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How to install the Powerband RFX75
on Magnum OmegaForce S45 and DeltaForce Radios

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RFX75 – Magnum OmegaForce S45 and Magnum DeltaForce Radios

- a) Test the transceiver as completely as possible prior to starting any installation.
- b) Turn off the radio and disconnect from all power sources.
- c) If applicable, remove the original heatsink on the back of the transceiver.
- d) Using a 1/8 inch drill bit, drill out the two holes that were used for mounting the heatsink.
- e) Drill one 3/8 inch hole centered between the other two 1/8 inch holes for the wires and coax to run through. It is recommended to drill this hole so that it does not interfere with the mounting of the original finals and driver transistors.
- f) Remove the following components from the transceiver: L136, L137, SJ11, C327, C328, C341, C342, C356, C361, D216, Q168, and Q169. Marked RED in Diagram A.
- g) 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.
- h) Run the wires and coax cables through the 3/8 inch drilled hole. You will need to disassemble the fuse holder in order to fit it through the hole and then reassemble the fuse holder and secure it to the inside of the transceiver – the fuse holder is designed with this in mind and can be easily reassembled.
- i) Mount the RFX75 using the supplied hardware.
- j) Solder the Orange wire to the trace at the center lead of Q178 (see Diagram B).
- k) Solder the Blue wire to the trace at the junction of L149 and L151 (see Diagram B).
- l) Solder the Yellow wire to the trace at the junction of D216 and C342 (see Diagram B).
- m) Solder the RF IN coax center conductor to the trace at the junction of C354 and SJ11. Solder the coax shield to DC ground. See Diagram B.
- n) Solder the RF OUT coax center conductor to the trace at the junction of L136 and C344. Solder the coax shield to DC ground. See Diagram B.
- o) Solder the Red and Black wires to the Red and Black wires on the radio's power input leads. Observe Polarity!
- p) Install a jumper wire across the two holes where L136 was. See Diagram B.
- q) Unsolder the lead of C344 that is closest to the rear panel of the radio. Install a 3.3K ohm, ¼ watt resistor in series with the unsoldered lead of C344. Marked BLUE in Diagram A.
- r) After confirming that all wires are installed correctly, re-tune the receiver and transmitter as you would normally for the transceiver. **DO NOT SET CARRIER HIGHER THEN 15 WATTS!**

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Diagram A.

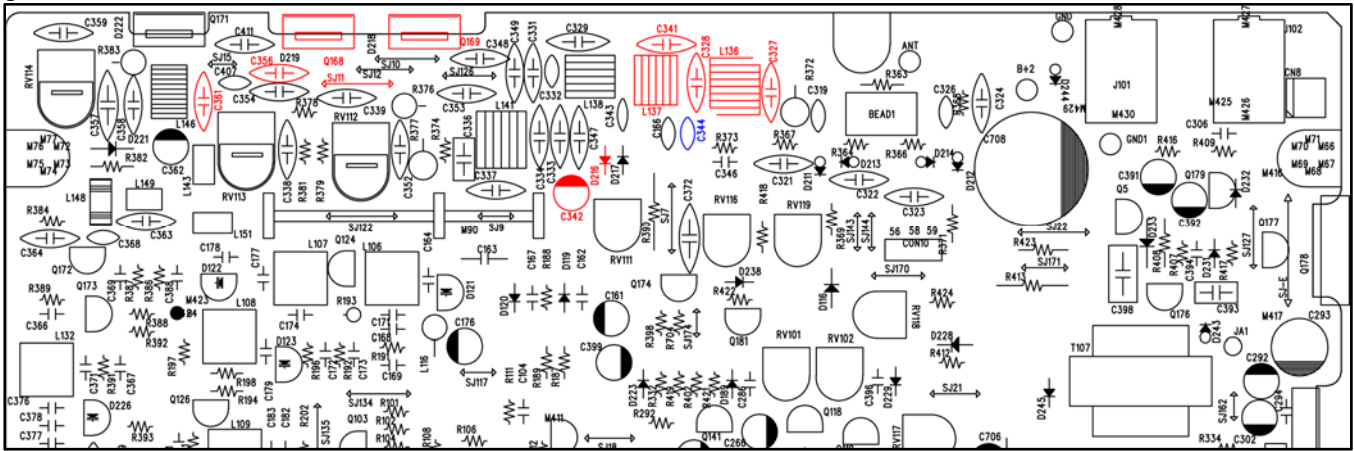
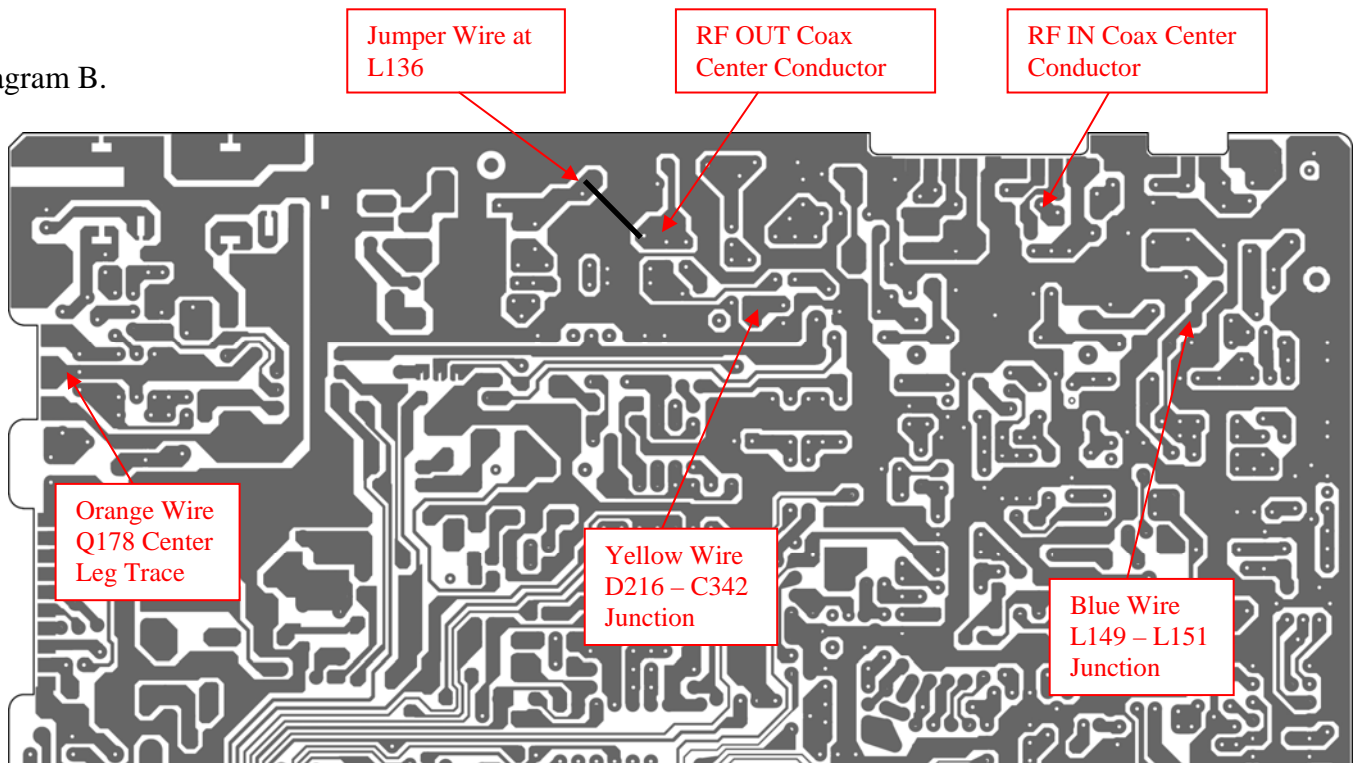


Diagram B.



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