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How to install the Palomar RFX85 on RCI manufactured radios with EPT3600 series main circuit boards.

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RFX85 installation procedure for RCI manufactured 10 meter amateur transceivers (RCI, Galaxy, Superstar, Connex, General, etc.) with the EPT3600 series main circuit board.

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: J77, J98, L31, L52, TR43, TR56, D86, C158, C160, C164, and C209. See Illustration A.
g) SINGLE FINAL RADIOS ONLY: Locate and unsolder the 560pF capacitor that is 'sky wired' from C209/C171 to J98. Reinstall this capacitor at C171.
h) SSB MODEL RADIOS ONLY: Locate C162 and unsolder ONLY the capacitor lead that is closest to the rear panel of the radio. Install a 3.3K ohm, ¼ watt resistor in series with the unsoldered lead (solder one lead of the resistor to the unsoldered lead of C162 and solder the other lead of the resistor to the empty PCB hole of C162).
i) 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.
j) Mount the RFX85 using the supplied hardware.
k) RF IN Coax Connections - Solder the center conductor of the RF IN coax to the trace that connects C171 and J98 (#1A). Solder the RF IN coax shield to DC Ground (#1B). See Illust. B.
l) RF OUT Coax Connections - Solder the center conductor of the RF OUT coax to the trace that connects L31 and C158 (#2A). Solder the RF OUT coax shield to chassis ground (#2B). See Illustration B.
m) Solder the RED wire to the positive (+) side of the transceiver's DC IN jack (+13.8 volts DC).
n) Solder the BLACK wire to the negative (-) side of the transceiver's DC IN jack.
o) Solder the ORANGE wire to the center leg of TR51 (#4). See Illustration B.
p) Solder the YELLOW wire in the hole for C164 (Positive side). See Illustration B.
q) Add a ground jumper as shown on the back of VR8 (#5). See Illustration B.
r) Solder the BLUE wire to positive (+) 8 volts on transmit only (front side of R272) (#6). See Illustration B.
s) Add a jumper wire at L31 (across the 2 holes where L31 was removed) (#7). See Illustration B.
t) 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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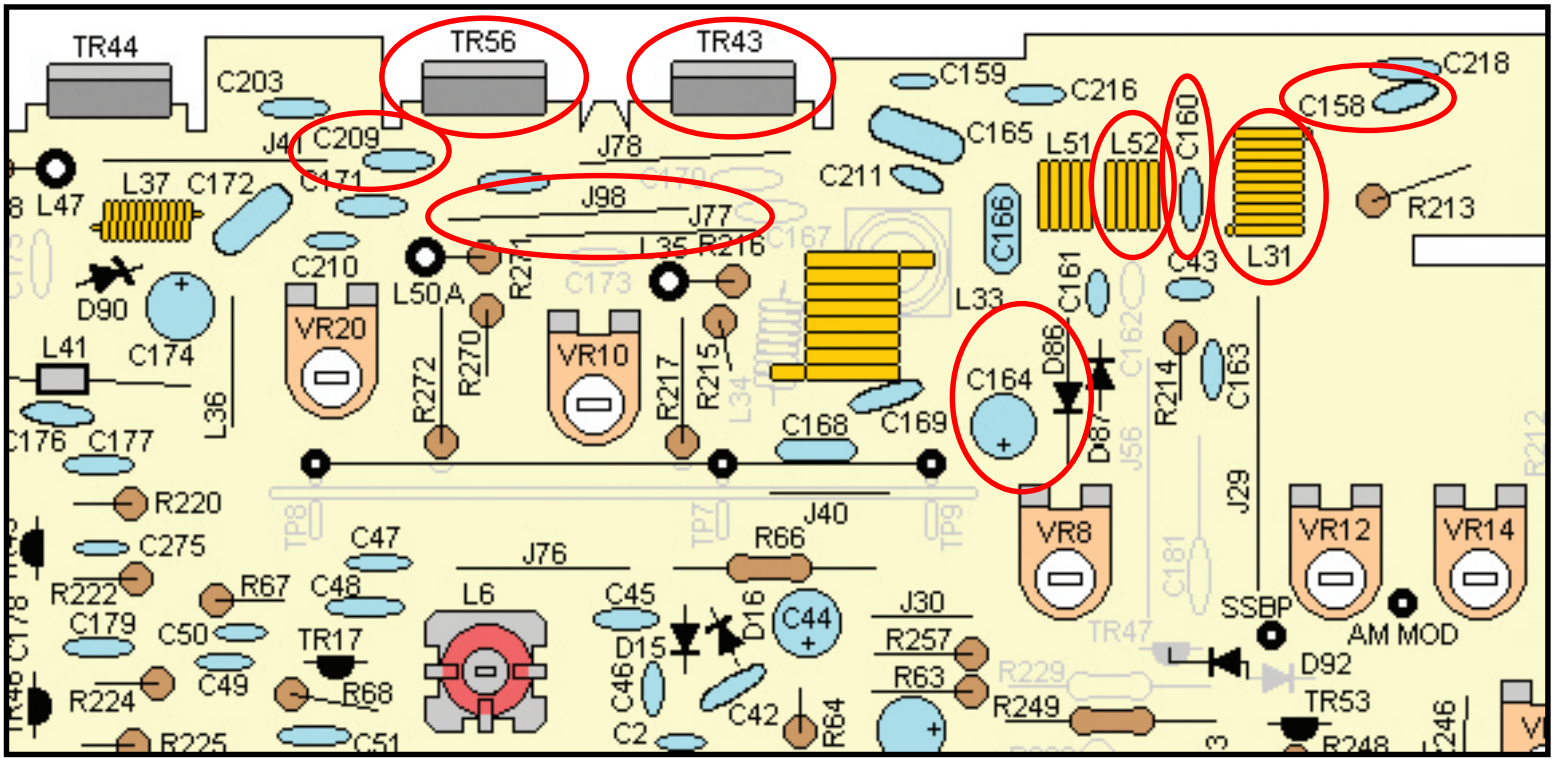

Illustration A – EPT3600* Series PCB
Circled in red are the eleven (11) parts removed in step f.

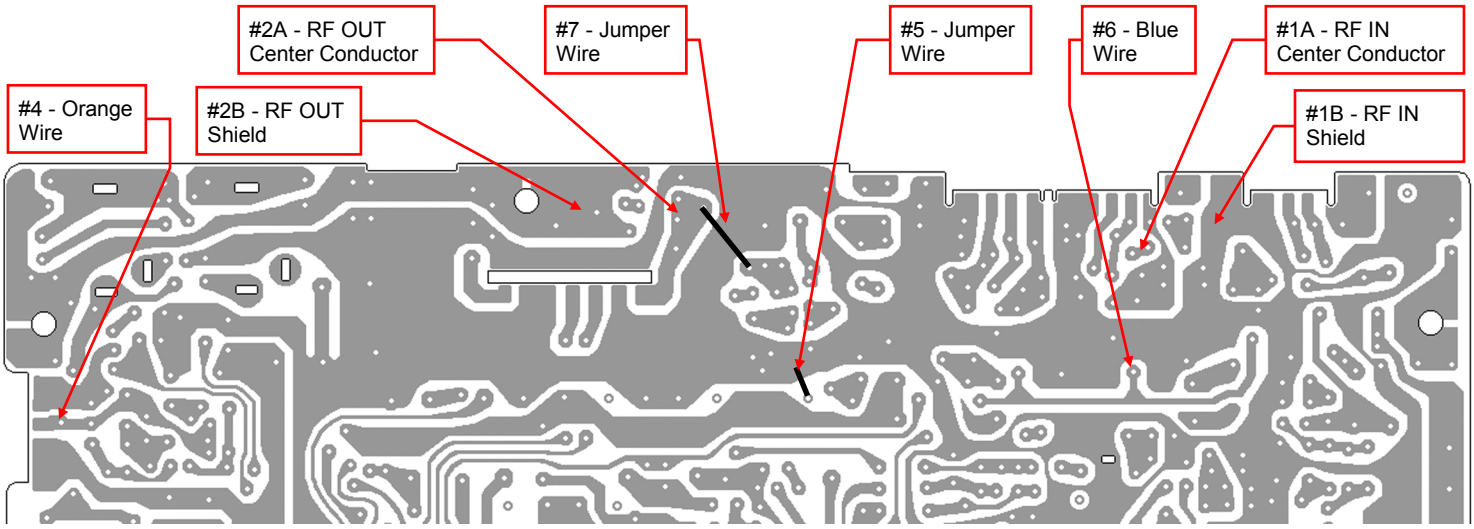

Illustration B – EPT3600* Series PCB Solder Side
Solder locations for wires in steps l through t.

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