

SC2 Sport & Pro R1 Antenna connector replacement guide

| Version | Date | Changelog |
|---------|-----------|--------------------------------|
| V1 | 22.1.2021 | First version |
| V2 | 25.1.2021 | Added images and Simucube logo |



SIMUCUBE

Step 1: Disconnect all wires from the unit.

Power the unit off, disconnect all wires. Leave unit without any powered wires (DC and USB connector) for 10 minutes.

Step 2: Unscrew the back plate / Electronics Assembly.

Place the motor on a clean table surface. Avoid scratching the unit.

Unscrew the two hex screws marked by **RED** circles.

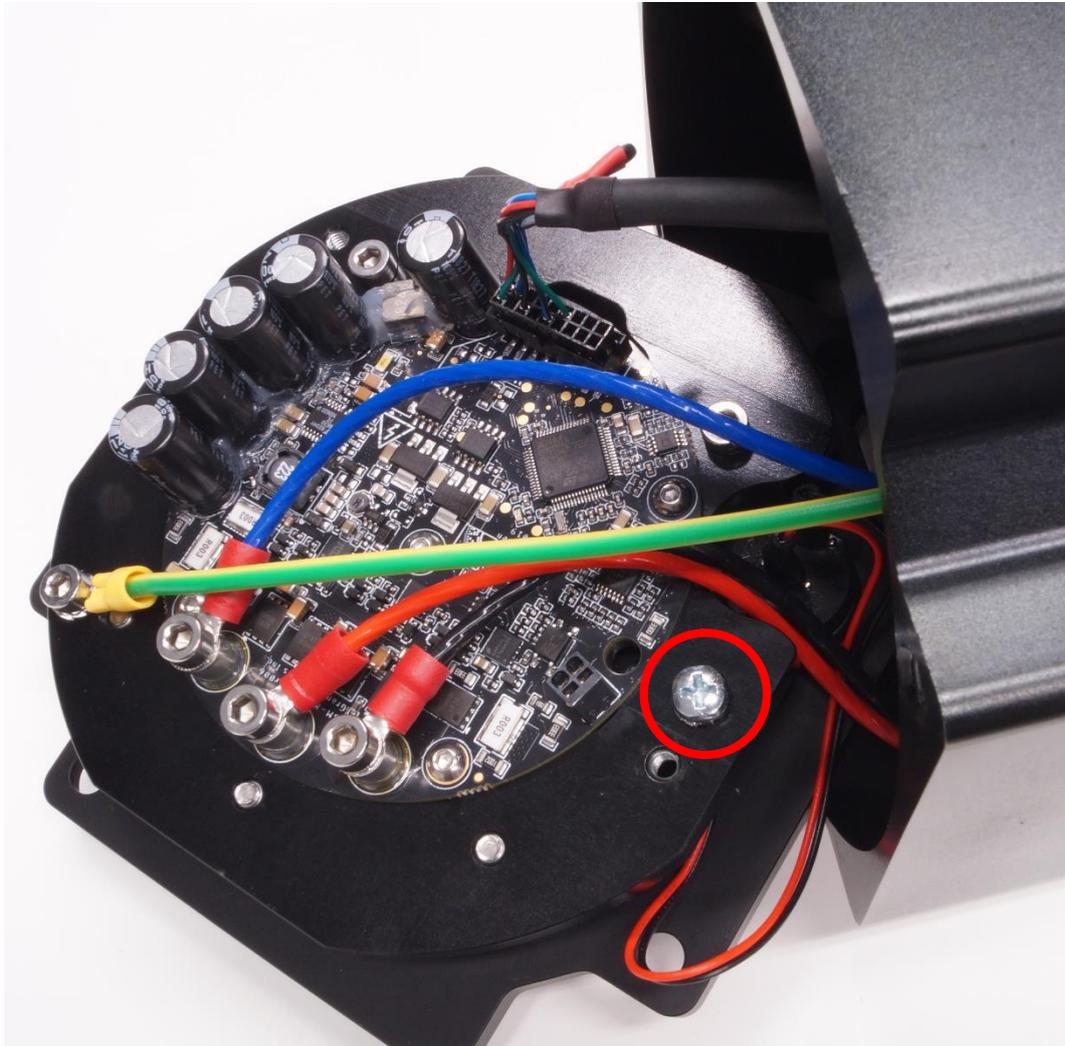


NOTE: Do not let the back plate and electronics assembly to hang so that it is only supported by internal wires!

Step 3: Open back plate

Open back plate and unscrew the **grounding screw**.

NOTE: Do not remove the connectors.

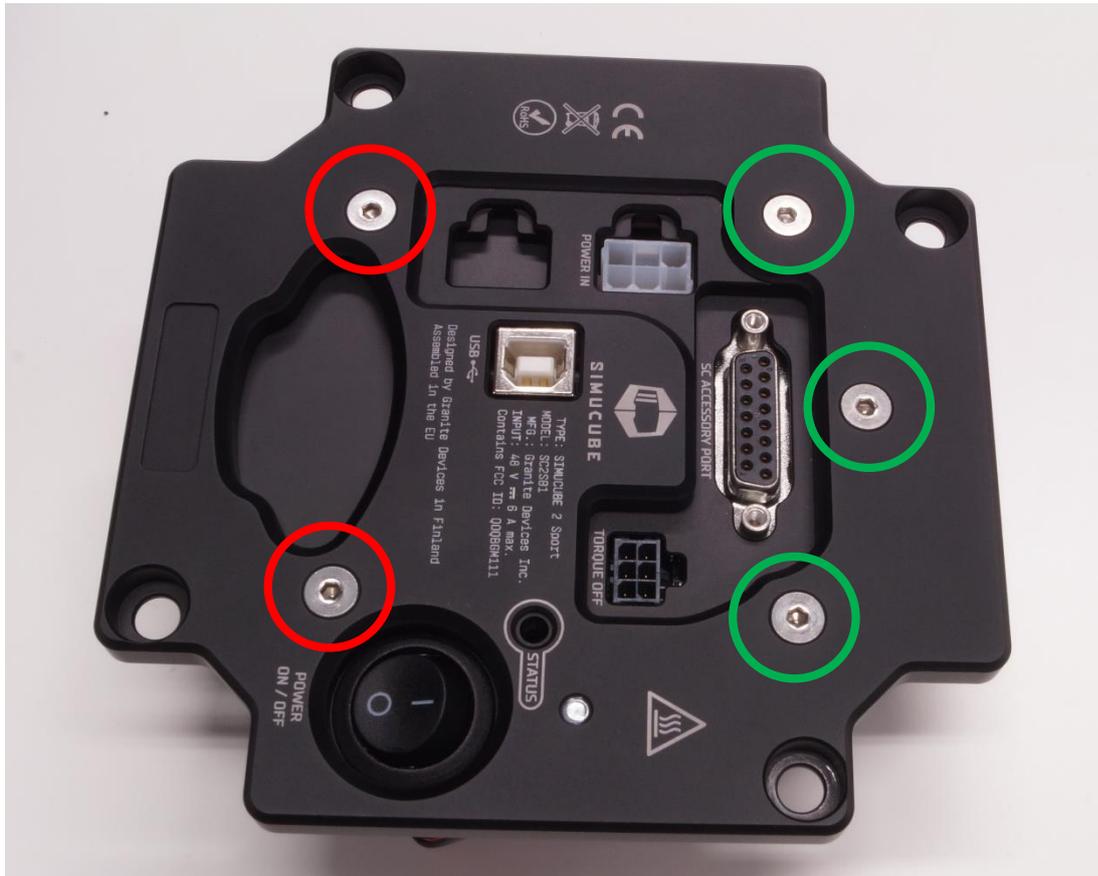


NOTE: Do not let the back plate and electronics assembly to hang so that it is only supported by internal wires!

NOTE: Make sure not to squeeze any cables between parts and damaging them when reassembling this step.

Step 4: Backplate disassembly

Unscrew 2x M4x12mm hex and 3x M4x25mm screws.



NOTE: Make sure to screw the screws to the correct holes then reassembling.

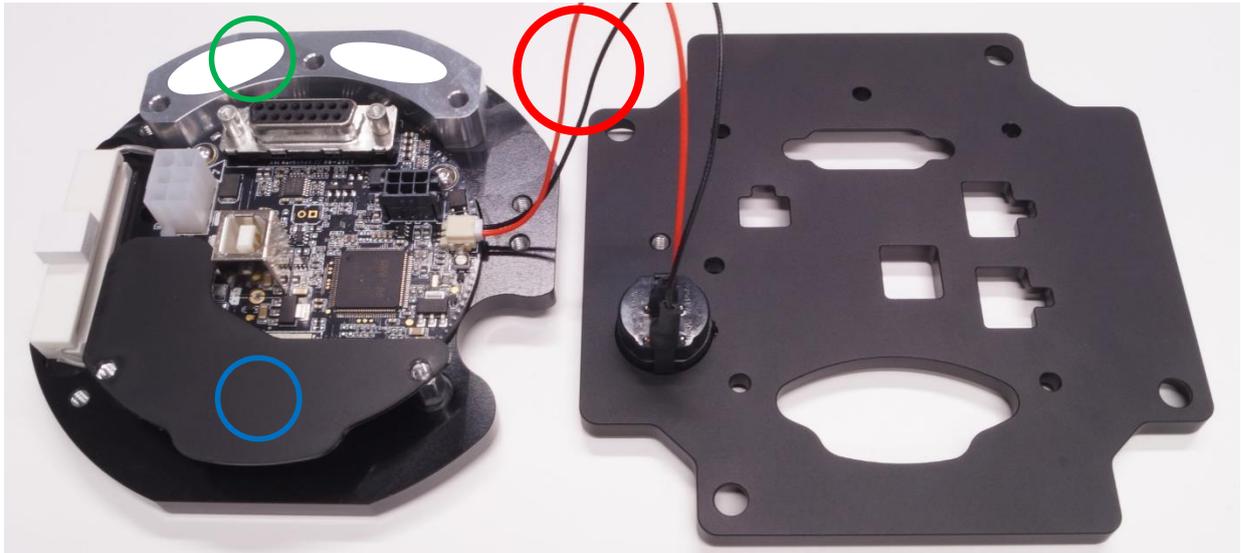
Step 5: RF-window

Separate the backplate from the assembly.

Note the orientation of the RF-window for reassembly.

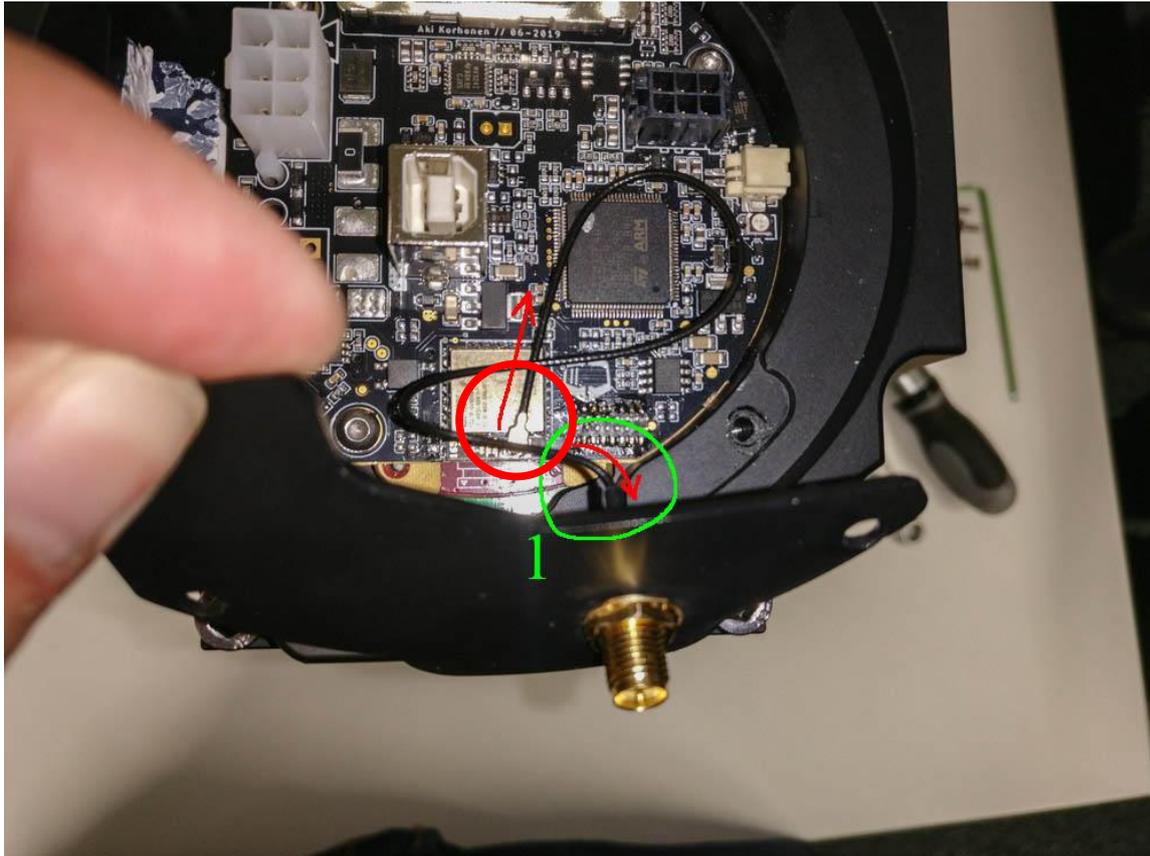
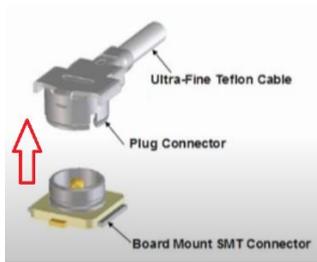
NOTE: Do not touch the or replace the **thermal paste.**

NOTE: Make sure not to squeeze the **power button cable between parts and damaging it when reassembling this step.**



Step 6: u.FL connector

Disconnect the antenna from the **u.FL connector** by pulling the connector up from the PCB.

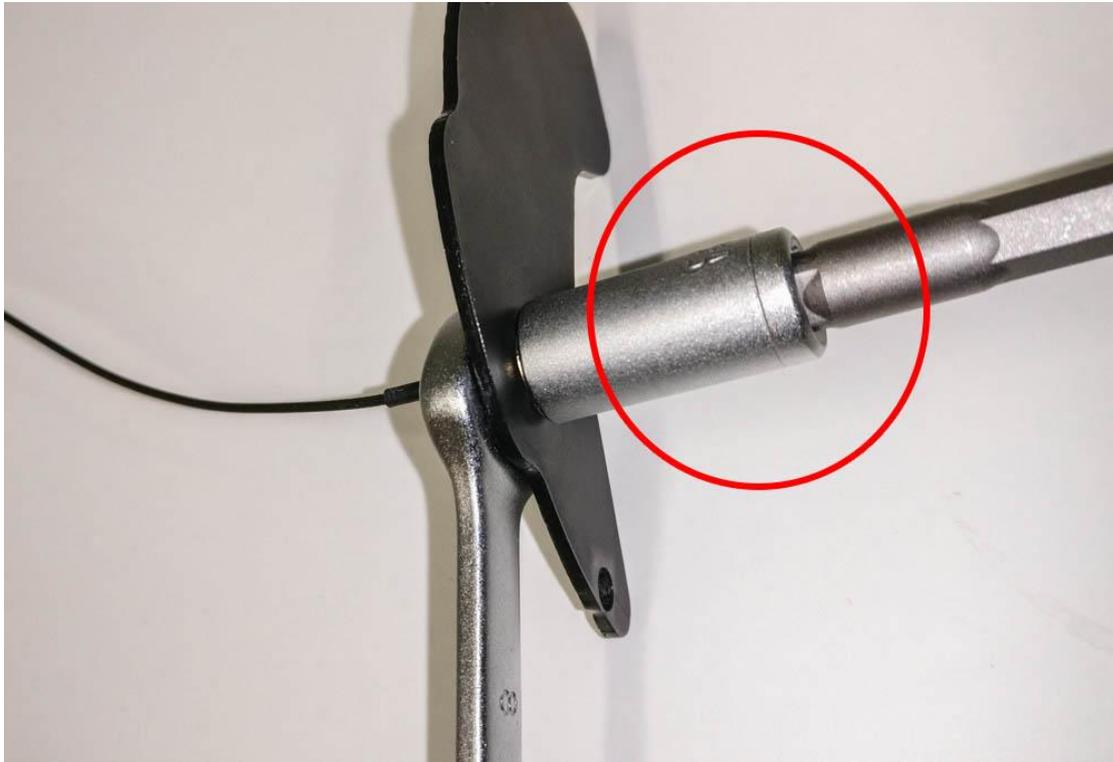


NOTE: Do not pull using the cable it might cause damage to the connector.

This picture is from SC2 Ultimate PCB similar in Sport and Pro.

Step 7: Cable replacement

Unscrew the antenna connector using two 8mm wrenches. Note the arrangement of the washers when disassembling.



Install the new antenna connector with its washers. Tighten the nut so the connector will not rotate when installing the antenna.

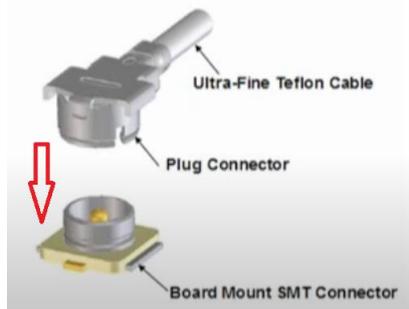
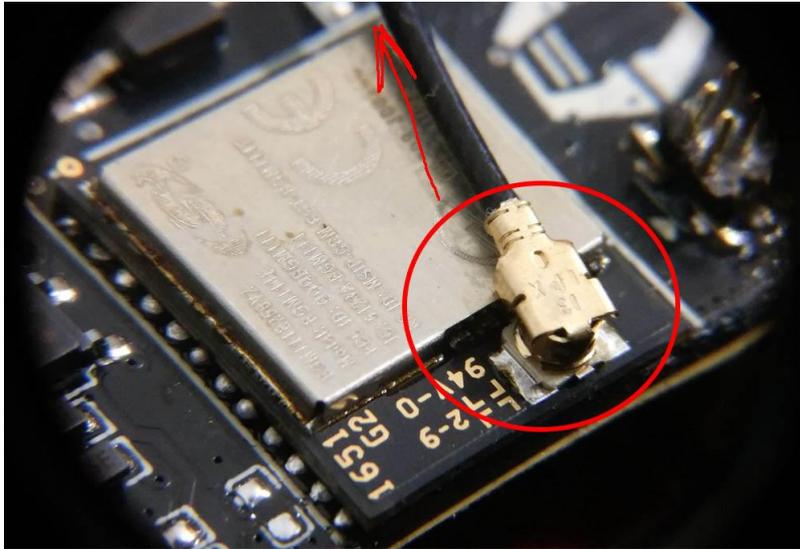
NOTE: Overtightening might deform the plastic.



Step 8: Reconnecting the u.FL cable

Orientate the cable according to the arrow in the image below when reassembling if long cable is used. If the cable is a shorter version, orientate 90 degrees counter-clockwise from the image shown.

Gently push the u.FL connector all the way down. Try to prevent turning or bending the cable after installation as the connector is not very strong.



Step 9: Reassembly

Reverse steps 2-6 to reassemble the device.