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How to install the Powerband RFX75
on Cobra 25 series radios.

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RFX75 – Cobra 25 Installation

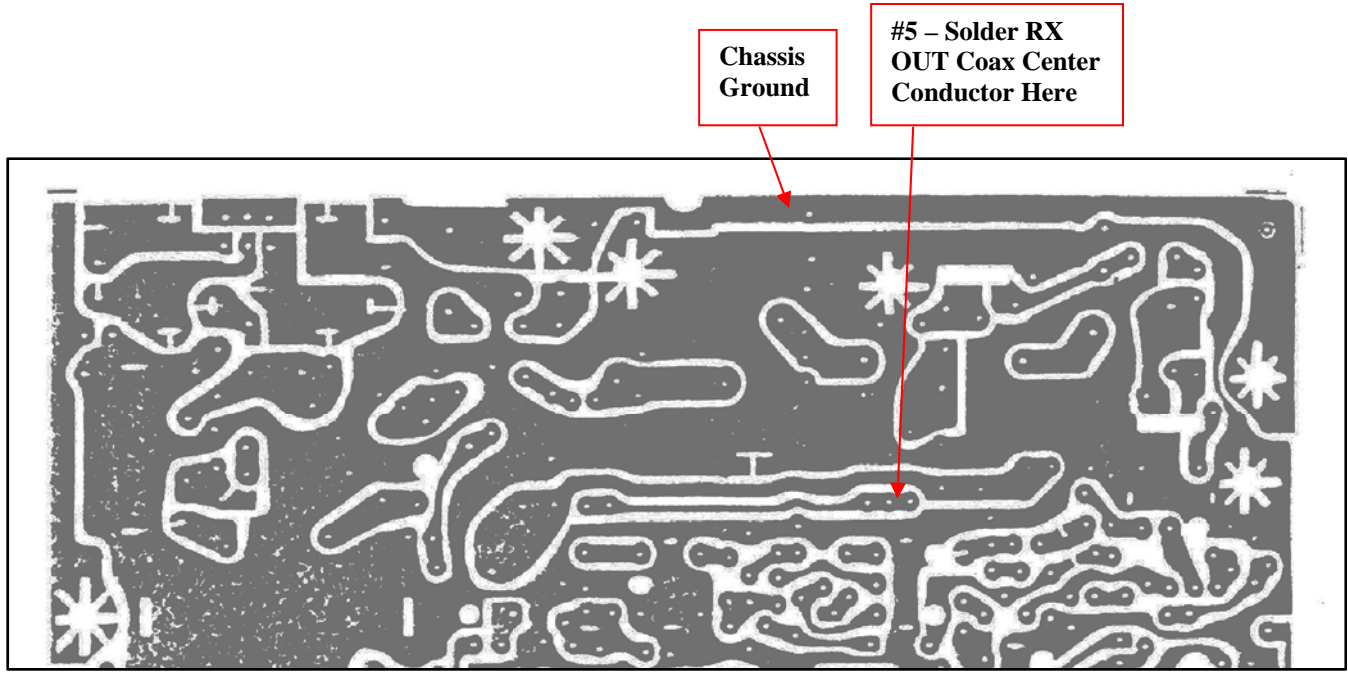
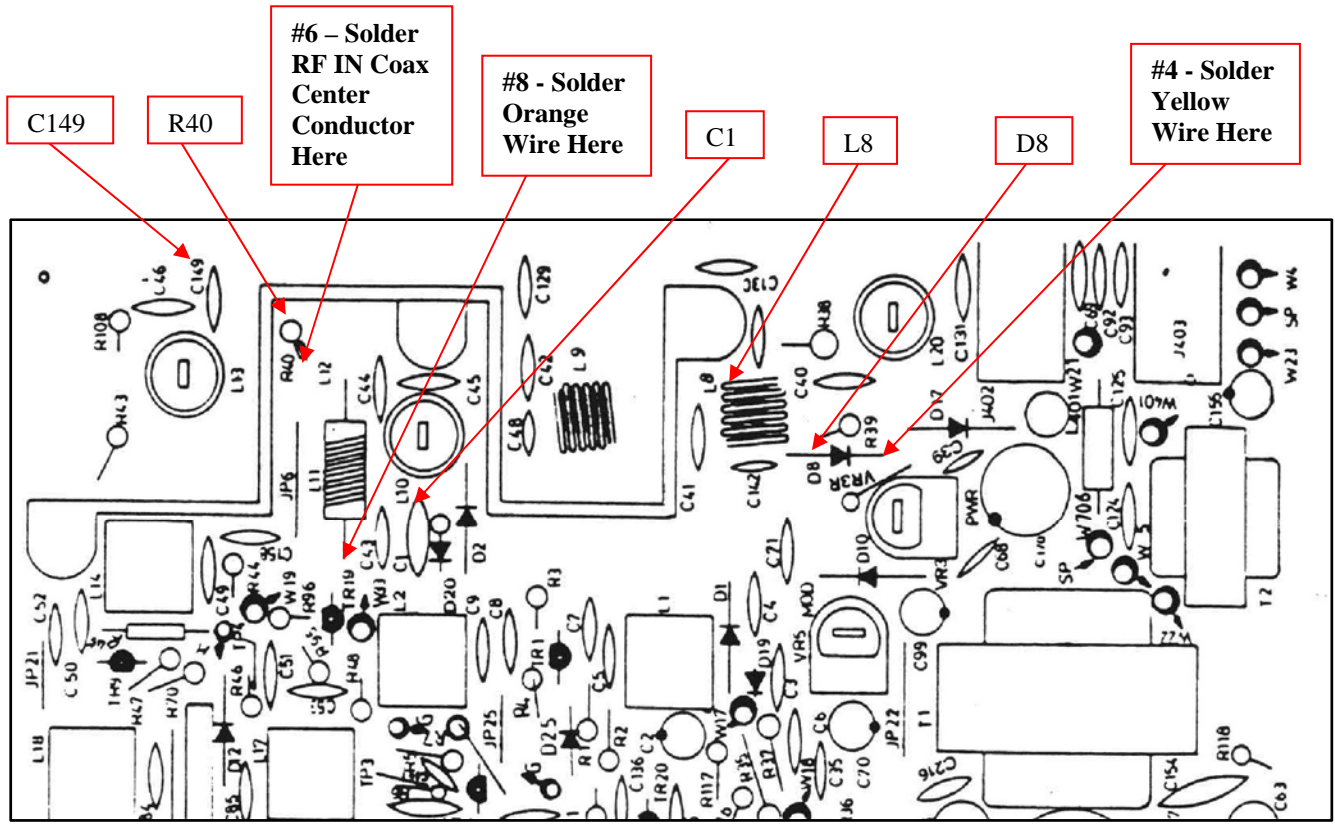
1. Remove D8, L8, R40, C1, C149, and the final transistor from the Cobra 25.
2. Remove the capacitor at C10 and the Blue wire on the RFX75.
3. Drill and mount the RFX75 to the rear panel of the radio.
4. Solder the Yellow wire to the right side hole of D8. This is the hole closest to the external speaker jack.
5. Solder the RX OUT coax center conductor to the junction of C1 and D20. Solder the coax shield to DC ground.
6. Solder the RF IN coax center conductor to the hole of R40 that is closest to the front panel of the radio. Solder the shield to DC ground.
7. Solder the RF OUT coax center conductor to the back of the antenna connector's center pin. Solder the coax shield to the tab that is Chassis ground on the antenna connector.
8. Solder the Orange wire to the side of L11 that is closest to the front panel of the radio.
9. Replace R53 with a 470K ohm, ¼ watt resistor. R53 is located near the audio amp IC.
10. After re-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 JP6 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 ¼ watt resistor across the two points of JP6 to obtain the desired carrier level. Typically, a 15 ohm ¼ watt resistor is about right.

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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