

Modifying the MH-31 microphone for the FT-736R

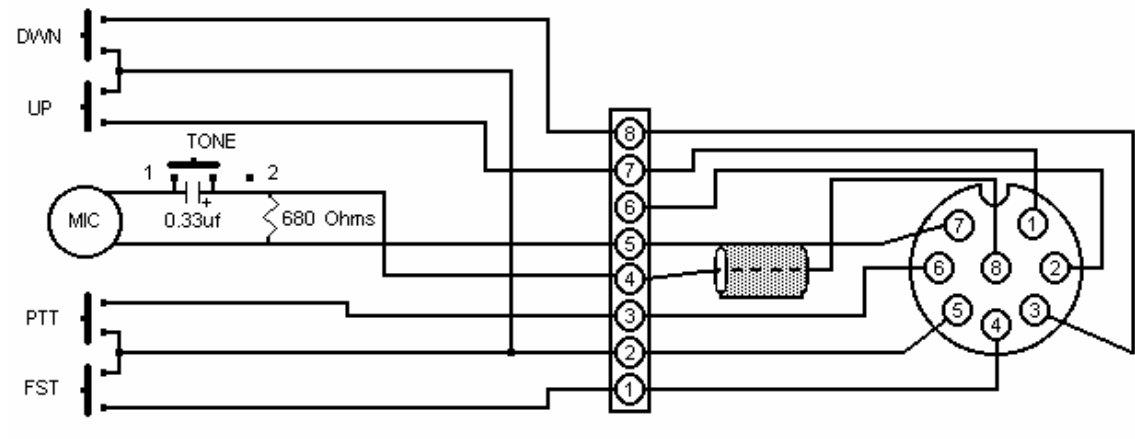
(and possibly other radios)

This mod is for a MH-31 microphone to be used for the FT-736R. I will not take credit for this mod as Yaesu provided the information, but I provided the clearer picture.

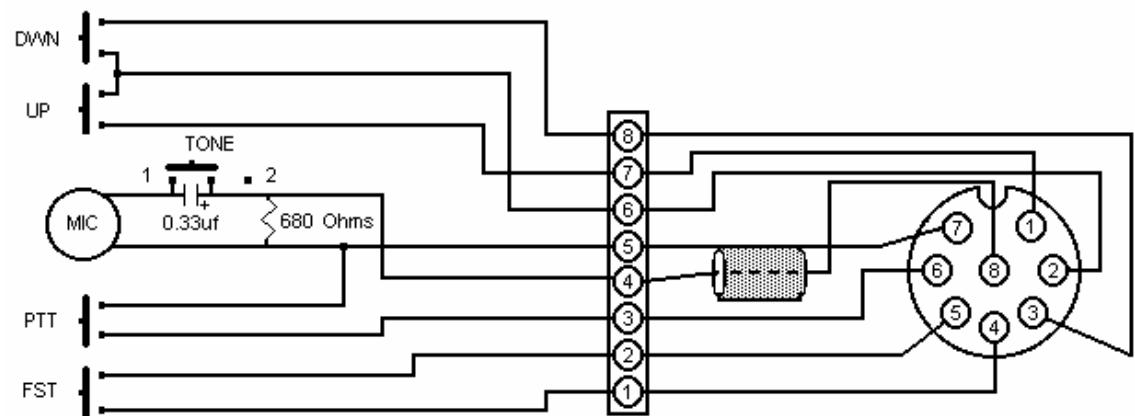
I bought a 736R without a microphone and contacted Yaesu for a replacement. I was informed of the mod needed to make this microphone work and wanted to share the mod. The instructions provided were not the greatest, that's why I make them available (with pictures) here.

To start, the schematic (and circuit) is changed internally as rewiring the mic's connector is not possible. Here is the schematic of the before and after the mod.

Original MH-31 Microphone Schematic



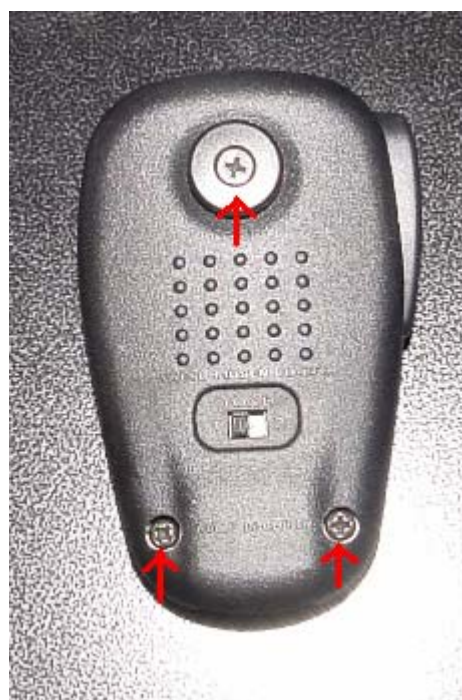
Modified MH-31 Microphone Schematic



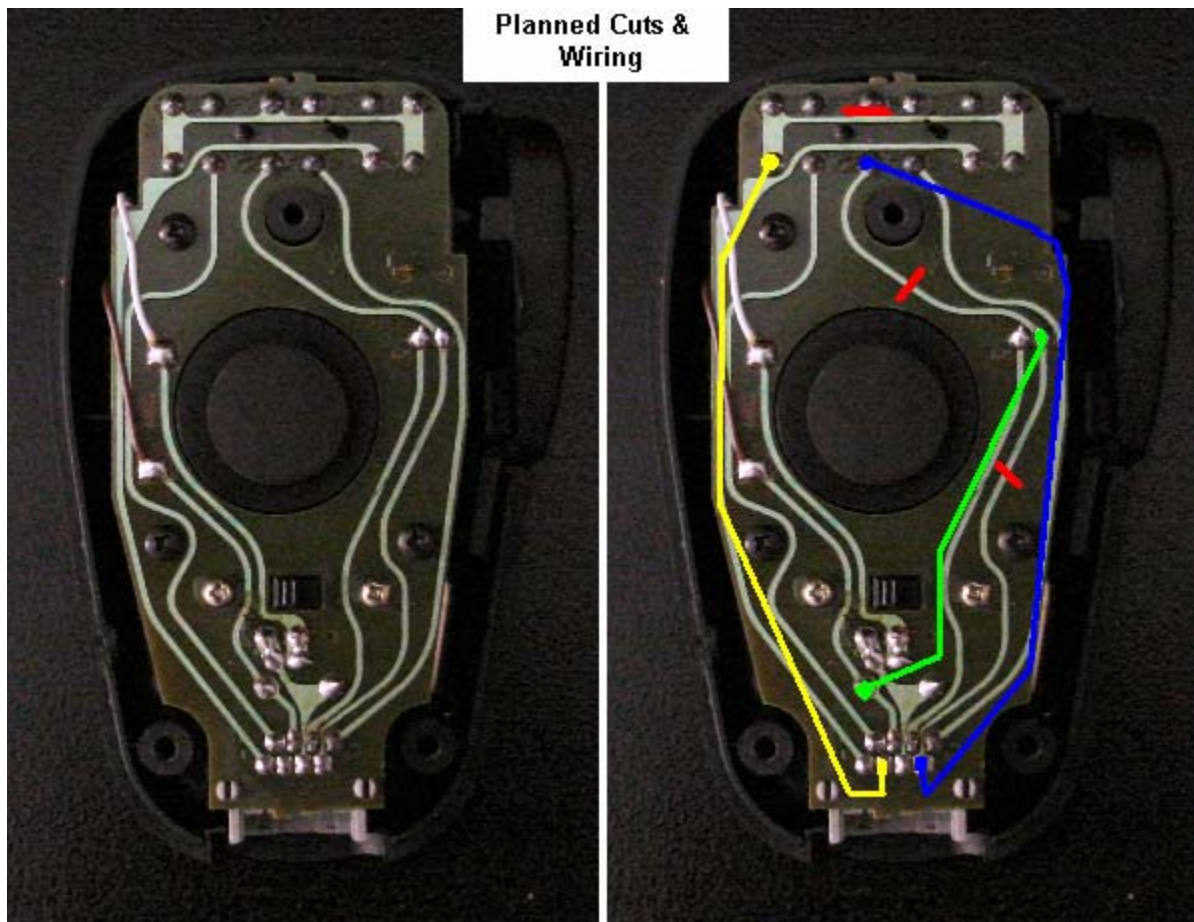
As you can see, the schematic is very different internally. The mic cable is attached to a modular plug connector. This cable should be disconnected to make the mod easier. Just press at the connector on the cable that attaches to the mic body (it says press on the cable), push up into the body and pull the cable back. You should have something like the following picture.



Once removed, turn the mic body around to see the back. Remove the 3 screws marked with a red arrow.



Once the screws and back are removed, you should be able to see the traces. Cut the traces at the red lines with an Exacto knife and use jumpers where the blue, green and yellow lines go.



Make sure your wires don't get in the way for reassembly. I used CAT-5 wire because of its size. When done, it should look something like the following picture. I made it bigger so you can see the trace cuts.



Make sure you don't bridge the modular connector pins with solder. Once you finish, put the mic together and plug the cord back in. this mod may work for other radios that are in the 736R vintage.

73,
Chris N0TTW