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How to install the Palomar RFX85 on Cobra 148 series radios.

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RFX85 - Cobra 148 Installation (Early Model 148 with 5 Pin Microphone Jack)

1. Remove D47, TR36 (final transistor), L35, L37, L40, C141, C142, and C143 from the radio's PCB.
2. Add a jumper wire across L35 location.
3. Change R183 to a 6.8 ohm resistor.
4. Drill holes and mount the RFX85 on the back of the radio per RFX85 instructions.
5. Solder the Red and Black wires to the back of the DC power jack (observe polarity!).
6. Solder the Yellow wire to the hole of D47 that is furthest from the external speaker jack (left hole on diagram below).
7. Solder the Orange wire to the hole of L39 that is closest to the front panel of the radio.
8. Solder the Blue wire to the hole of R180 that is closest to the front panel of the radio.
9. Solder the RF OUT coax center conductor to the right hole of L35 – this is the hole that is closest to the external speaker jack. Solder the coax shield to the chassis ground (C141 rear hole).
10. Solder the RF IN coax center conductor to the hole of L40 that is closest to the rear panel of the radio. Solder the coax shield to DC ground.
11. After double checking all connections re-tune the transmit and receive. Do not set carrier higher than 15 watts!
12. Some models may have a 4700pF ceramic disc capacitor soldered from the back of R185 to JP35 (this is near TR39 on the solder side of the board). This may need to be removed in order for the transmitter to function properly.
13. On some models you may need to add a 100ohm, ¼ watt resistor from pin10 of IC5 (the transmit mixer) to ground to achieve maximum power.