

Swan_soundbar

DVT3_Assembly review



ALT Co., Ltd.

Issued Date 2021.08.30

Ver.1.0

Issued by SH, SON

- All of issues should be submit the 8D report.
- Assembly Issue

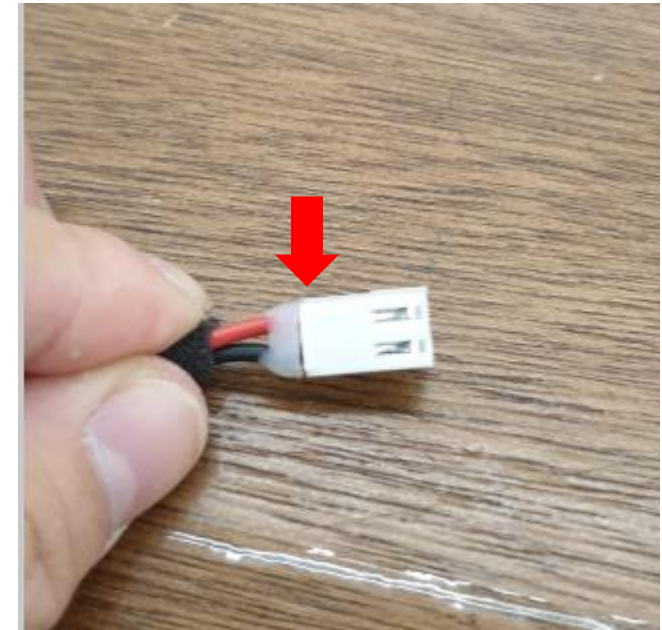
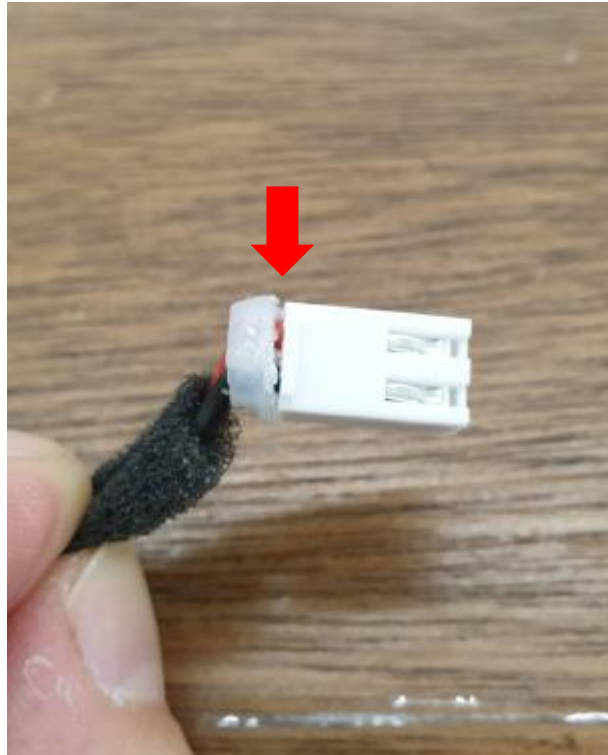
Critical	7
Major	9
Minor	4

- Grade criteria
 - Critical : Impact the product function.
 - Major : Impact the parts damage.
 - Minor : Need to SOP improvement
- Should be made improvements before mass production

• Assembly - Defect

- The glue of amp power cable / power cable
 - DVT3 is applied hot melt type. But it is cracked after assembly.
 - Recommend to use "DOWSIL_7091"

Minor

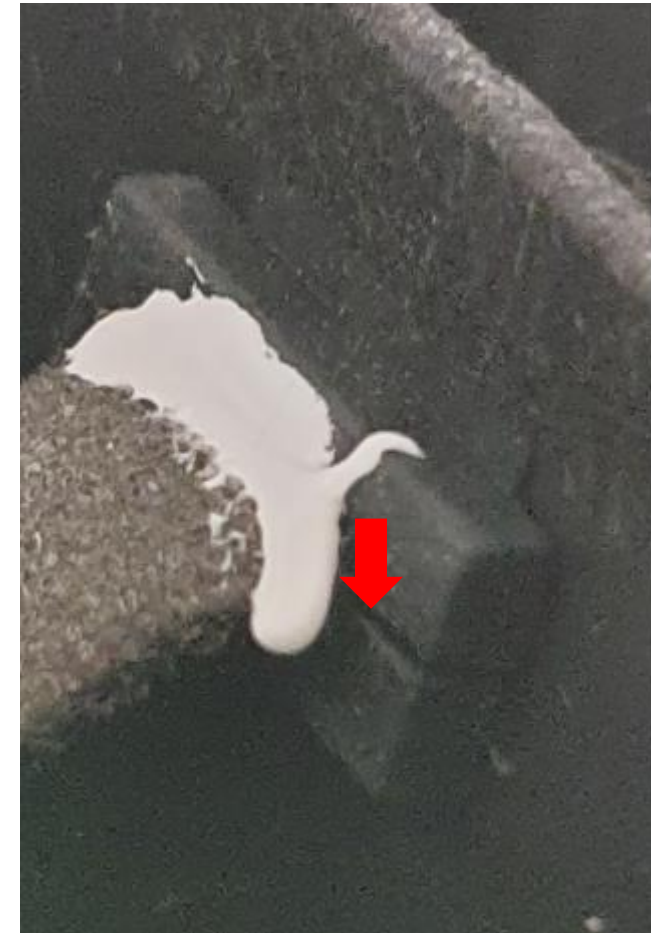


- Assembly - Defect

- Glue apply defect

- Recommend the Change glue materials : DOWSIL_7091

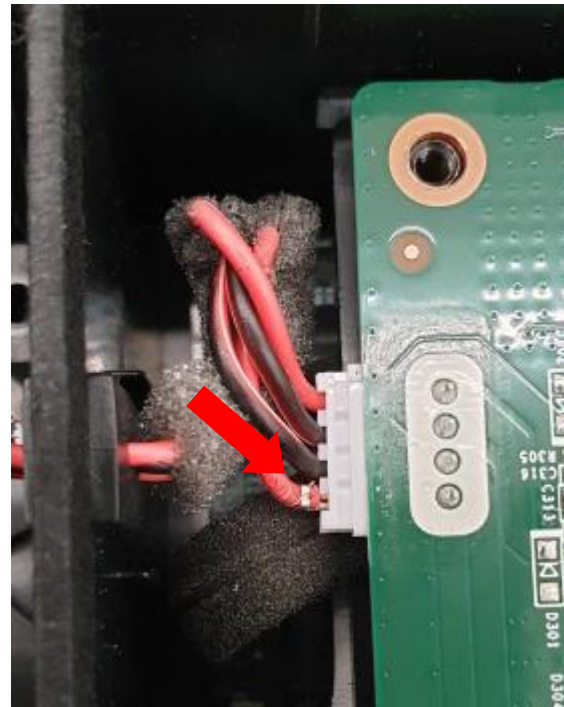
Critical



• Assembly – Speaker Defect

- Please tug test on IQC
 - From 1st MP to 15K production
 - Due to cable pin reworked.

Critical



- Assembly - Defect

- Screw cover assembled under foot

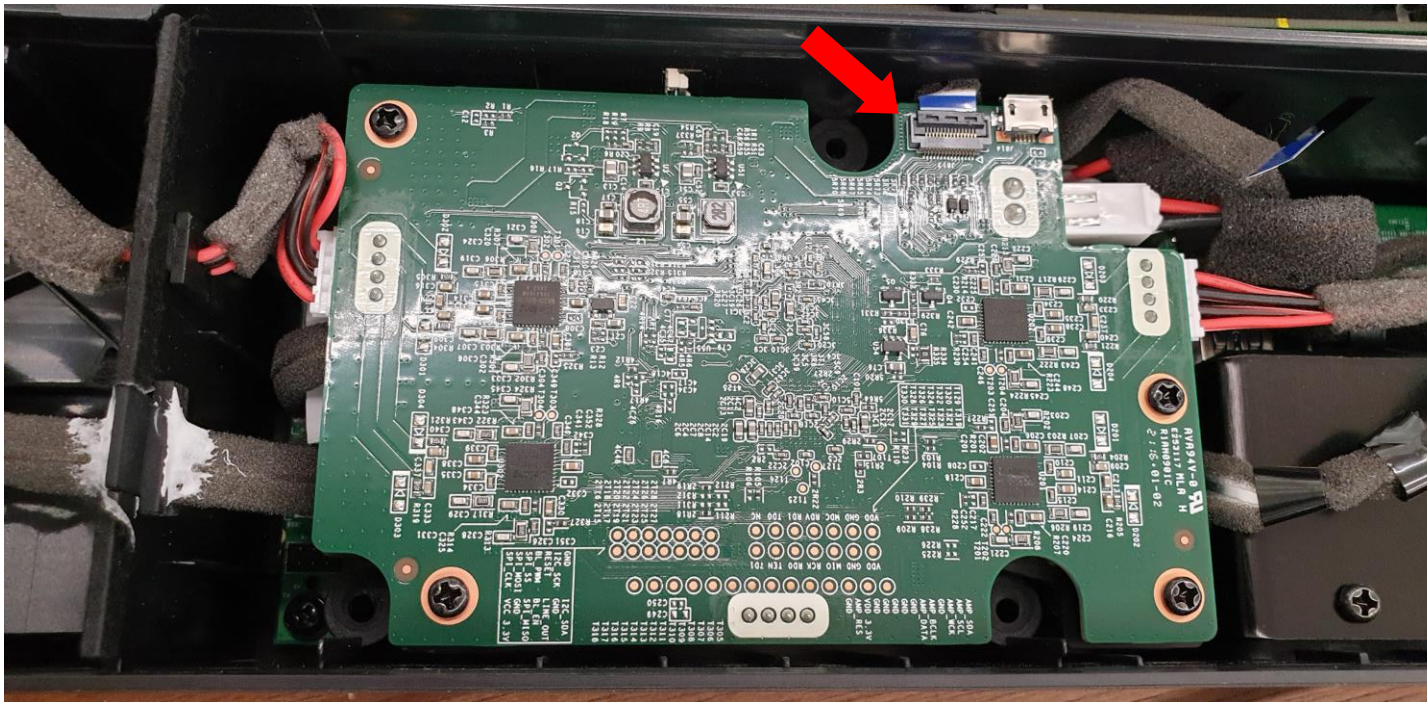
Minor



- Assembly - Defect

- Tape missing on the FFC connector

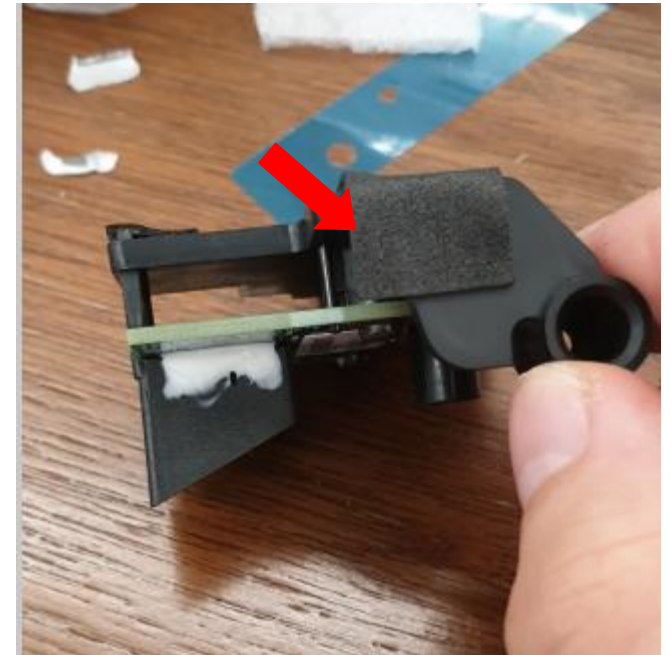
Major



- Assembly - Defect

- Gasket attachment NG
 - Gasket should be cover bottom side

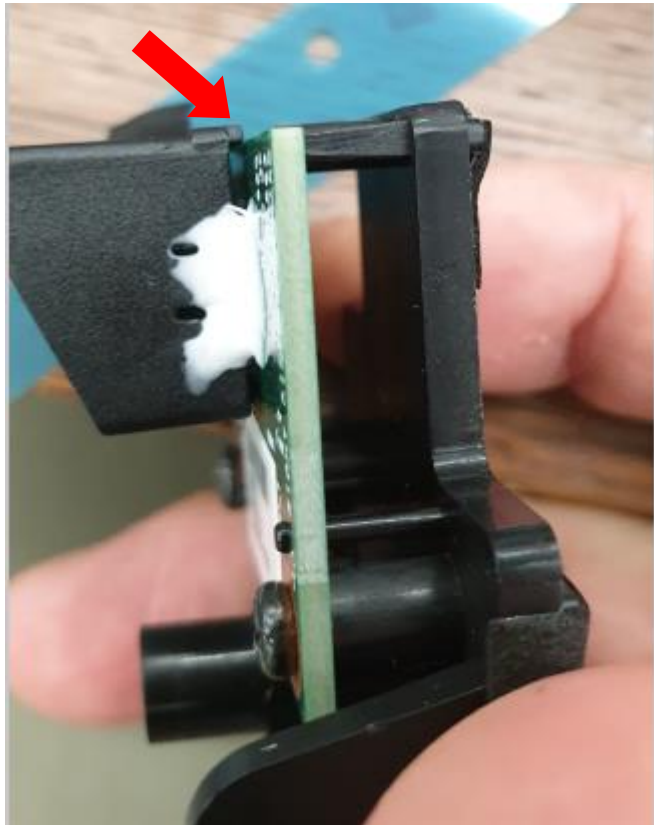
Major



• Assembly - Defect

- Light pipe assembly NG
 - Light pipe is not fully inserted.
 - Not detected next operation – apply glue

Minor



• Assembly - Defect

- Wrong screw assembly
 - Damage the bottom housing
 - The screw should be apply M3*7
 - But assembled M3*10 screw

Major



• Assembly - Defect

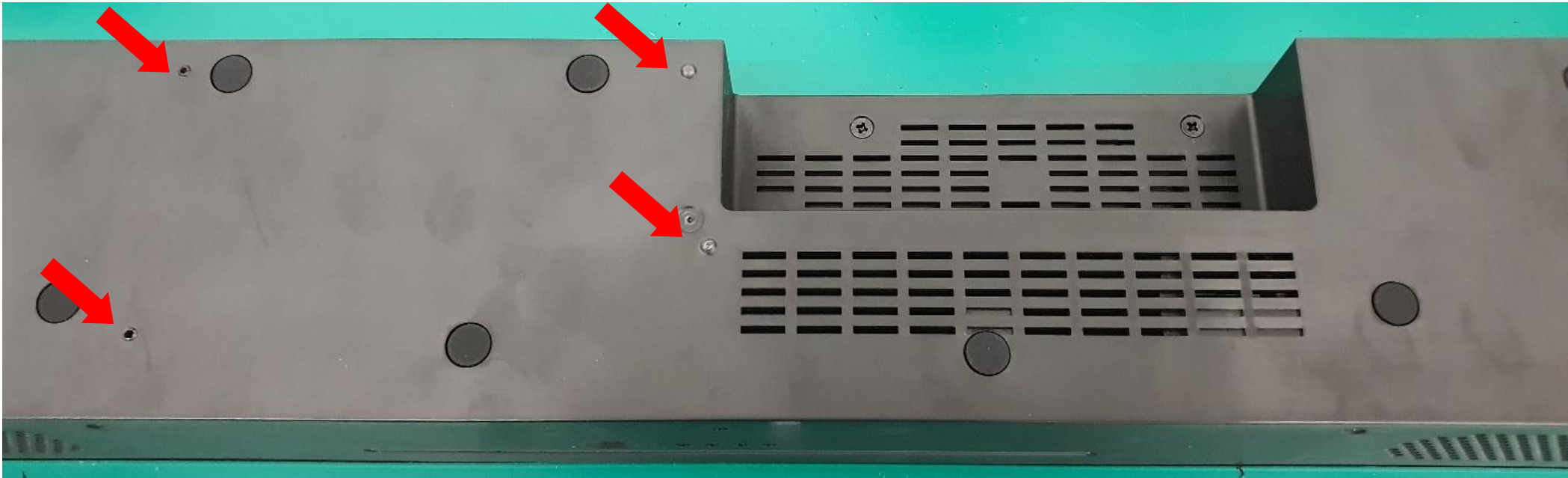
- Wrong screw assembly
 - Damage the bottom housing
 - The screw should be apply M3*7
 - But assembled M3*10 screw

Major



• Assembly - Defect

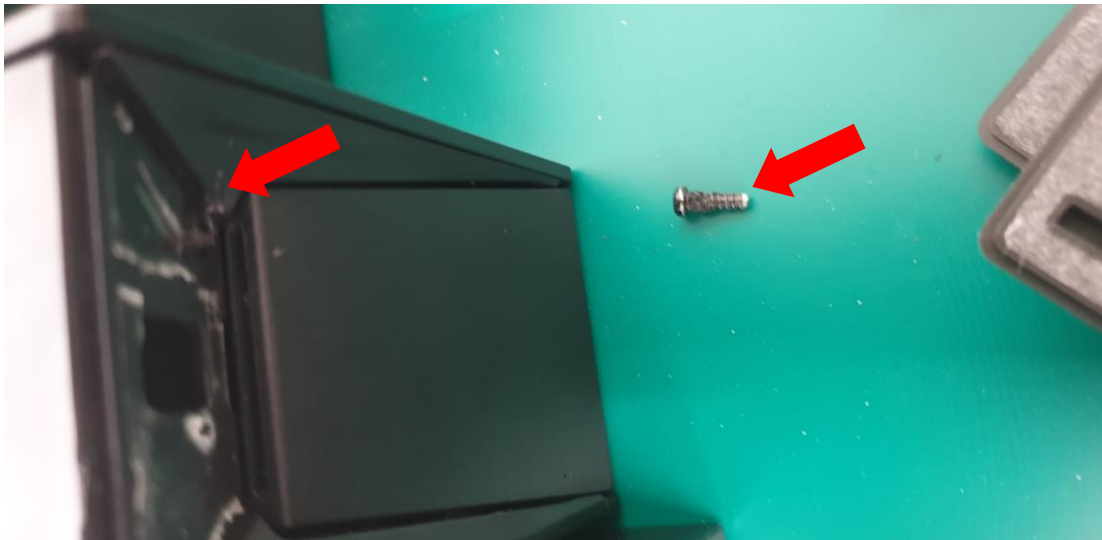
- Wrong screw assembly
 - Damage the bottom housing
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 - But assembled M3*10 screw



• Assembly - Defect

- Wrong screw assembly
 - The screw should be apply M3*7
 - But assembled M3*10 screw

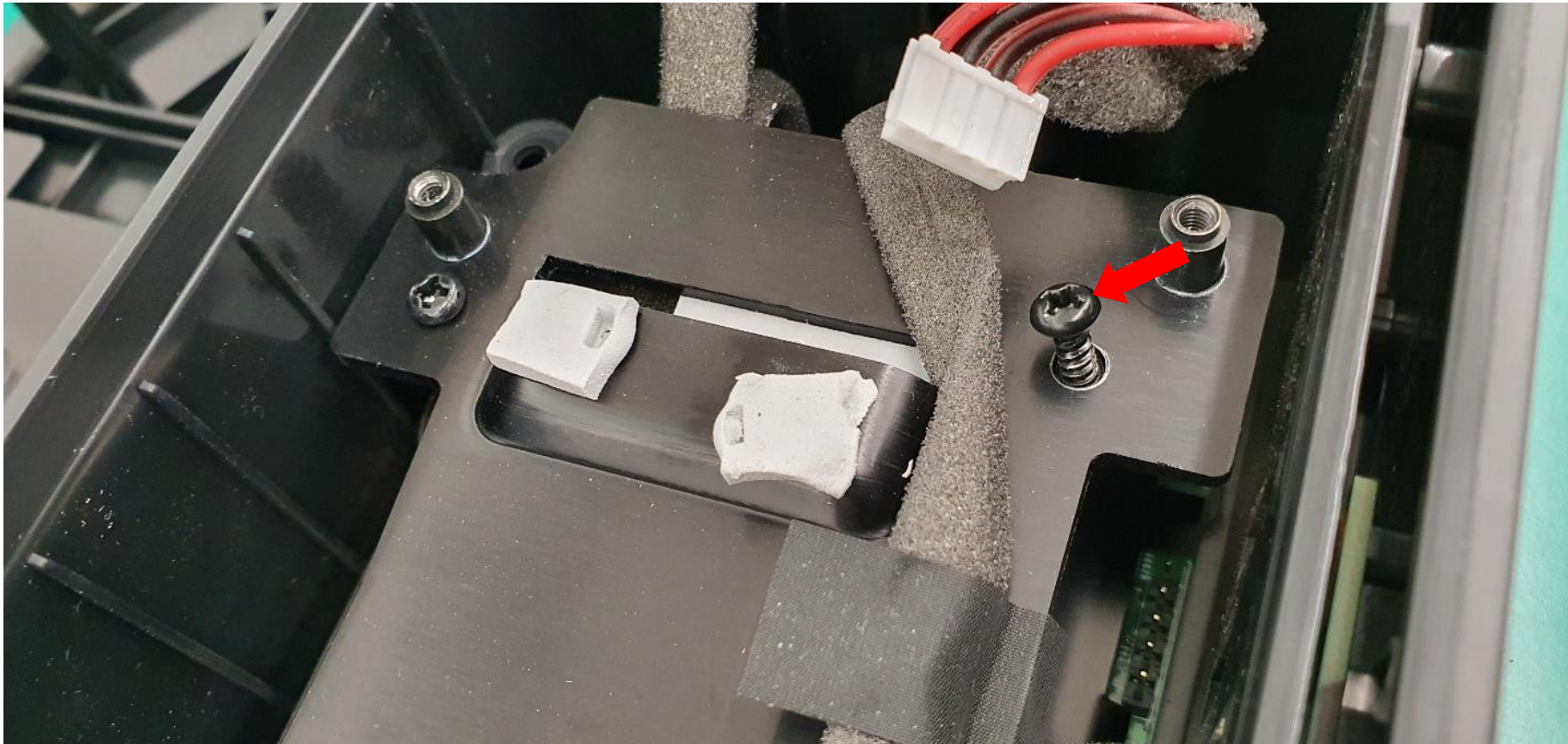
Major



- Assembly - Defect

- Wrong screw assembly
 - assembled with the wrong type screw

Major

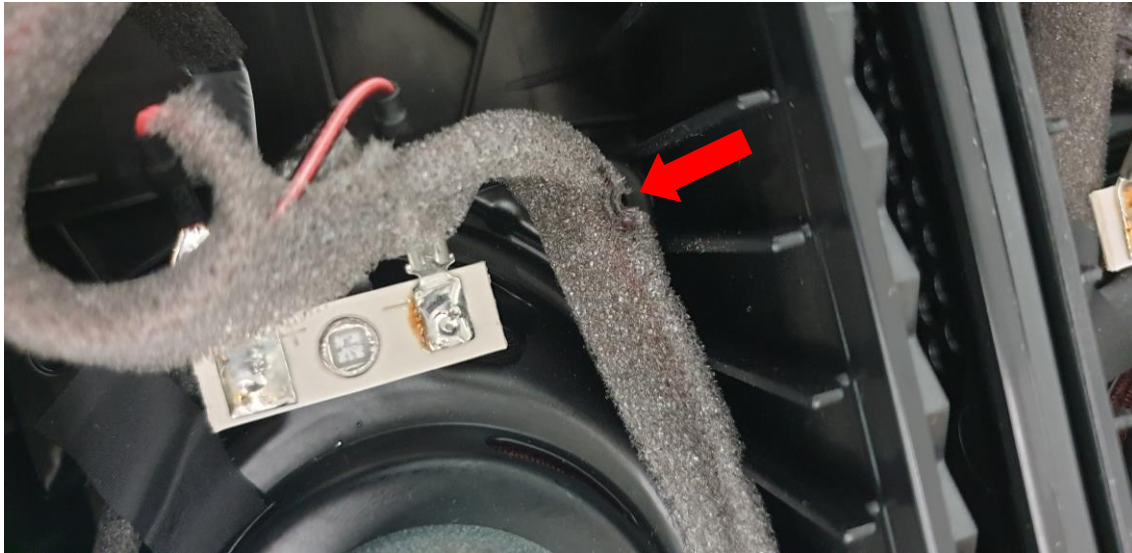


- Assembly – cable routing Defect

- Cable routing defect

- The cable is damaged due to screw lock up

Critical

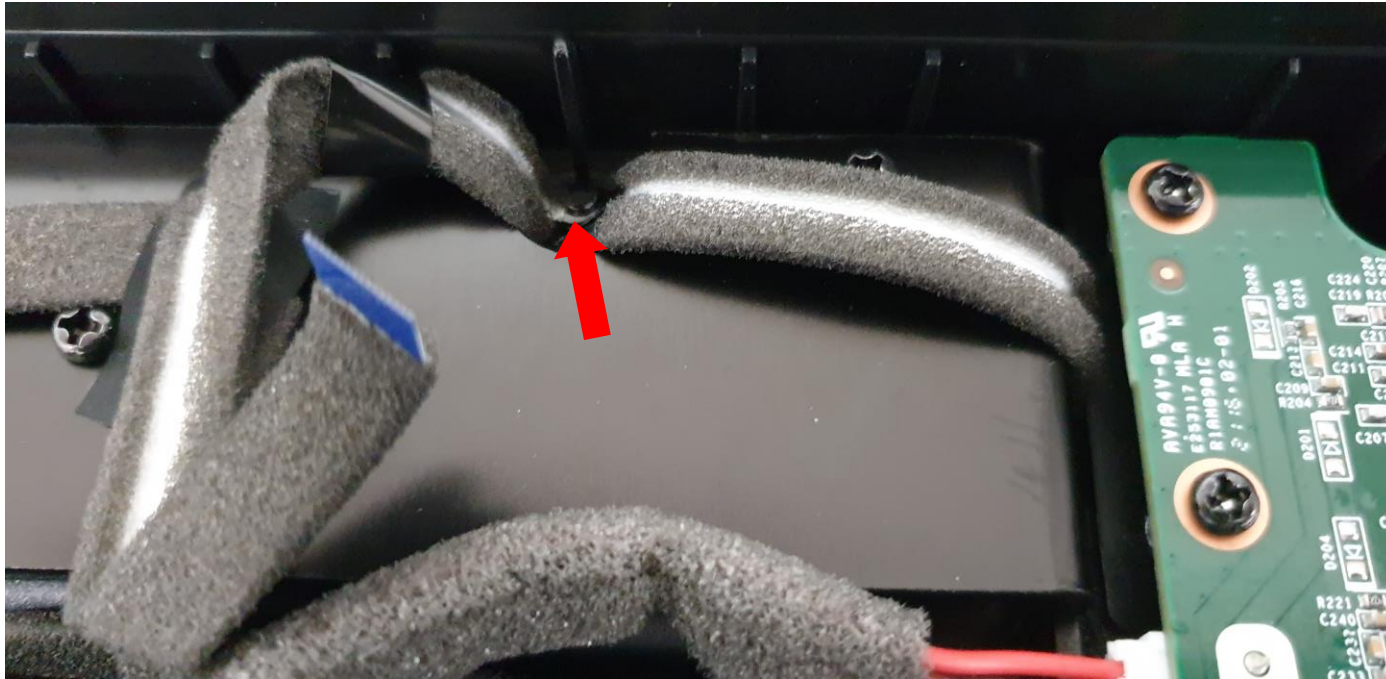


- Assembly – cable routing Defect

- Cable routing defect

- The FFC cable is damaged due to screw lock up

Critical



- Cable routing defect

- The AMP FFC cable is damaged due to bad assembly
- I2C short defect caused by this issue

Major

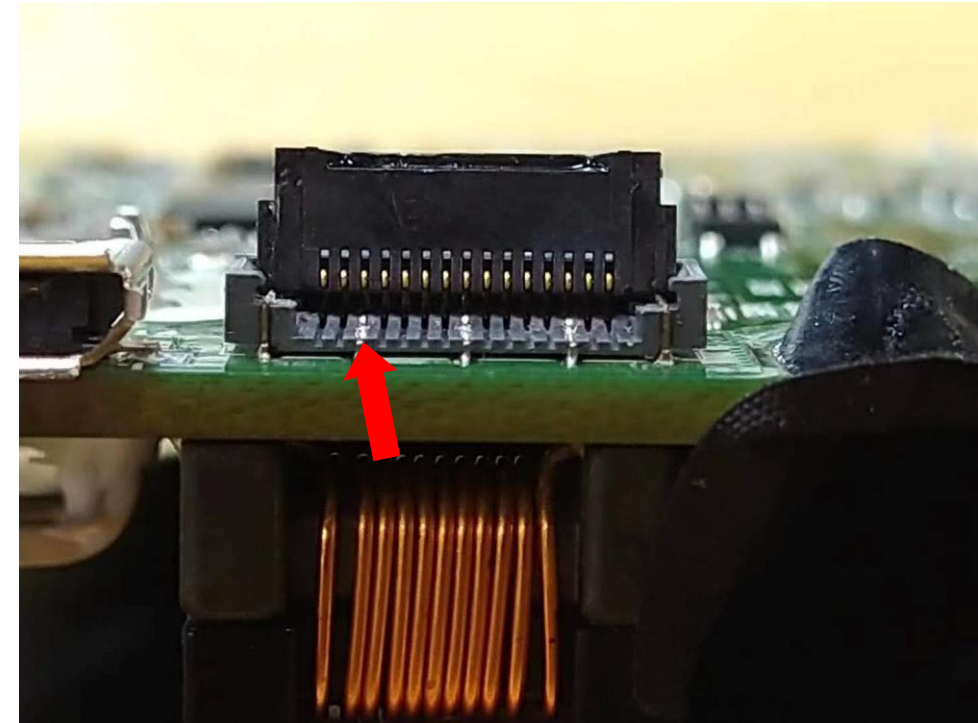
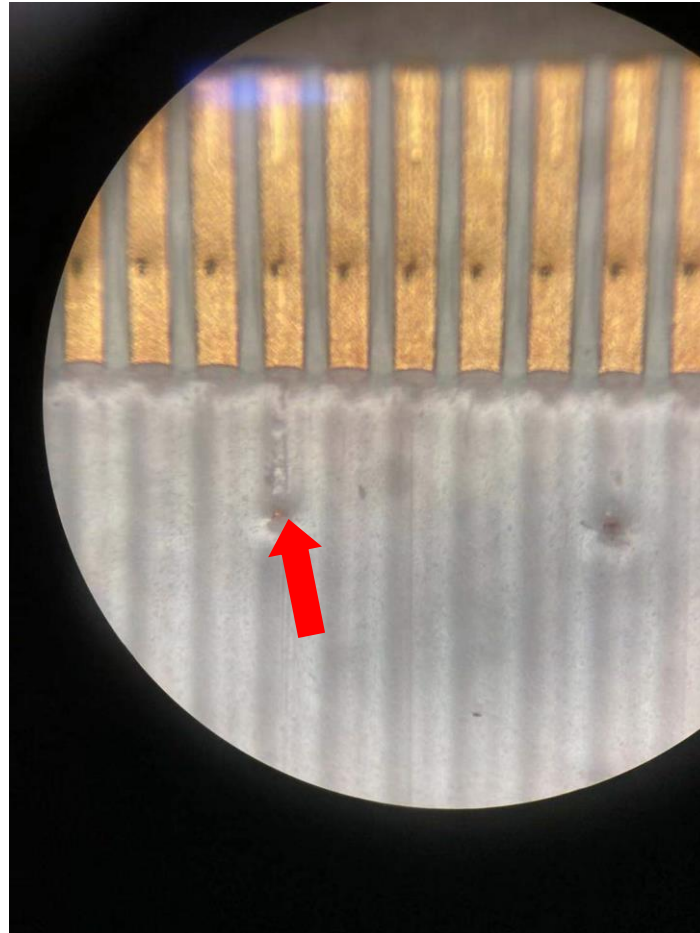
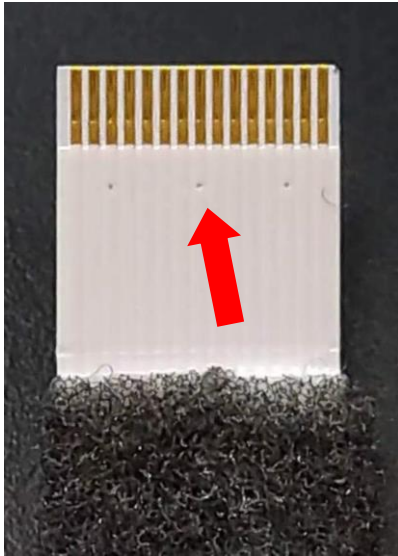
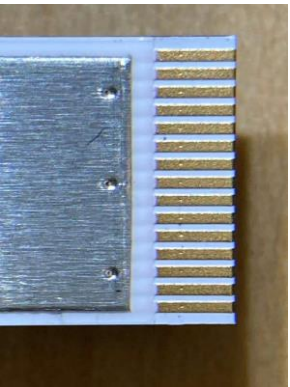


• Assembly – cable routing Defect

• FFC Cable damage

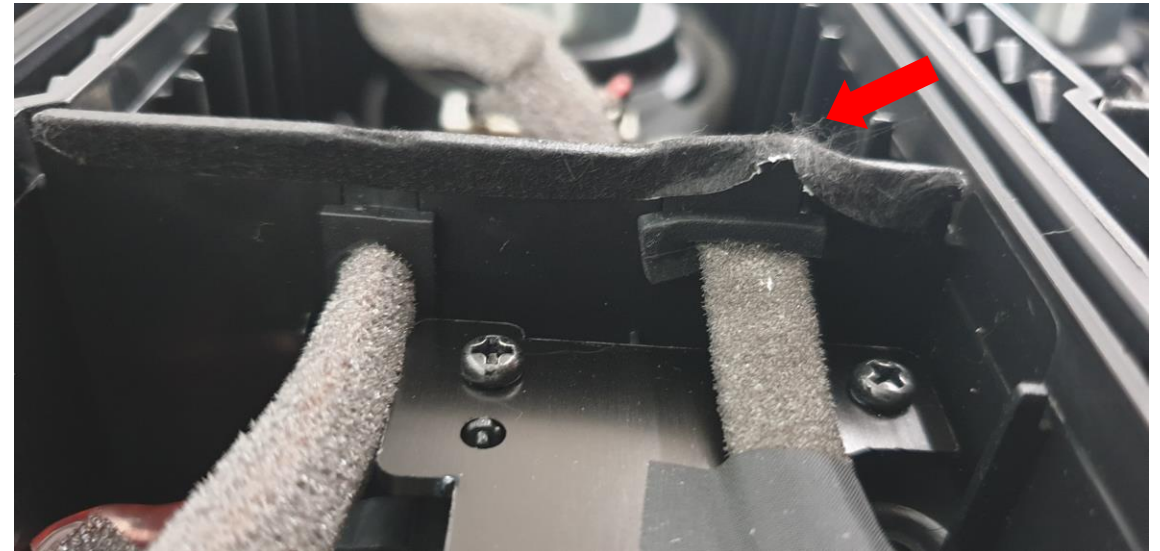
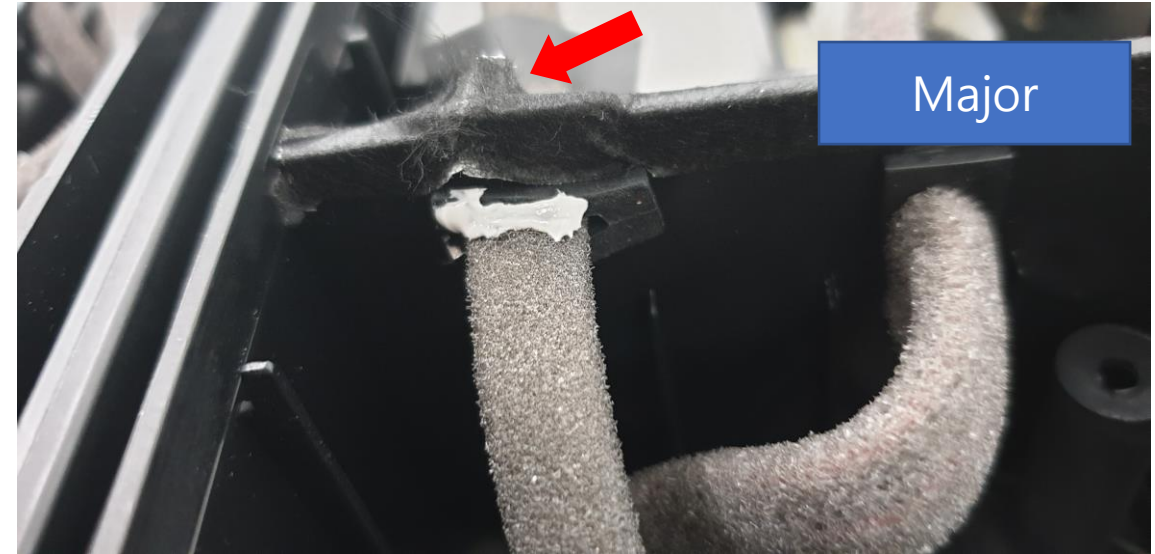
- The AMP FFC cable is damaged due to FFC Connector
- I2C short defect caused by this issue

Critical



• Assembly - Defect

- Inner bushing assembly NG
 - The bushing is incorrectly assembled.



• Assembly - Defect

• Stuff inside

- The bushing is inside the sound area.
- Stuff inside is not allowed in the sound area.

Minor

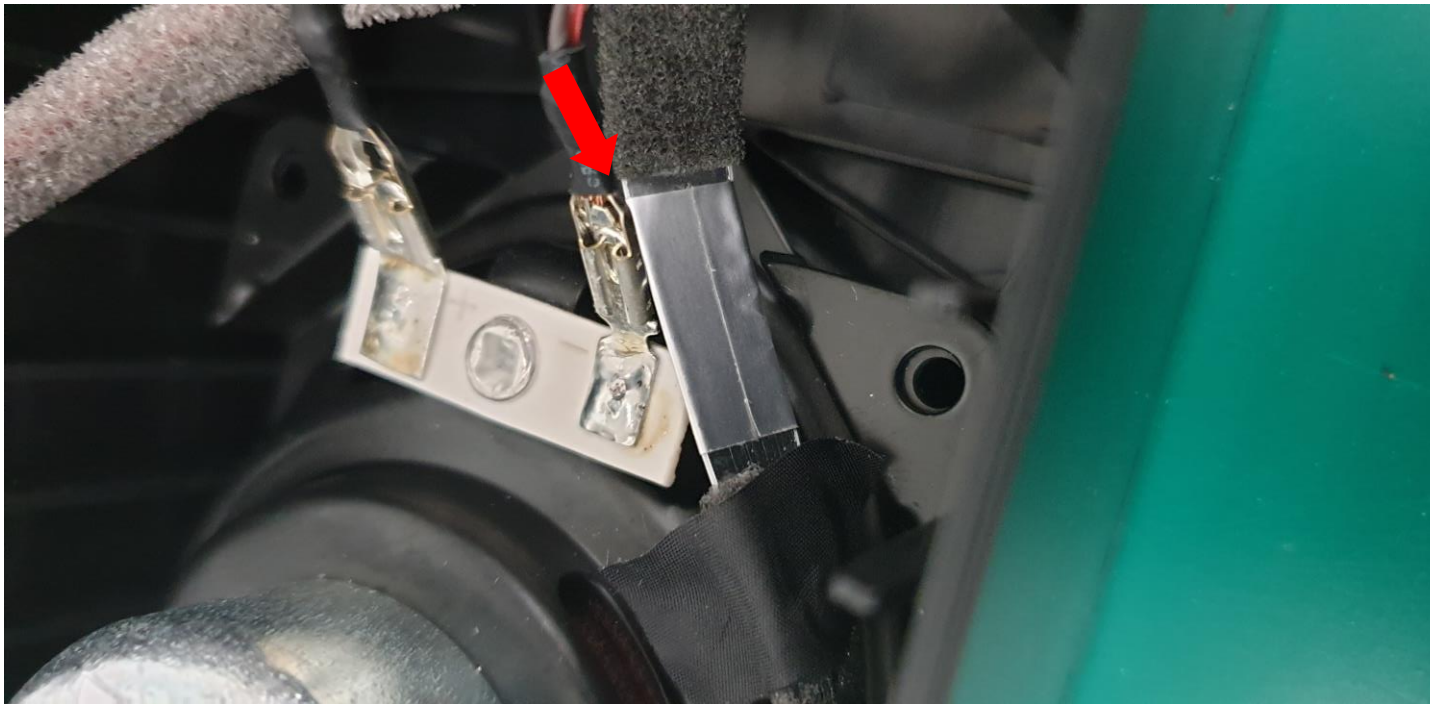


- Assembly – cable routing

- Cable routing caution

- It may can touch side FFC GND with Speaker signal connector

Major



Critical

- Assembly - Defect

- Top gasket adhesion NG
 - It's about 20% NG.
 - The air leakage is occurs through this point.



• Assembly - Defect

• No boot issue

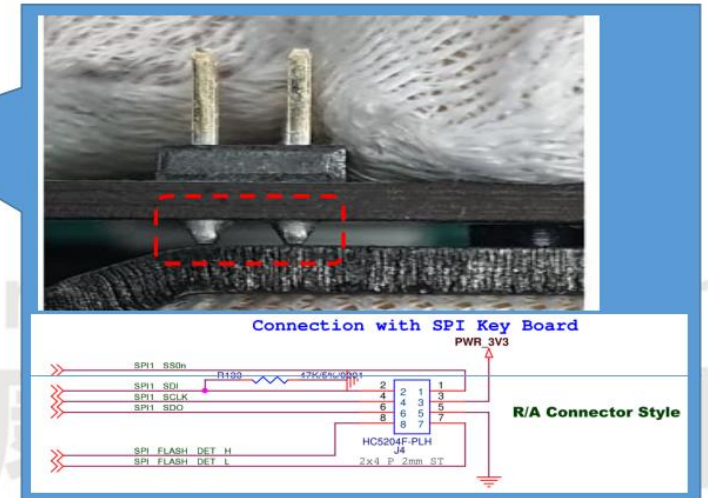
- The J4 is touch with bottom spreader
- DFM ISSUE :

Critical

<https://mantis.cnsbg.foxconn.com/vas/view.php?id=1316>

ID	Project	Category
0001316	SKB SWAN	HW Issue
Reporter	(ALTech) SH Son	Assigned To
Priority	normal	Severity
Status	assigned	Resolution
Summary	0001316: [SWAN] DVT3 Nboot issue	
Description	[SWAN] One of the DVT3 issues, - Nboot issue	

No booting issue_J4 contact issue



1. The J4 is used for debug port of VS550
2. The J4 pin header is very close to the bottom heat spreader of main board. If J4 is in contact with the heat spreader, the main board may not bootup properly because the 3.3V power short-circuited to ground
3. The leg of pin header changed to normal type in DVT3 build in order to solve the soldering issue on ground pin of pin header. And we will change the pin header to short leg type in MP to prevent the risk of short issue after assembly.

- End of Documents