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How to install the Palomar RFX85
on Cobra 29 series radios

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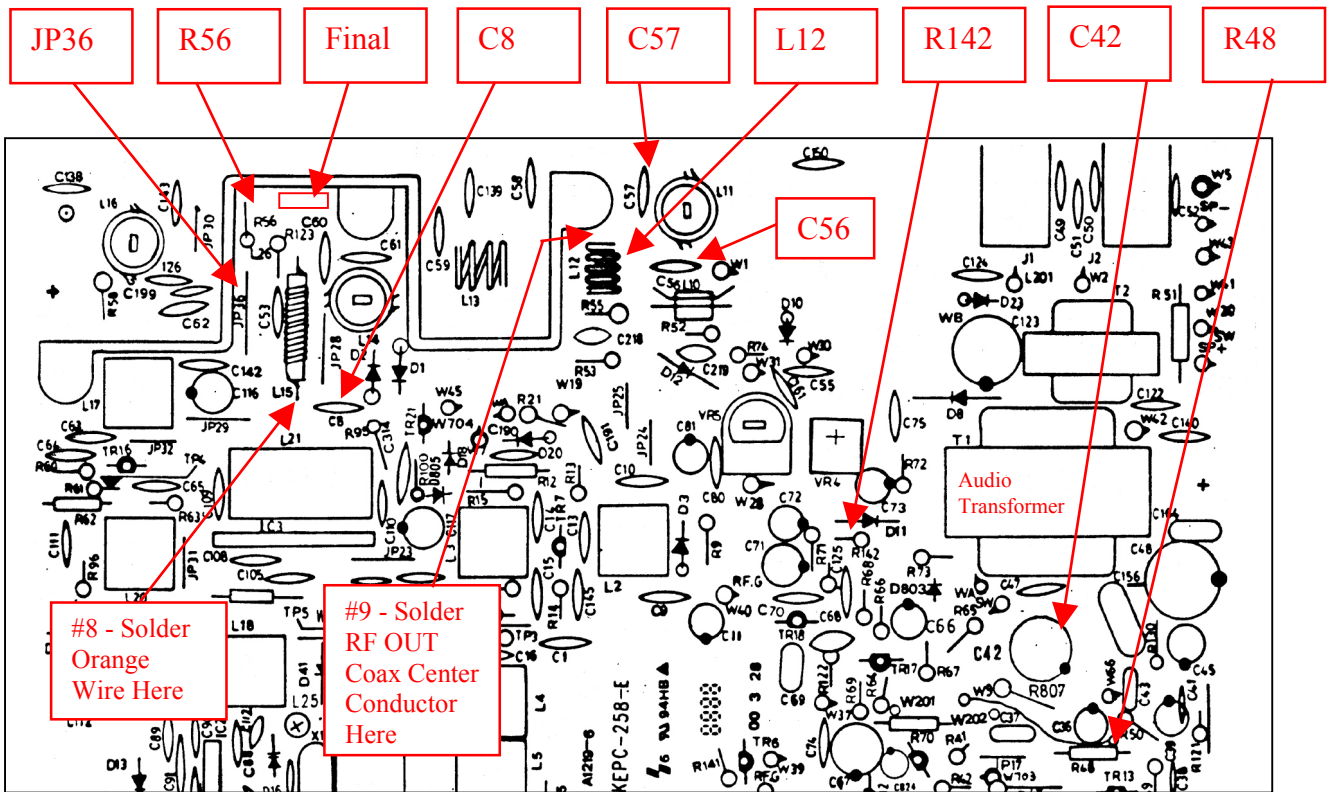
RFX85 – Cobra 29 Installation

1. Cut the Yellow and Blue wires off the RFX85 board.
2. Drill and mount the RFX85 on the back of the radio using the supplied hardware.
3. From the radio, remove C8 (keep part for later use), C56, C57, R56, L12, and the final transistor.
4. Route the RF IN coax through the hole where the final transistor was so that it can easily be soldered to the solder side of the radio PCB. Solder the coax center conductor to the front hole of R123 and the coax shield to DC ground.
5. Solder the Red and Black wires to the back of the DC power jack (observe polarity!).
6. Solder the Orange wire to the front side of L15.
7. 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.
8. Using the 15pF capacitor that was removed from C8, solder one end to JP24 and the other end to the rear hole of L12 on the solder side of the board. Make sure to insulate the leads. You will probably have to lengthen the leads of this part to make it fit. This re-connects the RX circuit in the radio.
9. Add a short jumper wire from the ground area at R142 over to the audio transformer's ground pad. This eliminates a ground loop that can cause the radio to squeal on transmit.
10. In the radio, replace R48 with a 330K ohm, ¼ watt resistor.
11. In the radio, replace C42 with a 3300µf, 16volt electrolytic capacitor.
12. 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 JP36 and install a 1000µF 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.

Additional Steps for Sound Tracker Models ONLY (to eliminate possible squeal on TX):

1. Locate wires at W201 and W202 where these wires are soldered to the main PCB (located near TR17).
2. Do not unsolder wire at W201. Cut wire at W201 so that approx. 1.50 inches of wire is extending from main PCB. Strip and solder tin the end of this wire coming from the PCB.
3. Unsolder wire from hole at W202.
4. Insert stripped and tinned wire from W201 into hole at W202 and solder in place.
5. Use heatshrink tubing to cover the cut ends of the remaining 2 wires so they do not short out on anything inside the radio.
6. This modification allows the Sound Tracker feature to work in RX mode only.

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- #11 - Solder Jumper Wire Here
- #10 - Solder 15pF Capacitor from C8 Here
- #6 - Solder RF IN Coax Shield Conductor Here
- #6 - Solder RF IN Coax Center Conductor Here
- #14b - Solder 10-47 ohm Resistor Here



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