



Product End-of-Life Disassembly Instructions

Product Category: Workstations

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

HP Z2 Mini G9 Workstation Desktop PC

FCW-I001DM-180

FCW-I001DM-280

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	<input checked="" type="checkbox"/> Main board (MB) PCB <input checked="" type="checkbox"/> Solid state drive (SSD) PCB * 2pcs <input checked="" type="checkbox"/> Wireless LAN module (WLAN) PCB <input type="checkbox"/> Touch module PCB <input checked="" type="checkbox"/> Power supply PCB <input checked="" type="checkbox"/> External Keyboard (KB) <input checked="" type="checkbox"/> External Mouse <input checked="" type="checkbox"/> Others: <u>GPU PCB, Riser Board, DDR*2 pcs, Flex Board, Power board</u>	13
Batteries, excluding Li-Ion batteries. This includes standard alkaline, coin or button style batteries	<input checked="" type="checkbox"/> RTC/CMOS battery <input type="checkbox"/> Others: _____	1
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.)	Li-Ion battery(ies) are attached to the product by: <input type="checkbox"/> screws <input type="checkbox"/> snaps <input type="checkbox"/> adhesive <input type="checkbox"/> other. Explain _____	

Item Description	Components and parts requiring selective treatments	Quantity of items included in product
Mercury-containing components. For example, mercury in lamps, display backlights, scanner lamps, switches, batteries		
Liquid Crystal Displays (LCD) with a surface greater than 100 sq cm. Includes background illuminated displays with gas discharge lamps	<input type="checkbox"/> Panel LCD	
Cathode Ray Tubes (CRT)		
Capacitors / condensers (Containing PCB/PCT)		
Electrolytic Capacitors / Condensers measuring greater than 2.5 cm in diameter or height	<input type="checkbox"/> Power Supply capacitor(s) or condenser(s)	
External electrical cables and cords	<input checked="" type="checkbox"/> AC power cord <input type="checkbox"/> Audio, video or data cables <input type="checkbox"/> Other: _____	
Gas Discharge Lamps		
Plastics containing Brominated Flame Retardants (not including external electrical cables and cords, 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.		
Components and waste containing asbestos		
Components, parts and materials containing refractory ceramic fibers		
Components, parts and materials containing radioactive substances		
Components containing chlorofluorocarbons (CFC), hydrochlorofluorocarbons (HCFC) or hydrofluorocarbons (HFC), hydrocarbons (HC)		

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	T8
Screwdriver	T10

Screwdriver	T15

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 & Operation Name (detail see 3.2 Optional Graphic)
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 Keyboard](#)
- [Generic Mouse](#)
- [Generic cables and cords](#)

3.2 Location of components requiring selective treatment. The photos and/or graphics below identify the location of the parts or components requiring selective treatment within the main unit. For End-of-Life product disassembly instructions of external accessories including external power supply (EPS), external keyboard (KB) external mouse and external cables and cords, refer to the following URL: [End-of-Life Product Disassembly Instructions \(hp.com\)](#)

Main board (MB) PCB ----- Station 19
Solid state drive (SSD) PCB * 2pcs ----- Station 7
Wireless LAN module (WLAN) PCB ----- Station 11
GPU PCB ----- Station 2
Riser Board PCB ----- Station 5
DDR* 2pcs ----- Station 8
Flex Board ----- Station 9
Power board ----- Station 13
CMOS battery ----- Station 13

MANUFACTURING PROCESS INSTRUCTIONS

MECHANICAL ASSEMBLY

MODEL : HP Z2 Mini G9 Workstation Desktop PC

Sub-assembly name:	Disassembly SOP		
Document No.:	Disassembly SOP		
Written by:	Yang. yadong	Revision:	1.00
Date:	2021/12/25	Page:	1 of 28

A.Current station version list:

Station	Version	Station	Version	Station	Version	Station	Version	Station	Version	Station	Version
1	1.00	11	1.00								
2	1.00	12	1.00								
3	1.00	13	1.00								
4	1.00	14	1.00								
5	1.00	15	1.00								
6	1.00	16	1.00								
7	1.00	17	1.00								
8	1.00	18	1.00								
9	1.00	19	1.00								
10	1.00	20	1.00								

B.Version Modify list:

Date	Station	Content	Ver.	Design
2021/12/25	ALL	Initial	1.**	yang.yadong

ge 4

Checked by : Luo.Allen Prepared by : Zhou.Gui-ling



Standard Operation Procedure

Document No. : Disassembly SOP

Station: 1(1/1)

Operation Name : Release Base screw

Ver. : 1.00 Edit date: 2021/12/25

Step :



1. Disassembly Top cover.

- ❖ Torque : 2.5 ± 0.2 kgf.cm
- ❖ screw can not be slipped.



1.Open latch

2.Cover Slide forward and lift up



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

ge 5

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Standard Operation Procedure

Document No. : Disassembly SOP

Station: 2(1/2)

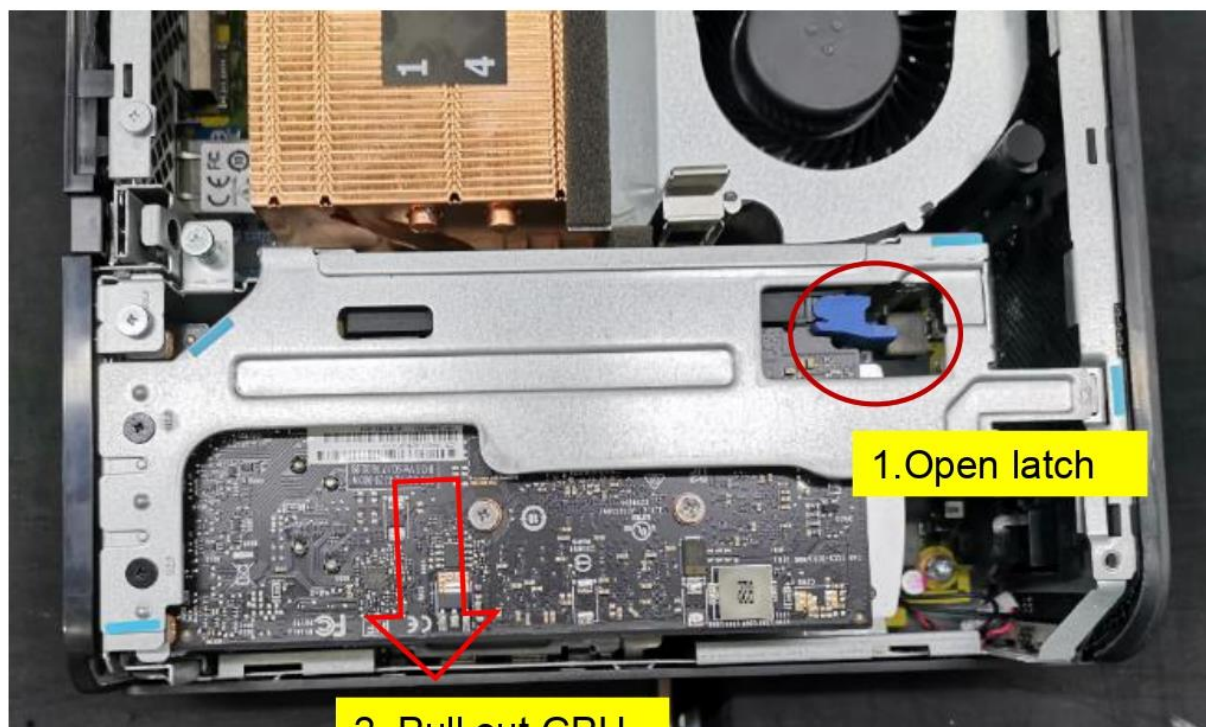
Operation Name : Disassembly GPU & riser cage

Ver. : 1.00 Edit date: 2021/12/25









Step :

For : T1000/600/400

 1. Disassembly GPU.



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

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Standard Operation Procedure

Document No. : Disassembly SOP

Station: 2(2/2)

Operation Name : Disassembly riser cage

Ver. : 1.00 Edit date: 2021/12/25

Step :

For : T2000/AMD

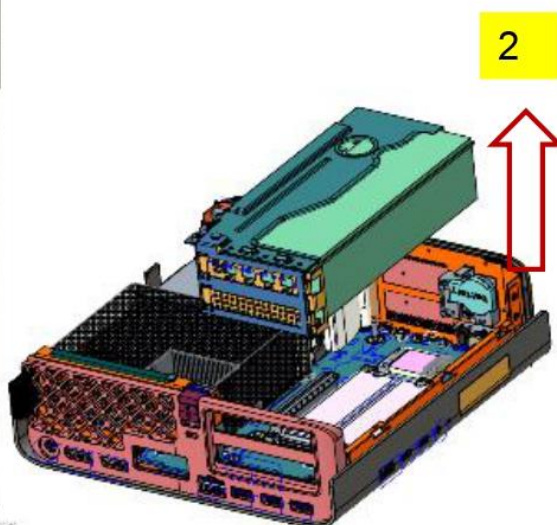
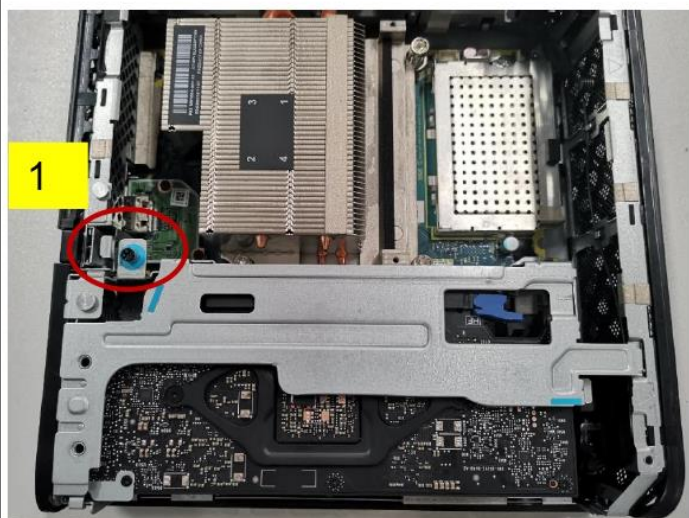


1. Loosen screw 1 PCS

❖ Torque : 2.0 ± 0.2 Kgf · cm

❖ screw can not be slipped.

2. Pull out Riser cage module



图一

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

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

ge 7

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Standard Operation Procedure

Document No. : Disassembly SOP

Station: 3(1/1)

Operation Name : Disassembly riser cage

Ver. : 1.00 Edit date: 2021/12/25

Step : For : T1000/600/400/UMA

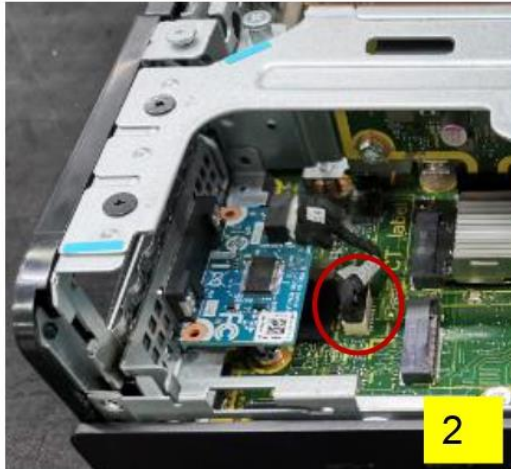


1. Loosen screw 1 PCS

❖ Torque : 2.0 ± 0.2 Kgf · cm

❖ screw can not be slipped.

2. Pull out the Dual USB FPC or serial /B cable From the M/B



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

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

je 8

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Standard Operation Procedure

Document No. : Disassembly SOP

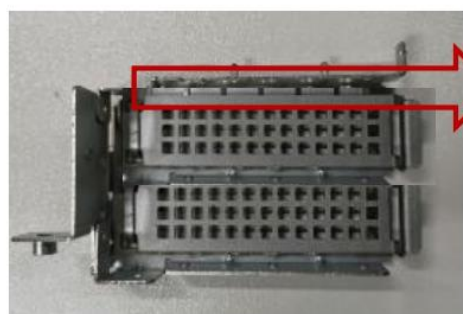
Station: 4(1/1)

Operation Name : Disassembly riser cage

Ver. : 1.00 Edit date: 2021/12/25

Step :

1. Pull up and out the Riser cage
2. Loosen screw from Riser cage
 - ❖ Torque : 1.5 ± 0.2 kgf.cm
 - ❖ screw can not be slipped.
3. Pull out the dummy bracket



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

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

ge 9

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Standard Operation Procedure

Document No. : Disassembly SOP

Station: 5(1/1)

Operation Name : Disassembly Riser Board

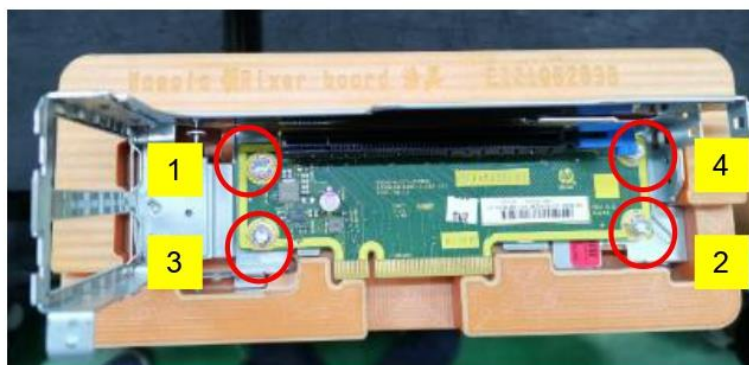
Ver. : 1.00 Edit date: 2021/12/25

Step :









-  1. Loosen screw 4pcs from Riser Board , pull out riser board

❖ Torque : 2.5 ± 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							
Screw driver	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

3 10

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Standard Operation Procedure

Document No. : Disassembly SOP

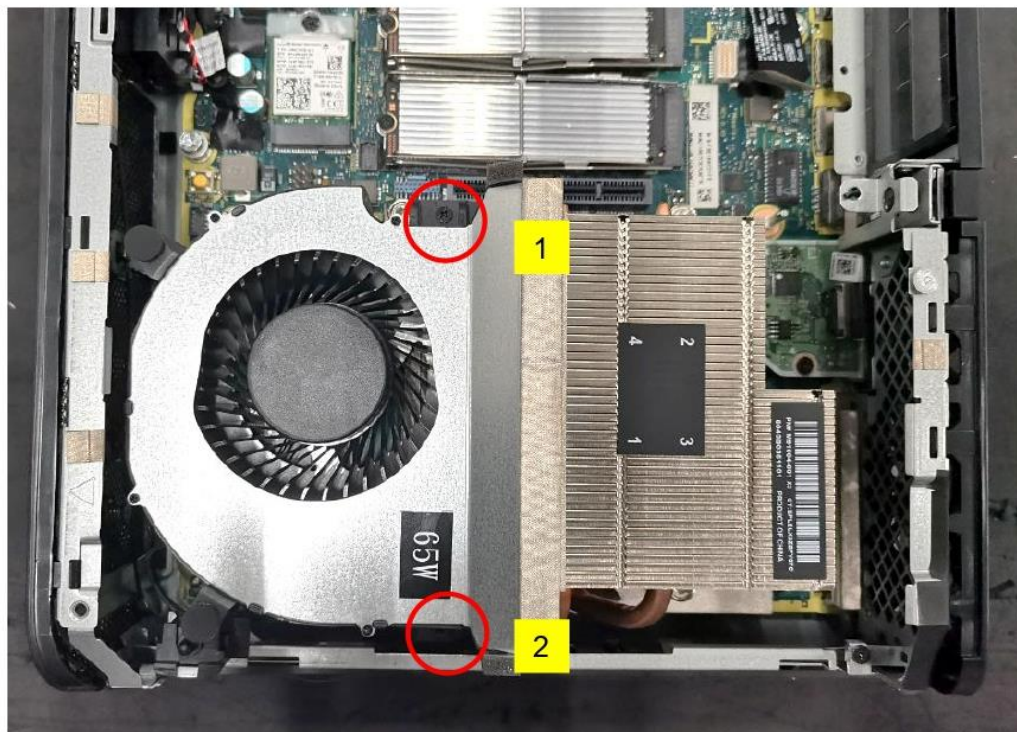
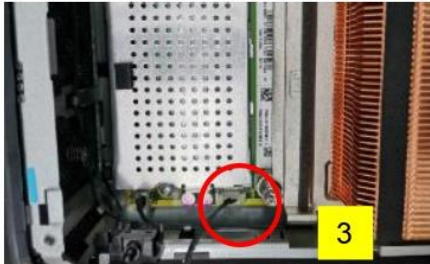
Station: 6(1/1)

Operation Name : Disassembly CPU fan

Ver. : 1.00 Edit date: 2021/12/25

Step :

1. Loosen screw 2 pcs from Fan.
❖ Torque : 1.5 ± 0.2 kgf.cm
❖ screw can not be slipped.
2. Take out the fan and pull out the cable



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

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

3 11

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Standard Operation Procedure

Document No. : Disassembly SOP

Station: 6(2/2)

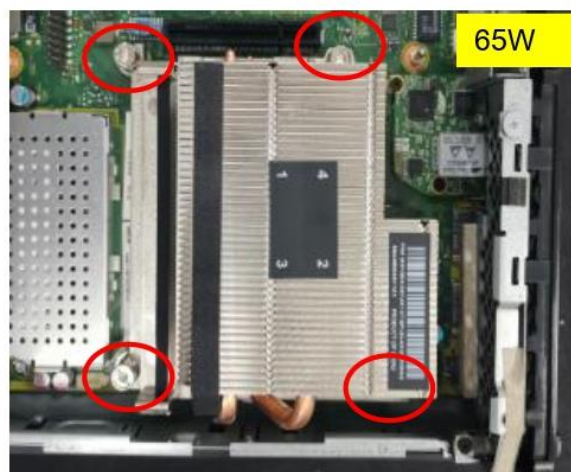
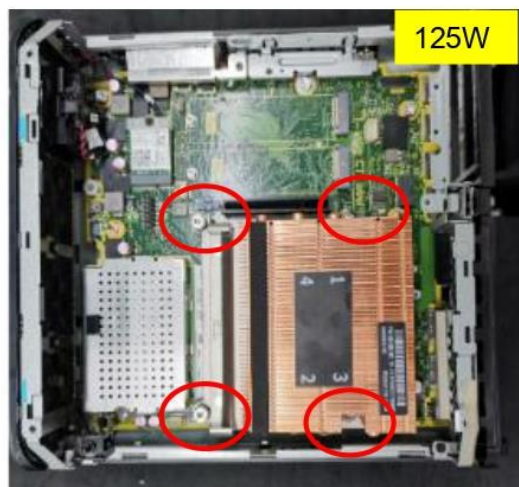
Operation Name : Disassembly CPU thermal module Ver. : 1.00 Edit date: 2021/12/25

Step :

1. Loosen screw 4pcs from CPU thermal, take Out the thermal .

❖ Torque : 2.5 ± 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							
Screw driver	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

3 12

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Standard Operation Procedure

Document No. : Disassembly SOP

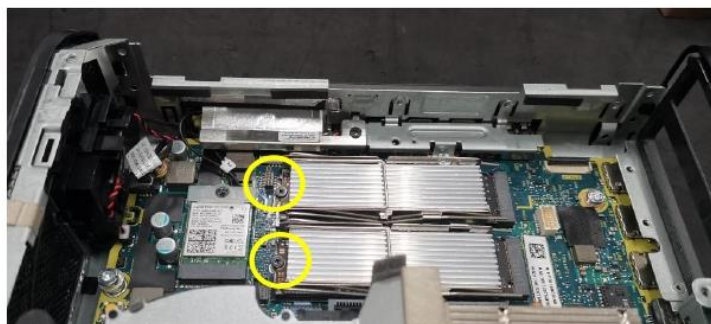
Station: 7(1/1)

Operation Name : Disassembly SSD

Ver. : 1.00 Edit date: 2021/12/25

Step :

1. Loosen screw 2pcs from M/B.
 ❖ Torque : 1.5 ± 0.2 kgf.cm
 ❖ screw can not be slipped.
2. Take out the SSD module



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

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

13

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Standard Operation Procedure


Document No. : Disassembly SOP

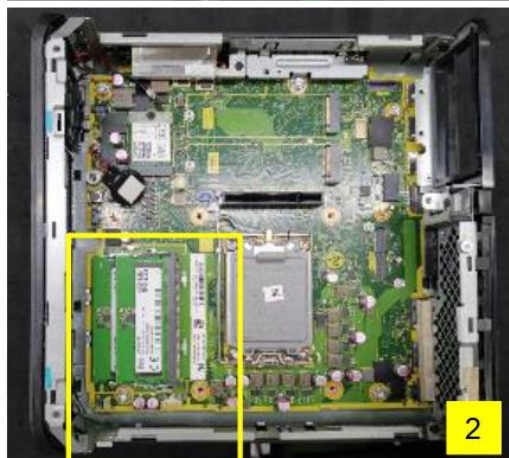
Station: 8(1/1)

Operation Name : Disassembly DDR door &DDR









Ver. : 1.00 Edit date: 2021/12/25

Step :

-  1. Disassembly DDR door (pull up and out).
2. DisassemblyDDR



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

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Standard Operation Procedure

Document No. : Disassembly SOP

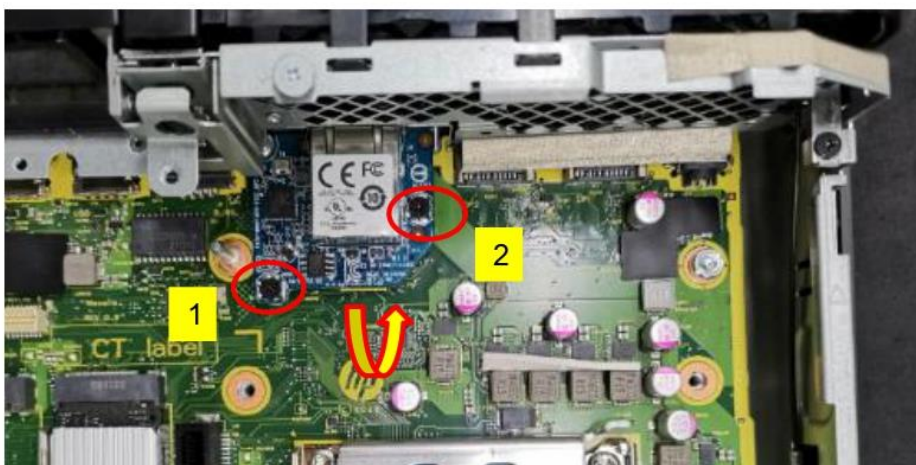
Station: 9(1/1)

Operation Name : Disassembly Flex Board

Ver. : 1.00 Edit date: 2021/12/25

Step :

1. Loosen screw 2pcs from M/B.
❖ Torque : 1.5 ± 0.2 kgf.cm
❖ screw can not be slipped.
2. Lift up Flex Board and take out Flex Board



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

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

3 15

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Standard Operation Procedure


Document No. : Disassembly SOP

Station: 10(1/1)

Operation Name : Disassembly CPU









Ver. : 1.00 Edit date: 2021/12/25

Step :

-  1. Open ILM connecting rod, take out CPU
2. Close ILM connecting rod



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

3 16

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Standard Operation Procedure

Document No. : Disassembly SOP

Station: 11(1/1)

Operation Name : Disassembly WLAN

Ver. : 1.00 Edit date: 2021/12/25

Step :

1. Disassembly WLAN Card CAP · pull out Wlan antenna
 2. Loosen screw 1pcs from Wlan · and take out WLAN.
- ❖ 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							
Screw driver	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

17

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Standard Operation Procedure



Document No. : Disassembly SOP

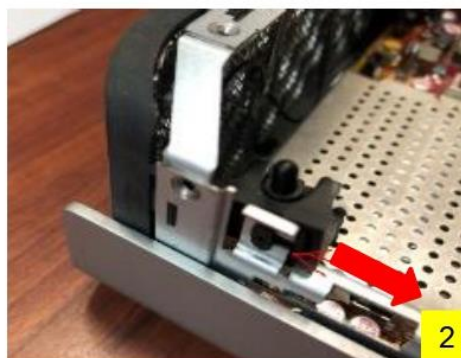
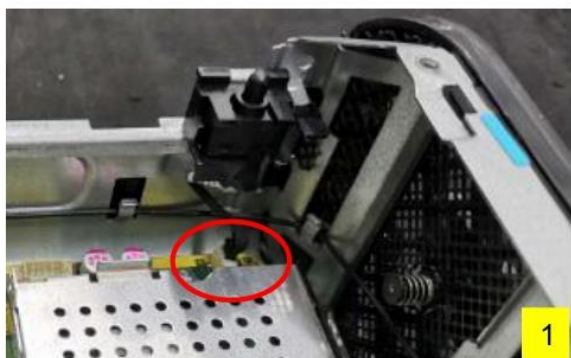
Station: 12(1/1)

Operation Name : Disassembly hood sensor









Ver. : 1.00 Edit date: 2021/12/25

Step :

-  1. Pull out hood sensor cable from M/B
-  2. Take out hood sensor



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

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

3 18

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Standard Operation Procedure




Document No. : Disassembly SOP

Station: 13(1/1)

Operation Name : Disassembly Power board

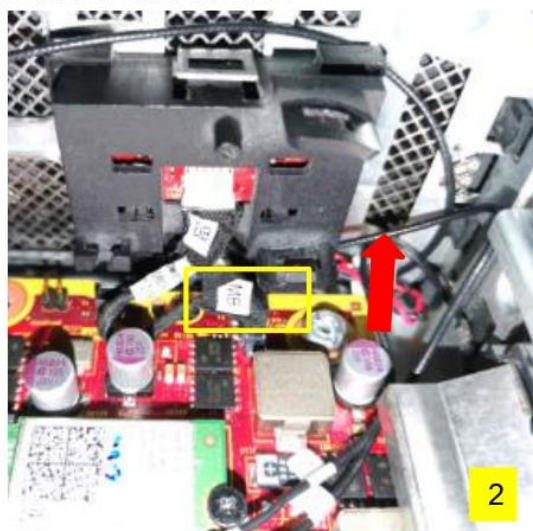
Ver. : 1.00 Edit date: 2021/12/25

Step :

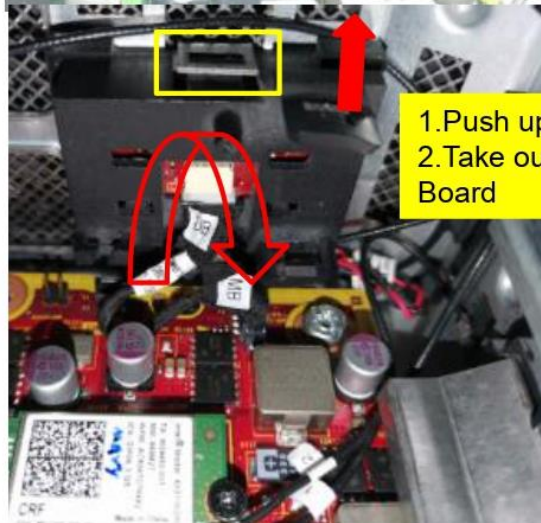
-  1. Take out CMOS battery
-  2. Pull out power board cable from M/B
-  3. Take out Power board module



1











2



3

1. Push up the hook
2. Take out the Power Board

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

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

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Standard Operation Procedure

Document No. : Disassembly SOP

Station: 14(1/2)

Operation Name : Disassembly main antenna

Ver. : 1.00 Edit date: 2021/12/25

Step :

1. Loosen screw 1pcs from Siade bracket.
 - ❖ Torque : 1.5 ± 0.2 kgf.cm
 - ❖ screw can not be slipped.
2. Pull back and take out main antenna



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

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

20

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Standard Operation Procedure

Document No. : Disassembly SOP

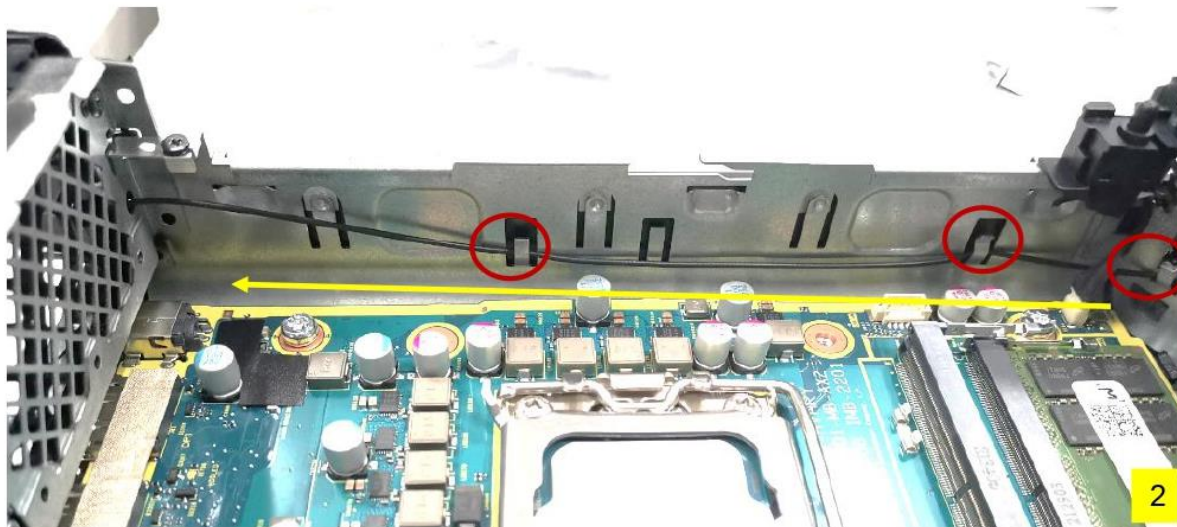
Station: 14(2/2)

Operation Name : Disassembly AUX antenna

Ver. : 1.00 Edit date: 2021/12/25

Step :

1. Remove the antenna along the wiring path



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

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

21

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Standard Operation Procedure

Document No. : Disassembly SOP

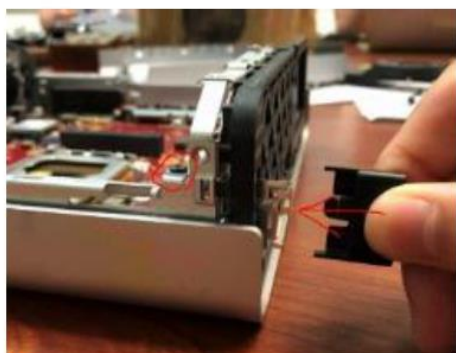
Station: 15(1/1)

Operation Name : Disassembly AUX antenna

Ver. : 1.00 Edit date: 2021/12/25

Step :

1. Pull out antenna cover
2. Loosen screw from base pan.
❖ Torque : 1.5 ± 0.2 kgf.cm
❖ screw can not be slipped.
3. Take out Aux antenna



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

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

22

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Standard Operation Procedure

Document No. : Disassembly SOP

Station: 16(1/1)

Operation Name : Disassembly said bracket

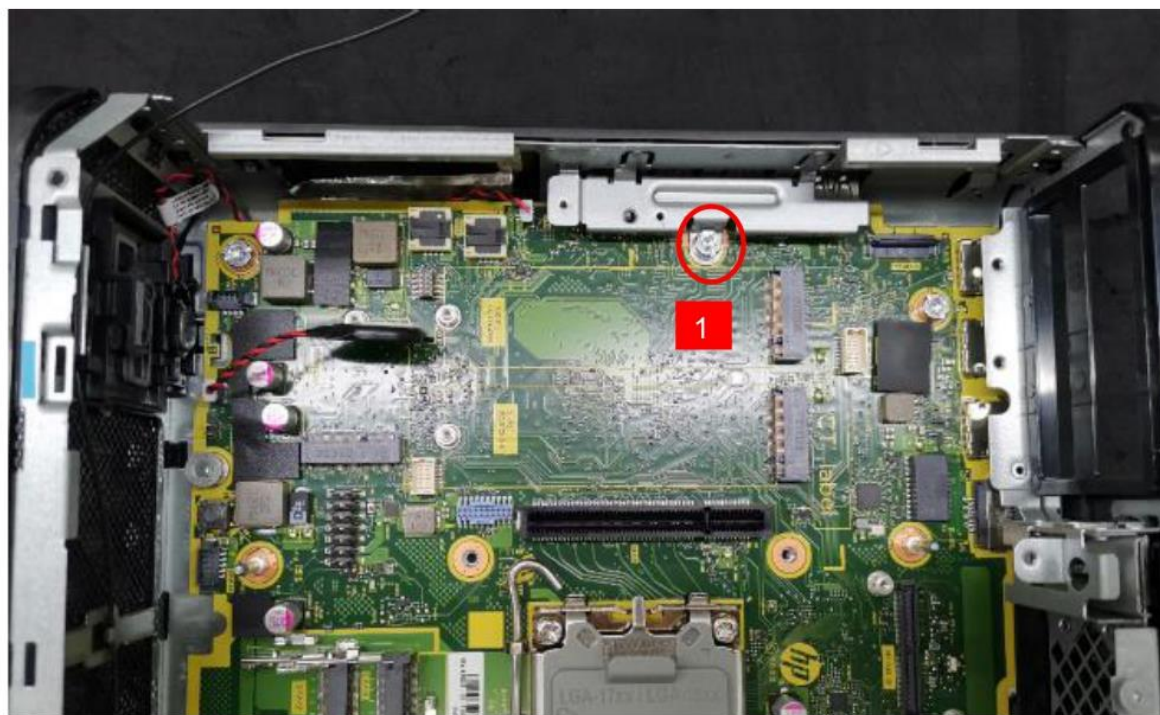
Ver. : 1.00 Edit date: 2021/12/25

Step :

1. Loosen screw from side bracket ,and take out side bracket.

❖ Torque : 2.5 ± 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							
Screw driver	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

23

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Standard Operation Procedure

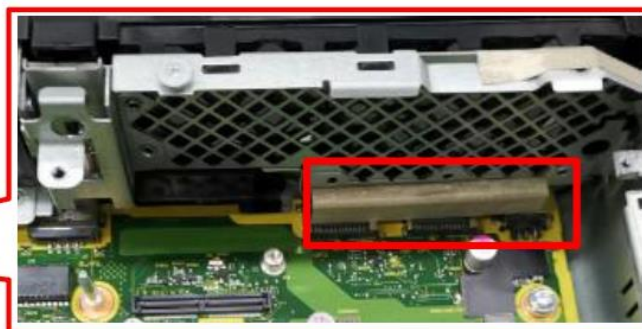
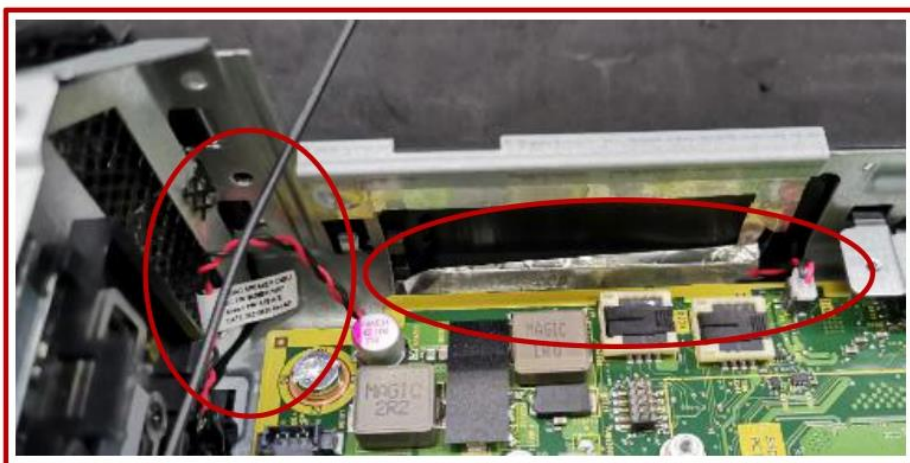
Document No. : Disassembly SOP

Station: 17(1/1)

Operation Name : Disassembly speaker cable&Sponge Ver. : 1.00 Edit date: 2021/12/25

Step :

1. Pull out Speaker cable from M/B.
2. Take out Sponge from M/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



Standard Operation Procedure

Document No. : Disassembly SOP

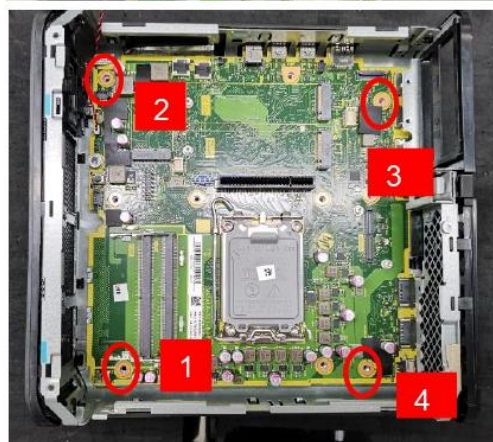
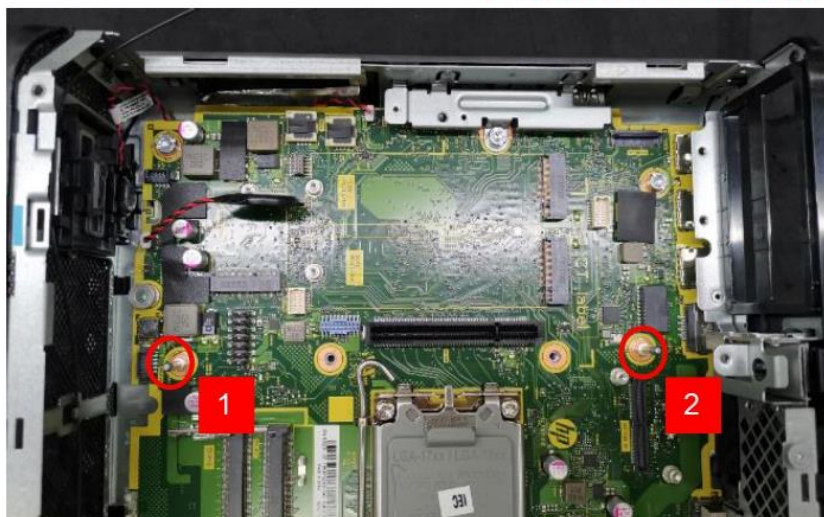
Station: 18(1/1)

Operation Name : Disassembly MB screw

Ver. : 1.00 Edit date: 2021/12/25

Step :

1. Loosen screw 2pcs from MB.
 2. Lossen screw 4PCS from MB
- ❖ 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							
Screw driver	1								
		Safe	Qual ity	Order	Fixtur e	Hear	Look	Do	Static

25

Prepared : Zhou.gui-ling Issued : IE department



Standard Operation Procedure

Document No. : Disassembly SOP

Station: 19(1/1)

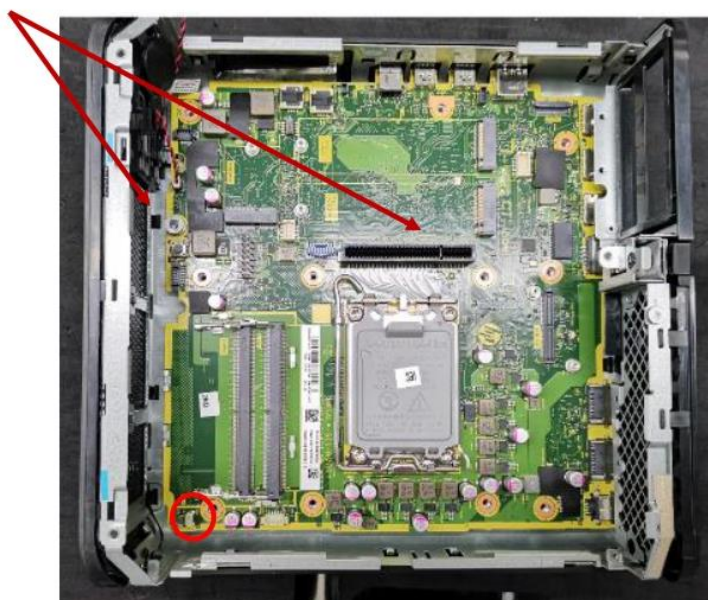
Operation Name : Disassembly MB

Ver. : 1.00 Edit date: 2021/12/25









Step :

1. Disassembly MB

Hold M/B NUT , Lift
slowly the M/B , and
Take it out slowly



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

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Standard Operation Procedure

Document No. : Disassembly SOP

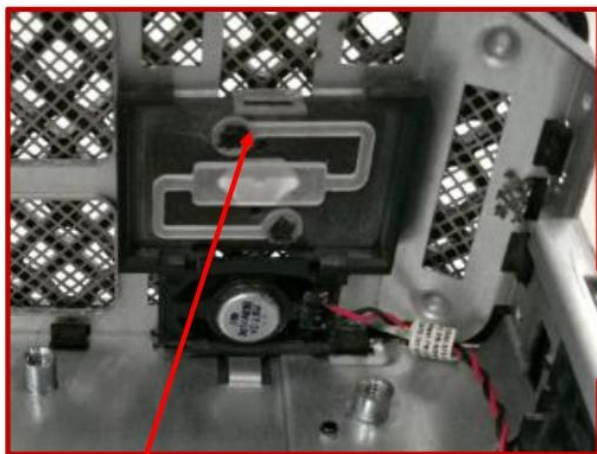
Station: 20(1/1)

Operation Name : Disassembly speaker

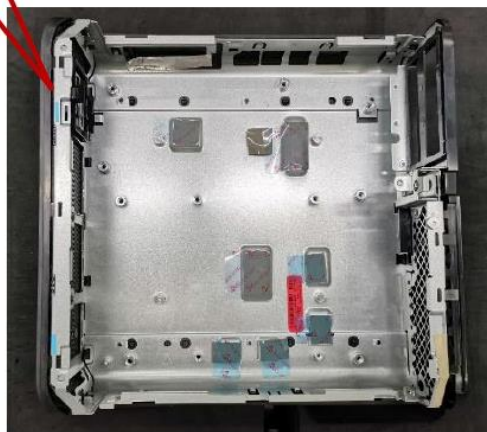
Ver. : 1.00 Edit date: 2021/12/25

Step :









-  1. Disassembly Speaker.



Push the hook upward ,
take out Speaker



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

27

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