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How to install the Palomar RFX85
on Uniden 68 series radios.

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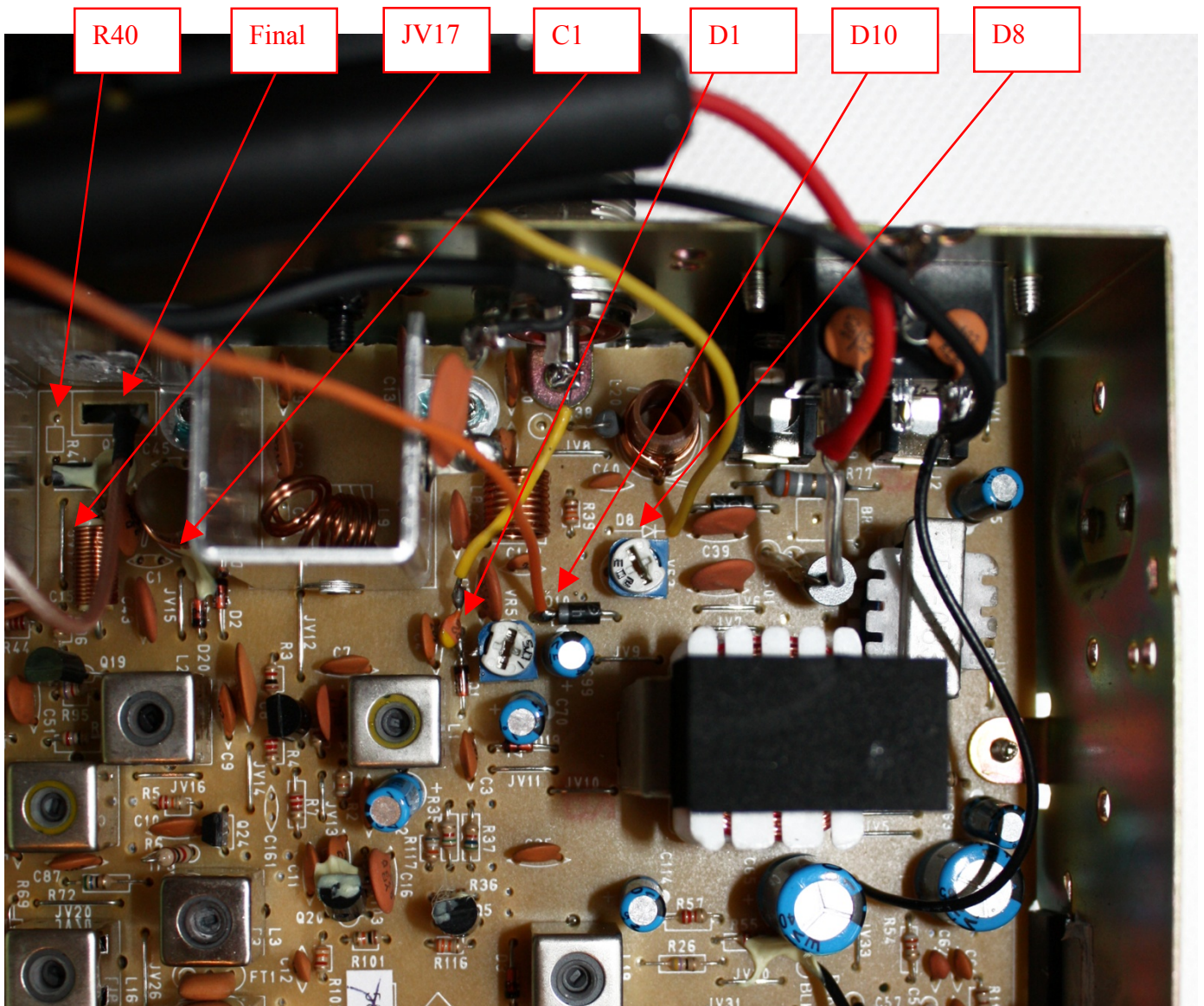## Thank you for any support you can give.
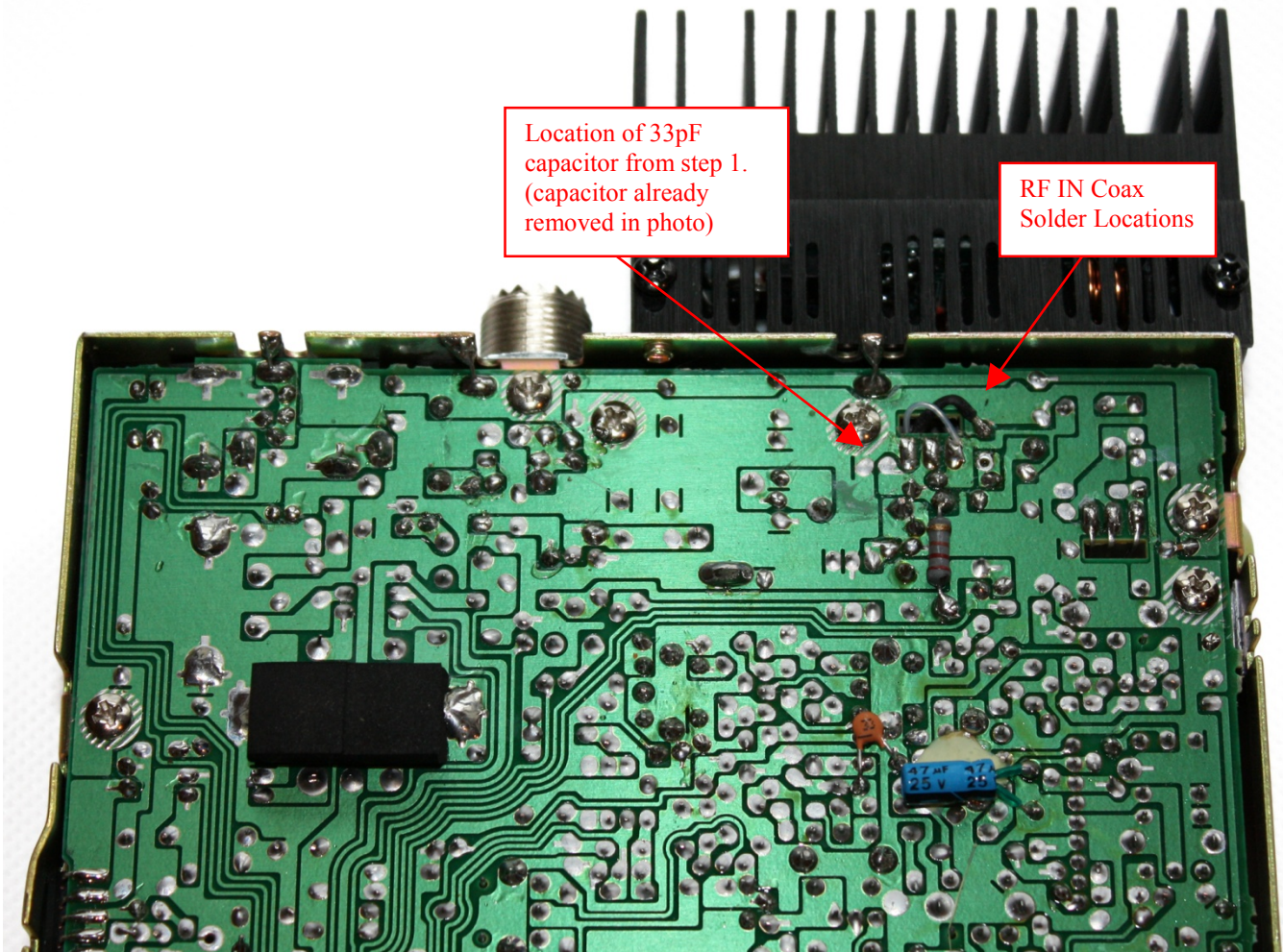
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1. On the solder side of the radio PCB, remove the 33pF capacitor that is soldered across the final transistor leads.
2. Remove D8, R40, and the final transistor from the Uniden 68.
3. Locate the wire soldered from the antenna connector to the circuit board of the radio. Unsolder this wire from the circuit board – leave the other end of the wire soldered to the antenna connector.
4. Replace R53 with a 470K ohm resistor. R53 is located near the audio amp IC.
5. Remove the 22pF capacitor at C1 and keep it for the next step.
6. Solder one lead of 22pF capacitor to the unsoldered end of antenna connector wire. Connect the other lead of 22pF capacitor to cathode (stripe) side of D1. *This reconnects the RX circuit of the radio to the antenna connector.*
7. Cut and remove the BLUE wire from the RFX85.
8. Drill and mount the RFX85 to the rear panel of the radio.
9. Solder the ORANGE wire from the RFX85 to the cathode side of D10. Do not remove D10.
10. Solder the YELLOW wire from the RFX85 to the cathode side hole of D8.
11. Solder the RF OUT coaxial cable center conductor to the center of the antenna connector. Solder the shield to the antenna connector tab (chassis ground).
12. On the solder side of the board (with the front panel of the radio facing you), solder the RF IN coaxial cable center conductor to the right most trace from where the final transistor was removed. Solder the shield to DC ground.
13. Solder the RED and BLACK wires from the RFX85 to the back of the radio's power jack – observe polarity!
14. After tuning the radio, verify that the carrier is not higher than 15 watts. If the carrier is higher than 15 watts, perform the following steps.
    a. Remove JV17 and install a 1000µF, 16 volt electrolytic capacitor with the negative lead of the capacitor towards the back of the radio.
    b. On the back of the PCB, Install a 10ohm to 33ohm resistor across the two points of JV17 to obtain the desired carrier level. Typically, a 15 ohm resistor is about right.
15. If the carrier is lower than the desired amount, you can add a 68pF ceramic disc capacitor across C46. This will increase the carrier slightly.

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Location of 33pF capacitor from step 1. (capacitor already removed in photo)

RF IN Coax Solder Locations