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How to install the Powerband RFX75 & RFX85
on Cobra 25 series radios.

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RFX75 and RFX85 – Cobra 25 Installation

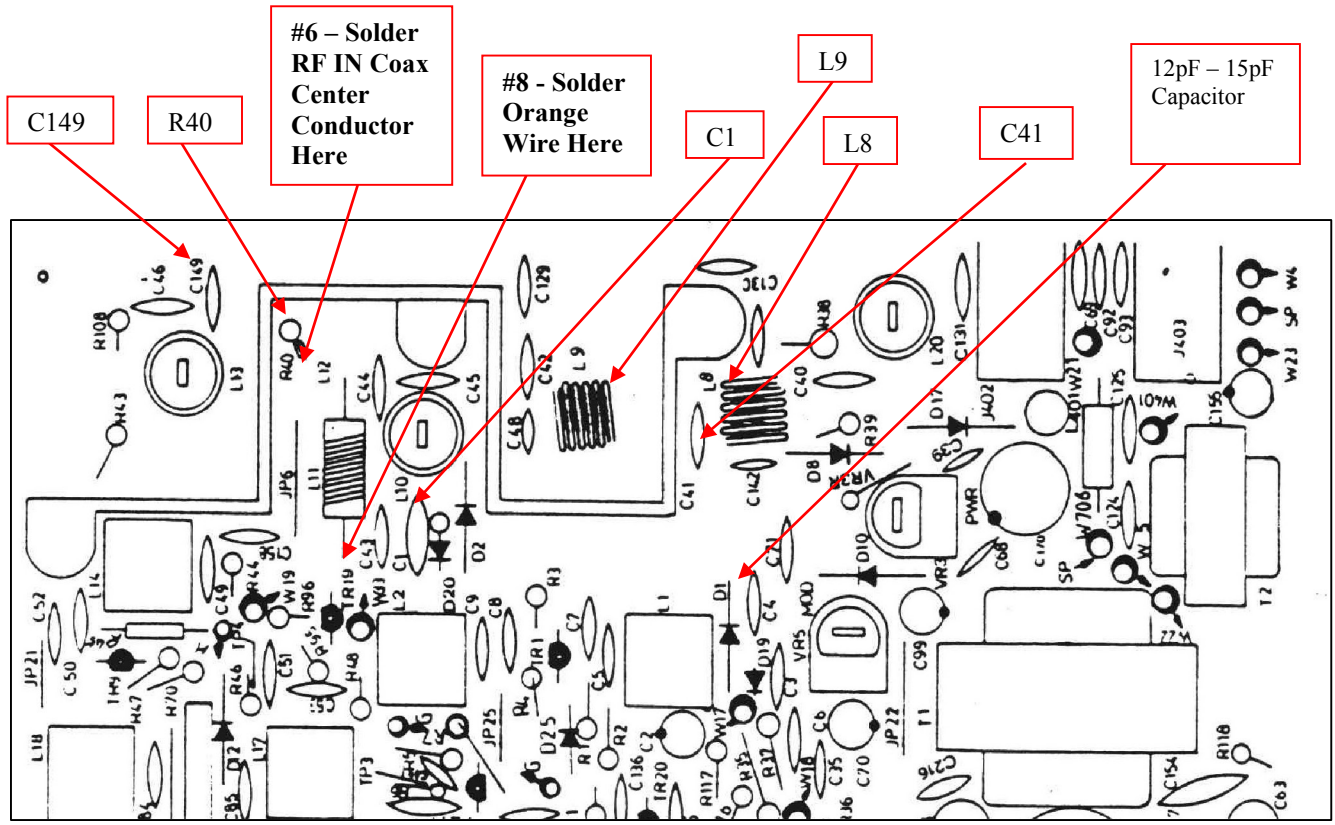
1. Remove L9, R40, C1, C41, C149, and the final transistor from the Cobra 25.
2. Remove L8 from Cobra 25 and install a jumper wire in its place.
3. In Cobra 25, solder one lead of a 12pF – 15pF ceramic disc capacitor at solder pad junction of D1 and C4 and solder the other capacitor lead to jumper wire at L8.
4. Remove the capacitor at C10 and the Blue wire on the RFX75 or RFX85.
5. Remove the Yellow wire from the RFX75 or RFX85
6. Remove the RX OUT coax from the RFX75 (RX OUT not on RFX85)
7. Drill and mount the RFX unit to the rear panel of the radio.
8. 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.
9. 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.
10. Solder the Orange wire to the side of L11 that is closest to the front panel of the radio.
11. Replace R53 with a 470K ohm, ¼ watt resistor. R53 is located near the audio amp IC.
12. 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.

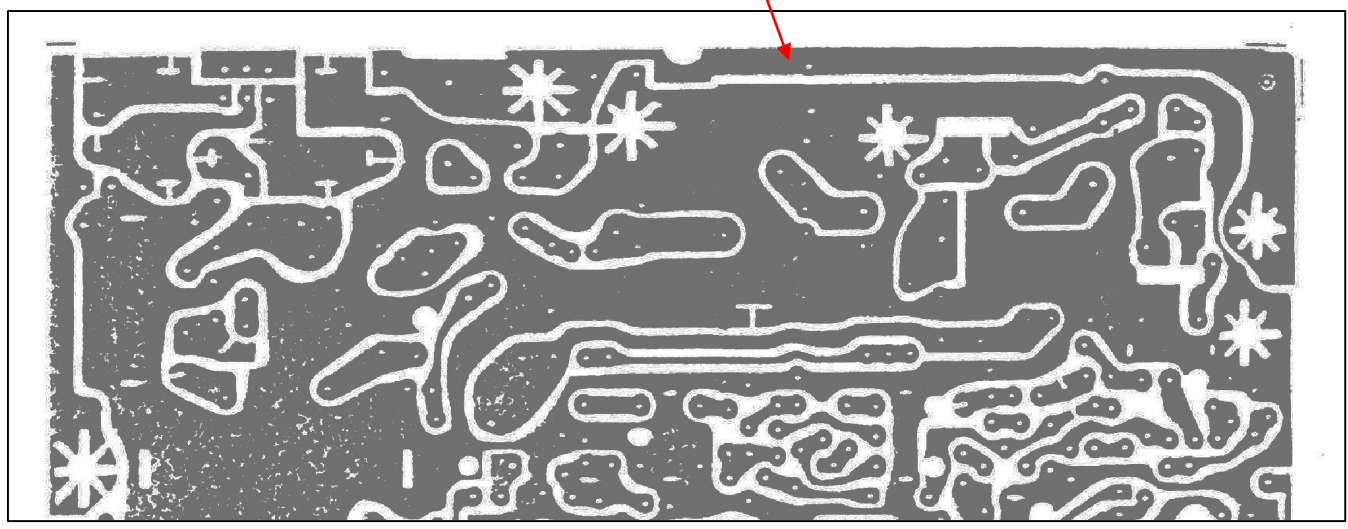
- a. Remove JP6 and install a 1000µF, 16 volt electrolytic capacitor with the negative lead of the capacitor towards the back of the radio.
- b. On the back of the PCB, Install a 10ohm to 33ohm ¼ watt resistor across the two points of JP6 to obtain the desired carrier level. Typically, a 15 ohm ¼ watt 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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Chassis Ground



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