

Fix the SV4401A of not able to boot when fully charged

There is a design flaw with the hardware of SV4401A handheld vector network analyzer, which prevents some devices from booting when fully charged. The user will be able to fix this issue according to the following instructions.

Before implementing the fix, you should prepare the following tools and materials: a screwdriver, an 8mm open-end wrench or a pair of needle nose pliers, a soldering iron, and some solder wire.

Step 1

Loosen the 4 screws on the side of the device and remove the back cover.

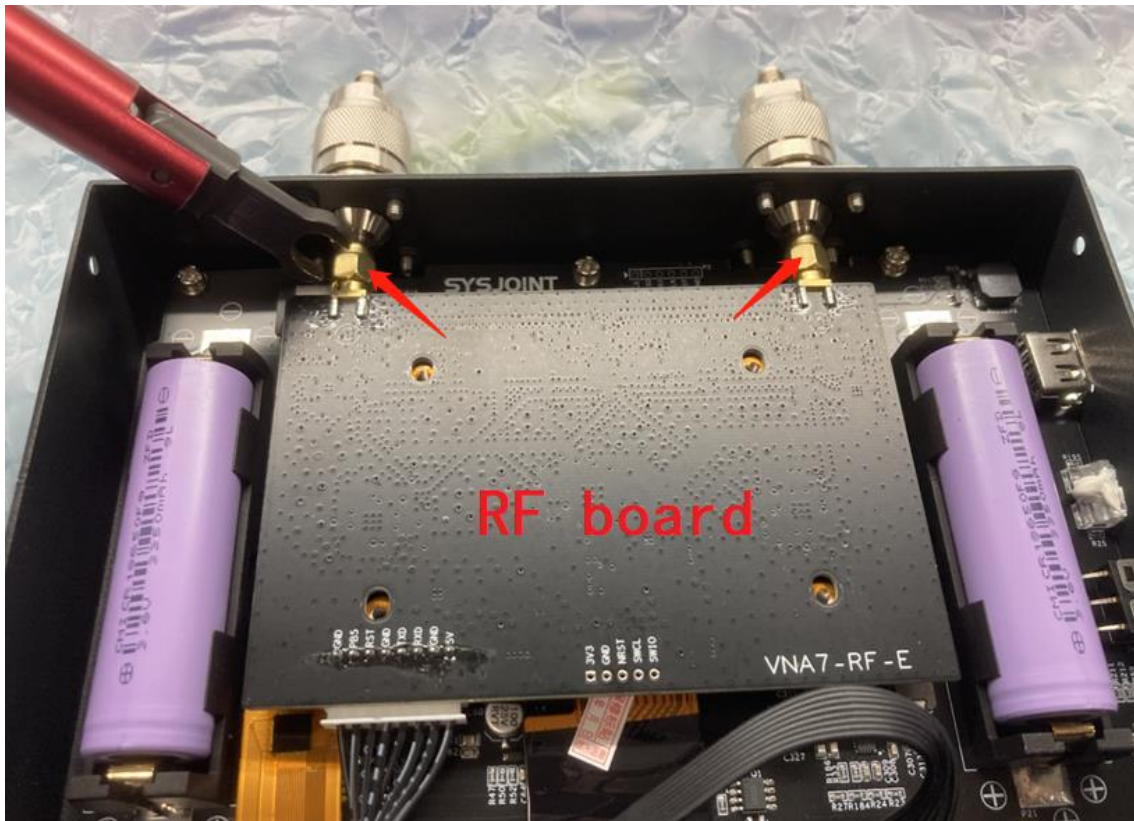
Step 2

Loosen the 4 screws inside the device, as indicated by the red arrows in the figure below.



Step 3

Loosen the SMA screw nuts inside the device with a wrench or pliers. Keep in mind that you should take turns turning both nuts about 1/6 of a turn each time to ensure the two nuts are loosened "simultaneously".



Step 4

Remove the RF board and find the resistor R180 on the CTRL board, as shown in the figure below.



Step 5

Remove R180 with soldering iron, and then short circuit the two pads of R180 with solder, as shown in the figure below.

