ContestConsole button replacement

Please read these instructions in full before starting, to make sure that you have everything you need.

Tools that you might need include:

- Small side cutters / snips
- Small pliers, or tweezers.
- Soldering equipment, including soldering iron, solder, and desoldering braid.

You will also need a replacement switch. Suitable part numbers include:

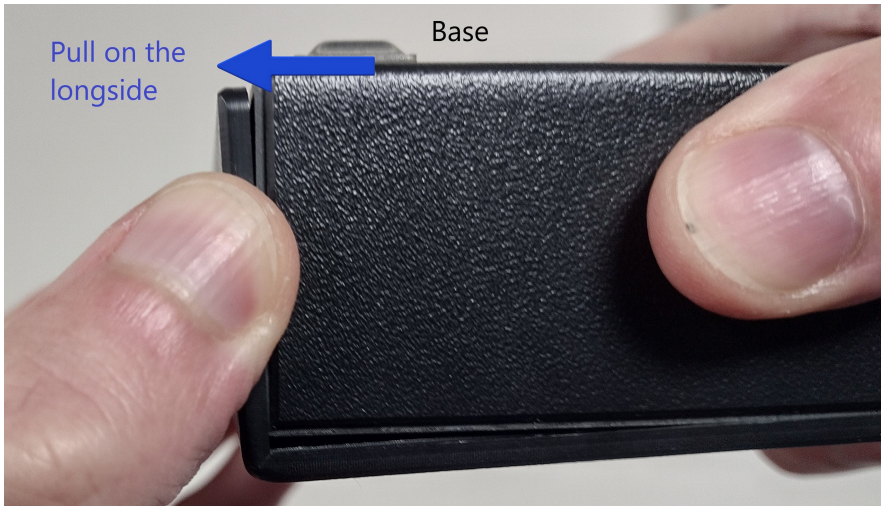
- DTS-24N-V from various sources: https://octopart.com/search?q=DTS-24N-V&currency=GBP&specs=0
- MCDTS2-4N from Farnell or Newark.

Alternatively contact us at support@sotabeams.co.uk to buy one from SOTABEAMS.

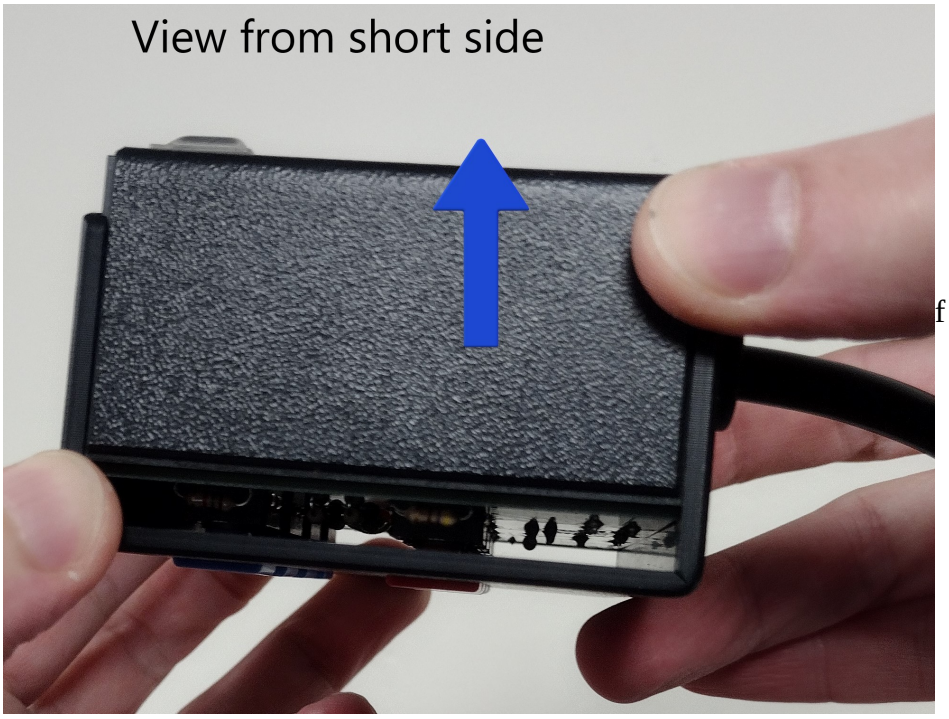
Opening the case

The case is made of two U-shaped pieces that clip together. To open, pull gently outwards on one of the long sides at the bottom until it unclips. Repeat for the other side.

(Note: the ContestConsole is upside down in the pictures below)



The bottom half should then slide out of the top half.



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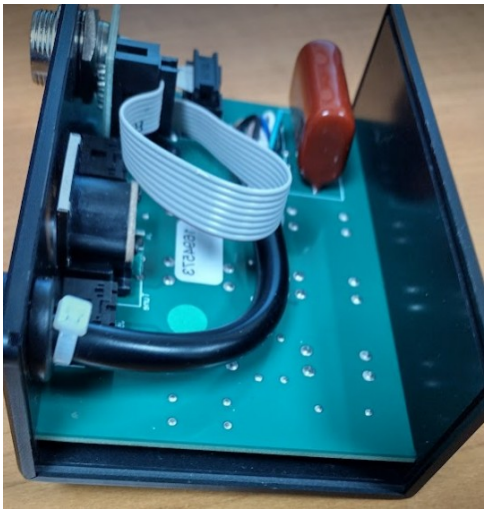
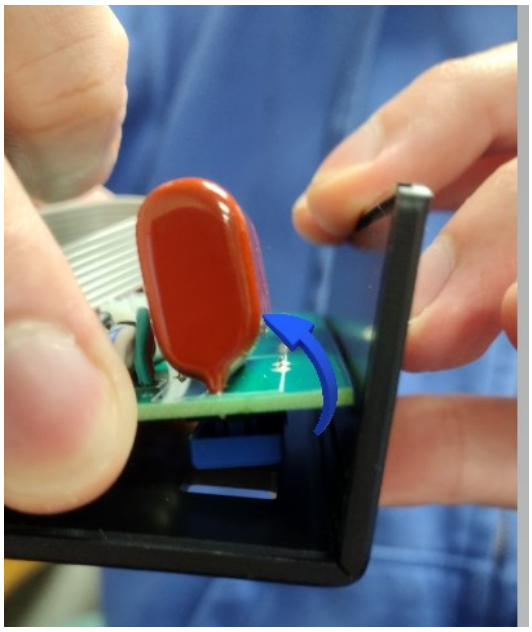
The ContestConsole should now look like this:

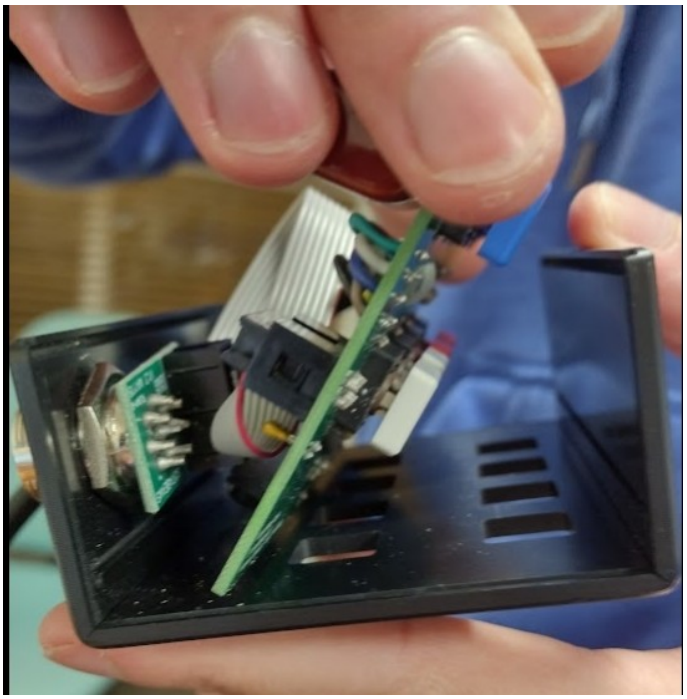


Removing the PCB

The PCB is held in slots in the top half of the enclosure.

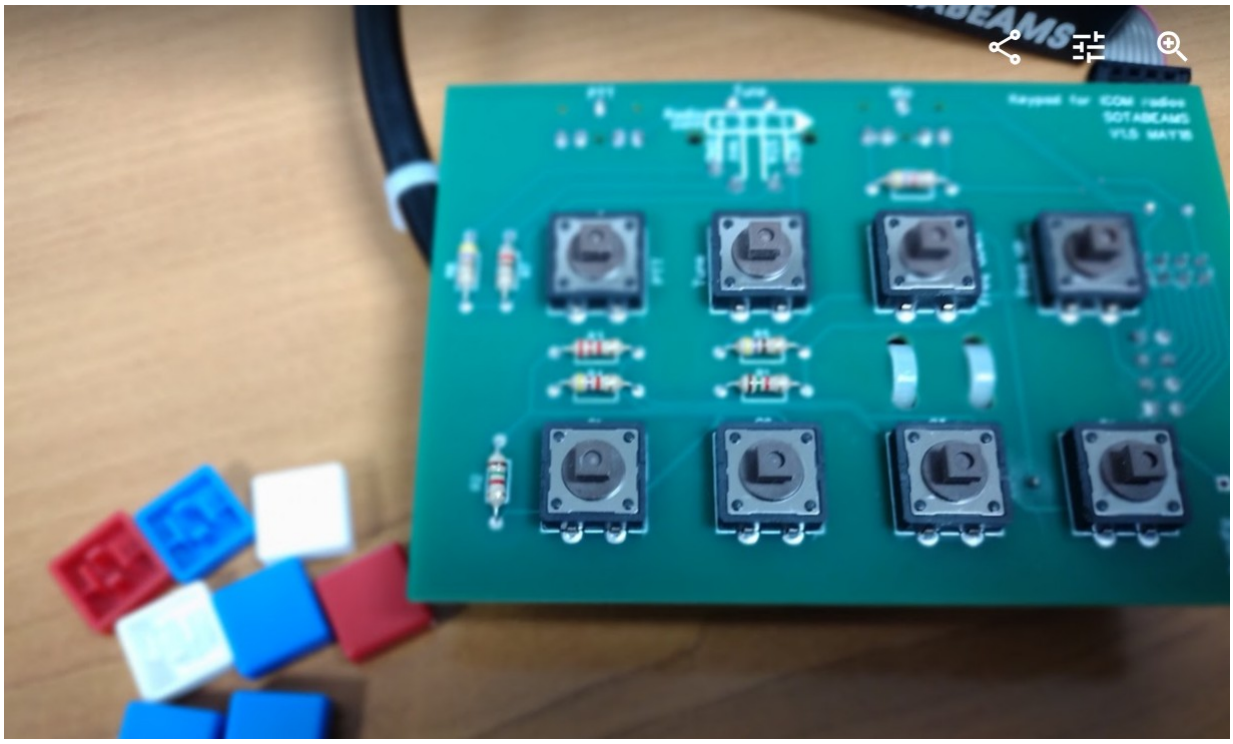
While pulling on the long side of the case opposite the cable, rotate the PCB as shown below to remove it.





Unplug the ribbon cable, then pull the black cable through the grommet to allow the PCB to be worked on.

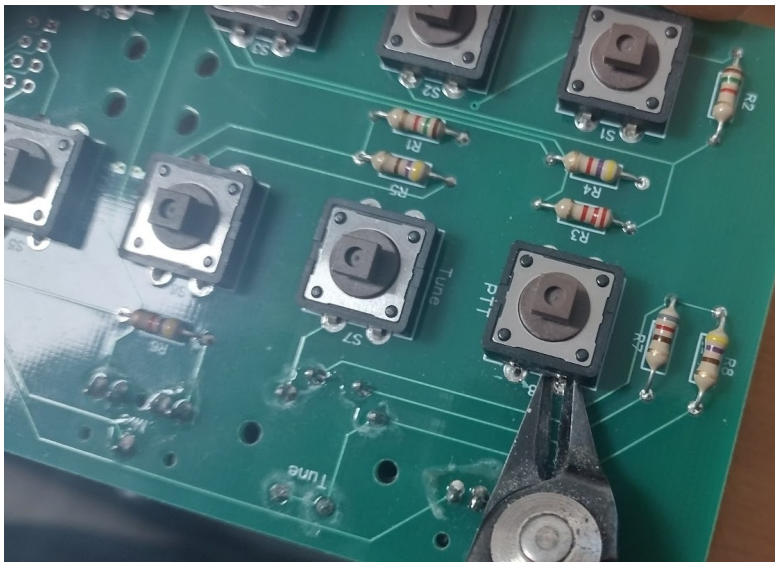
Remove the switch caps by pulling the cap up. Removing all the caps will make it easier to refit the PCB into the case.



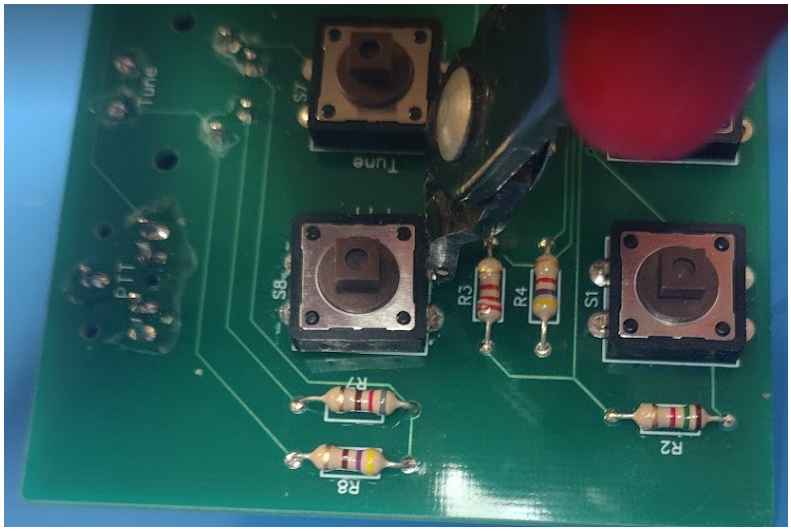
Fitting a replacement switch

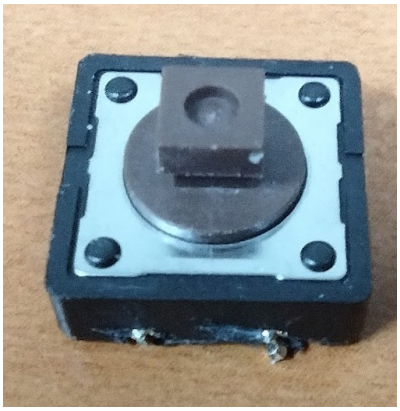
We advise using cutters to remove the switch.

First cut the two legs farthest from the resistors. It is easiest to do this with the cutters horizontal to the PCB.



On the switch side nearest the resistors, use the cutters vertically to cut the legs.

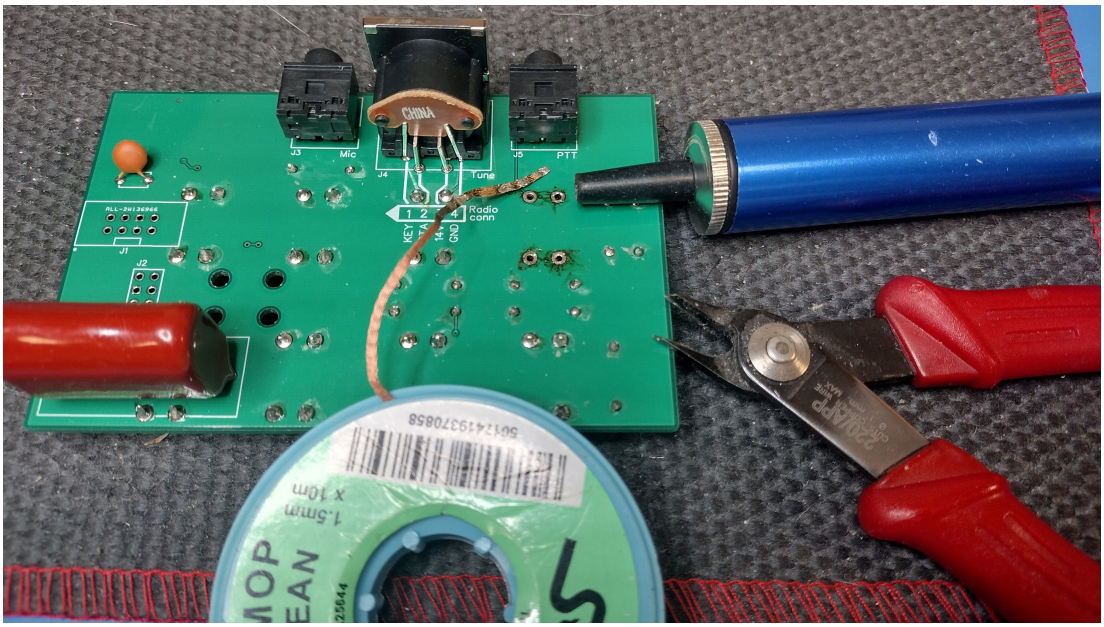




Remove the legs from the PCB. Solder suckers and/or desoldering braid are useful for this.

To remove the legs, you might find it easiest to first add a bit more solder. Then while keeping the joint hot with the soldering iron, use pliers or tweezers to gently pull the leg out of the hole. You can then use desoldering braid to remove the solder from the holes.

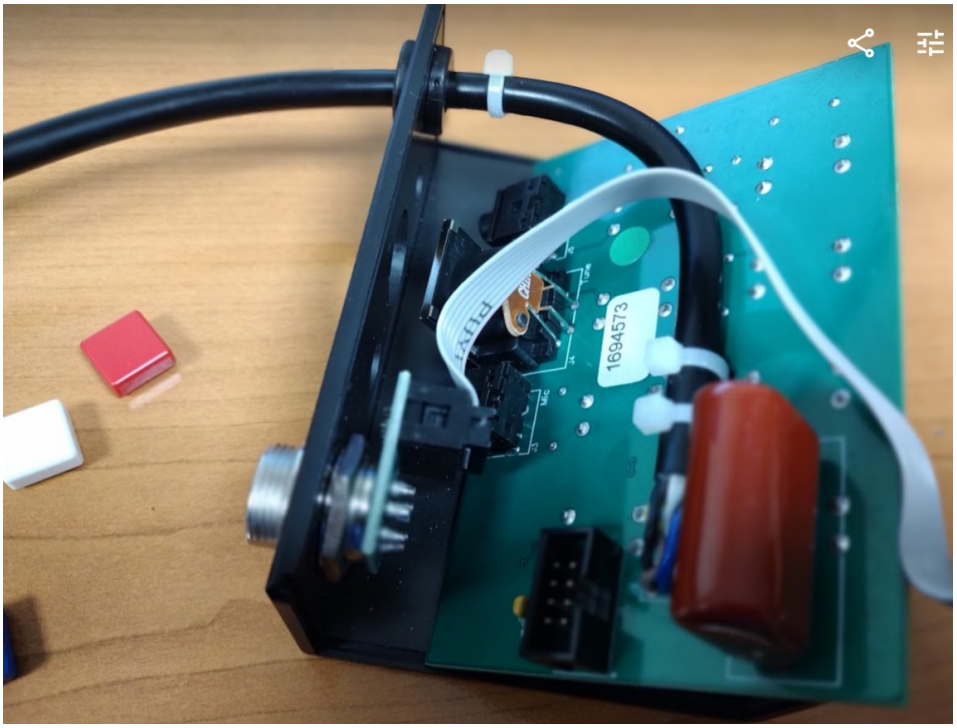
Make sure that you do not overheat the pads on the circuit board and damage them.



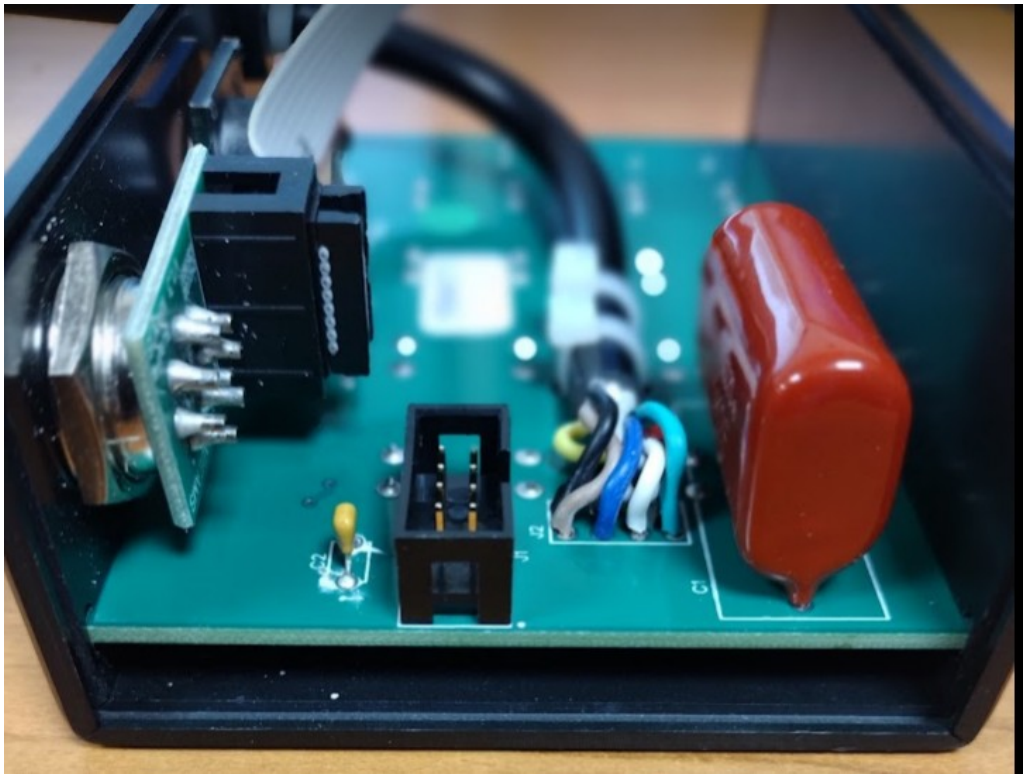
When the holes are clear of solder, fit and solder the new switch.

Reassembly

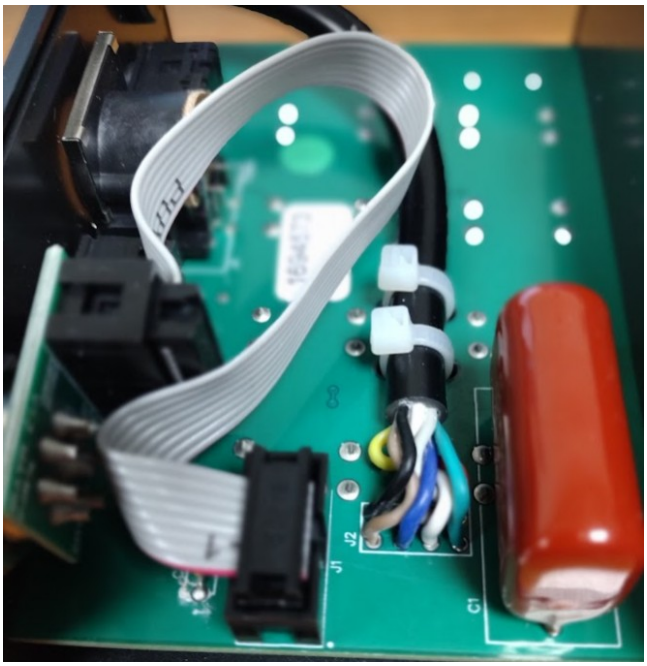
Pull the black cable until the zip tie is next to the grommet. Angle the PCB board in the enclosure as shown below.



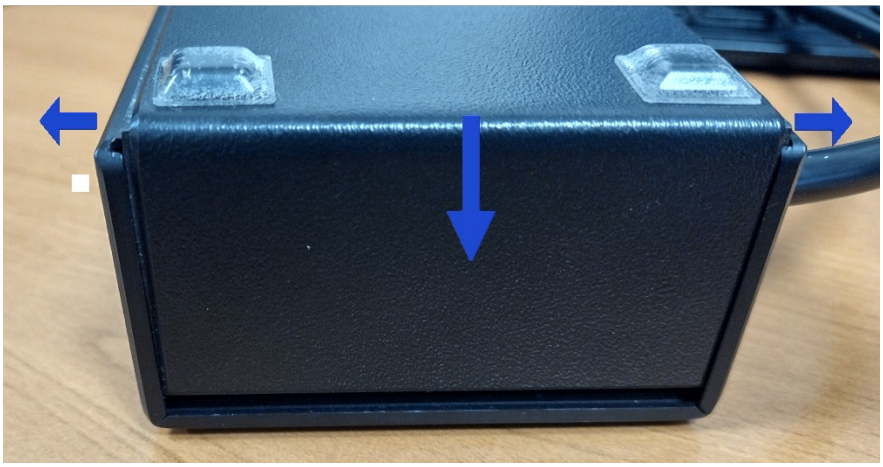
Rotate the PCB under the side connections and push down until it clicks into place.



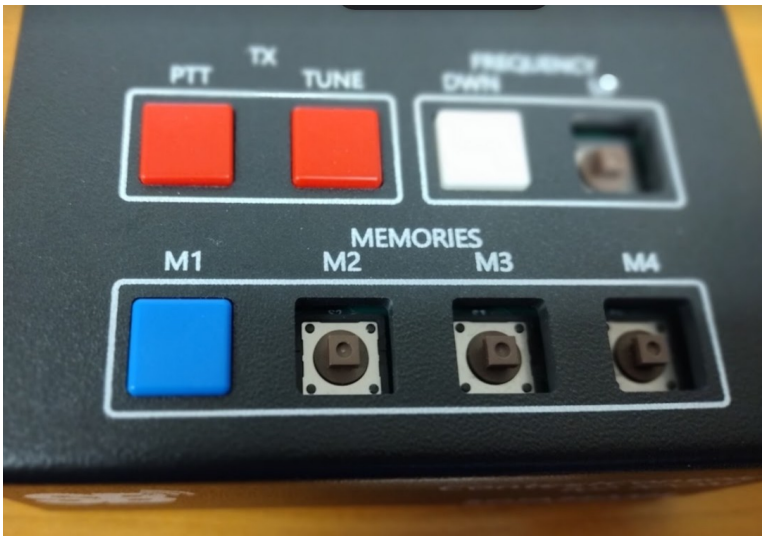
Refit the ribbon cable



Slide the base into the top enclosure.
To lock it in place, gently pull the long sides out and push down on the base. It will click into place.



Refit the button caps. They click into place.



Job done!