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How to install the Powerband RFX75 on New Production (Spring 2010) Cobra 29 Series Radios

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RFX75 – Cobra 29 Installation (new production units as of Spring 2010)

1. Locate the capacitor at C10 on the RFX75 and carefully cut it off the board.
2. Cut the Yellow and Blue wires off the RFX75 board.
3. Cut the RX OUT coax cable off the RFX75 board. Take care to cut it close enough to the PCB so that it does not short out on anything.
4. Before any modification to the radio, do a complete test of all functions and confirm that the radio is 100% operational.
5. Drill and mount the RFX75 on the back of the radio using the supplied hardware.
6. From the radio, remove the 82pF disc capacitor located near L12.
7. From the radio, remove L12, L26, and the final transistor.
8. With the radio front panel facing you, remove the 15pF disc capacitor to the right of L15 (keep part for later next step).
9. On one lead of 15pF capacitor, solder a 2 inch piece of wire. Install the other lead of the 15pF capacitor in the right hole (radio front panel facing you) where L12 was removed. Solder the other end (wire) to the jumper that is connected to D3. This reconnects the RX circuit of the radio.
10. With radio front panel facing you, locate the 1K ohm, $\frac{1}{2}$ watt resistor just to the left of the antenna connector. Solder the RF OUT coax (red color tubing) center conductor to the side of this 1K ohm resistor closest to the front panel of radio. Solder the shield of the coax to chassis ground (ground tab on the antenna connector).
11. Route the RF IN coax (yellow color tubing) 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 trace that connects to the front hole of where L26 used to be. Solder the shield of the coax to DC Ground.
12. Solder the Orange wire to the front side of L15 (located just in front of where final transistor was).
13. Solder the Red and Black wires to the back of the radio's DC power jack (observe polarity!).
14. On the solder side of the circuit board, add a small ground jumper from the ground trace of T1 to the ground trace of C72.
15. After double checking your work, install the top cover on the radio, then retune transmitter to proper specs. Please note that it is important to have the top cover on the radio while doing the final transmitter tuning.
16. **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 the jumper located in front of L26. Install a 1000 μ F, 16 volt 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 - 33 ohm, $\frac{1}{4}$ watt resistor across the two points where the jumper was. This will allow you to adjust the carrier - The higher the resistor value, the lower the carrier. Typically, 33 ohms is about right.
17. If the carrier is not high enough do the following: Install a 10pF - 68pF, 50 volt (or higher) disc capacitor across the disc capacitor that is just in front of L16. This is usually a 270pF capacitor.

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