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How to install the Palomar RFX85
on Cobra 25 series radios

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RFX85 – Cobra 25 Installation

1. Remove L8, L9, C1, C40, C41, R40, and the final transistor from the Cobra 25.
2. Install a jumper wire across L8 location
3. On solder side of PCB, install a 15pF ceramic disc capacitor from jumper wire at L8 to the circuit board trace at junction of C1 and D1.
4. Remove the Yellow and Blue wires on the RFX85.
5. Drill and mount the RFX85 to the rear panel of the radio.
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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#6 - Solder
RF IN Coax
Center
Conductor
Here

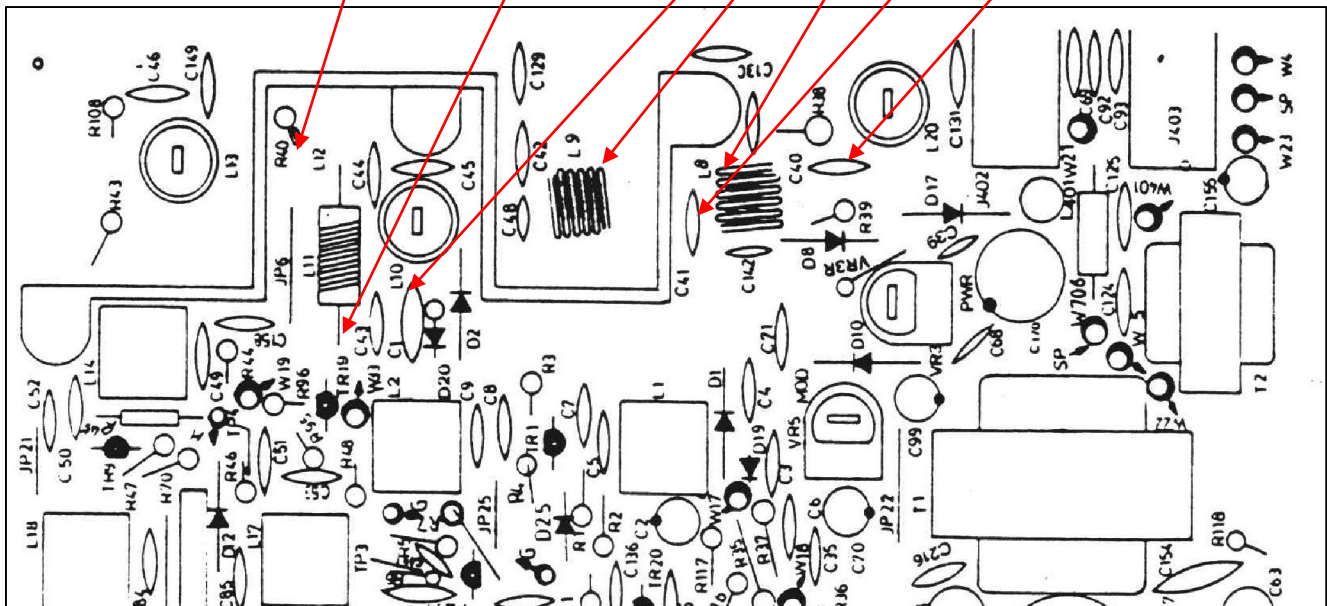
#8 - Solder
Orange
Wire Here

C1

L9

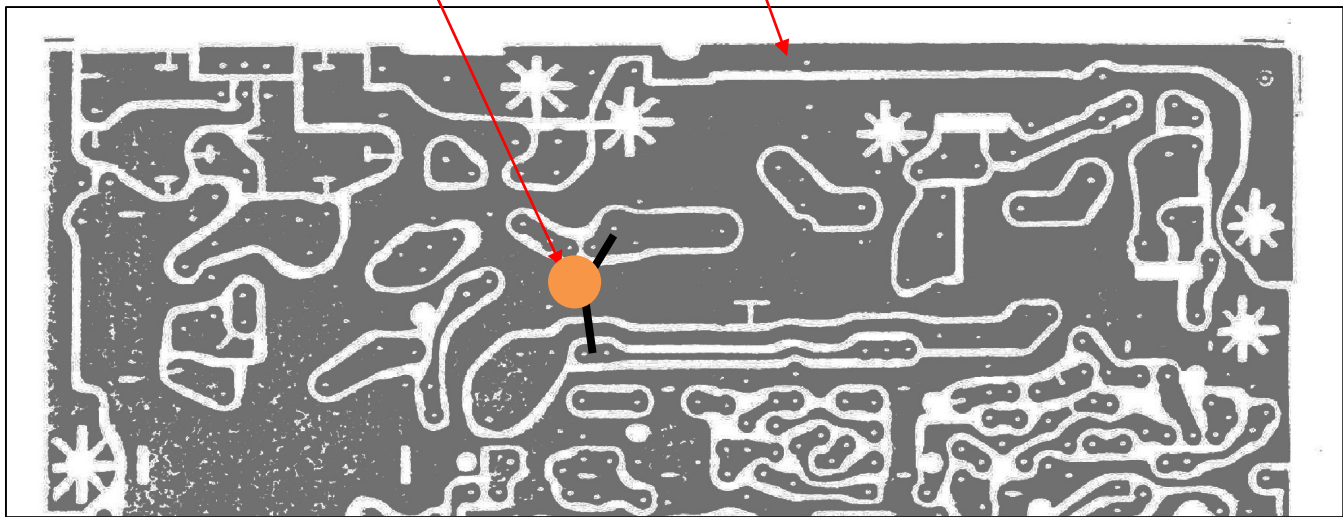
C41

C40



15pF
disc cap

Chassis
Ground



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