

DC WallBox

Replace 4G module and Antenna

May. 11, 2020

DS15_v3.0





Change History

Version	Description	Editor
V1.0	Replace 4G module and antenna	Bryan LEE
V2.0	Add “FW requirement” as Page 4	Bryan LEE
V3.0	Update part number in Page 5	Bryan LEE

Tool Preparation



Screwdriver



Diagonal Pliers



Monkey spanner



Needle nose

- The FW version of DCWB should be

Module	FW version
BA CSU	V02.01.12.41 or higher
CA CSU	V01.08.01.01 or higher
Relay Ctrl BD	V01.03.01.01 or higher

- The details of FW update can refer to OI: “**DA05_DCWB FW 2.0 upgrade instruction**”



Relevance part number

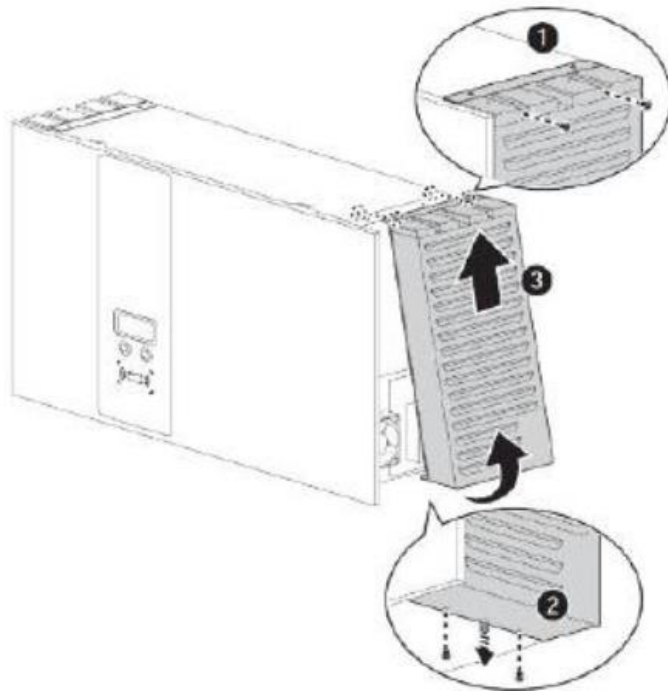
Title	Part number	Remark
4G Communication BD (TOBY-R202-02B-03)	3798102947-S	For US model
4G Communication BD (TOBY-L210-62S)	3798102948-S	For JP model
4G Communication BD (TOBY-L210-03S)	3798102949-S	For EU model
4G Antenna	0990252525	

Remove both side covers

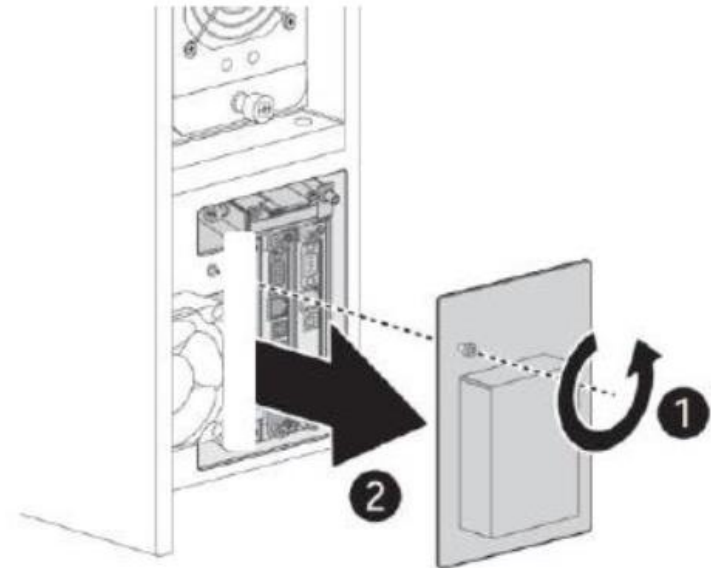
- Below photo is the example for removing right side cover

Remove filter cover with T20 torx driver

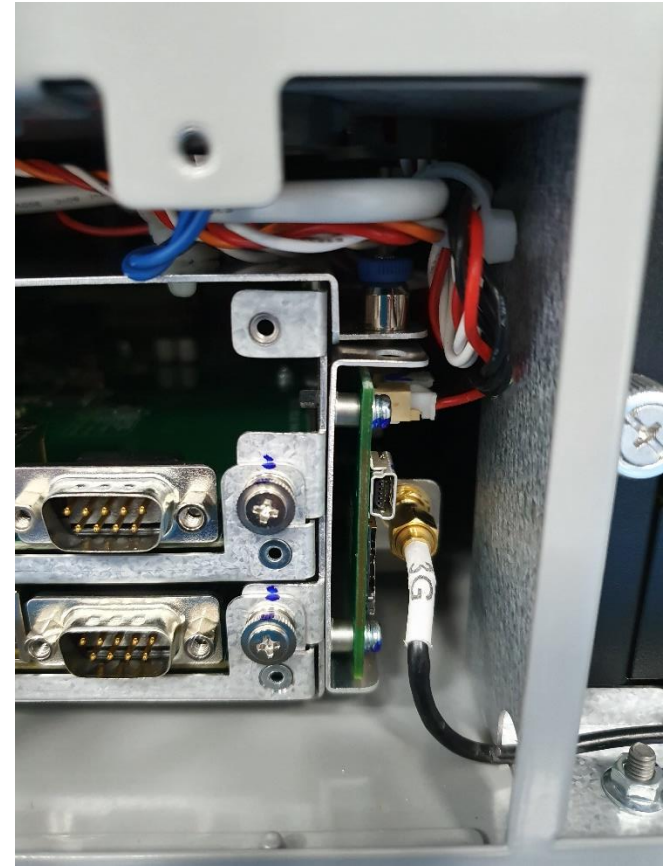
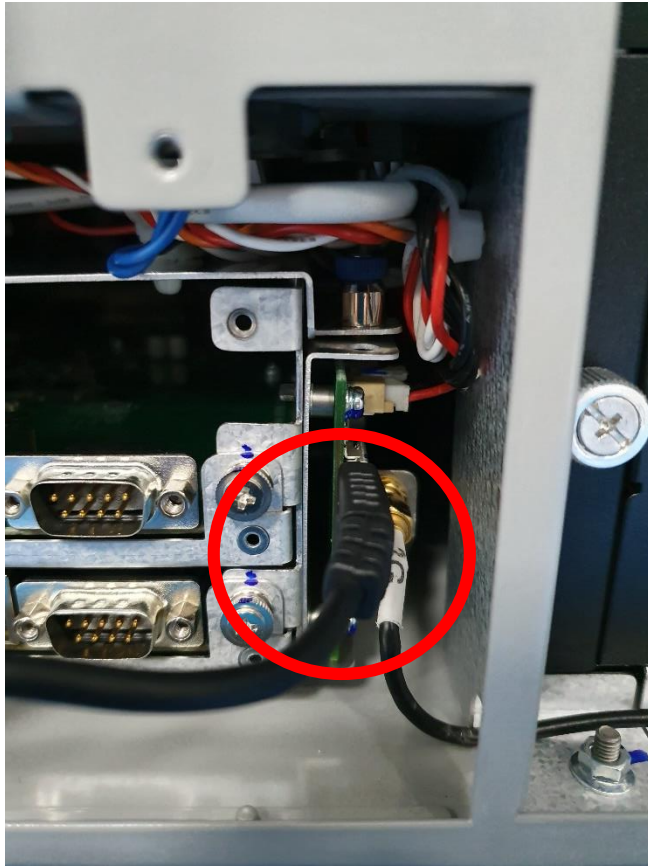
- Release the two screws on top.
- Release the two screws on bottom and pull out the latch.
- Open and remove the filter cover.



Remove protection cover

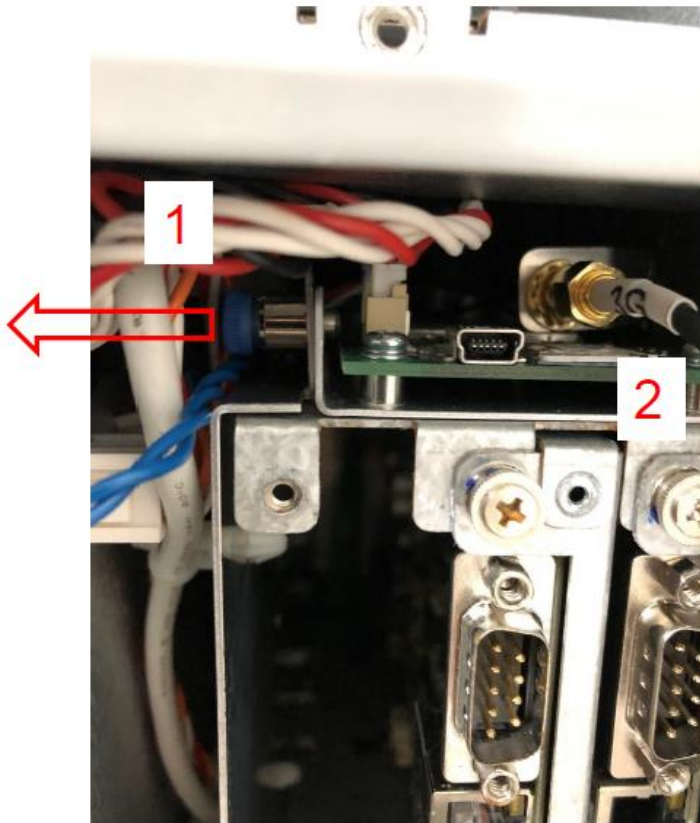


Step 1. Remove Micro-USB cable

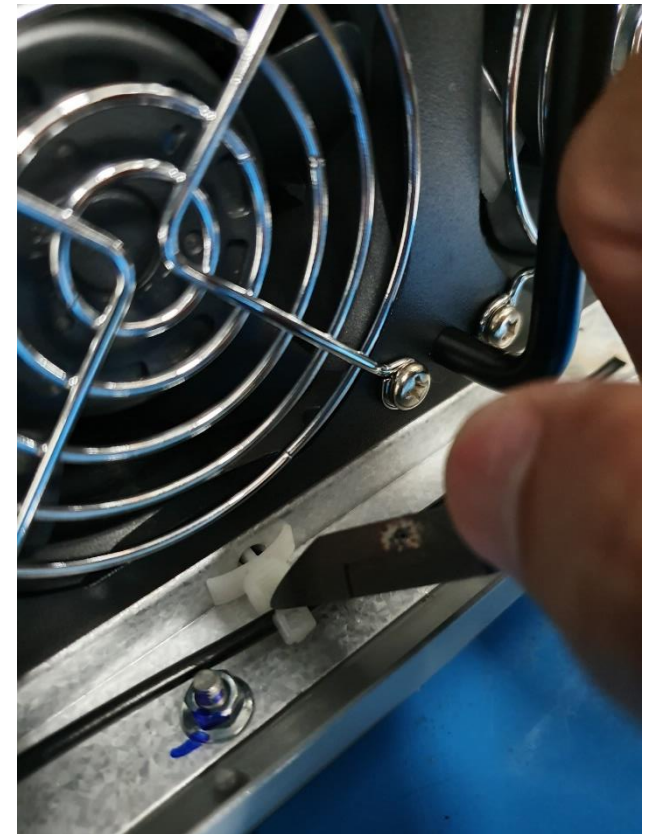


Step 2. Pull out 3G module

1. Pull blue latch
2. Pull out 3G module a little bit

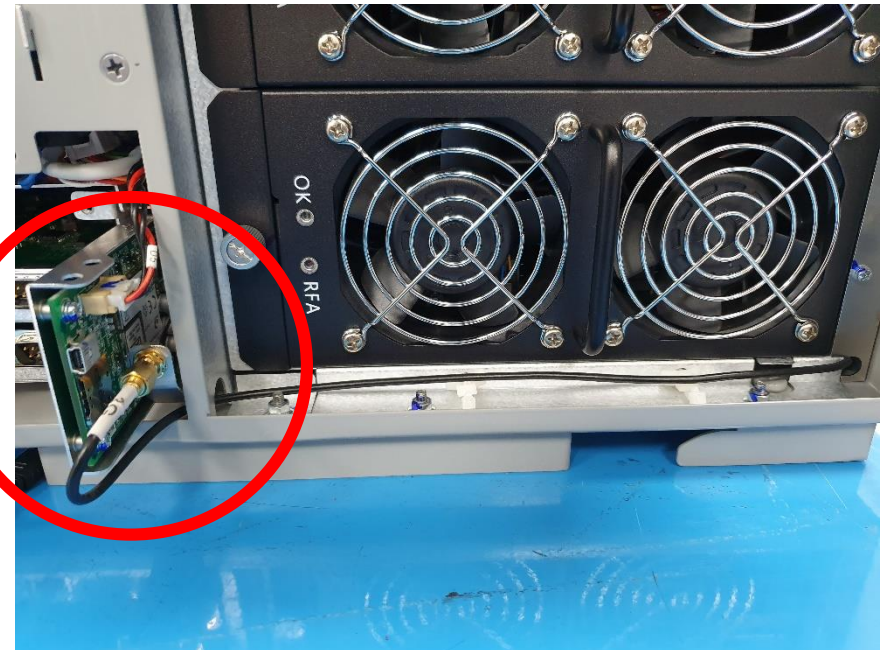
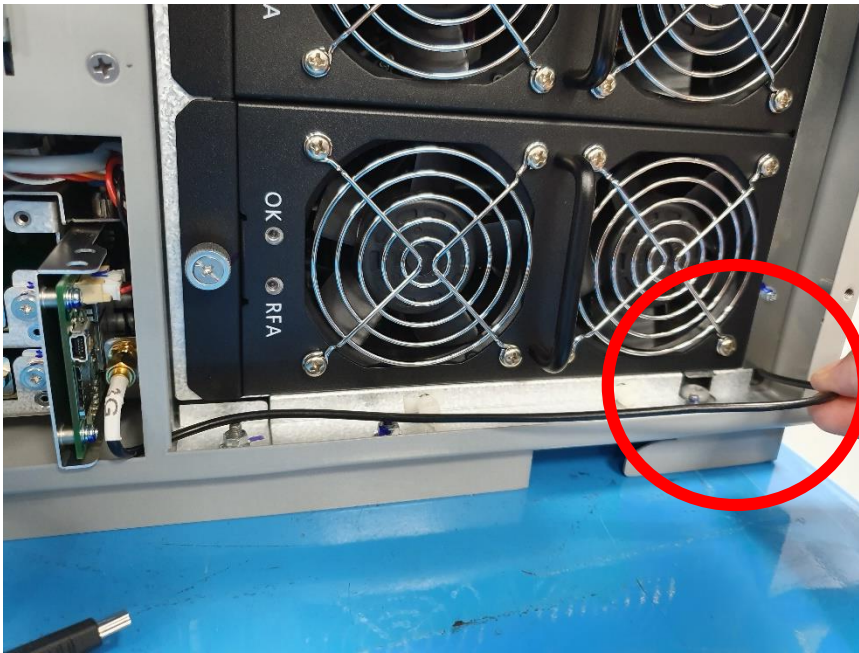


Step 3. Cut off the cable tie



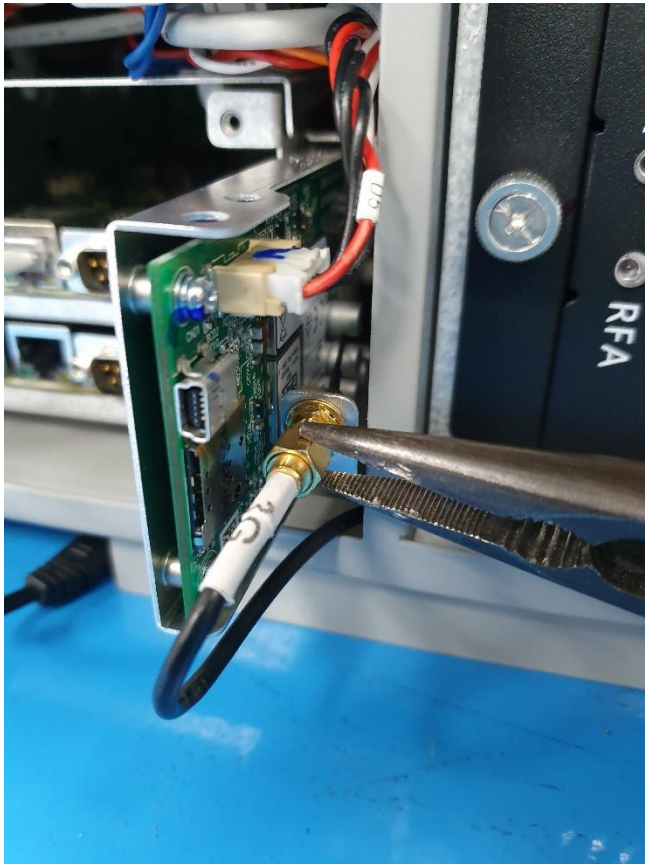
Step 4. Pull out the antenna cable

Pull out the antenna cable so that the 3G module can be pulled out more and disassembly antenna cable from 3G module easily.

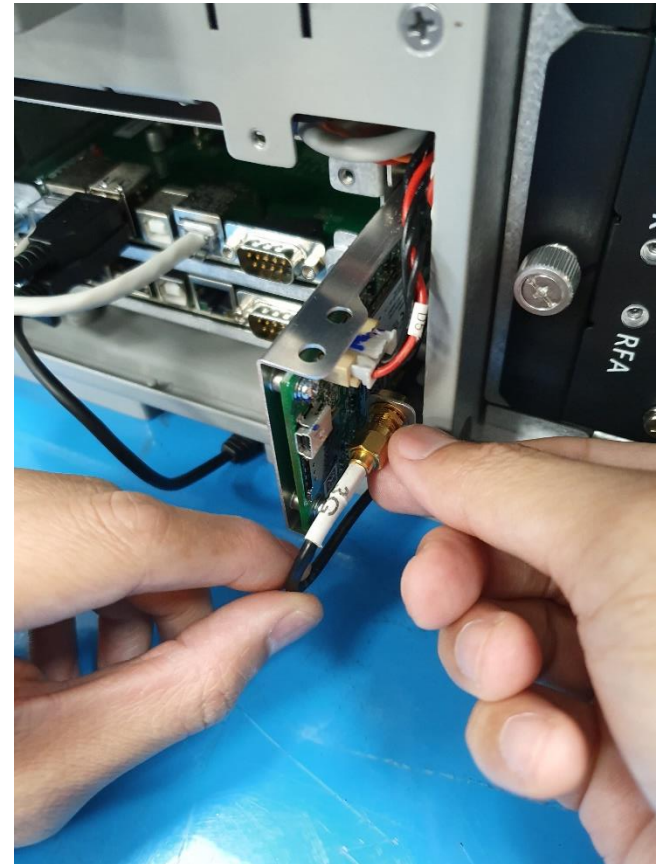


Step 5. Disassembly antenna cable

Disassembly antenna cable from 3G module by needle nose or hand.

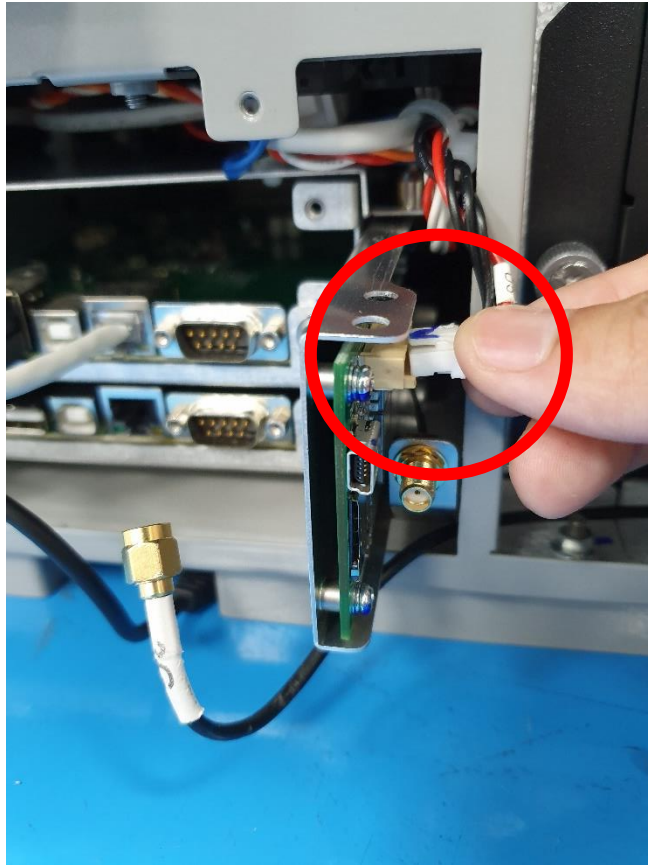


or



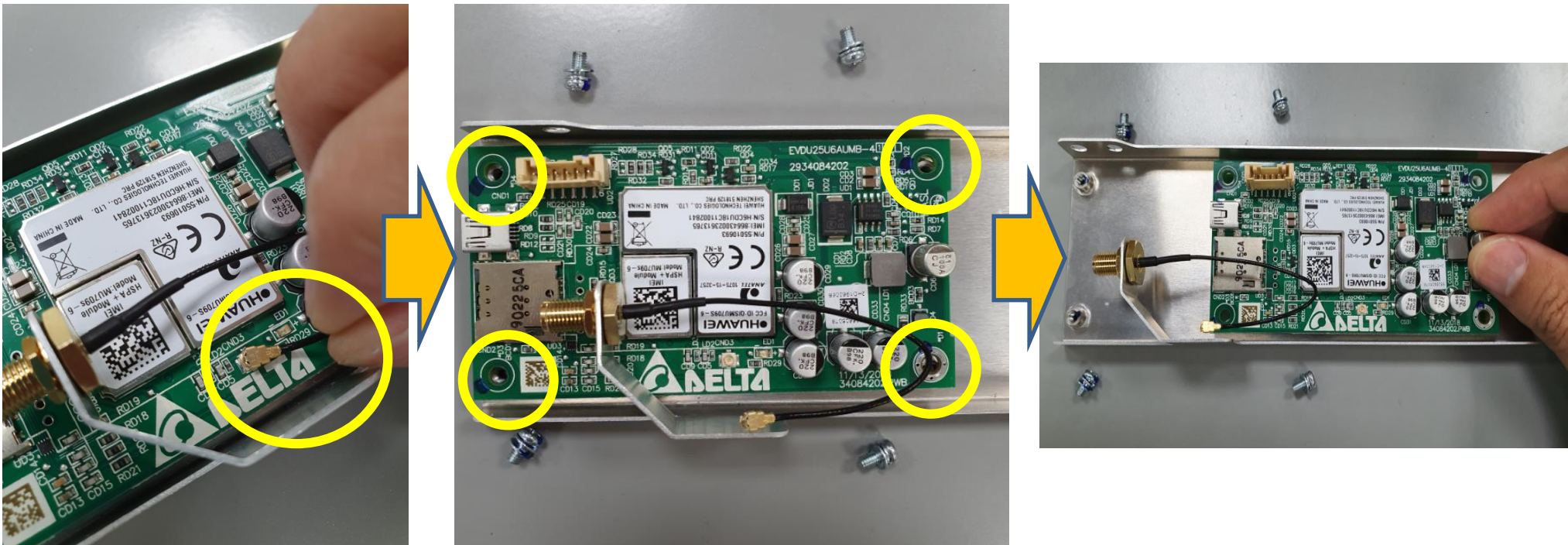
Step 6. Disassembly power cable

Disassembly the power cable of 3G module, and then 3G module can be pulled out completely.



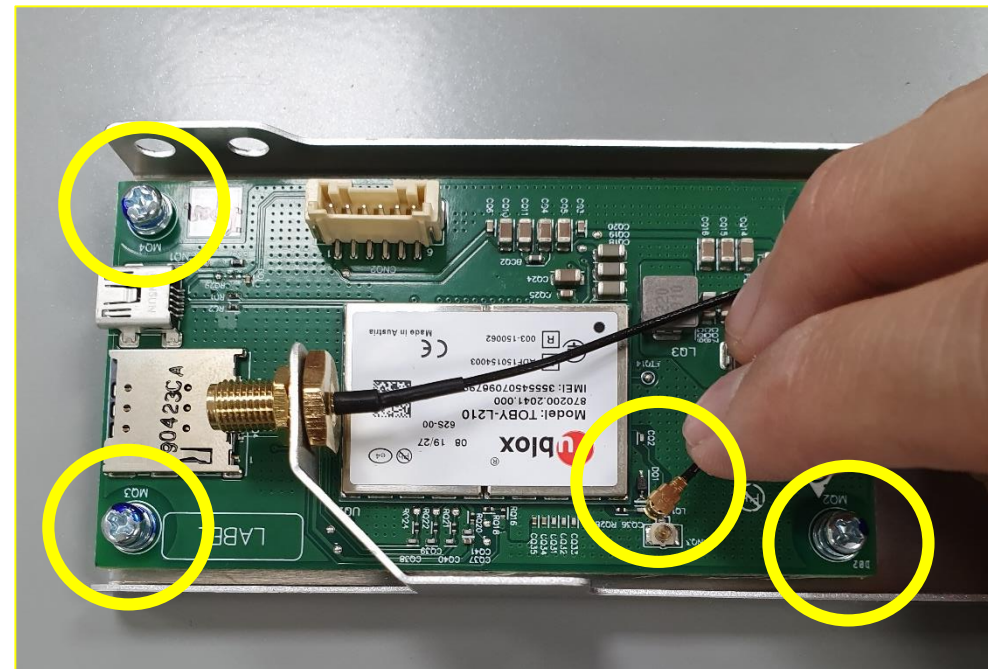
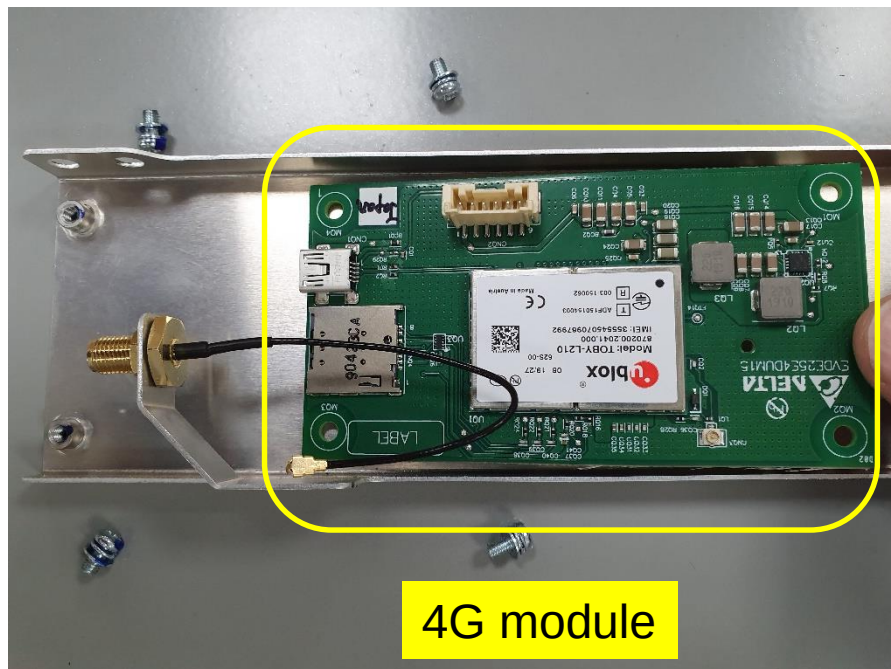
Step 7. Replace 4G module

- 1) Remove the cable on board by hand, **don't use hand tools.**
- 2) Release the 4 screws on board, don't use electric screwdriver
- 3) Remove 3G module



Step 7. Replace 4G module

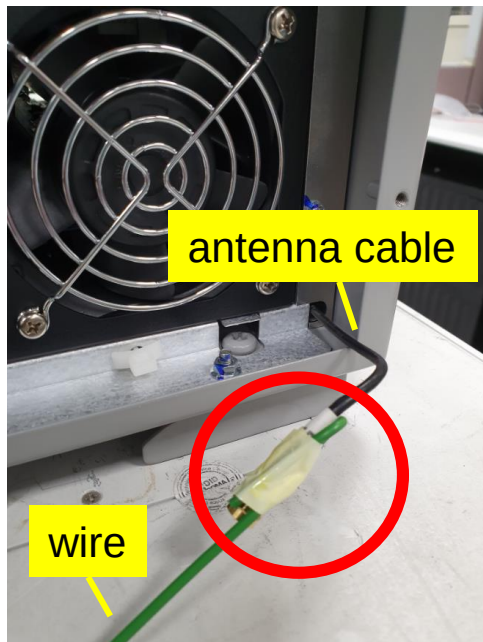
- 4) Install 4G module
- 5) Install the 4 screws and antenna cable on board



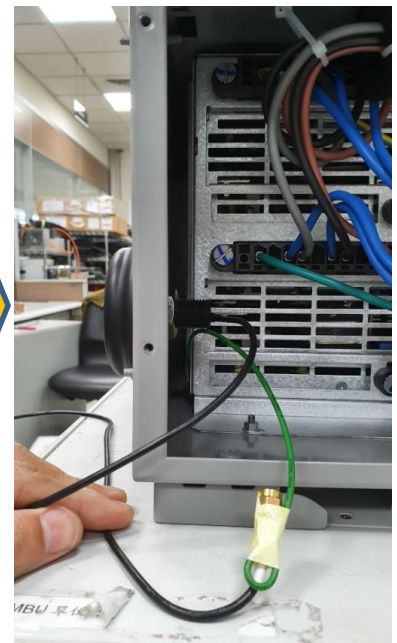
Step 8. Replace 4G antenna (1/3)

Tie a wire to the original antenna cable.

- release the plate to let the antenna pass through
- pull out the antenna cable from another side (left side)
- release the wire from the antenna cable, and keep the wire



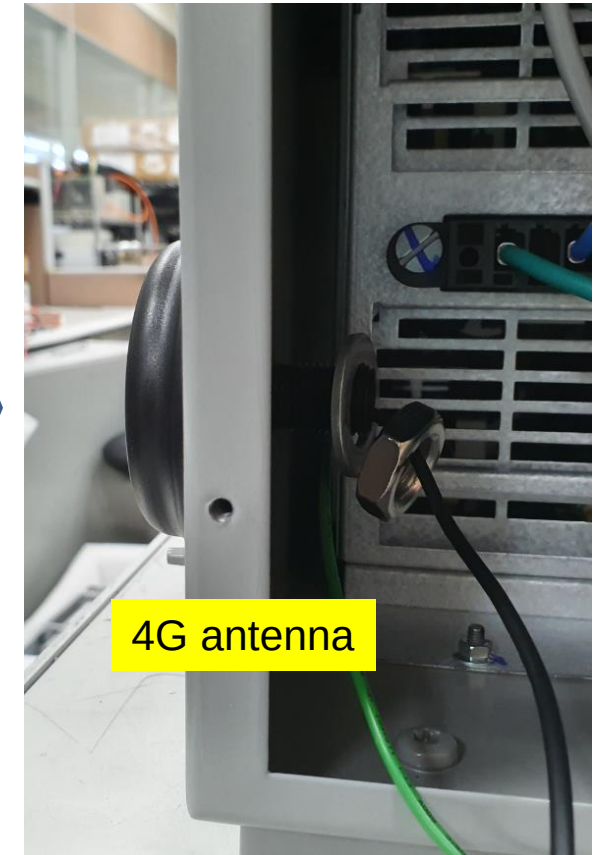
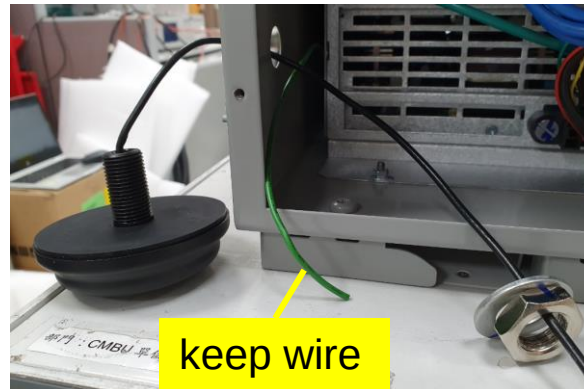
Right side



Left side

Step 8. Replace 4G antenna (2/3)

Release the screw of antenna
→ replace 4G antenna and install it

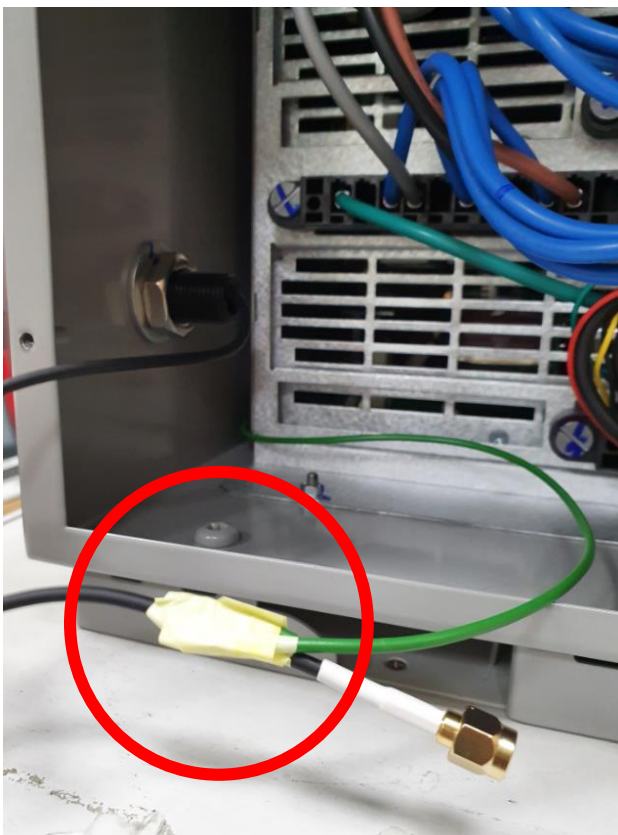


Step 8. Replace 4G antenna (3/3)

Tie a wire to the 4G antenna cable

→ pull out the 4G antenna cable from right side

→ Straighten the 4G antenna cable on the left side, so that the antenna cable is long enough for 4G module installation



Left side



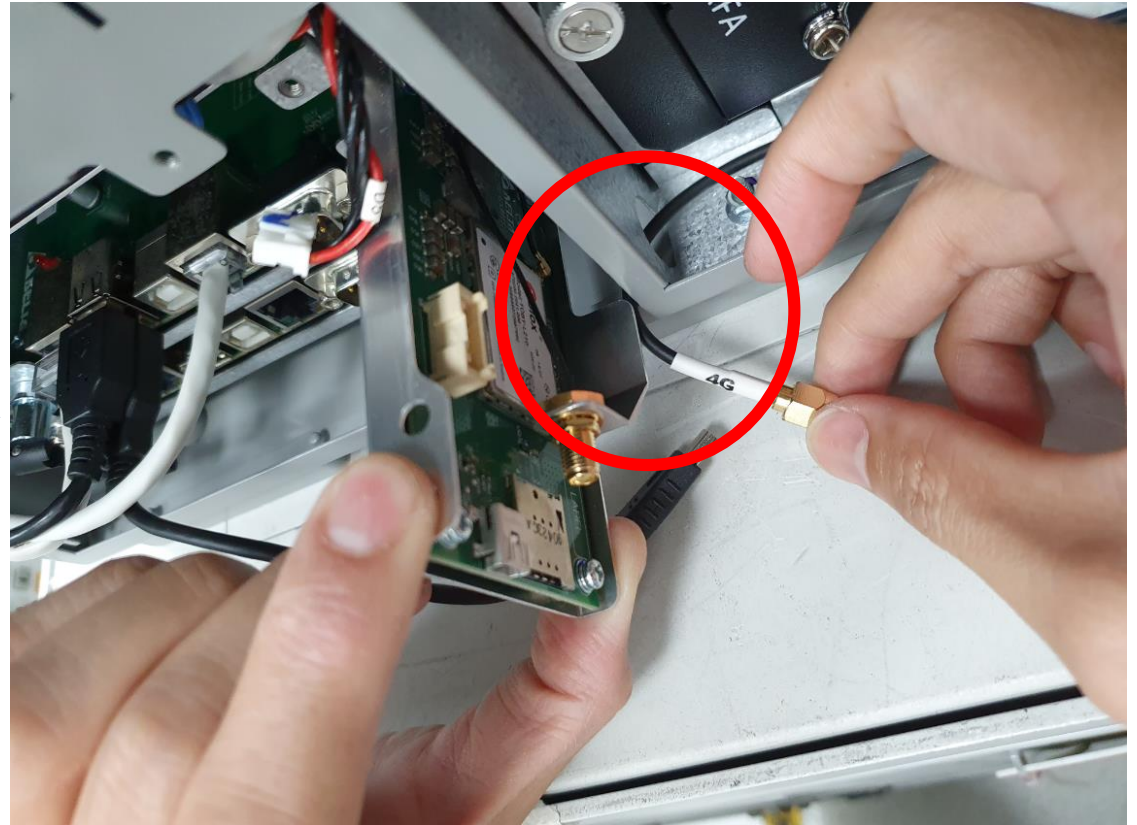
Right side



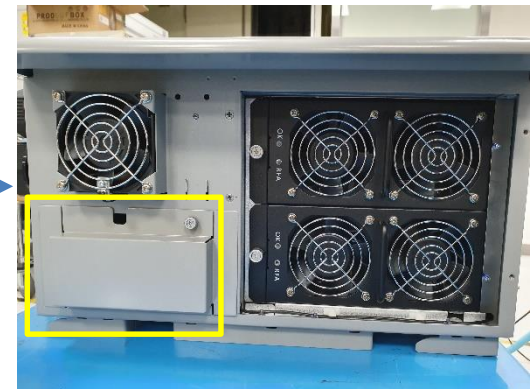
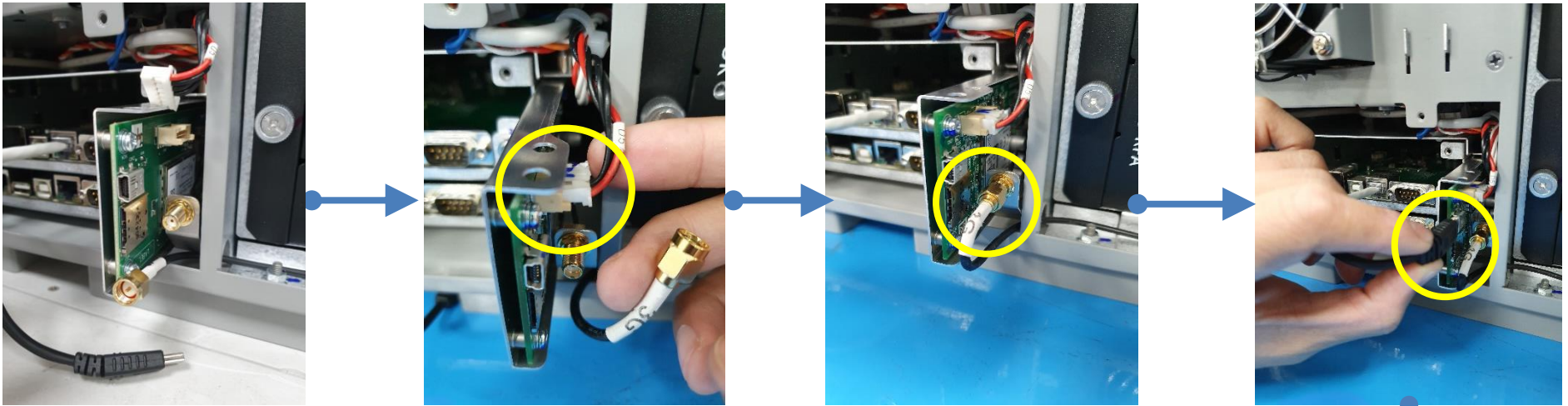
Left side

Step 9. Install 4G module (1/2)

Setup the 4G antenna cable firstly, and keep the cable under 4G module



Step 9. Install 4G module (2/2)



Recommend to tighten the antenna cable

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