Moving the Inrad Roofing Filter Selection to the PROC Switch

These instructions pertain to Inrad installation instructions accompanying schematic diagram dated 12/05/04 (Inrad instruction sheet contains instructions numbered 1 – 22)

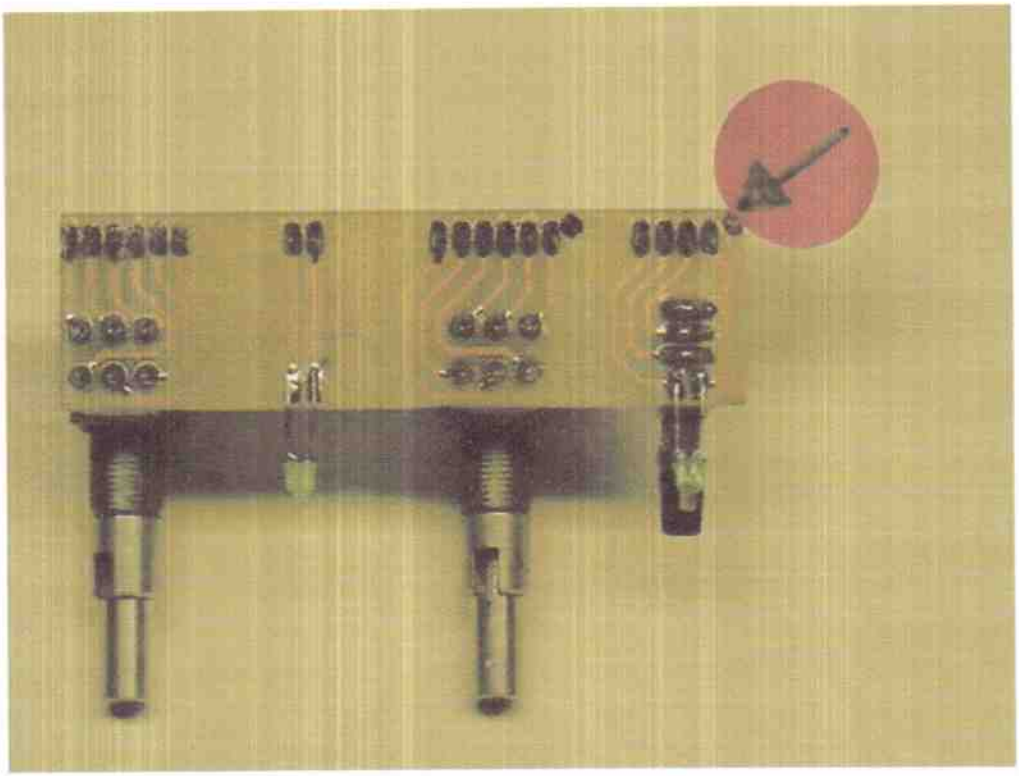
1. Reverse steps 19, 20, 21 and the first sentence of step 22 of the Inrad mod instructions.

2. In step 1 above, one end of the supplied 2-pin cable will remain connected to the roofing filter mod board J3 and the other end will be floating.

3. Set the roofing filter DIP switches as follows: 1 and 2 – **OFF**; 3 or 4 – **ON**.

4. Remove the 2-pin connector from the floating end of the supplied cable, strip the end of each wire and splice to a single piece of wire (forming a "Y" junction).

5. Route the single wire along the center chassis partition to the front and through the large grommet in the front chassis partition. Continue routing to the RH corner of the chassis (as viewed from the bottom). Cut the wire to length to position it near the far right-hand solder terminal on the Lower Pot Board, strip 1/8th inch insulation, tin, and solder to the far right connector pad. This is labeled as PROC of connector 70 on the Lower Pot Board 81605 schematic and is illustrated by a RED dot in the upper RH corner in the photograph below (there will not be a red dot on your board…this was added for clarity in these instructions).



The roofing filter will now be selected by the PROC button on the front panel.

CAVEAT: The speech processor cannot be used in the SSB mode with this mechanization without deselecting the PROC during receive! (Or one could choose to install the Inrad SSB roofing filter as a compromise roofing filter mod, in which case optimum performance in the CW mode cannot be realized!)

And of course, the NB and FM mode is inoperative as well as the FSK mode with the CW roofing filter installed.

Inrad Roofing Filter Selection Using the PROC Switch (VI+ and Opt 3)

These instructions pertain to Inrad installation instructions accompanying schematic diagram dated 1/15/2005 (Inrad instruction sheet contains instructions numbered 1 – 24)

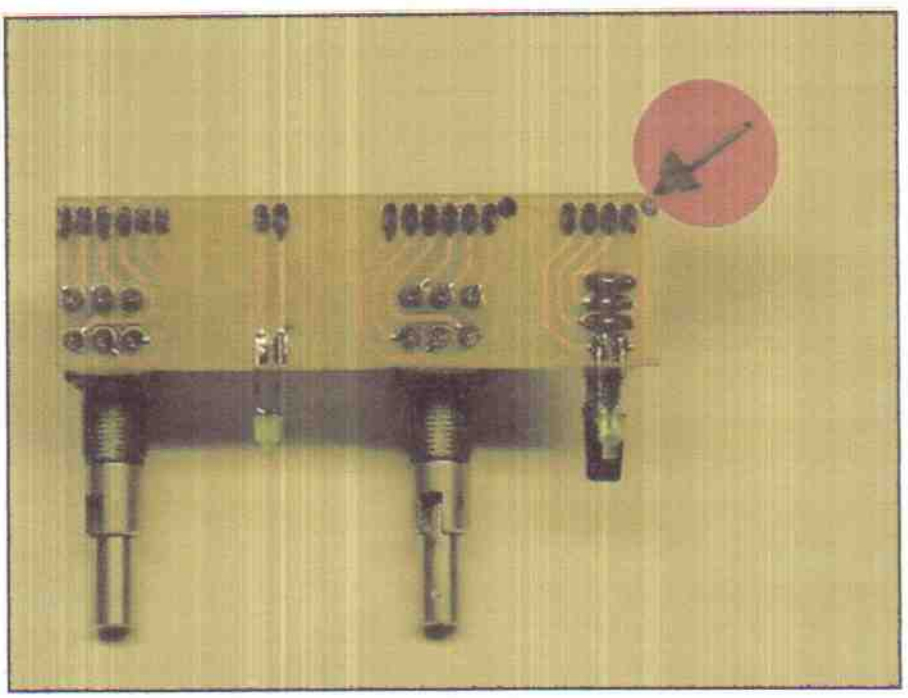
1. Complete installation up through step #17 of the Inrad instructions. Disregard the following **NOTE,** steps 18 – 24, and **Programming S1**. Proceed as follows.

2. Connect one end of the supplied 8" 2-pin cable to the roofing filter mod board J3. Remove the 2-pin connector from the other end by cutting the wires next to the connector and route the leads through the large grommet near the fuse holder.

3. Strip the end of each wire and splice to a single piece of 16" long wire (forming a "Y" junction). Solder and insulate the splice using a piece of supplied shrink wrap tubing of the appropriate size.

4. Route the single wire along the center chassis partition to the front and through the large grommet in the front chassis partition. Continue routing to the RH corner of the chassis (as viewed from the bottom). Cut the wire to length to position it near the far right-hand solder terminal on the Lower Pot Board. Strip 1/8th inch insulation, tin, and solder to the far right connector pad. This is labeled as PROC of connector 70 on the Lower Pot Board 81605 schematic and is illustrated by a RED dot in the upper RH corner in the photograph below (there will not be a red dot on your board…this was added for clarity in these instructions).

5. Set the roofing filter mod board DIP switches as follows: 1 and 2 – **OFF**; 3 or 4 – **ON**.



- The roofing filter will now be selected by the PROC button on the front panel.

- **CAVEAT**: The speech processor cannot be used in the SSB mode (with the 600 Hz filter installed on the mod board) with this mechanization without deselecting the PROC during receive! (Or one could choose to install the Inrad SSB 2.4 kHz roofing filter as a compromise roofing filter mod, in which case optimum performance in the CW mode cannot be realized!)

- **CAVEAT**: The NB and the FM mode will be inoperative with the roofing filter activated due to incompatible bandwidths. The FSK mode will be inoperative with either filter installed and activated due to incompatible offsets.