Issued : IE department

Standard Operation Procedure

Sub-assembly name : Disassemble SOP

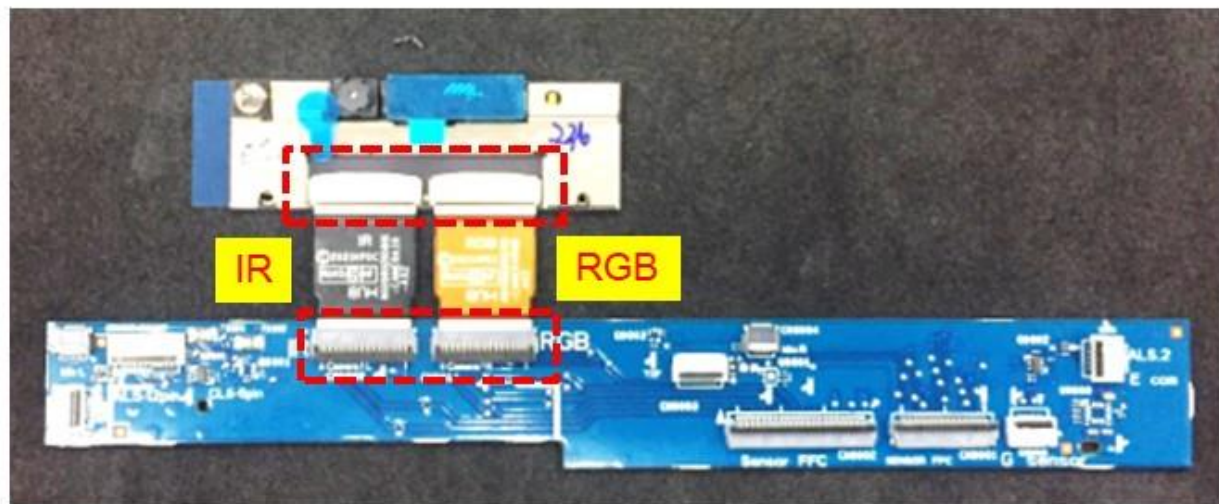
station: 50(1/1)

Operation name: Disassemble camera and hub/B

Ver : 1.00 Edit date: 2023/2/12

Step :

1. Open the camera FPC CNTR , Separate Camera, FPC-IR , FPC-RGB, Hub/B
 - IR FPC (**6035B0257401CMI** or **6035B0265601TSF**)
 - RGB FPC (**6035B0257501CMI** or **6035B0265701TSF**)



Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol							
									
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling

Issued : IE department

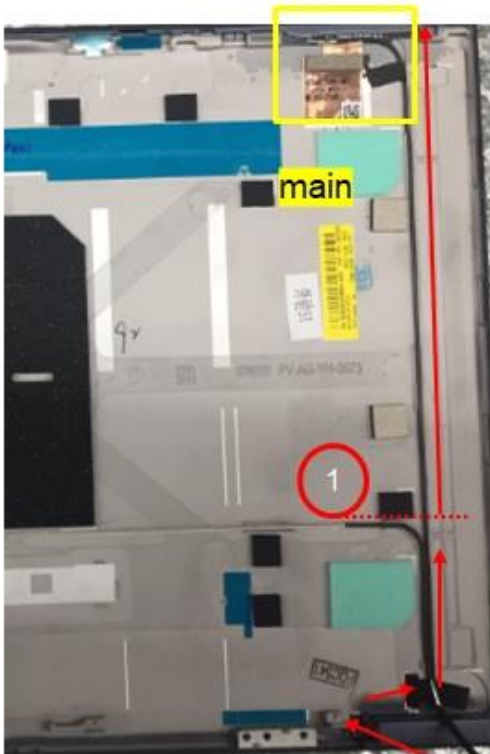
Standard Operation Procedure

Sub-assembly name : Disassemble SOP station: 51(1/1)

Operation name: Disassemble WLAN main Ver : 1.00 Edit date: 2023/2/12

Step :

-  1. Disassemble Wlan main /aux cable to the location 1
-  2. Disassemble WLAN main, recycle into box



Notice: Please inform production line leader or master if you found any abnormal.

Fixture list (Spec.)	Qty	Symbol							
									
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling

Issued : IE department

Standard Operation Procedure

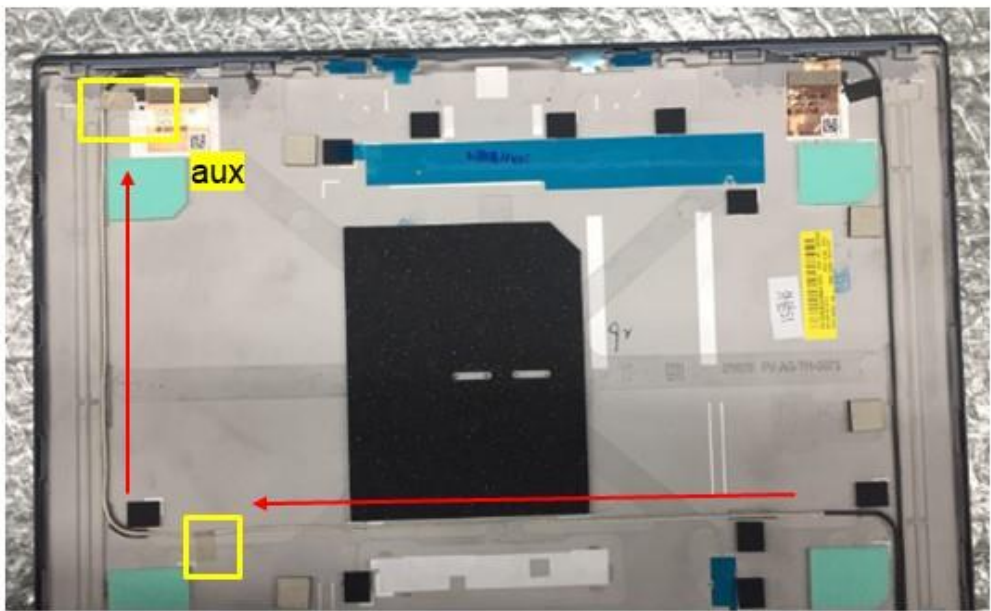
Sub-assembly name :
Operation name: Disassemble WLAN aux

Disassemble SOP
Ver : 1.00

station: 52(1/1)
Edit date: 2023/2/12

Step :

- 
1. Disassemble Wlan Aux, recycle into box



Notice: Please inform production line leader or master if you found any abnormal..

Fixture list (Spec.)	Qty	Symbol							
									
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

Prepared : Zhou.gui-ling

Issued : IE department

