

Yaesu Ft 897d

How to replace the broken tuning encoder

The Yaesu FT 897d is surely a good Rtx and it's also mechanically very sturdy. Even so, it can happen that a day, without any reason, while you are turning the tuning, the knob comes out from the radio, taking with itself the rotary cylinder of the encoder, pulsing heart of the tuning section itself. That happened to me a couple of months ago. And now? In this case there are two different things that we can do: to send the equipment to the service paying spare parts and labor, or to order the spare part only, replacing the broken encoder by ourselves. If you are confident with electronics, follow this guide and your 897 will work again as before.

The first and important thing to do is to shoot a snap of the serial number of your Yaesu, which is written on a label placed on a side of the Rtx chassis. Then, send the snap to the service, for being sure to order the right type of encoder, avoiding in this way to buy a not proper spare part.

Once you'll have the new encoder, you can proceed to the repair.

Place on a table the 897 and as a first step turn unclockwise the 8 perimeter screws until they'll be pulled out from the top cover case. Now lift up the top cover gently, because under it there are the wires and the plug of the loudspeaker as well as the batteries switcher's cables, and they are a little bit shorter.

Now you must disconnect the 3 plugs of the frontal panel that connect it with the rest of the equipment.

To understand which ones are, watch the photo n.1 and then pull them out from the motherboard.

Now, for extracting the front panel from the chassis, it is necessary to proceed in the following way.

Let start again from the upper side and, referring to the photo n.2, turn unclockwise the 2 screws indicated by the red arrows, till they be pulled out

Now turn the rtx upside down and turn unclockwise what indicated by the red arrows in the photo n.3.

Watch the photo n.4 and observe where the cables pass through. That's a hole inside the chassis.

With great care start to pull the frontal panel out of the chassis and, at the same time, slide the 3 plugs and their wires through the metallic hole of the chassis.

Now you have the frontal panel free from the rtx, as well as it appears in the photo n. 5.

The encoder's plug is the one indicated in the photo n. 6. Unplug it. Keep off the knob from the rotating cylinder of the encoder, extract the little screw placed in a hole around it, using the proper hexagonal tool.

Under the knob there is a metallic cylinder coloured as gold, the same of the photo n.7, that fixes the encoder to the panel. Trying to not damage it, unscrew and pull it out. Now the encoder is free.

Pull the broken encoder out of the panel replacing it with the new one. Now you can proceed following the instructions in the reverse mode. Easier making it than describing it.

I paid the encoder 47 Euro and it was the only expense I had to repair the 897 d.

What do you think, isn't a good thing to try to change it by ourselves?

Good work and good dx.

Photo 1

Photo 2

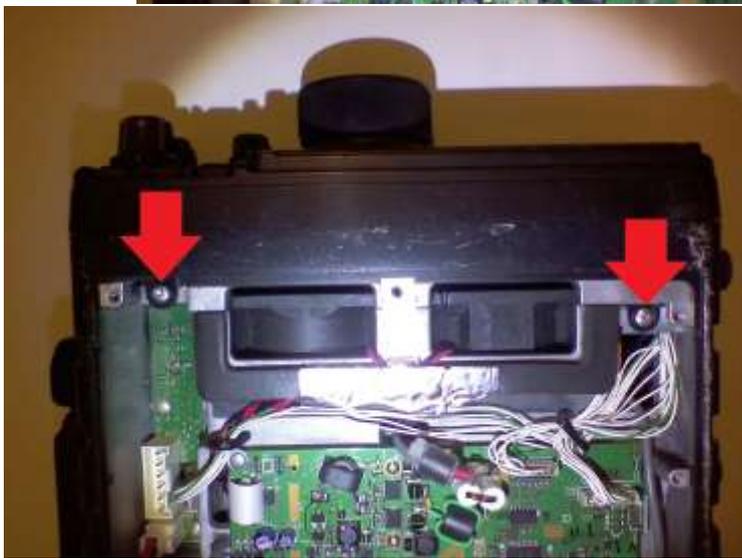


Photo 3

Photo 4

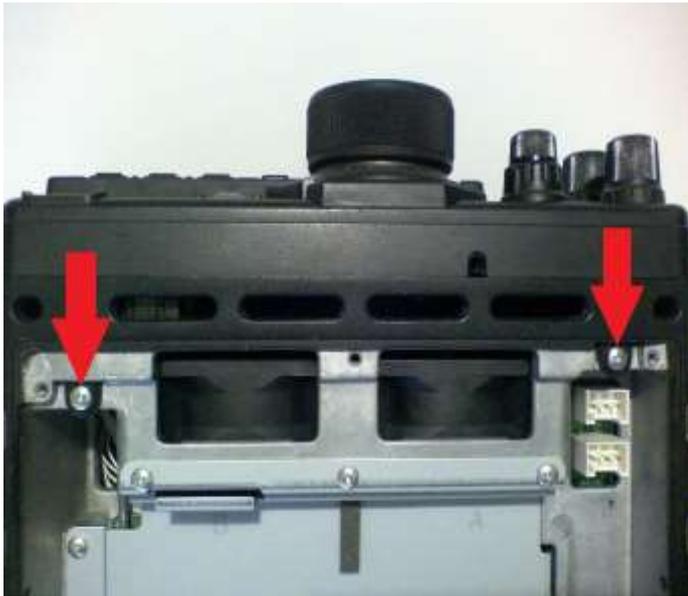


Photo 5

Photo 6



Photo 7

Photo 8



Photo 7

Photo 8



