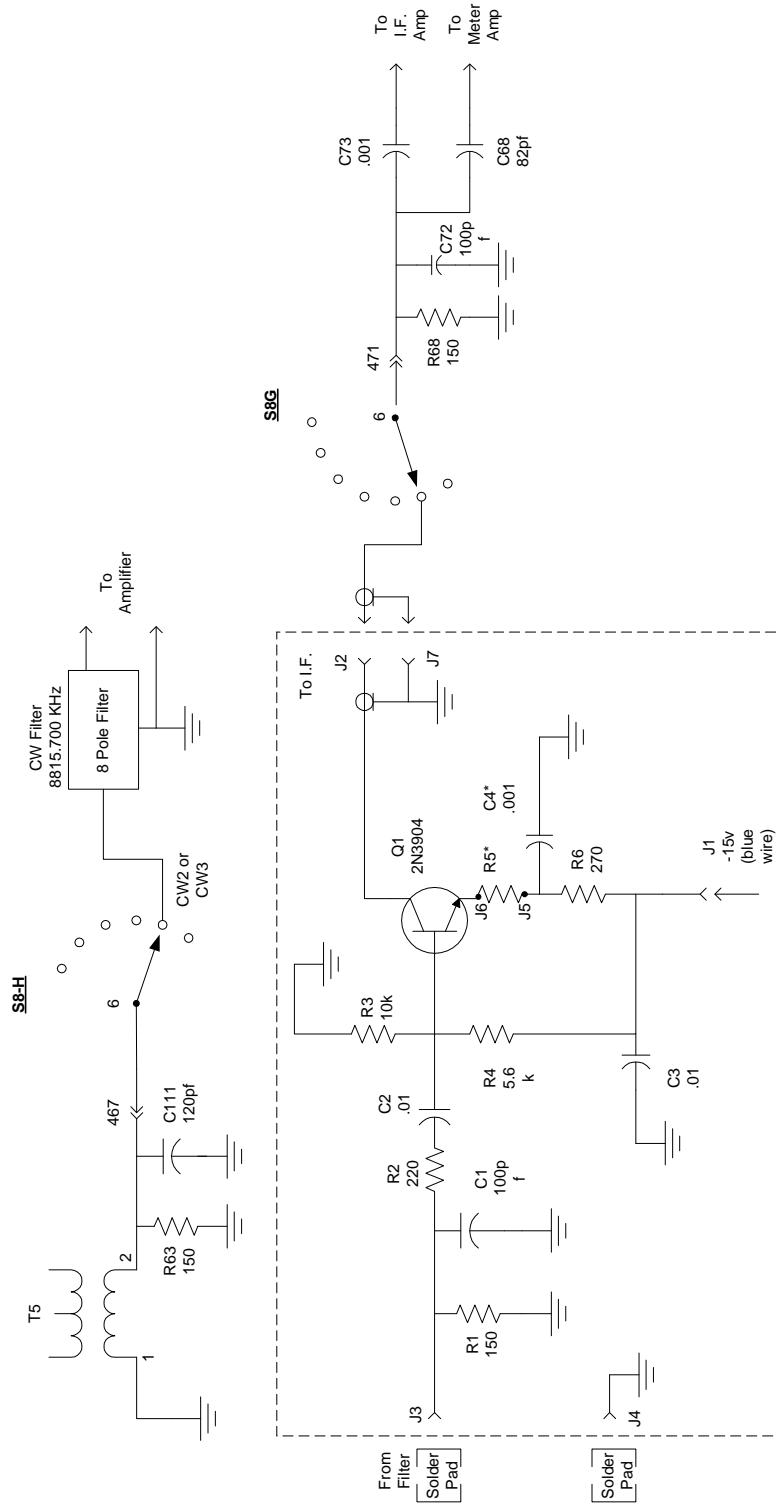


When you add an I.F. filter, occasionally it will have more or less gain than the other filters. To equalize the audio level, Paul Kollar designed a small amplifier to insert in the signal chain. Here it is:

Step	Description
1.	Remove coax # 458 from output terminal/ground of filter and install two connectors.
2.	Shorten Wire #353 (output of SSB Filter to 4 switch contacts) by moving to the closest switch terminal.
3.	Remove W-184 (I.F. Board pin #471 to S8G#6) and replace with coax. Board end has 1 connector and shield is cut off - switch end to #6 term and adjacent ground lug.
4.	Tack solder board to output & ground connector jacks of filter.
5.	Install connector on blue wire and connect other end to lug on wafer "F" that has other blue wires.
6.	Plug in 3 connectors to amp and select size of R5 for required gain.

A schematic follows showing the amplifier in the signal chain.

W8CXS



*** Notes:**

1. R5 is a ¼ watt resistor with short leads. The value is selected for gain desired to equalize the loss as various filters are selected. Values of 5 to 50 ohms are common.
2. Resistors are all ¼ watt, 5%.
3. Capacitors are 10 or 20%. C1 is mica; C2, C3, & C4 are ceramic discs.
4. J3 & J4 are foil pads under board.
5. J5 & J6 are VECTOR pin jacks.
6. J1, J2, & J7 are AMP pins.
7. Two circuit board layouts - right or left cw filter mounting positions.
8. If gain is too low with R5=0 ohms, change C4 to .01 mfd. (From original .001 mfd)