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How to install the Powerband RFX75  
on Uniden 78 series radios.

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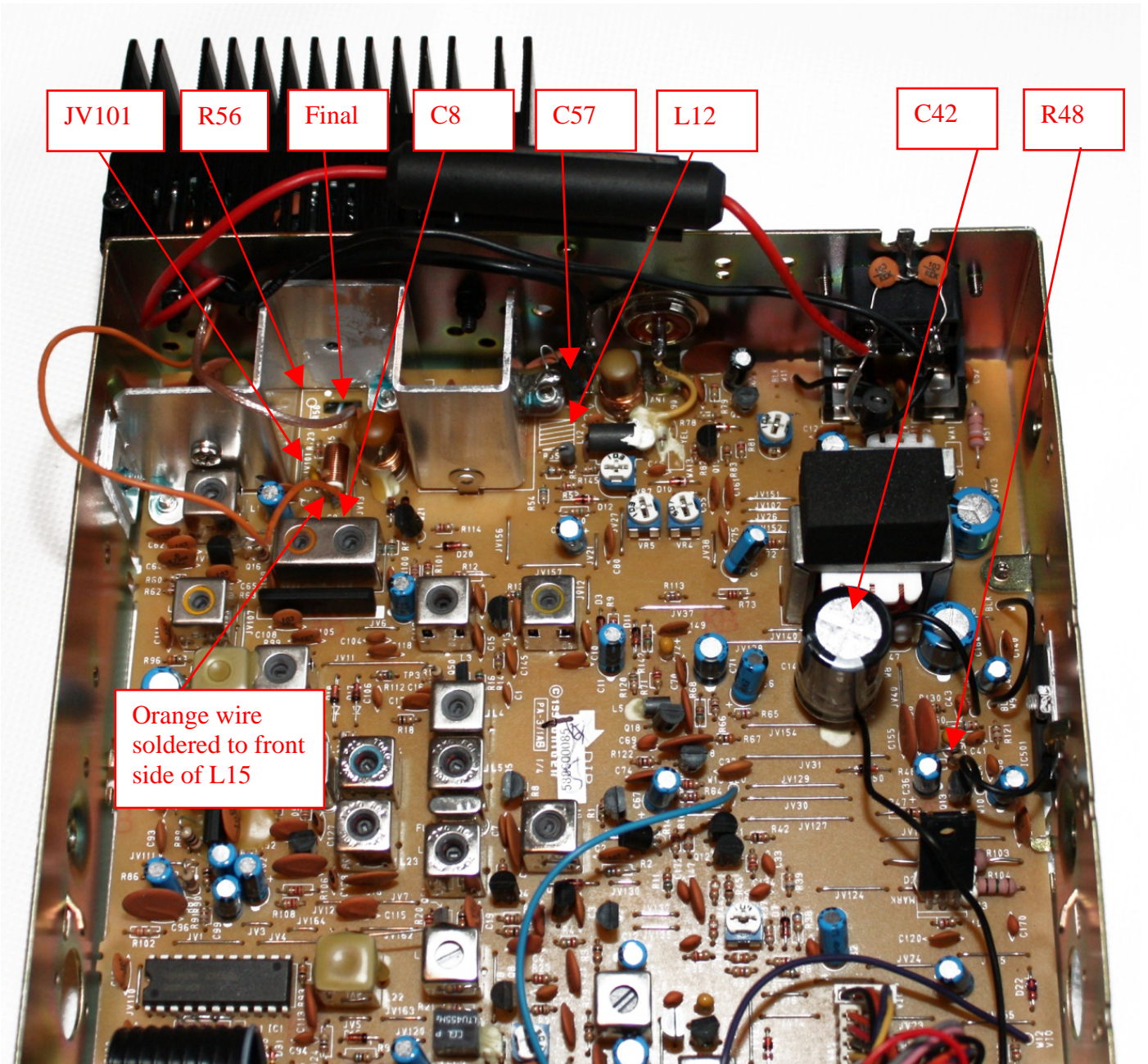
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## RFX75 – Uniden 78 Installation

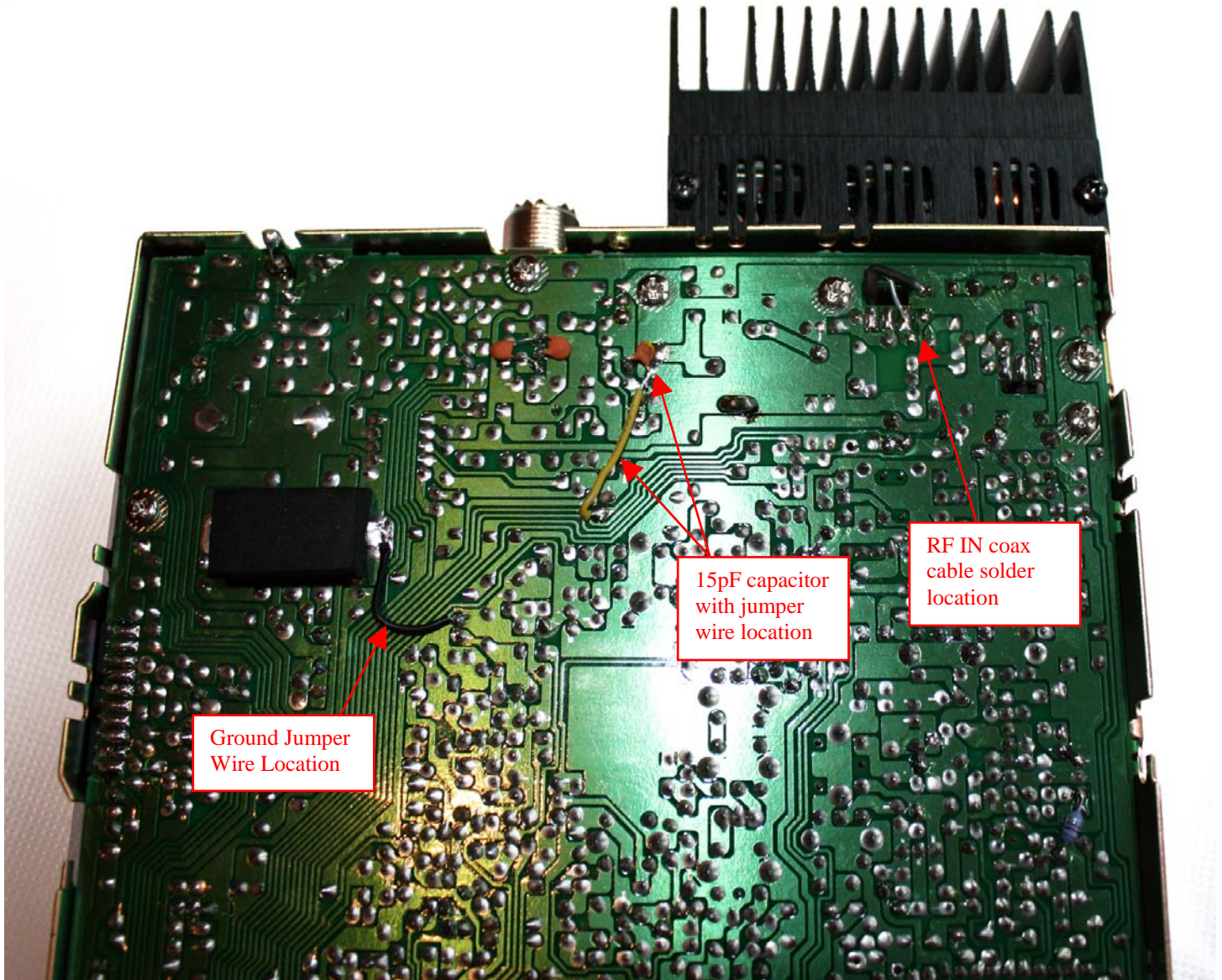
1. Locate the capacitor at C10 on the RFX75 and carefully cut it off the board.
2. Cut the Yellow and Blue wires off the RFX75 board.
3. Cut the RX OUT coax cable off the RFX75 board. Take care to cut it close enough to the PCB so that it does not short out on anything.
4. Drill and mount the RFX75 on the back of the radio using the supplied hardware.
5. On the solder side of the radio, remove the 100pF capacitor soldered across the final transistor pads.
6. From the radio, remove C57, R56, L12, and the final transistor.
7. Remove C42 and replace it with a 3300uf, 16V electrolytic capacitor.
8. Remove R48 and replace it with a 330K ohm resistor.
9. Remove the 15pF capacitor at C8 and save for next step.
10. On the solder side of the radio (orientate with the front panel facing you), solder one lead of the 15pF capacitor to the left trace of the removed coil at L12.
11. Solder a short wire to the other lead of the 15pF capacitor and solder the other end of the wire to the trace connected to JV12. *This reconnects the RX circuit in the radio.*
12. Add a ground jumper wire from the C71 trace closest to the back panel of the radio to the large ground area shown on attached photo. *This eliminates a ground loop that can cause the radio to squeal on transmit.*
13. Route the RF IN coax through the hole where the final transistor was. On the solder side of the radio (orientate with the front panel facing you), solder the RF IN coax center conductor to the right most trace of the removed final transistor. Solder the coax shield to DC ground.
14. Solder the Red and Black wires to the back of the DC power jack (observe polarity!).
15. Solder the Orange wire to the front side of L15.
16. Solder the RF OUT coax center conductor to the rear hole of L12. Solder the coax shield to the chassis ground tab on the back of the radio's antenna connector.
17. Retune the transmit and receive of radio for best performance. **IMPORTANT:** If the carrier is higher than 15 watts you should take the following steps to reduce the carrier to below 15 watts.
  - a. After confirming that the radio is functioning properly, remove JV101 and install a 1000μF, 16V electrolytic capacitor in its place with the negative lead in the rear hole and the positive lead in the front hole.
  - b. On the solder side of the radio's circuit board add a 10 ohm - 47 ohm, ¼ watt resistor across the two points where you installed the 1000μF capacitor. This will allow you to adjust the carrier - the higher the resistor value, the lower the carrier. Typically, 33 ohms is about right.

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