



Product End-of-Life Disassembly Instructions

Product Category: Notebooks and Tablet PCs

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

HP ProBook x360 11 G4 Education Edition

Purpose: The document is intended for use by end-of-life recyclers or treatment facilities. It provides the basic instructions for the disassembly of HPI 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, please contact [HP's Sustainability Contact](#).

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 (MB, RAM, WLAN, Volume button BD, TP BD,)	5
Batteries, excluding Li-Ion batteries.	All types including standard alkaline, coin or button style batteries	0
Li-Ion batteries. Include all Li-Ion batteries if more than one is provided with the product (such as a detachable notebook keyboard battery, RTC coin cell, etc.)	Battery(ies) are attached to the product by (<i>check all that apply with an "x" inside the "[]"</i>): <input type="checkbox"/> X] screws <input type="checkbox"/>] snaps <input type="checkbox"/>] adhesive <input type="checkbox"/>] other. Explain _____ NOTE: Add detailed removal procedures including required tools in the sections 3.1 and 3.2.	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 (11.6")	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	DC Cable for External Power Supply	1
Gas Discharge Lamps		0
Plastics containing Brominated Flame Retardants		0

EL-MF877-00
 Template Revision C

Page 1

Last revalidation date 09-May-2018

HPI instructions for this template are available at [EL-MF877-01](#)

Item Description	Notes	Quantity of items included in product
weighing > 25 grams (not including PCBs or PCAs already listed as a separate item above)		
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)
Electric screwdriver (Cross)	#1, #0
T8 electronic screw driver	
Support fixture	
Routing fixture	

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 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).

MECHANICAL ASSEMBLY

MODEL : Balos

Sub-assembly name:	Balos 1.0-2.0拆机SOP		
Document No.:	Balos 1.0-2.0拆机SOP		
Written by:	朱亚	Revision:	1.00
Date:	2018/11/7	Page:	1 of 48

A.Current station version list:

[illegible]

B.Version Modify list:

[illegible]

审核：胡鳳坤 制表：朱亚



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 1(1/1)

Process Name : Disassemble bottom case screw

Ver. : 1.0 Date : 2018/11/7

Step :

- 1. Disassemble bottom case screws
(6052B0387001)*2 (Fig 1)
 - ❖ Torque force: 2.0 ± 0.2 Kgf.cm
 - ❖ Pay attention to screw can' t loose, can' t slip into machine



Fig 1

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Cross electric screwdriver(#1)	1		



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 2(1/1)

Process Name : Disassemble bottom case screw

Ver. : 1.0 Date : 2018/11/7

Step :

- 1.Disassemble bottom case screws*2(SET screw) (Fig 1)
- ❖ Torque force : 2.0 ± 0.2 Kgf.cm
- ❖ Pay attention to screw can' t loose, can' t slip into machine



Fig 1

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
T8 electronic screwdriver	1		



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 3(1/1)

Process Name : Disassemble bottom case screw

Ver. : 1.0 Date : 2018/11/7

Step :

- 1. Disassemble bottom case screws M2.5x3.5 (6052B0466801)*4 (Fig 1)
 - ❖ Torque force : 2.0 ± 0.2 Kgf · cm
 - ❖ Pay attention to screw can' t loose, can' t slip into machine

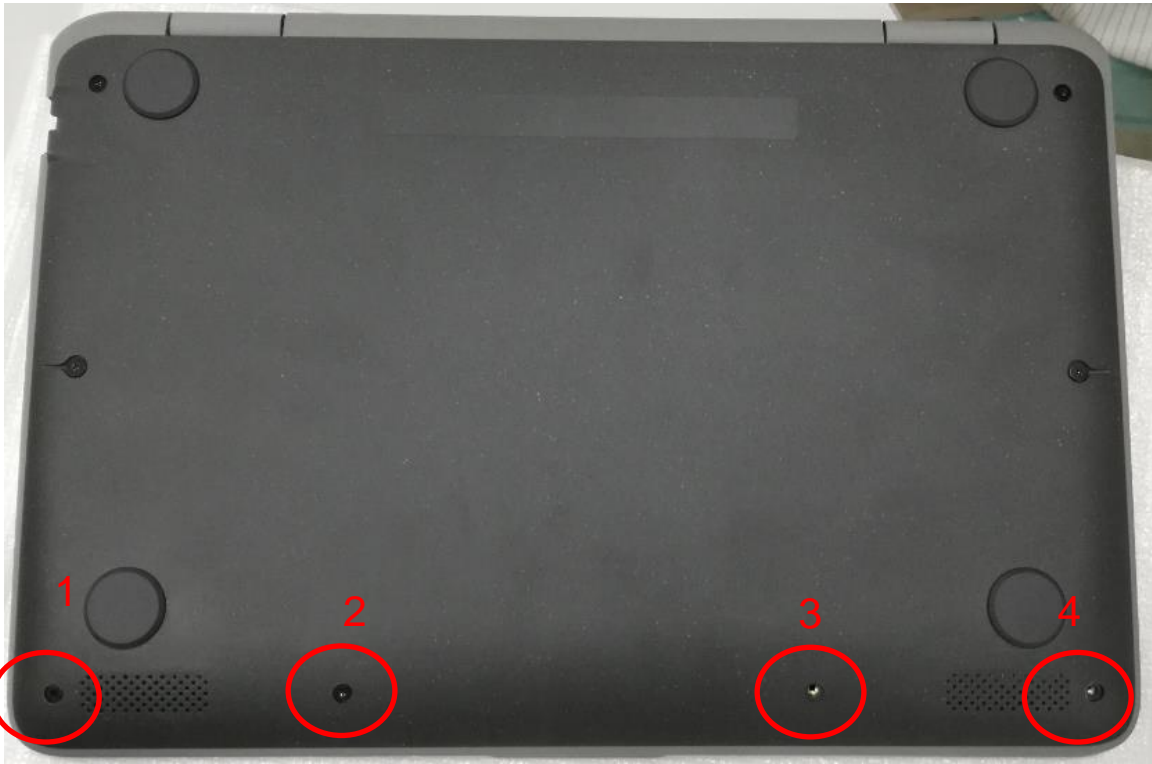


Fig 1

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
T8 electronic screwdriver	1		



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 4(1/1)

Process Name : Take apart top and bottom case

Ver. : 1.0 Date : 2018/11/7

Step :

- 1.Take apart top and bottom case
- ❖ Pay attention to the remove order as below Fig show

Open Base , popup the hook

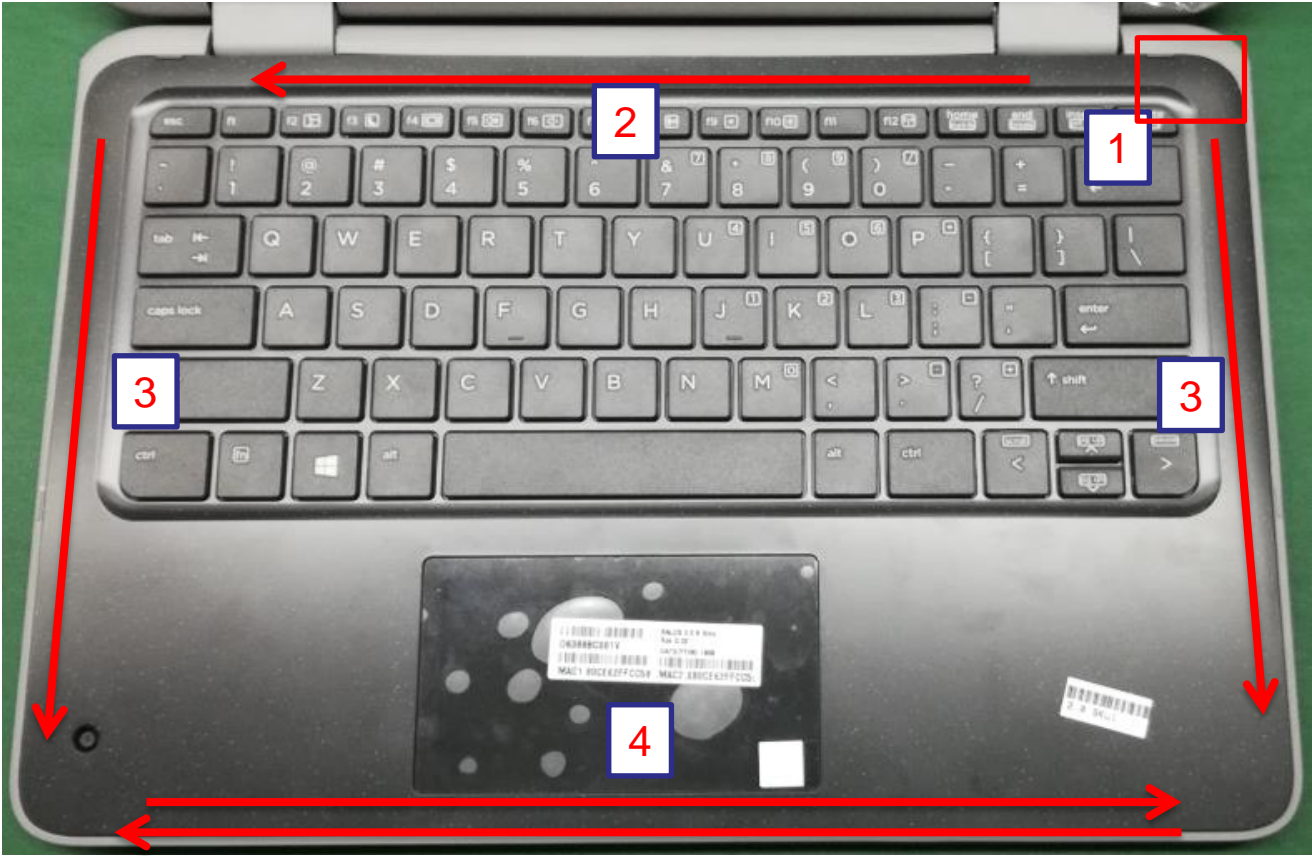


Fig 1

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 5(1/2)

Process Name : Disconnect FFC

Ver. : 1.0 Date : 2018/11/7

- Step :**
- For 1.0
- 1. Disconnect 2nd CCD FFC,TP FFC,KB FFC from main board(Fig 1,2)
 - 2. Take apart top and bottom case

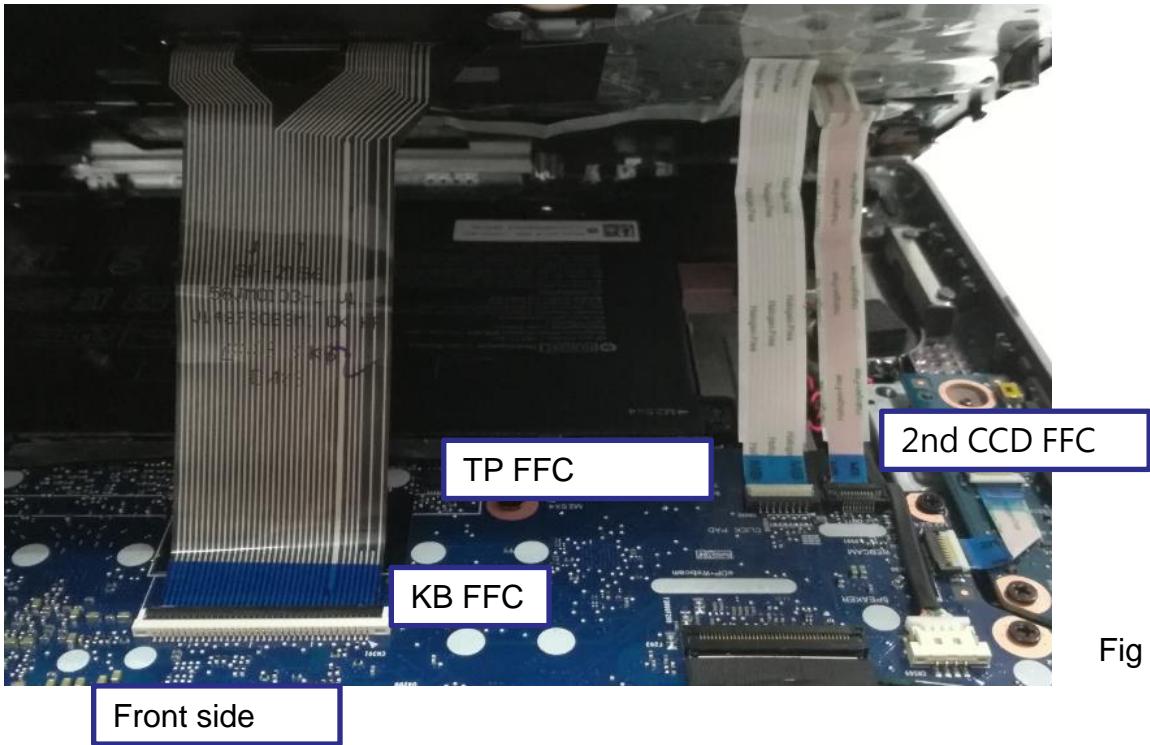


Fig 1

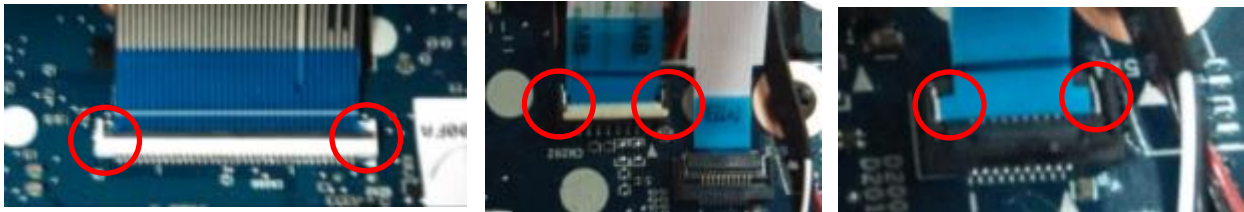


Fig 2

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 5(2/2)

Process Name : Disconnect FFC

Ver. : 1.0 Date : 2018/11/7

- Step : For 2.0
- 1. Disconnect 2nd CCD FFC,TP FFC,KB FFC from main board(Fig 1, 2)
 - 2. Take apart top and bottom case

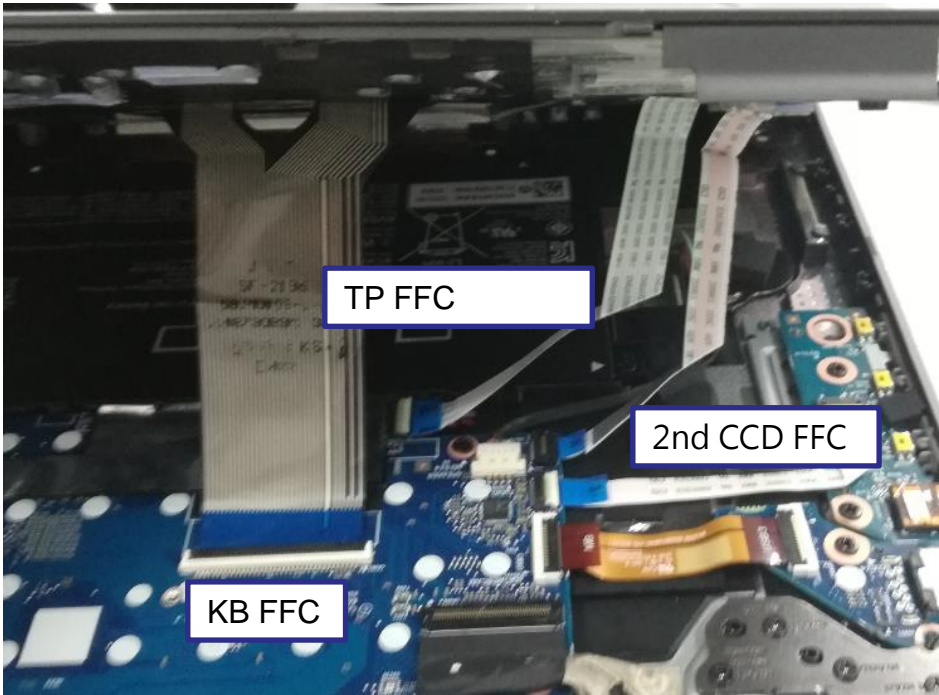


Fig 1

Front side

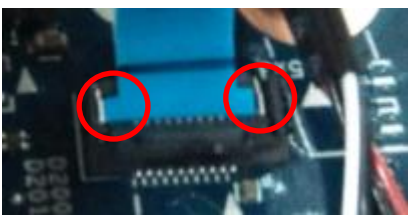
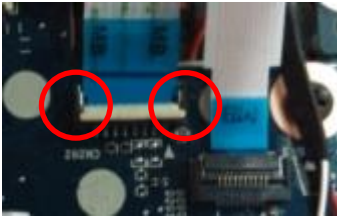


Fig 2

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty



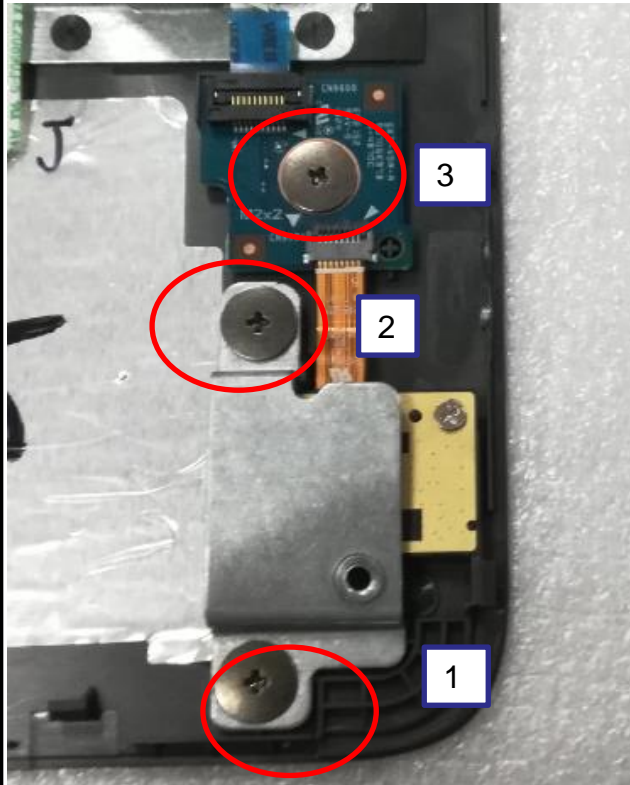
Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 6(1/1)

Process Name : Disassemble screw

Ver. : 1.0 Date : 2018/11/7



Step :

1. Carry Top module
 2. (For 2nd CCD only) disassemble Webcam/B screw M2*2 (6052B0156301)*1 (Fig1)
 3. Disassemble bracket screws
M2*2(6052B0156301)*2(Fig 1)
- ❖ Screwdriver type #1
 - ❖ Torque force : 1.5 ± 0.2 Kgf.cm
 - ❖ Pay attention to screw can't loose
3. Put BRKT into material box

Fig 1

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Cross electric screwdriver(#1)	1		



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 7(1/1)

Process Name : Disassemble Webcam

Ver. : 1.0 Date : 2018/11/7



Fig 1



Fig 2

Step :

- 1. (For 2nd CCD only)
Disassemble Webcam screw
M1.6x2(6052B0204401)*1 (Fig 1)
 - ❖ Screwdriver type #0
 - ❖ Torque force : 1.0 ± 0.2 Kgf.cm
 - ❖ Pay attention to screw can' t loose
- 2. Put daughter board into material box (as Fig 2 show)

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Cross electronic screwdriver(#0)	1		



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 8(1/1)

Process Name : Disconnect FFC

Ver. : 1.0 Date : 2018/11/7

Step :

1. Disconnect Click pad FFC(1.0 6035B0187701
HanQuan/ 6035B0189901JiuDong)
(2.0 6035B0188801 HanQuan /
6035B0189601 JiuDong) (Fig1,2))

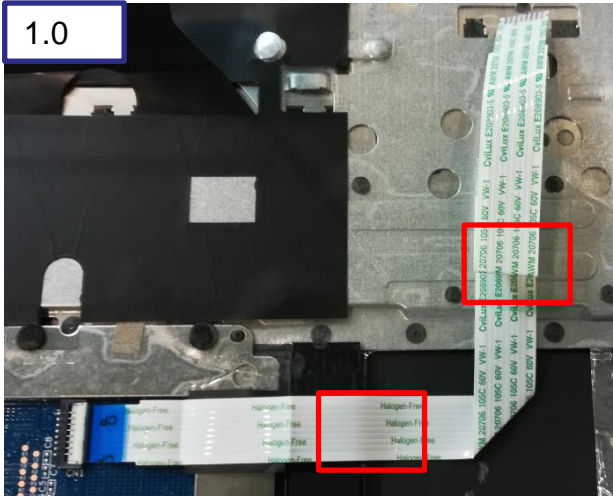


Fig 1

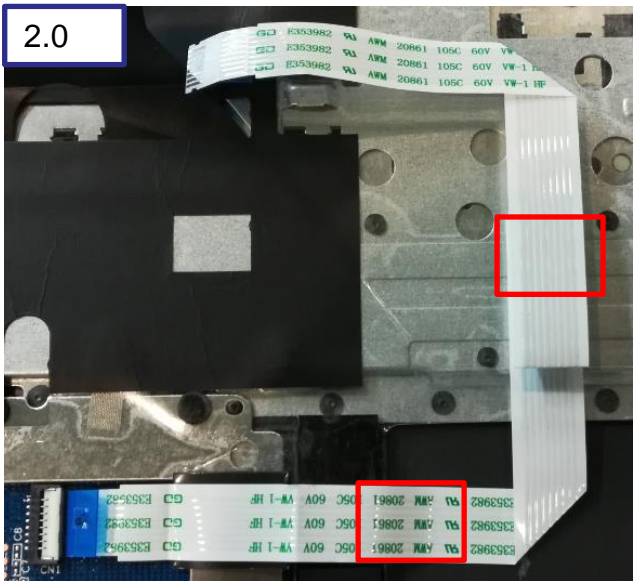


Fig 2

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty



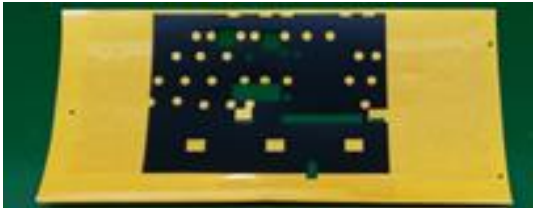
Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 9(1/1)

Process Name : Remove Mylar

Ver. : 1.0 Date : 2018/11/7



Step :

- 1 Remove Keyboard Mylar (6054B2106301)
(Fig 1)

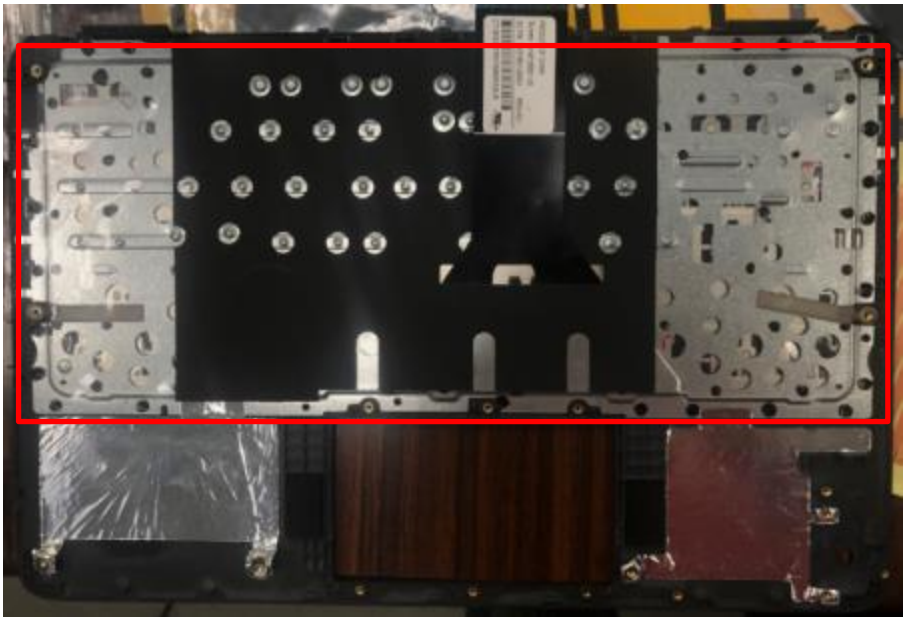


Fig 1

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 10(1/1)

Process Name : Disassemble dimple Bracket

Ver. : 1.0 Date : 2018/11/7

Step :

- 1. Disassemble click pad dimple bracket(6053B1600601) screws
M2*2.5(6052B0120001)*3

- ❖ Screwdriver type #1
- ❖ Torque force : 1.5 ± 0.2 Kgf .cm
- ❖ Pay attention to screw can' t loose
- 2. Put bracket in the box

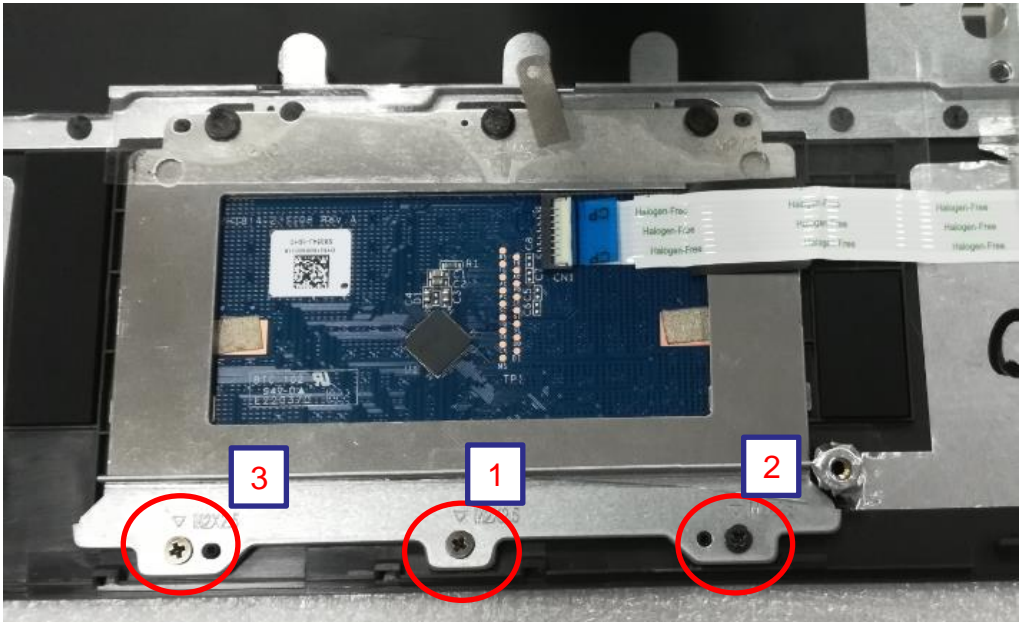


Fig 1

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Cross electric screwdriver(#1)			



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 11(1/1)

Process Name : Disassemble Click pad

Ver. : 1.0 Date : 2018/11/7

Step :

- 1. Disassemble Click pad screws
M2*2(6052B0388301) * 3 (Fig 1)
 - ❖ Screwdriver type:#1
 - ❖ Torque force : 1.5 ± 0.2 Kgf. cm
 - ❖ Pay attention to screw can' t loose
- 2. Put click pad module in the box

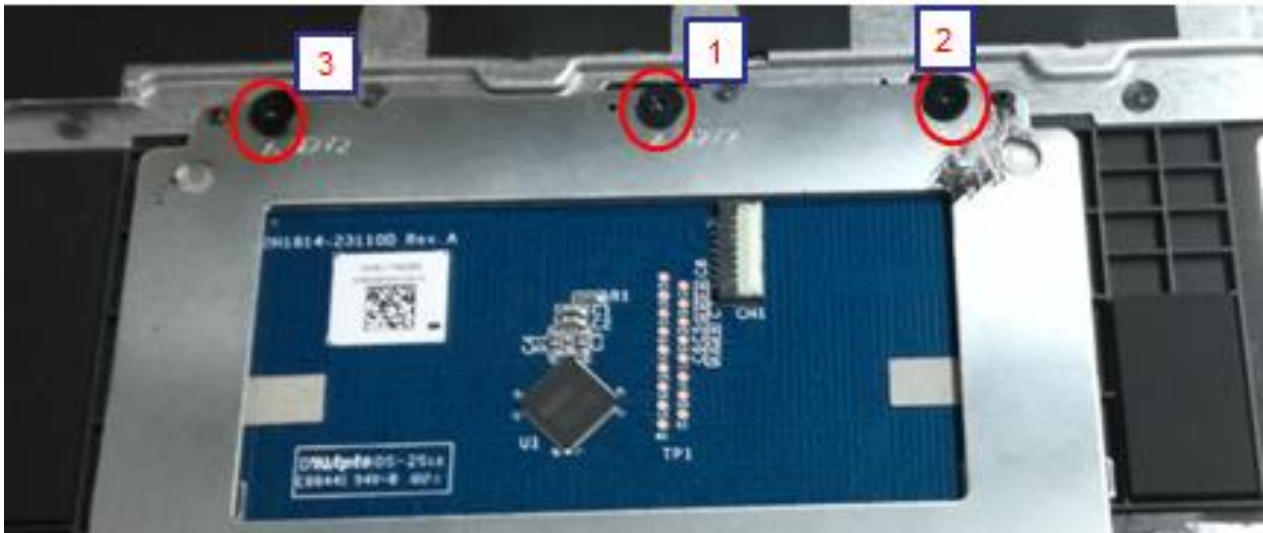


Fig 1

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Cross electric screwdriver(#1)	1		



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

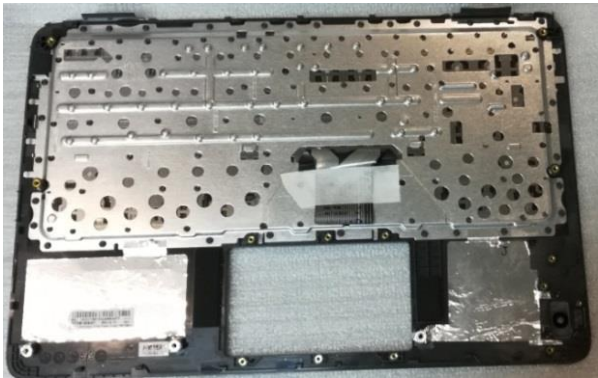
Station : 12(1/1)

Process Name : Disassemble hot-melt

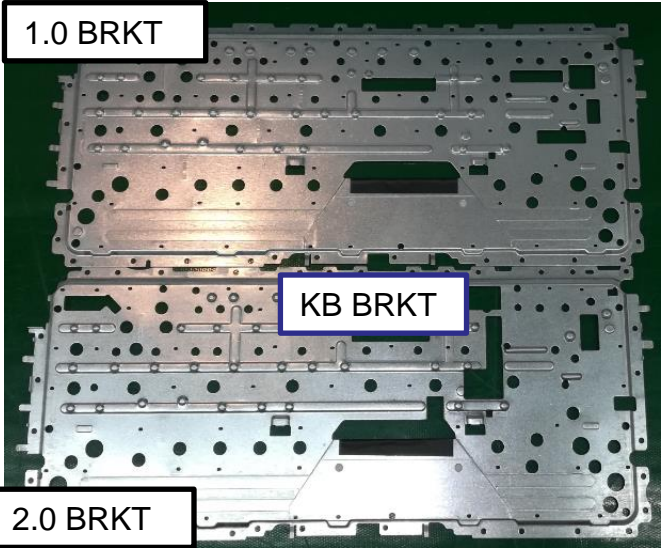
Ver. : 1.0 Date : 2018/11/7

Step :

1. Disassemble hot-melt to separate KB/bracket, KB and waterproof Mylar.



1.0 BRKT



KB BRKT

2.0 BRKT

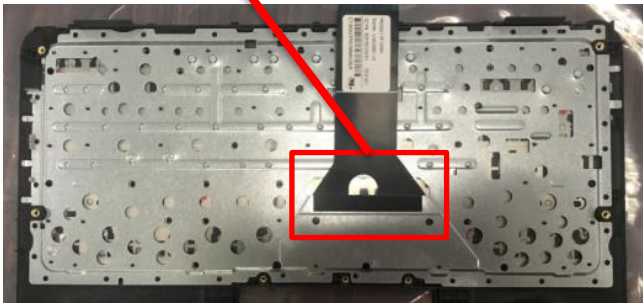


Fig 1

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Disassemble hot-melt machine	1		



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 13(1/1)

Process Name : Disassemble Battery

Ver. : 1.0

Date : 2018/11/7

Step :

1. Disassemble battery screws

M2.5*4(6052A0034501)*4

❖ Torque force : 2.0 ± 0.2 Kgf.cm

❖ Pay attention to screw can't loose, can't slip into machine

2. Put the battery in the box



Fig 1

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Cross electric screwdriver(#1)	1		



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 14(1/2)

Process Name : Disassemble Speaker&RTC

Ver. : 1.0 Date : 2018/11/7

Step :

- 1. Disassemble screw M2*1.8(6052B0386901)*4(Fig 1)
 - ❖ Torque force : $1.5 \pm 0.2\text{Kgf.cm}$
 - ❖ Pay attention to screw can't loose, can't slip into machine

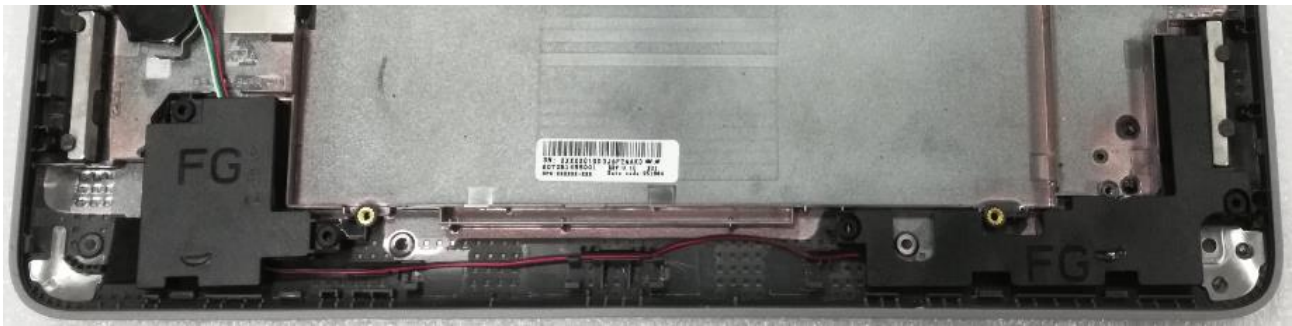


Fig 1

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Cross electric screwdriver(#1)	1		



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

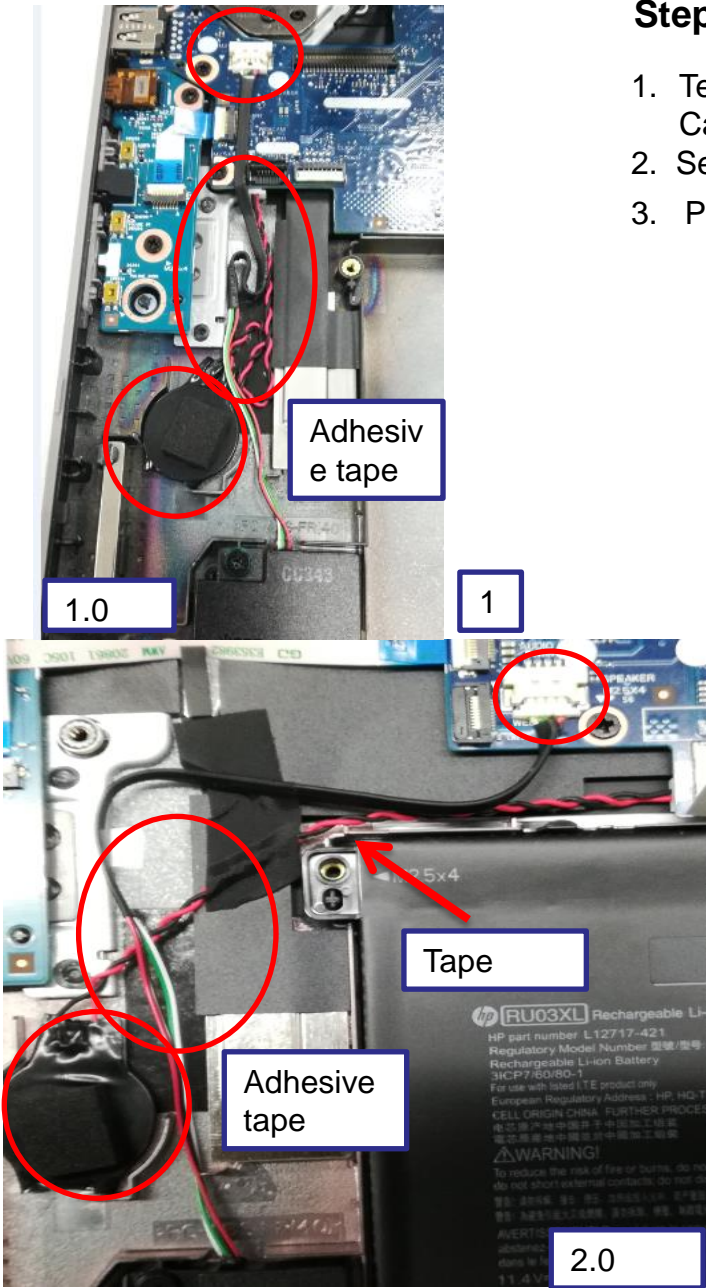
Station : 14(2/2)

Process Name : Disassemble Speaker & RTC

Ver. : 1.0 Date : 2018/11/7

Step :

- 1. Tear off the adhesive tape, carry the speaker Cable CNTR from MB
- 2. Separate RTC Battery from Base
- 3. Put the speaker in the box



Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty



Standard Operation Process

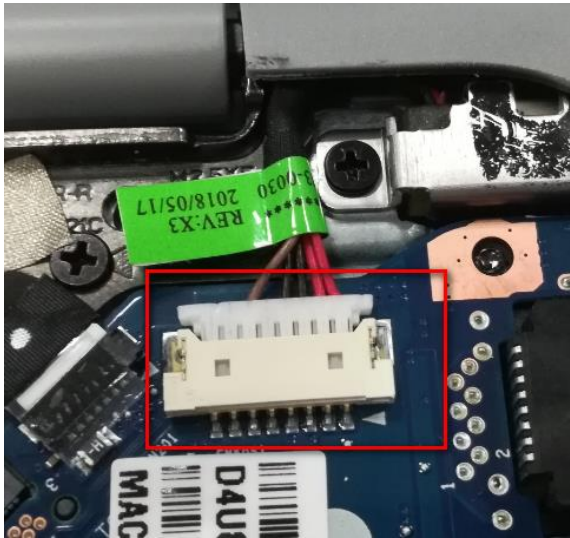
Document No. : Balos 1.0-2.0 disassembly SOP Station : 15(1/1)
Process Name : Disconnect Cable & aluminum foil Ver. : 1.0 Date : 2018/11/7

Step :

- 1. Disconnect DC in cable from M/B CNTR
- 2. Tear off the aluminum foil

FOR TOUCH

- 3. Disconnect Touch Cable from M/B CNTR



1



2



3

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 16(1/1)

Process Name : Disconnect EDP-Cable & Antenna

Ver. : 1.0

Date : 2018/11/7

Step :

1. Disconnect EDP Cable from M/B CNTR
2. Disconnect Antenna cable



Fig 1



Fig 2



Fig 3

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty



Standard Operation Process

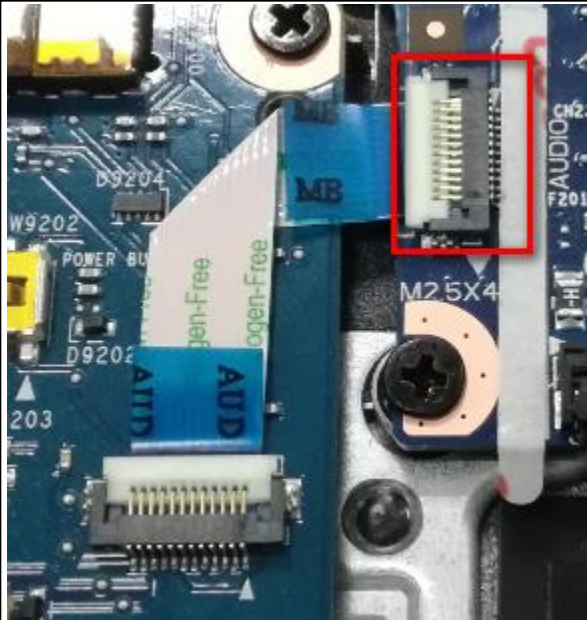
Document No. : Balos 1.0-2.0 disassembly SOP

Station : 17(1/2)

Process Name : Remove FFC&Rubber

Ver. : 1.0

Date : 2018/11/7



- Step : For 1.0
1. Disconnect Audio/B FFC from M/B CNTR

2. Remove Rubber(6054B2107101) from Audio/B

Fig 1

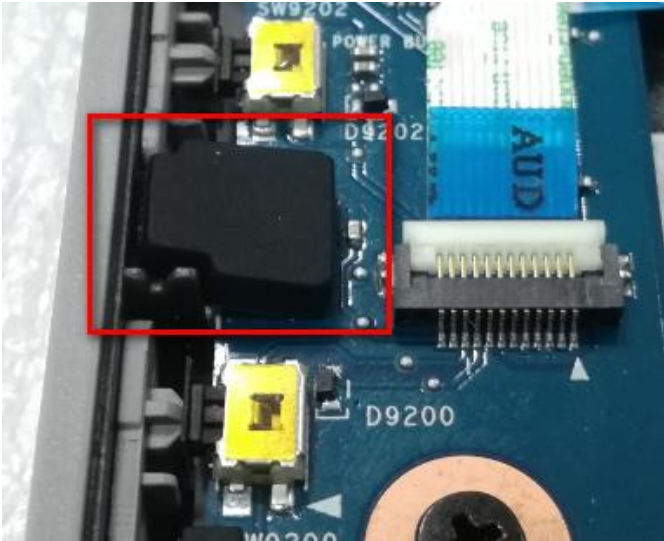


Fig 2

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 17(2/2)

Process Name : Remove FFC&Rubber

Ver. : 1.0

Date : 2018/11/7

Step : For 2.0

1. Disconnect Audio /USB FFC from M/B CNTR
2. Remove Rubber(6054B2107101) from Audio/B

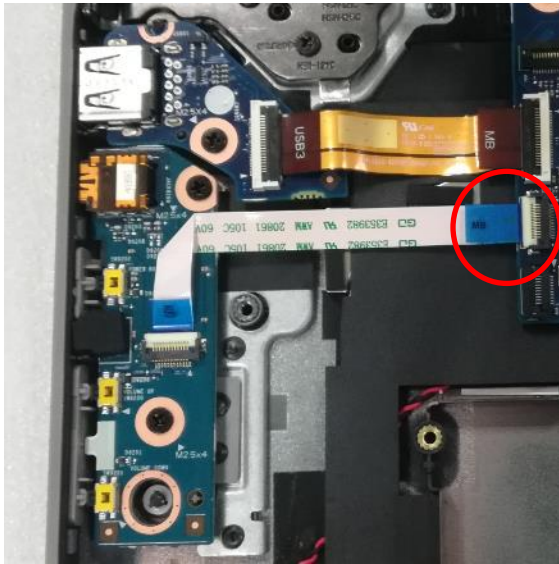


Fig 1

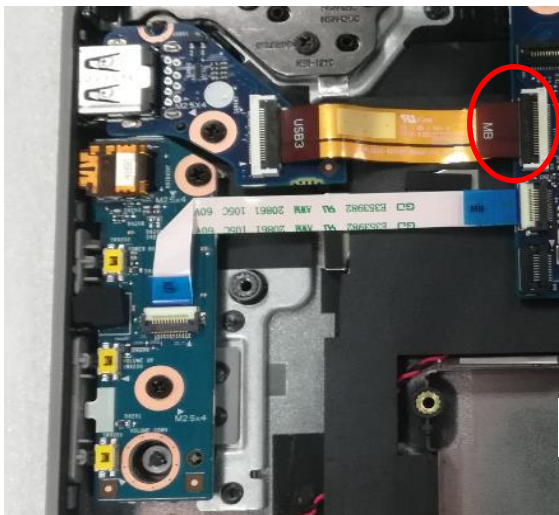


Fig 2

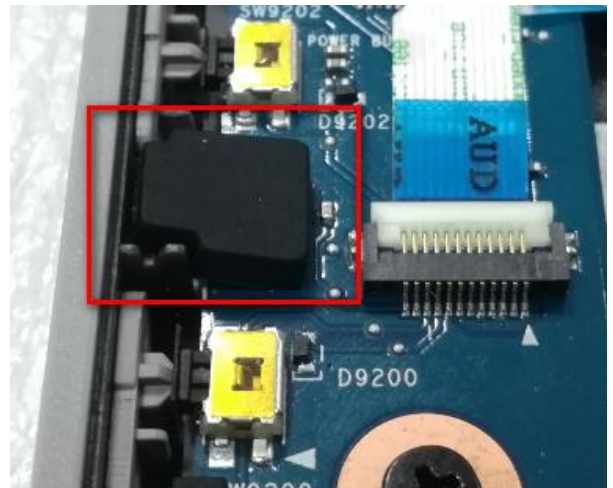


Fig 3

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 18(1/1)

Process Name : Disassemble SSD & WLAN CARD

Ver. : 1.0

Date : 2018/11/7



Fig 1

Step :

1. Disassemble WLAN card screw
M2*3(6052B0156101)*1 (Fig 1)
- ❖ Torque force : 1.5 ± 0.2 Kgf.cm
- ❖ Pay attention to screw can't loose, can't slip into machine

FOR SSD SKU

2. Disassemble SSD CARD screw
M2*3(6052B0156101)*1 (Fig 2)
- ❖ Torque force : 1.5 ± 0.2 Kgf.cm
- ❖ Pay attention to screw can't loose, can't slip into machine
3. Put material into box



Fig 2

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Cross electronic screwdriver(#1)	1		



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 19(1/2)

Process Name : Disassemble Screw

Ver. : 1.0

Date : 2018/11/7

Step : For 1.0

1. Disassemble the M/B screws
M2.5*4(6052A0034501)*4 (Fig. 1)
- ❖ Torque force: 2.0 ± 0.2 Kgf. Cm

❖ Pay attention to screw can' t loose,
can' t slip into machine

❖ The position of the lock screw on the main
board has the Δ symbol

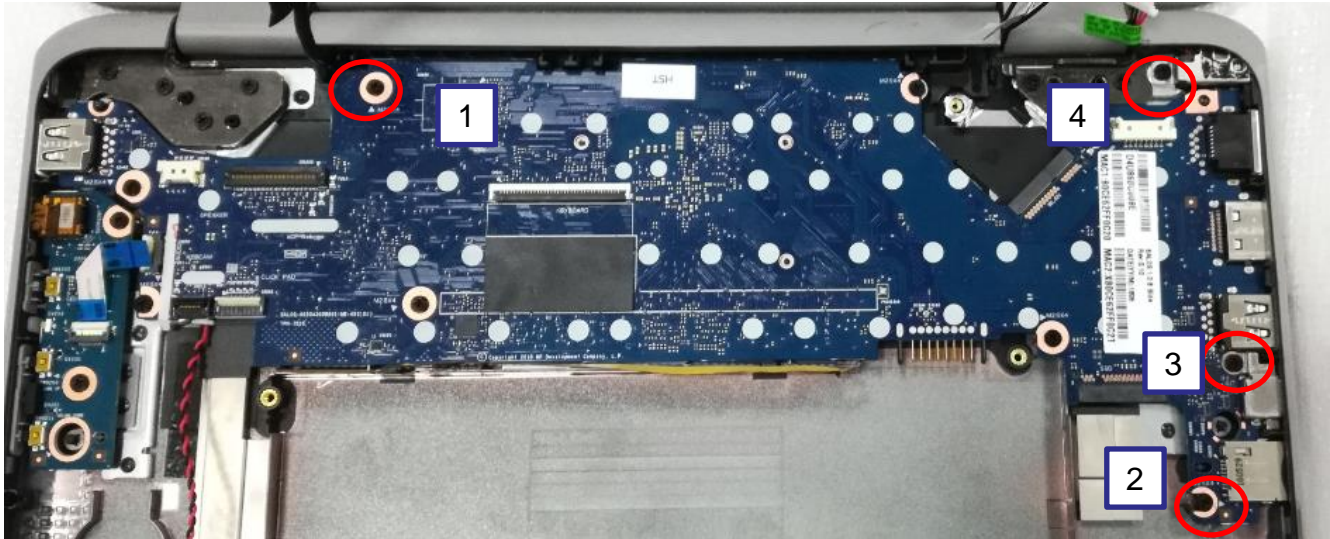


Fig 1

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Cross electric screwdriver (#1)	1		



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 19(2/2)

Process Name :Disassemble Screw

Ver. : 1.0 Date : 2018/11/7

Step : For 2.0

- 1. Disassemble the M/B screws
M2.5*4(6052A0034501)*4 (Fig. 1)
 - ❖ Torque force : 2.0 ± 0.2 Kg. Cm
 - ❖❖ Pay attention to screw can' t loose, can' t slip into machine
 - ❖ The position of the lock screw on the main board has the Δ symbol

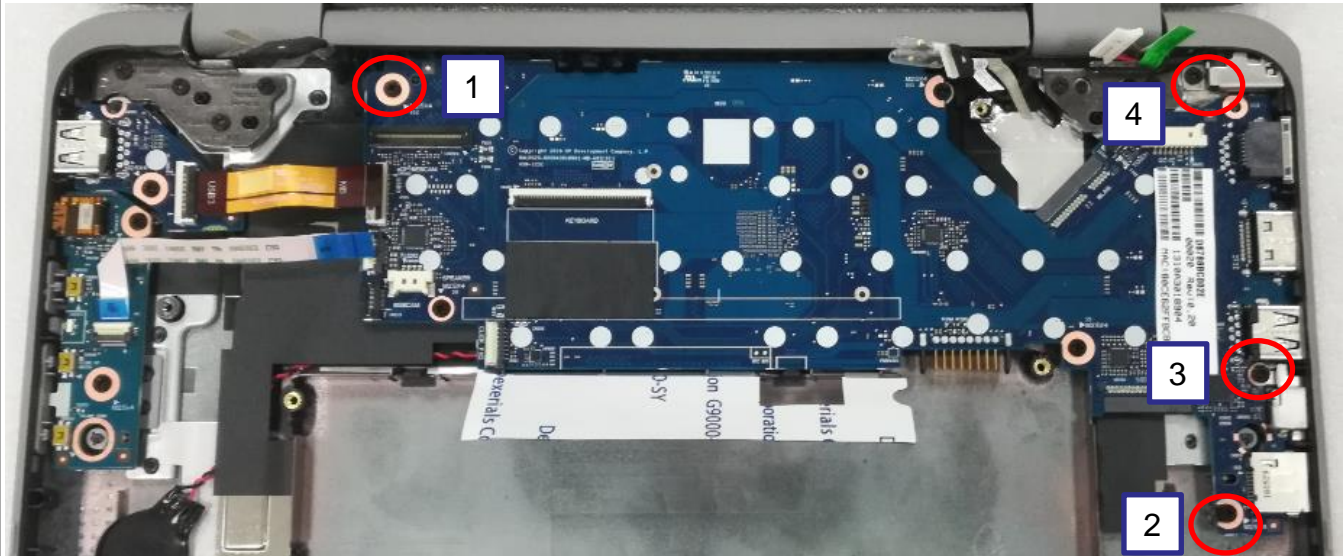


Fig 1

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Cross electric screwdriver (#1)	1		



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 20(1/2)

Process Name :Disassemble Screw

Ver. : 1.0 Date : 2018/11/7

Step : For 1.0

- 1. Disassemble the M/B screws
M2.5*4(6052A0034501)*4 (Fig. 1)
 - ❖ Torque force : 2.0 ± 0.2 Kgf. Cm
 - ❖ Pay attention to screw can' t loose, can' t slip into machine
 - ❖ The position of the lock screw on the main board has the Δ symbol

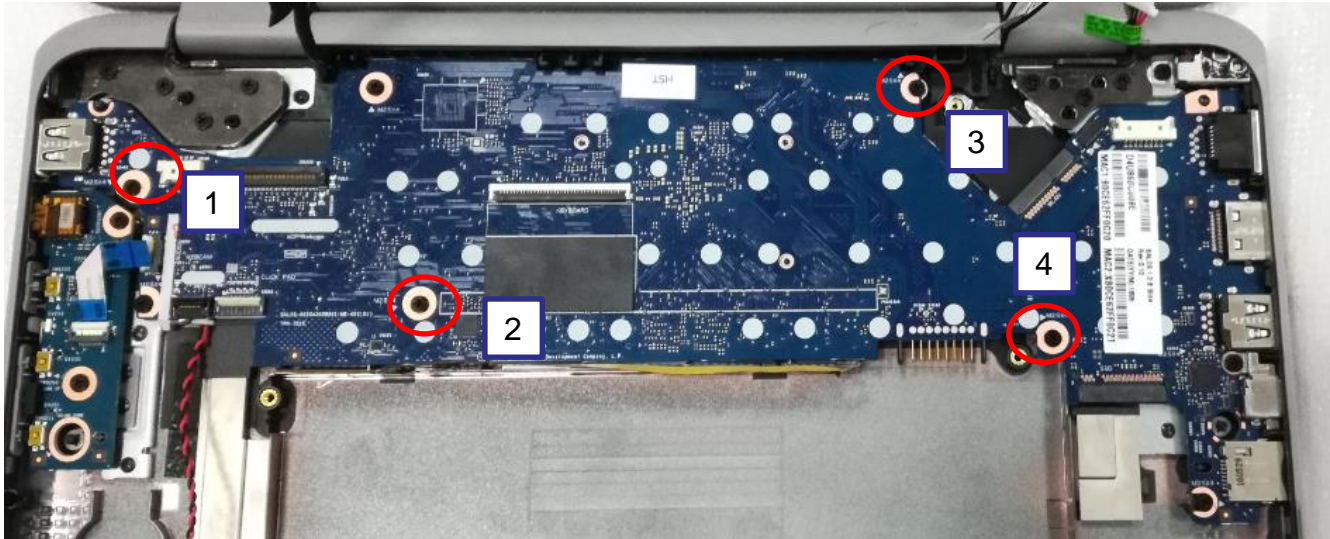


Fig 1

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Cross electric screwdriver (#1)	1		



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 20(2/2)

Process Name :Disassemble Screw

Ver. : 1.0 Date : 2018/11/7

Step : For 2.0

- 1. Disassemble the M/B screws
M2.5*4(6052A0034501)*3 (Fig. 1)
 - ❖ Torque force : 2.0 ± 0.2 Kgf. Cm
 - ❖ Pay attention to screw can' t loose, can' t slip into machine
 - ❖ The position of the lock screw on the main board has the Δ symbol

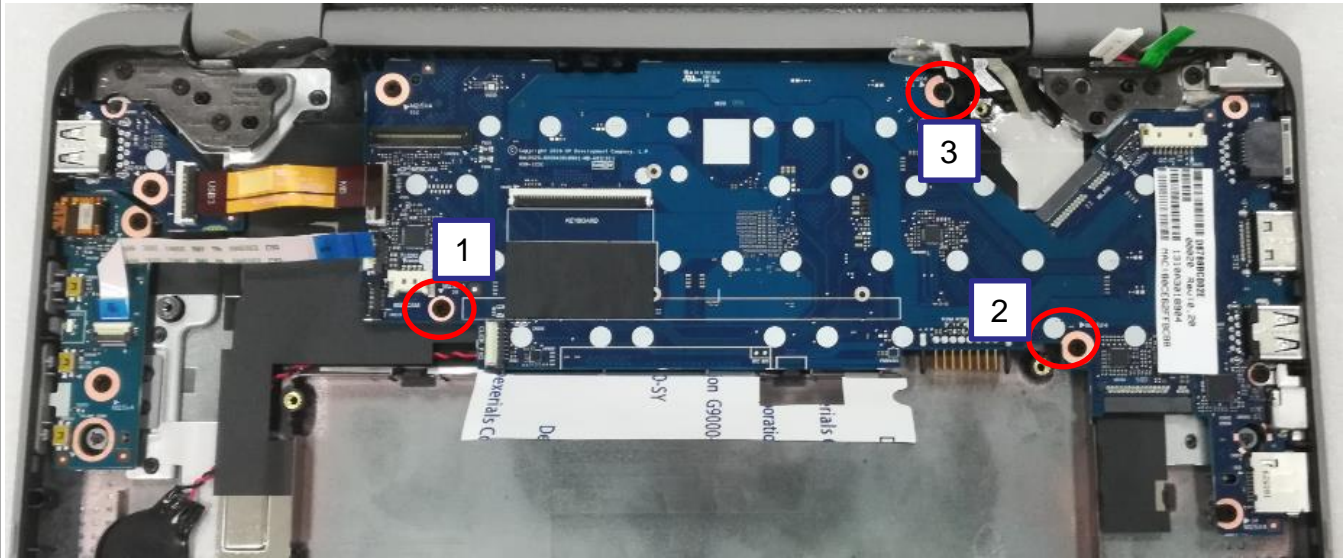


Fig 1

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Cross electric screwdriver (#1)	1		



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 21(1/2)

Process Name :Disassemble Screw

Ver. : 1.0 Date : 2018/11/7

Step : For 1.0

- 1.Disassemble the M/B screw
M2.5*4(6052A0034501)*1 (Fig 1)
- 2.Disassemble the screws
M2.5*4(6052A0034501)*2 Audio/B (Fig 1)
 - ❖ Torque force : 2.0 ± 0.2 Kgf. Cm
 - ❖ Pay attention to screw can' t loose, can' t slip into machine
 - ❖ The position of the lock screw on the main board has the Δ symbol



Fig 1

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Cross electric screwdriver (#1)	1		



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 21(2/2)

Process Name : Disassemble Screw

Ver. : 1.0

Date : 2018/11/7

- Step : For 2.0
- 1.Disassemble the MB screw

M2.5*4(6052A0034501)*1 (Fig 1)

2. Disassemble the Audio/B screw

M2.5*4(6052A0034501)*2 (Fig 1)

❖ Torque force : 2.0 ± 0.2 Kgf. Cm

❖ Pay attention to screw can' t loose, can' t slip into machine

❖ The position of the lock screw on the main board has the Δ symbol

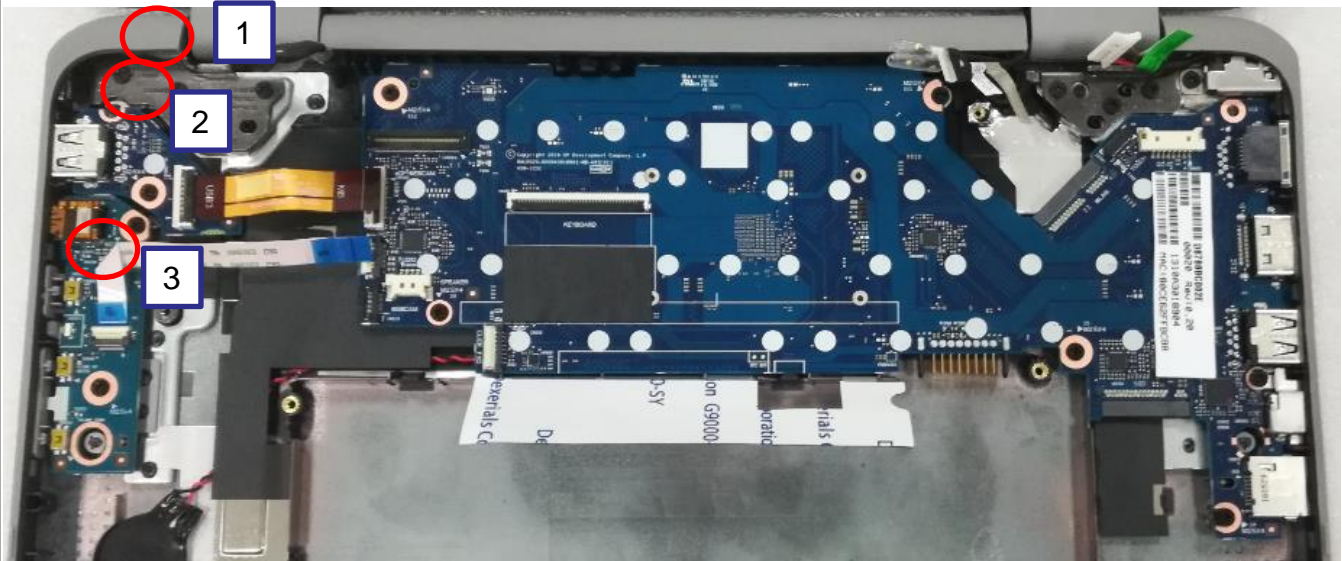


Fig 1

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Cross electric screwdriver (#1)	1		



Standard Operation Process



Document No. : Balos 1.0-2.0 disassembly SOP

Station : 22(1/2)

Process Name : Remove M/B

Ver. : 1.0

Date : 2018/11/7

Step : For 1.0

1. Remove Type C BRKT (6053B1599301) from M/B (Fig 1)
- 2.Remove M/B in the lower case
- ❖ Tilt the left front 45 degrees to remove the MB
- ❖ Drop out thermal module hook

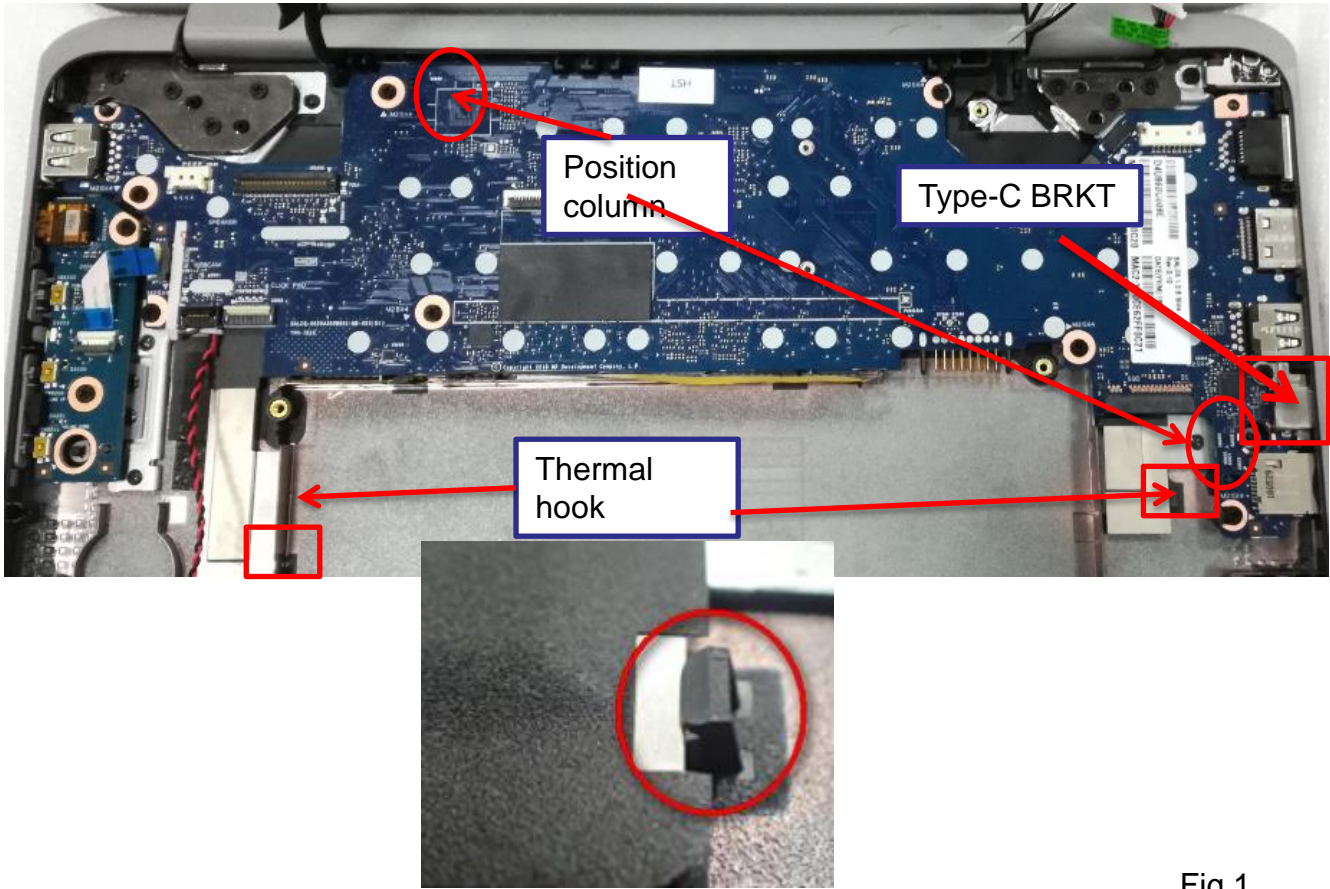


Fig 1

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Micro ion fan	1		



Standard Operation Process

Key station

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 22(2/2)

Process Name : Remove M/B

Ver. : 1.0 Date : 2018/11/7

- Step : For 2.0
- 1. Remove Type C BRKT (6053B1599301) from M/B (Fig 1)
 - 2.Remove M/B in the lower case
 - ❖ Tilt the left front 45 degrees to remove the MB
 - ❖ Drop out thermal module hook

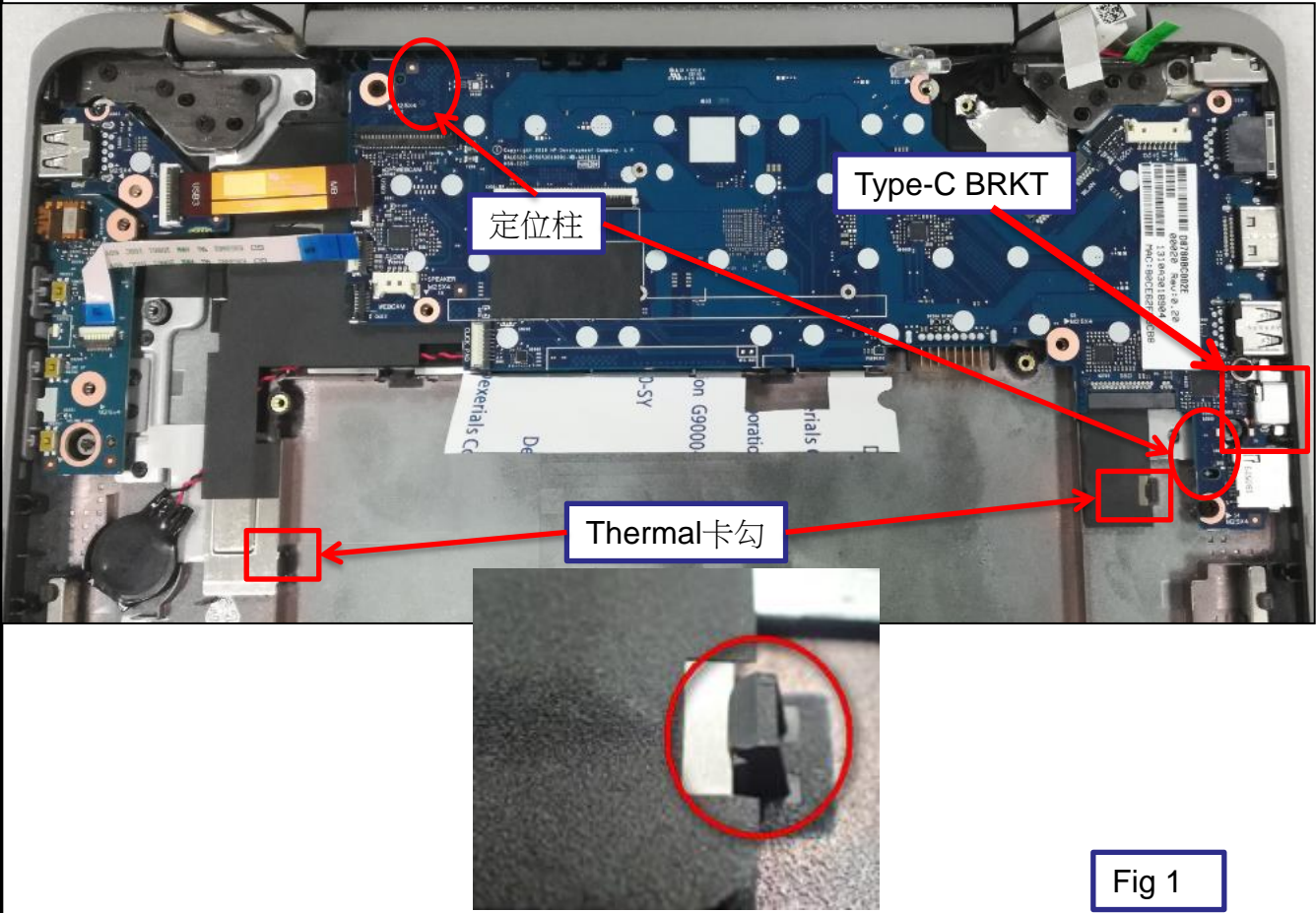


Fig 1

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Micro ion fan	1		



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 23(1/2)

Process Name : Remove DC in&Board

Ver. : 0.60 Date : 2018/10/23

Step : For 1.0

- 1. Remove DC Bracket (6053B1601401), Cable (Fig 1)
- 2. Remove Audio/B group in Base (Fig 2)



Fig 1



Fig 2

1.0

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Micro ion fan	1		



Standard Operation Process



Document No. : Balos 1.0-2.0 disassembly SOP

Station : 23(2/2)

Process Name : remove DC in 、Board

Ver. : 1.0 Date : 2018/11/7



Fig 1

- Step : For 2.0
1. Remove DC Bracket (6053B1601401), Cable (Fig 1)
 2. Remove Audio/B ,USB/B group in Base (Fig 2)

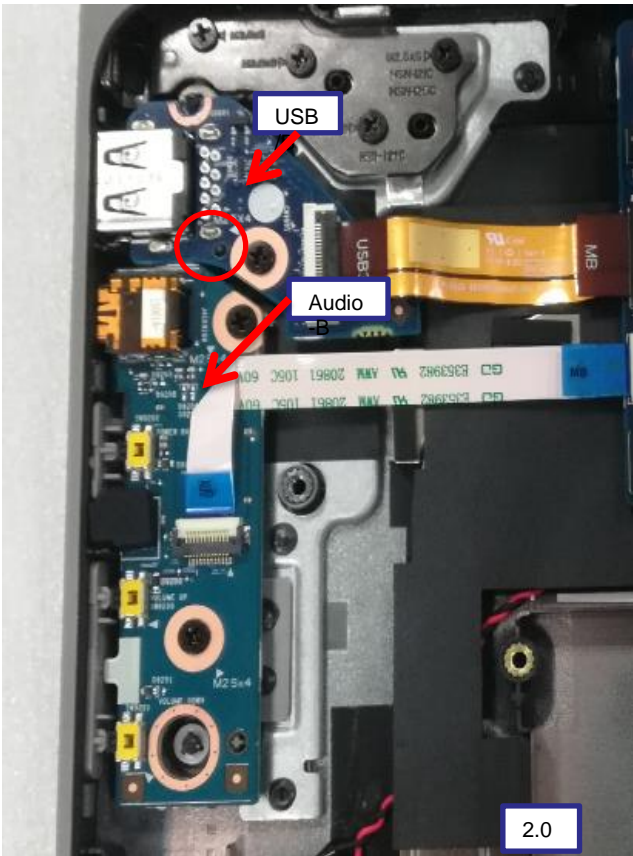


Fig 2

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Micro ion fan	1		



Standard Operation Process



Document No. : Balos 1.0-2.0 disassembly SOP

Station : 24(1/2)

Process Name Remove the cooling module

Ver. : 1.0 Date : 2018/11/7

Step : For 1.0

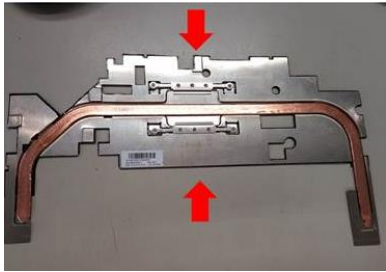


Fig 1

- 1. Placed on the fixture, face B up (Fig 1)
- 2. Remove the screw M2*3 (6052B0156101) *4.
 - ❖ Torque force : $1.5 \pm 0.2\text{Kg}\cdot\text{cm}$
 - ❖ Note that the screws are not slippery.
 - ❖ Locking order: 1 → 2 → 3 → 4
- Do not touch the solder paste during work.
- 3. Material placed in the box

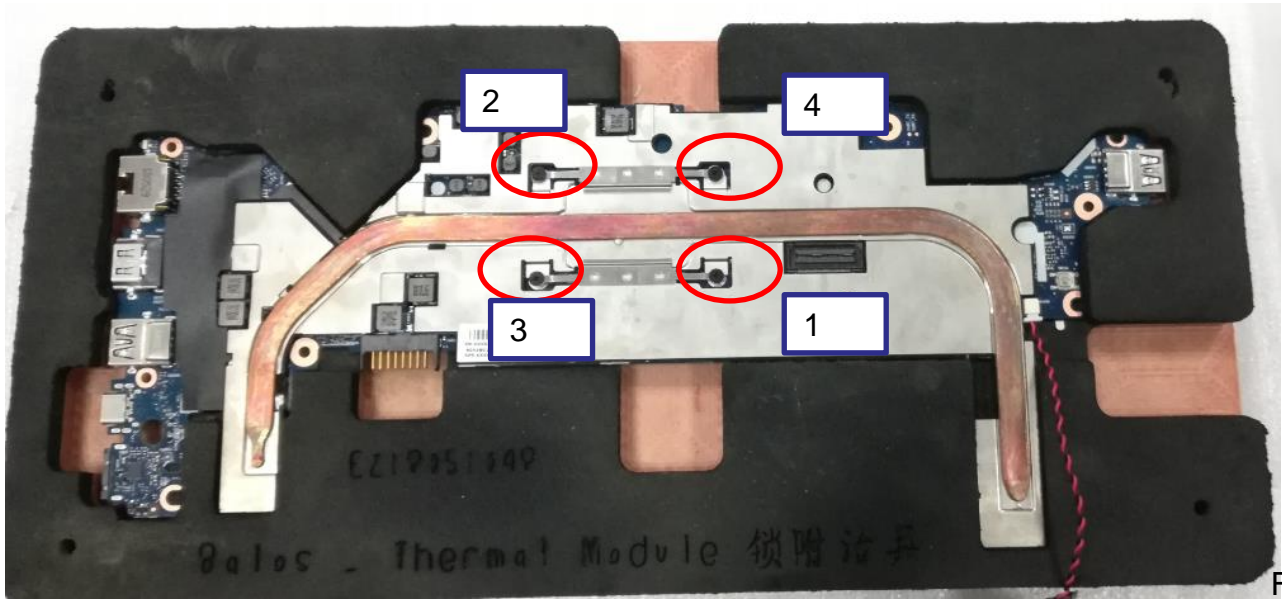


Fig 2

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Split cross electric screwdriver (#1)	1		
Thermal module support fixture	1		
Ion fan	1		



Standard Operation Process

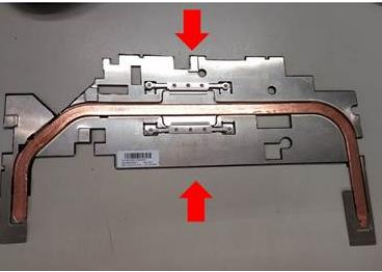


Document No. : Balos 1.0-2.0 disassembly SOP

Station : 24(2/2)

Process Name : Remove the thermal module

Ver. : 1.0 Date : 2017/11/7



Step : For 2.0

1. Place thermal module on the fixture, face B side up (Fig 1)
2. Remove the screws M2*3 (6052B0156101) *4.
 - ❖ Torque force : $1.5 \pm 0.2\text{Kgf.cm}$
 - ❖ Note that the screws are not slippery.
 - ❖ Locking order: 1 → 2 → 3 → 4
- Do not touch the solder paste
3. Put module in the box

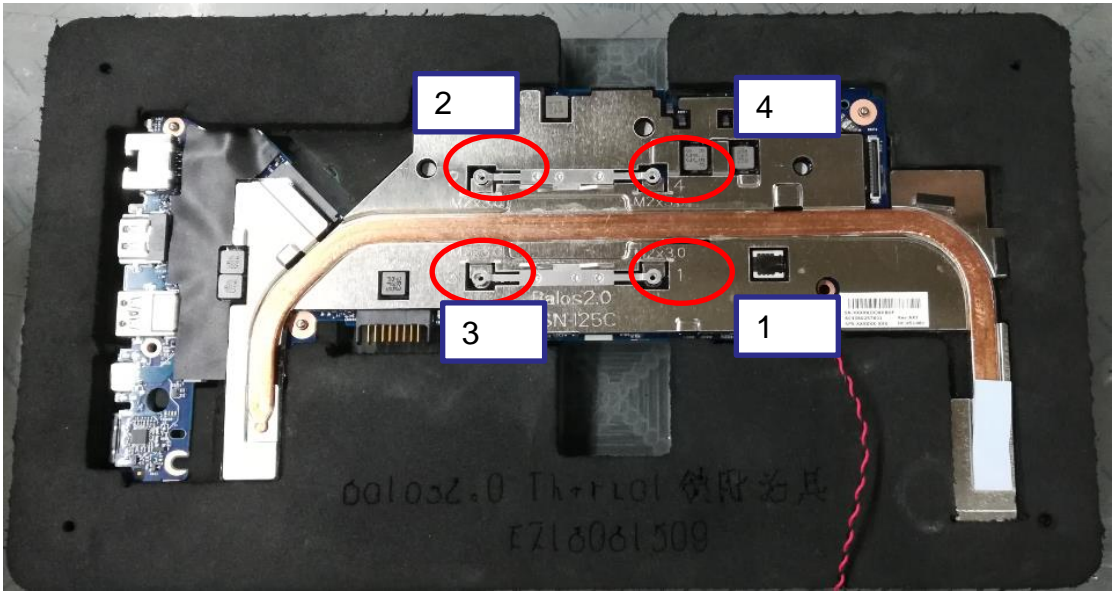


Fig 1

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Split cross electric screwdriver (#1)	1		
Thermal module support fixture	1		
Ion fan	1		



Standard Operation Process



Document No. : Balos 1.0-2.0 disassembly SOP

Station : 25(1/1)

Process Name : Disassemble Panel and Bottom case Ver. : 1.0 Date : 2018/11/7

Step :

- 1. Open the top and bottom module, then disassemble screw M2.5*5(6052A0003501)*7 Hinge (Figure 1: mark 1,2,3,4).
 - ❖ Torque force : 3.0 ± 0.2 Kgf.cm
 - ❖ Screw can not make scratch on the unit or slip into the unit.
- 2. Separate the top and bottom module and put base in the box.

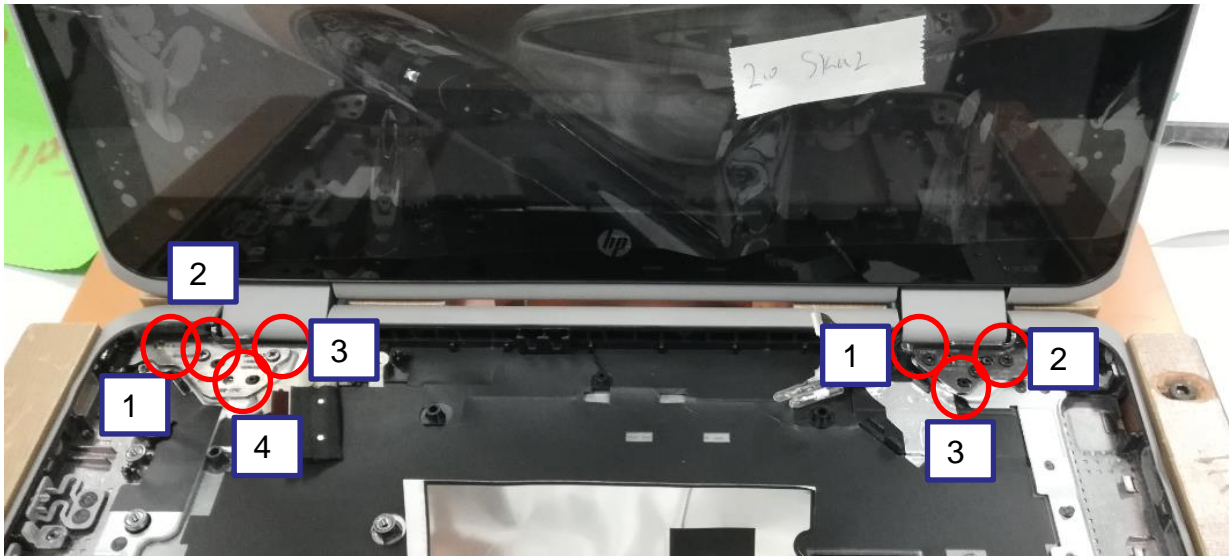


Fig 1

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Cross electric screwdriver (#1)	1		



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP Station : 26(1/2)
Process Name : Disassemble B-Cover & A-Cover Ver. : 1.0 Date : 2018/11/7

Step :

FOR Non-touch :

1.Disassemble B-Cover & A-Cover

Caution: Please disassemble bezel softly to avoid the crack of panel.



Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

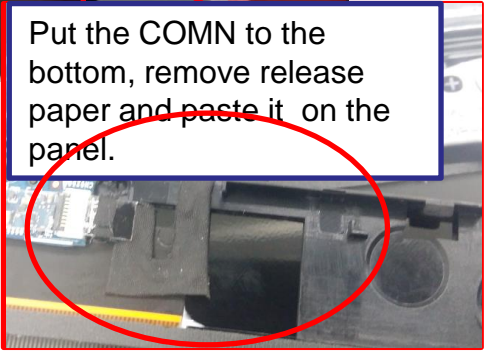
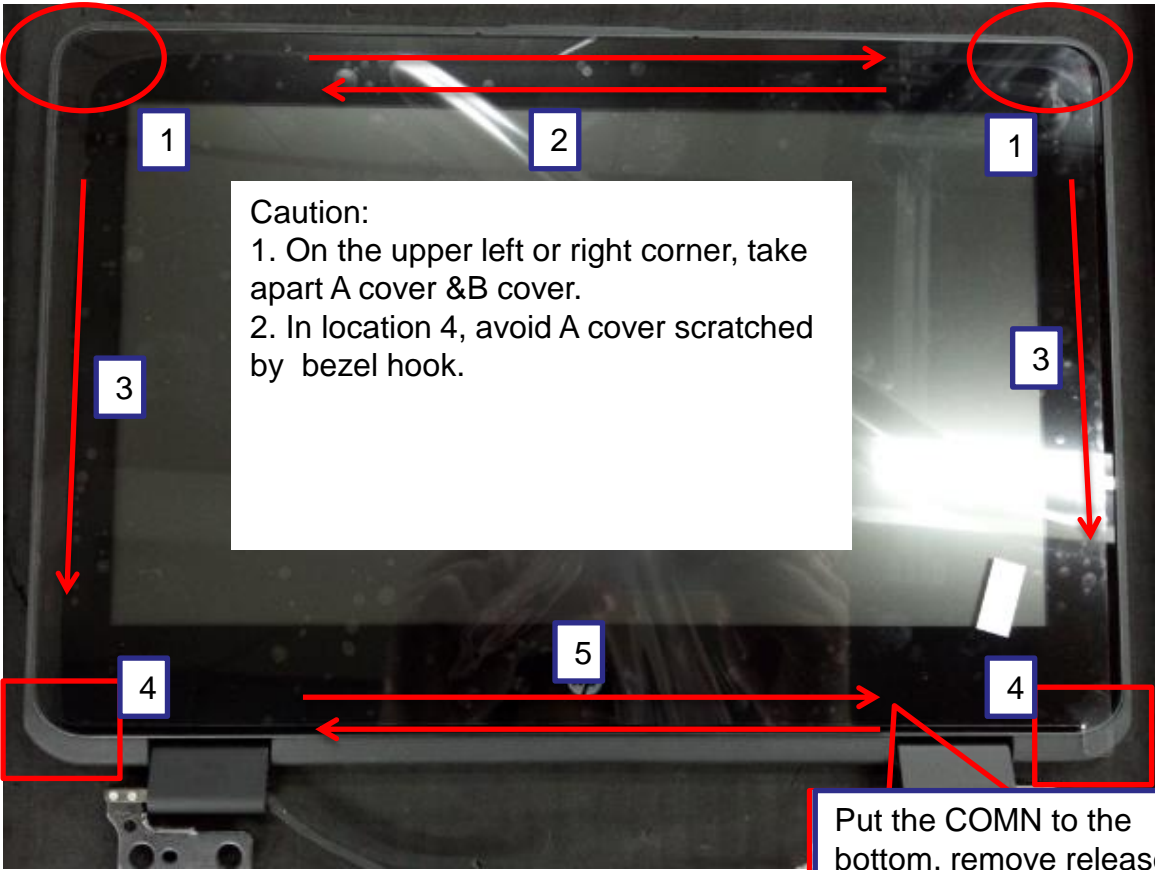
Station : 26(2/2)

Process Name : Disassemble B-Cover & A-Cover

Ver. : 1.0 Date : 2018/11/7

Step :

- 1. Disconnect cable from bezel.
- 2. Refer to the following Fig for disconnect sequence:1→2→3→4→5.



Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Micro ion fan	1		
Routing fixture	1		



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 27(1/1)

Process Name : Disassemble Hinge Cap Rubber

Ver. : 1.0 Date : 2018/11/7

Step :

- 1. Drag cable to loose the hinge cap rubber and then take out the rubber (Fig 1)

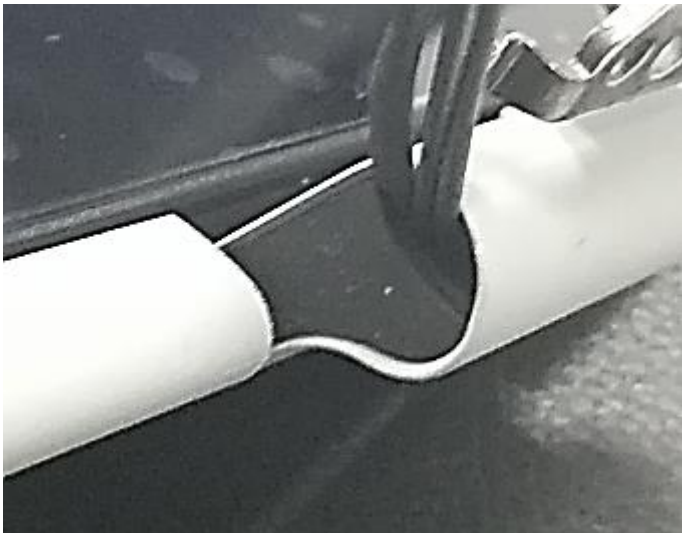
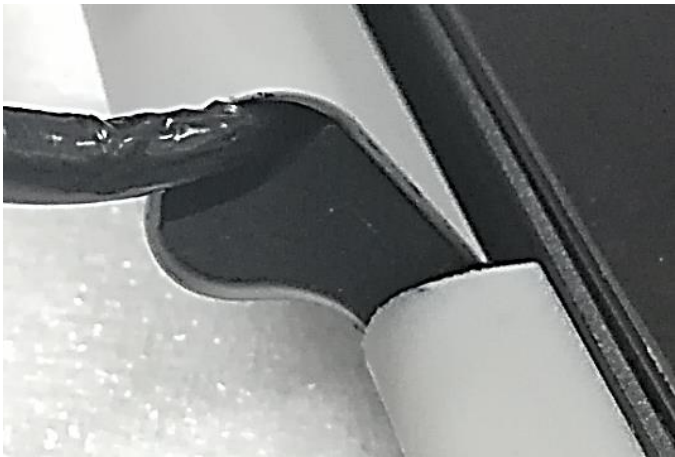


Fig 1

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Routing fixture	1		



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 28(1/1)

Process Name : Remove screw

Ver. : 1.0 Date : 2018/11/7

Step :

- 1.Remove panel screw M2*2.5(6052B0156101)
* 4 (Fig1:mark 1,2,3,4)
- Cross electric screwdriver #1
 - Torque force : 1.5 ± 0.2Kgf.cm
 - Screw can not make scratch on the unit.
 - Removal sequence: 1, 2, 3, 4.



Fig 1

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Cross electric screwdriver	1		



Standard Operation Process



Document No. : Balos 1.0-2.0 disassembly SOP

Station : 29(1/1)

Process Name : Disassemble panel

Ver. : 1.0 Date : 2018/11/7



Step :

- 1. Turnover the panel and put on the foam and then disassemble COMN (Fig 1)
➤ Caution: do not disassemble the panel by a single hand.
- 2. Put the panel in the box.



Fig 1

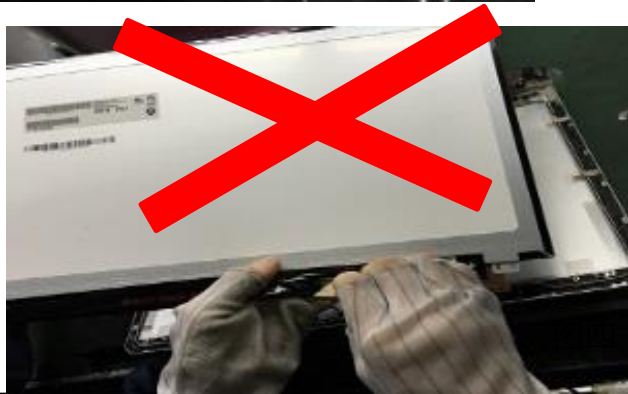


Fig 2

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Foam	1		



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 30(1/1)

Process Name : 拆螺丝

Ver. : 0.30 Date : 2018/10/23

Step :

- 1.Remove hinge screw M2*2.5(6052B0156101) * 4 (Fig1:mark 1,2,3,4)
- Cross electric screwdriver #1
 - Torque force : 1.5 ± 0.2Kgf.cm
 - Screw can not make scratch on the unit.

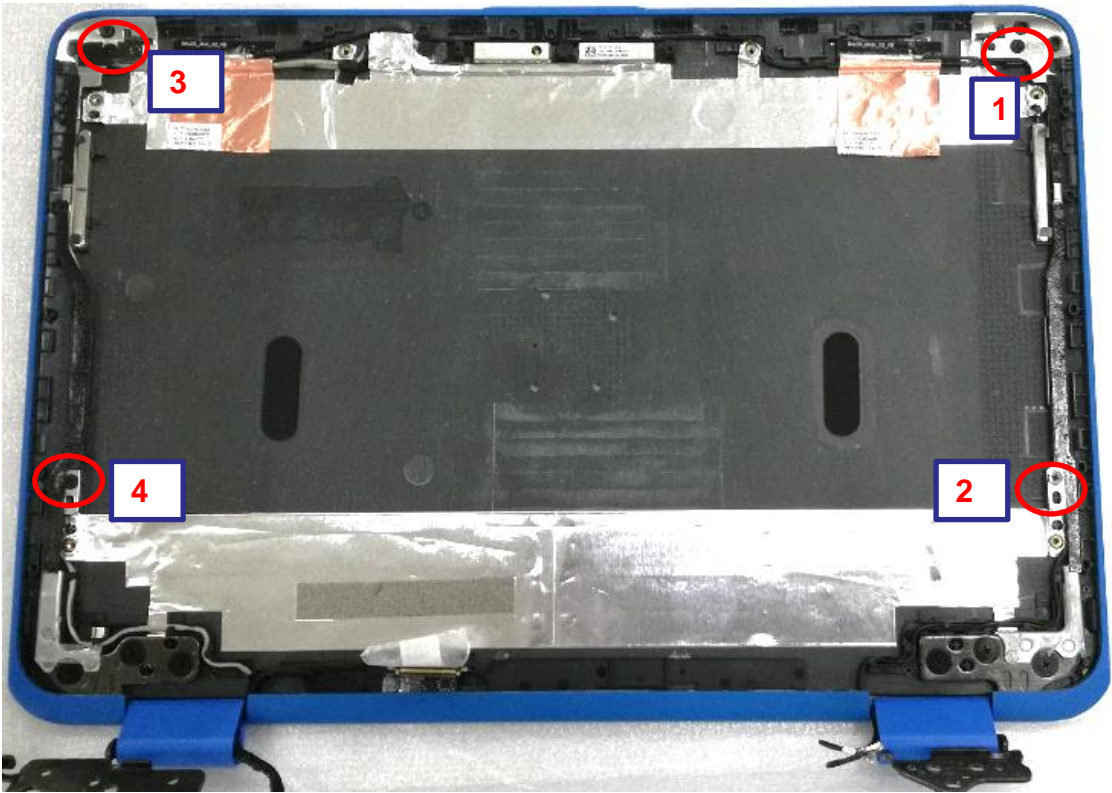


Fig 1

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Cross electric screwdriver #1	1		



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 31(1/1)

Process Name : Remove screw

Ver. : 1.0 Date : 2018/11/7

Step :

- 1.Remove hinge screw
M2.5*2.5(6052B0466901) *6 (Fig1: mark 1, 2, 3).
- Cross electric screwdriver #1
- Torque force : 3 ± 0.2 Kgf.cm
- Screw can not make scratch on the unit.
- 2. Disassemble the left and right hinge and put it into the box.

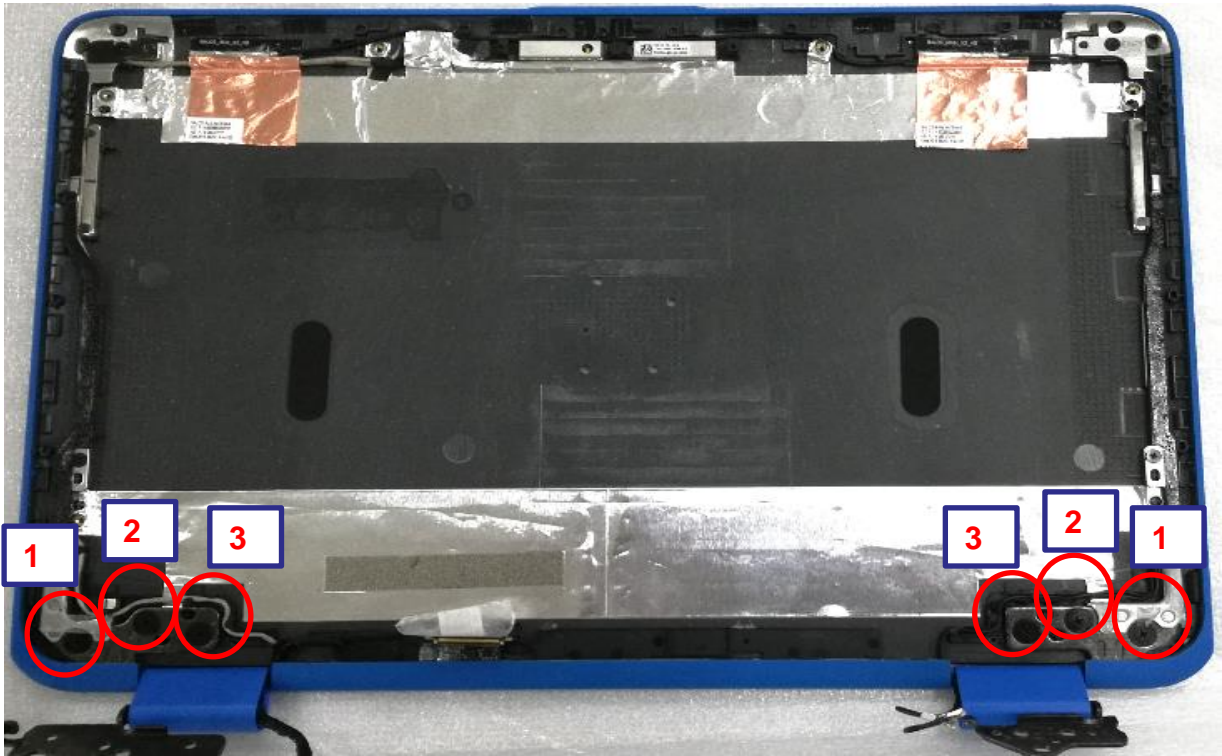


Fig 1

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Cross electric screwdriver #1	1		



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP Station : 32(1/1)
Process Name :Disassemble Upper Bracket/Camera Ver. : 0.30 Date :2018/10/23

Step :

For Non-Touch

- 1. Remove screw M2*2.5 (6052B0120001)*2
(Fig 1: mark 1,2)
 - ❖ Cross electric screwdriver #1
 - ❖ Torque force : 1.5 ± 0.2 Kgf.cm
 - ❖ Screw can not make scratch on the unit.
- For Non-Touch/Touch**
- 2. Remove aluminized paper and camera gum
(Fig 2).
 - 3. Put the material in the box.



Fig 1



Fig 2

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Cross electric screwdriver #1	1		



Standard Operation Process



Document No. : Balos 1.0-2.0 disassembly SOP

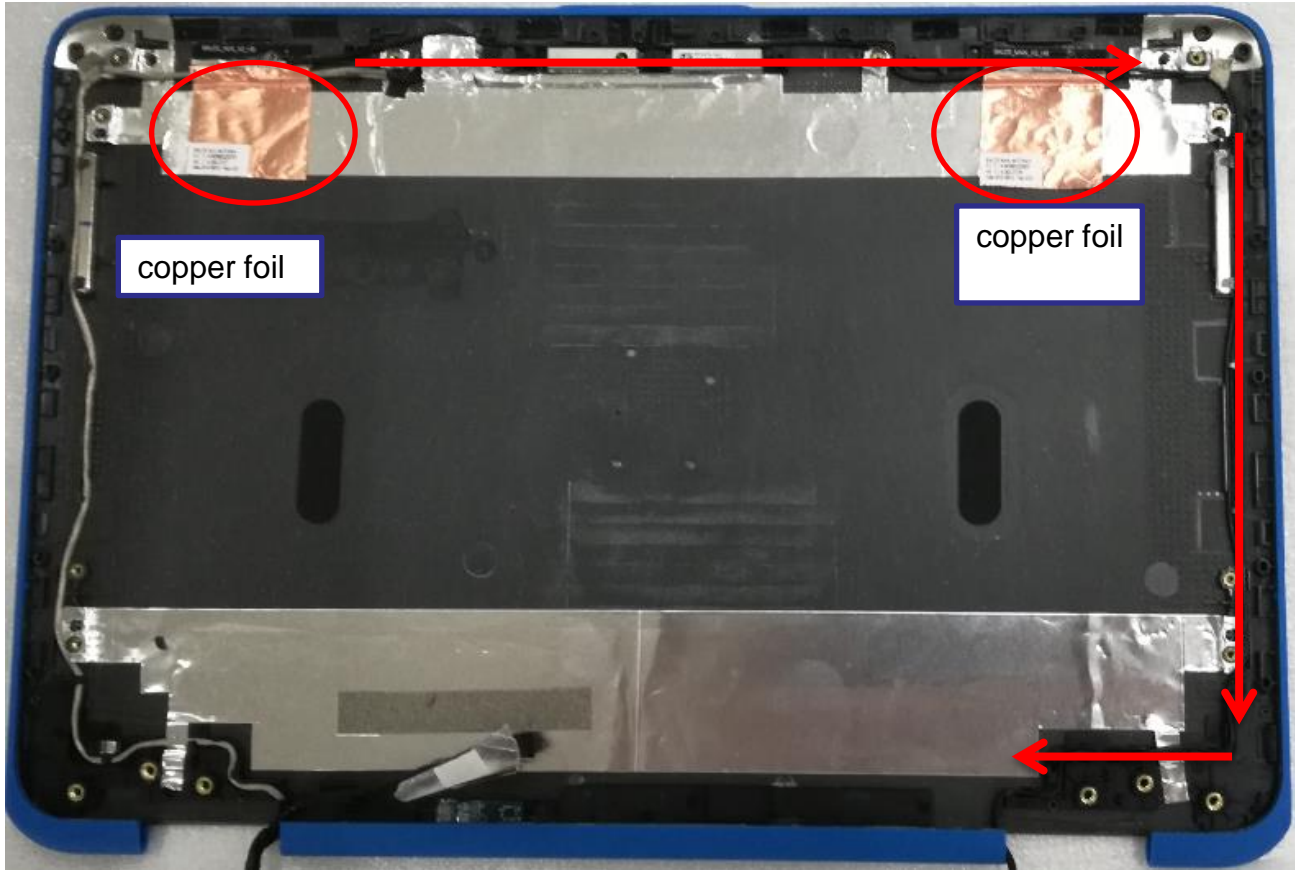
Station : 33(1/1)

Process Name : Disconnect Antenna Cable

Ver. : 1.0 Date : 2018/11/7

Step :

1.Remove antenna copper foil and disassemble antenna from card slot of A-Cover hook (Fig 1).



Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Routing fixture	1		



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

Station : 34(1/1)

Process Name : Disassemble G-sensor/B

Ver. : 1.0 Date : 2018/11/7

Step :

- 1. Remove gum and disassemble G-Sensor/B(1310A3009701).
- 2. Open CONN latch and get G-sensor.
- 3. Put material in the box.



Fig 1

Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Routing fixture	1		



Standard Operation Process

Document No. : Balos 1.0-2.0 disassembly SOP

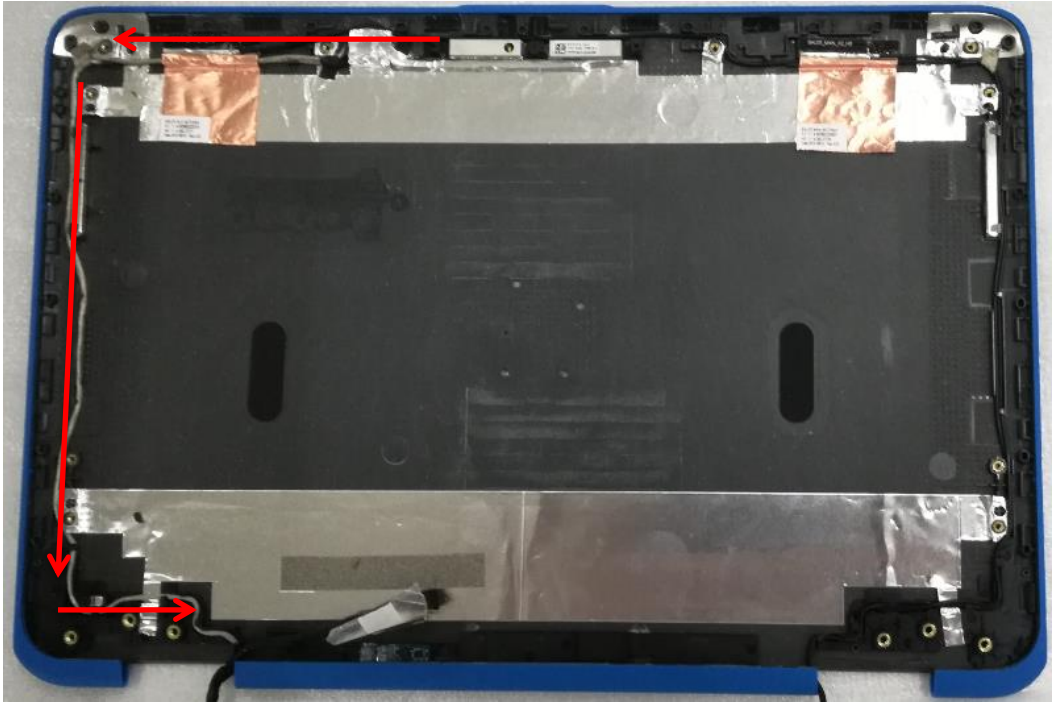
Station : 35(1/1)

Process Name : Disassemble CCD Cable

Ver. : 1.0 Date : 2018/11/7

Step :

- 1. Open camera, LED/B,CONN Latch and take out camera, LED/B.
- 2. Take out CCD Cable from A-Cover hook and slot



Note: Carry PCB gently, can't touch component on the board, any defect, Pls inform production leader immediately

Fixture List(Fixture Specification)	Qty	Fixture List(Fixture Specification)	Qty
Routing fixture	1		