

REL Test-Luna Air-leakage issue (Holder speaker)

<< Failure description:

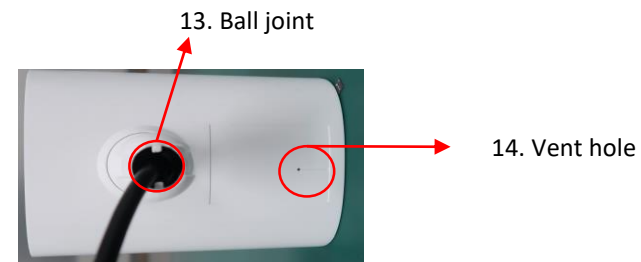
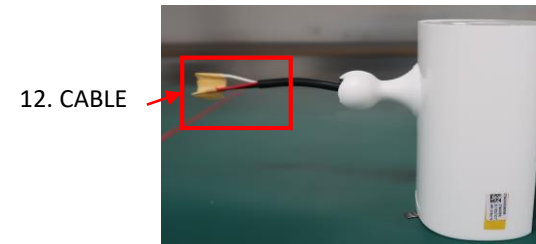
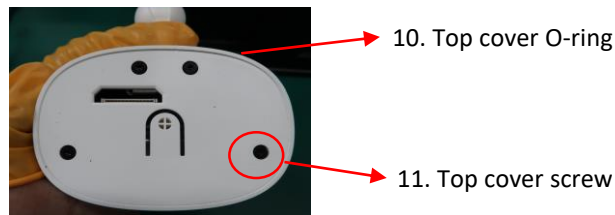
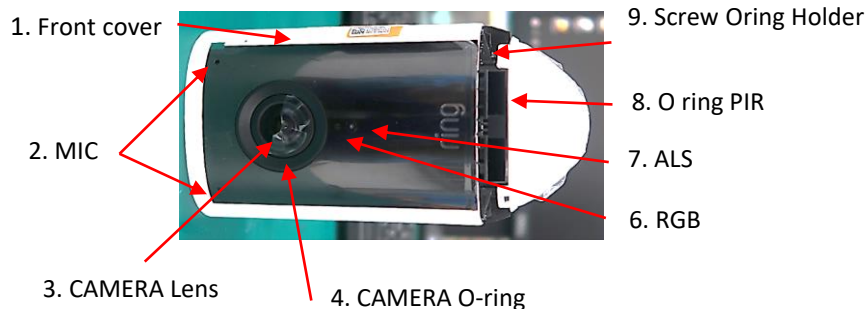
- ❖ Failure symptom: Device is failed at IPX2 station and has water inside of device, and SI saw water on the tray cover devices.
- ❖ Detect station: IPX2
- ❖ Happen time: 2025/07/21
- ❖ How many: 1F/6T (FR: 16.66%) , DSN: GT54G002526500DD.

<< Failure Analysis:

Step 1: Checking device cosmetic if have any abnormal → No scratches or breaks found on the outside of the device.

Step 2: Stick wooden tape to each possible air leakage location on the device to find out the exact air leakage location on the device.

- ❖ Only stick wooden tape and clay in turn to MIC/ALS/Camera/RGB/Vent position/Oring/Cable/Ball joint/Screw



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<< Failure Analysis:

❖ Only fill Holder speaker position, re-test IPX2 is OK, the result showed table below

→ Only has air-leakage at Holder speaker position.

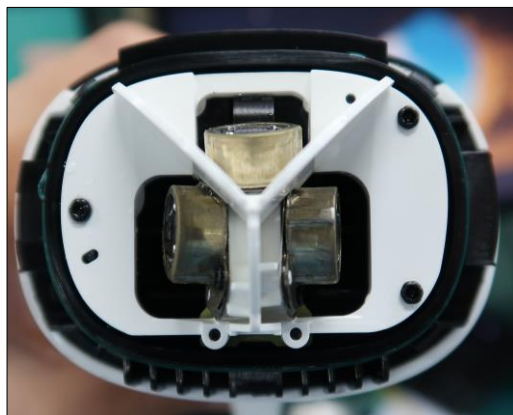
DSN	Leaking Position	IPX2 (IPX 2 < 200pa)	After fill Camera lens
GT54G002526500DD	CAMERA LENS	6230	156.1



Only fill
Holder
speaker

Step 2: Disassembly device.

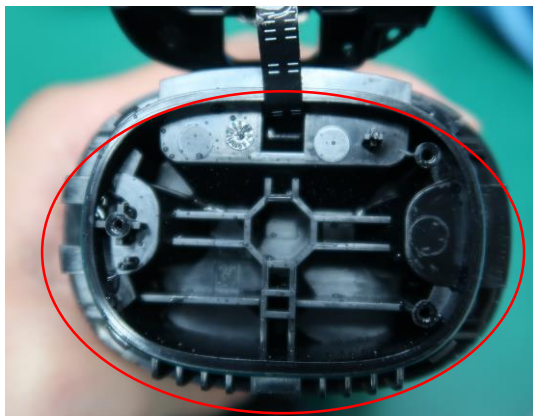
→ Found water on the device & holder speaker is cracked



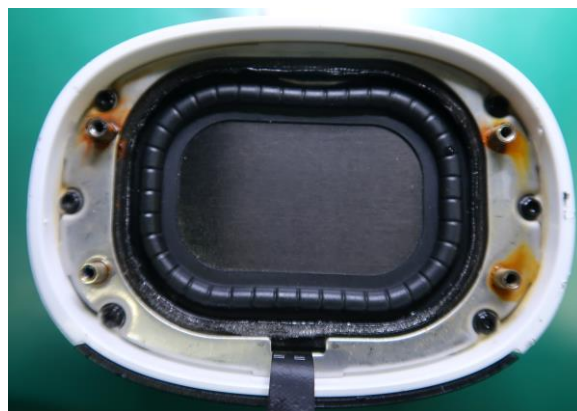
There is water

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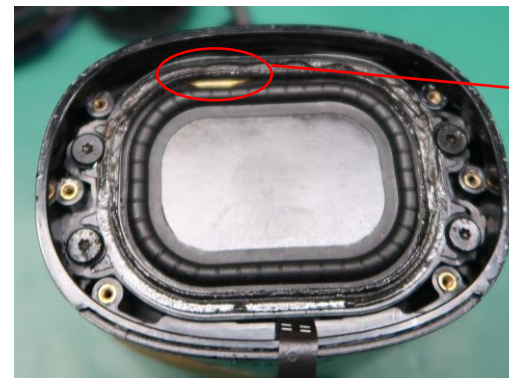
<< Failure Analysis:



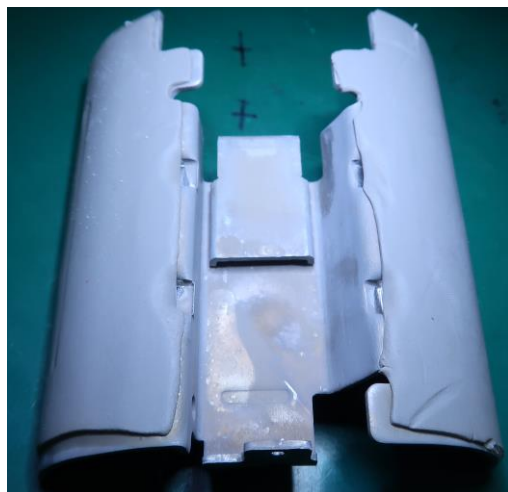
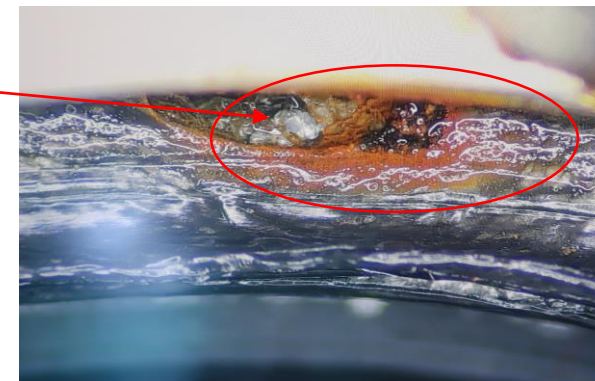
There is water



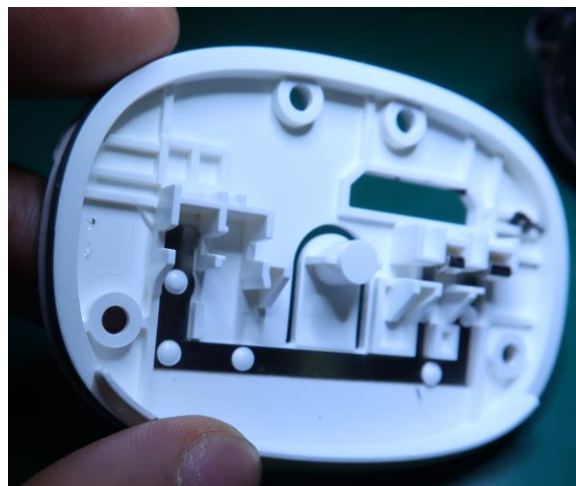
There is water



There is water & Holder speaker is crack



There is water



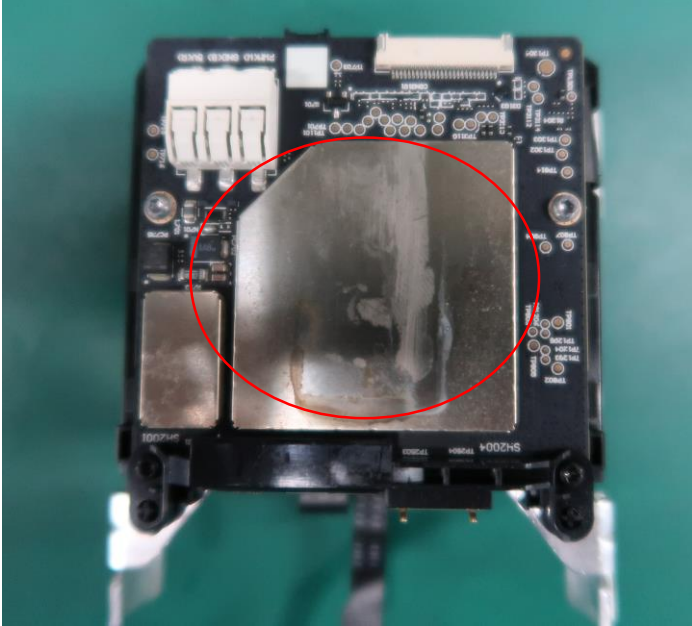
There is water



There is water

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<< Failure Analysis:



Signs of water

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<< Root cause:

The holder speaker is cracked & ...

<< Correct Action:

1. SQE contacted the PSA Speaker supplier to report the material quality condition not ensuring adhesion.

Owner: SQE-

Due date: 2025/07/

Status: **On-going**