

7 To Fit The Optional T800-55 High Sensitivity Preamplifier to the T855

The high sensitivity preamplifier option PCB fits onto the main PCB. It is a single stage broad band low noise preamplifier offering a 3dB improvement in sensitivity with a minimum degradation of other parameters.

Refer to the diagram below. The preamplifier fits on the bottom side of the PCB under the helical filter FL300.

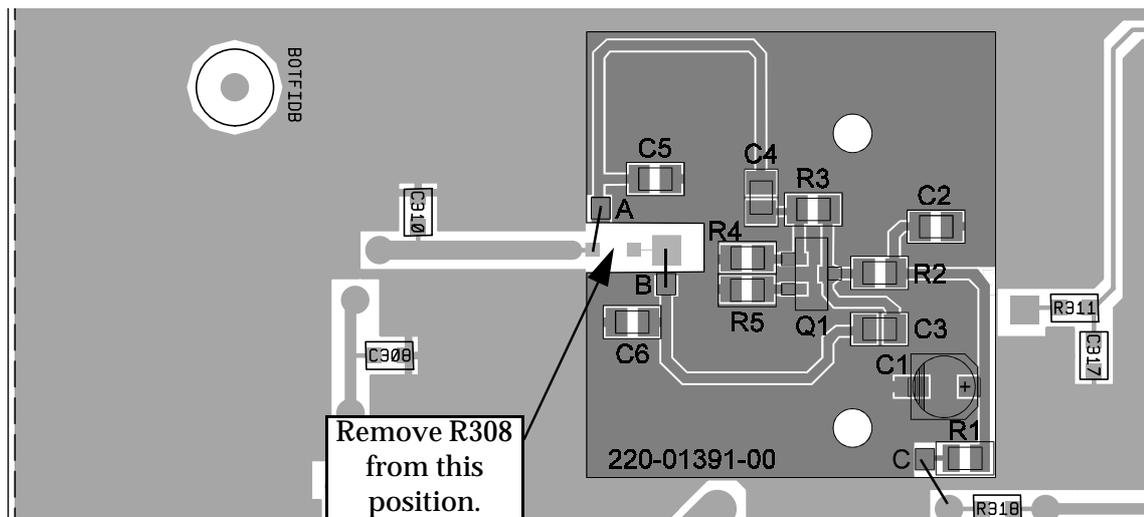


Figure 7.1 Location of T800-55 Preamplifier on T855 Receiver

To fit the preamplifier proceed as follows:

Remove the bottom cover from the receiver

Remove the zero ohm resistor R308

Remove the two screws that secure the helical filter, FL300, to the PCB

Fit the T800-55 to the bottom side of the main PCB, under the helical filter FL300 ensuring that the slot in the T800-55 fits around the pads of the removed R308.

Secure with the helical mounting screws which must be tightened to 6lb-in/0.66Nm as they provide the earth connection for the RF amp and the helical housing. Check that the RF amp fits comfortably and does not short out on L307.

With link wire connect the input pad of R308 to the input pad (A) of the preamplifier.

Connect the pad of R308 that is closest to the helical filter to the output pad (B) of the preamplifier.

Connect the junction of L307 and R318 to the +9v supply (C) of the preamplifier.

Refit the bottom cover to the receiver.

The alignment procedure of the receiver remains unchanged (refer to Section B3.6 or Section B3.7).