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How to install the Powerband RFX75  
on a RCI2950 radio.

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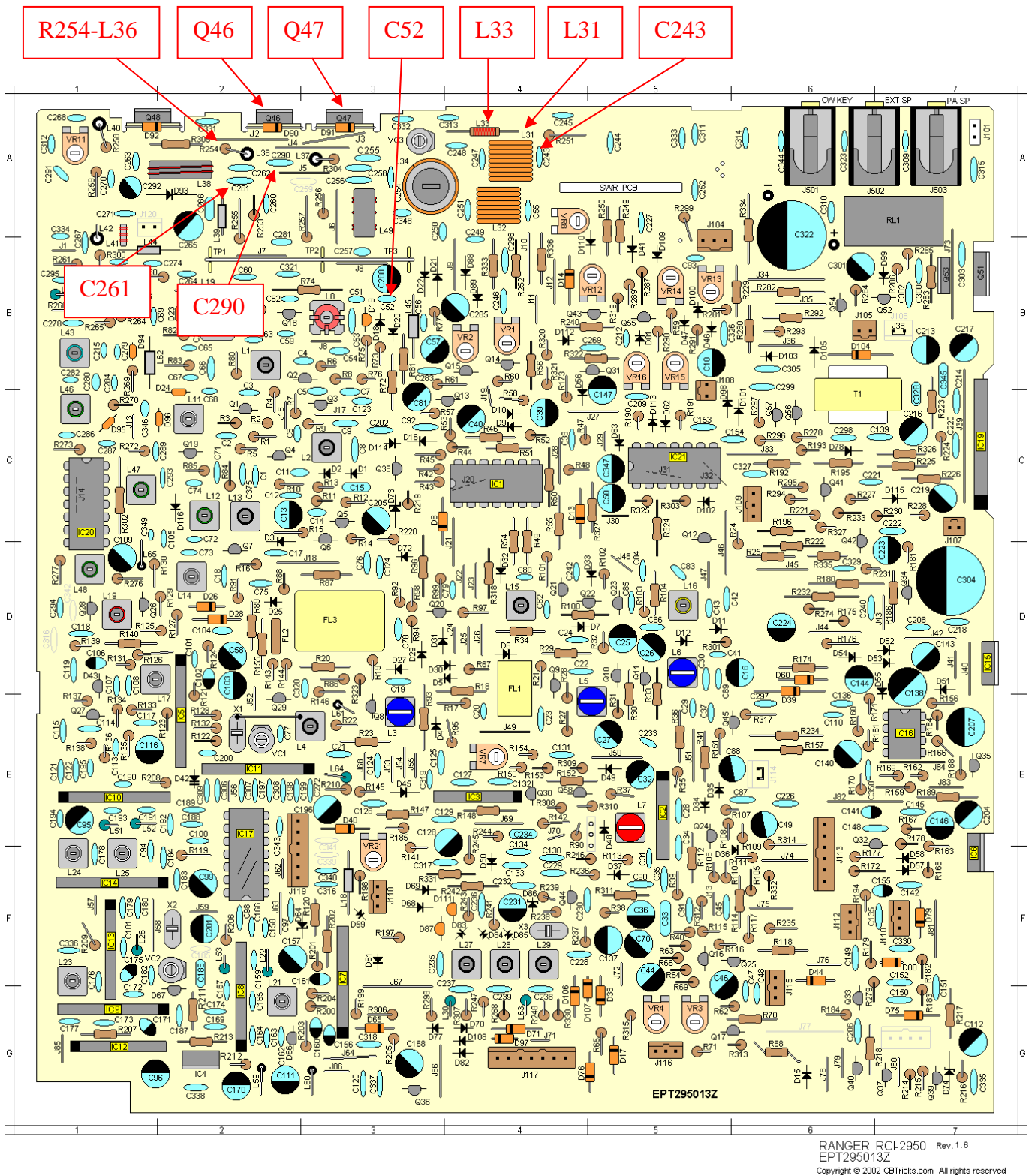
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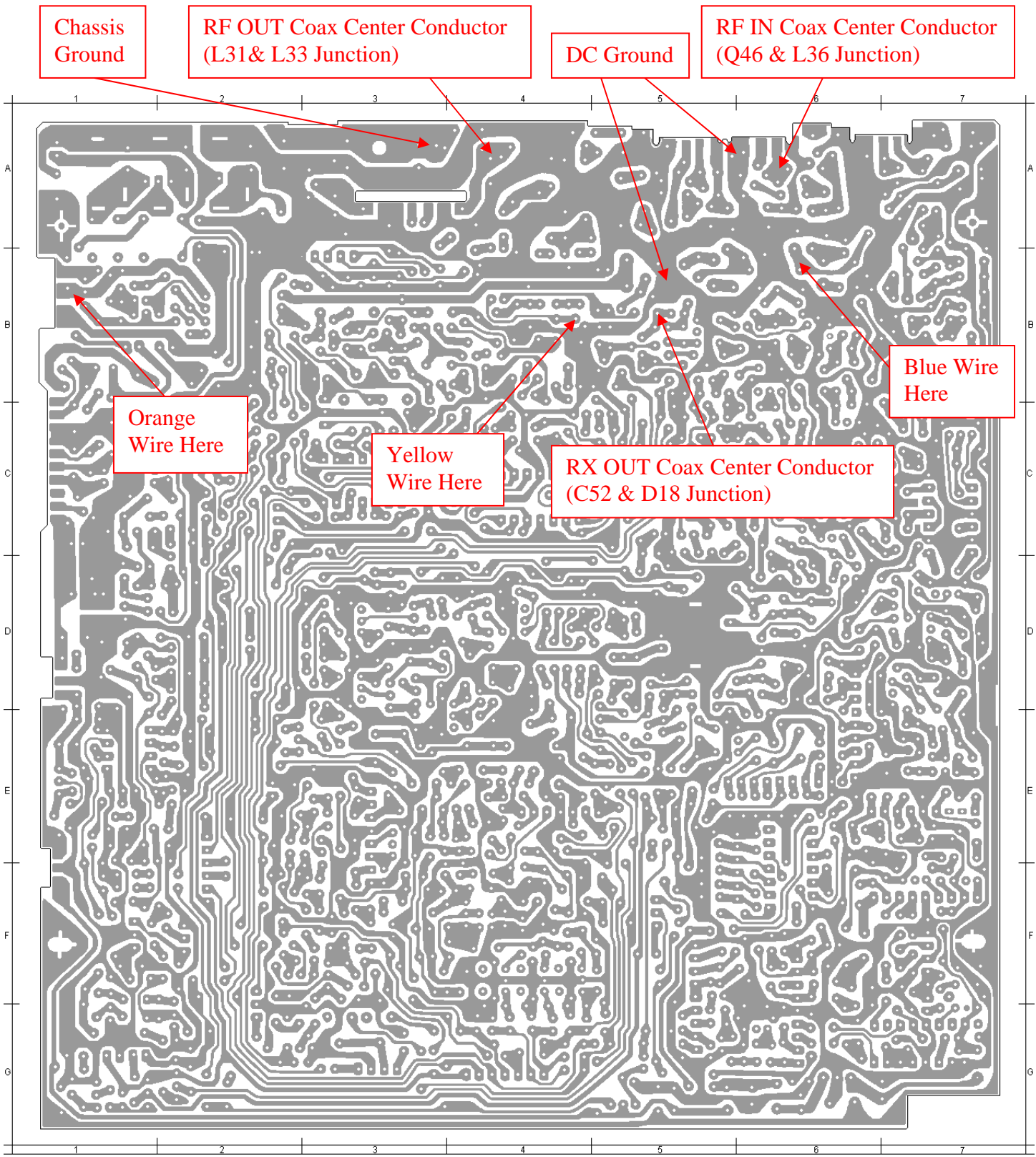
## RFX75 – RCI2950 Installation

1. Remove C52, C243, C261, C290, L31, L33, R254-L36, Q46, and Q47.
2. Drill holes and mount the RFX75 per instructions.
3. Solder the RED and BLACK wires to the back of the power jack. Observe polarity!
4. Solder the RF IN coax center conductor to the trace at the junction of Q46 and L36. Solder the coax shield to DC ground.
5. Solder the RX OUT coax center conductor to the trace at the junction of C52 and D18. Solder the coax shield to DC ground.
6. Solder the RF OUT coax center conductor to the trace at the junction of L31 and 33. Solder the coax shield to chassis ground.
7. Solder the yellow wire to the trace at the junction of D89 and C285.
8. Solder the blue wire to the trace at the junction of J7 and L44.
9. Solder the orange wire to the trace at the center lead of Q51.
10. After double checking all connections, re-tune transmit and receive.
11. You might need to add a 150pF capacitor from the center leg of Q48 (the 2SC2166) to ground to achieve proper tuning on the transmitter.
12. Do not adjust the AM carrier higher than 15 watts!
13. Optional: Reconnecting the ALC circuit (this step is done on the component side of the radio)
  - a. Unsolder the lead of R333 that is closest to the rear panel of the radio
  - b. Solder a wire from the lifted lead of R333 to the hole of L31 that is closest to the rear panel of the radio.
  - c. You may find it necessary to adjust the value of R333 for best results.

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Ranger RCI2950 Main PCB  
 EPT295013Z  
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