Assembling the GLA-1000 Tuned Input Board

Parts Needed:

FAR CIRCUITS GLA-1000 bandswitch board (only needed if amp does not have this board installed already EX: –GLA-1000B)

2P5P bandswitch wafer that fits PC board layout (ceramic prefered)

Two (2) T-50-2 torrid coil forms (red)

Three (3) T-50-6 torrid coil forms (yellow)

Silver dip mica capacitors rated at 500V for tuned inputs (see chart for values)

Small length of #20 and #18 enameled magnet wire

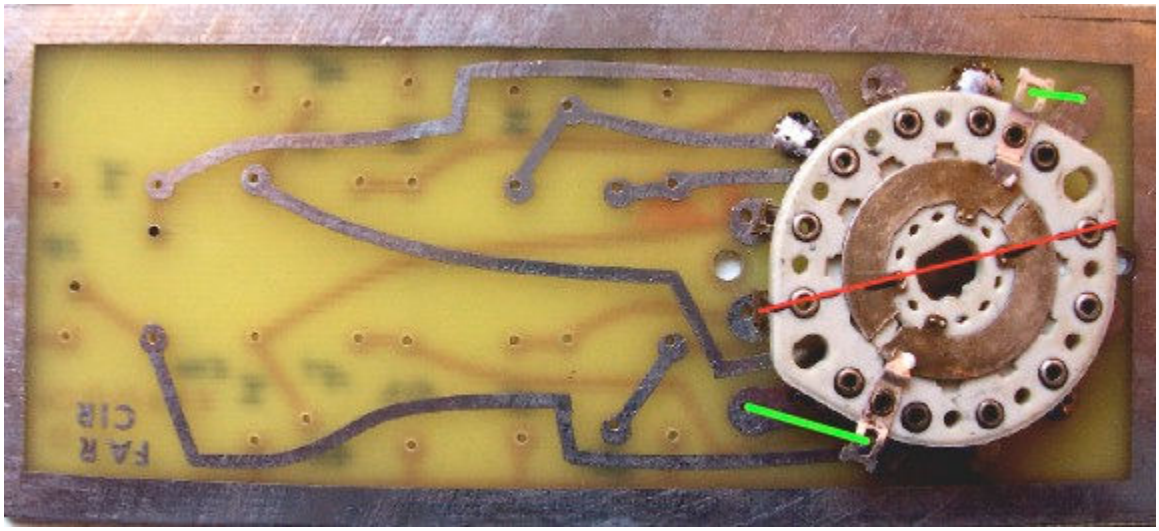


FIG 1: Orientation of bandswitch to PC board

Figure 1 shows the orientation of the bandswitch to the PC board. Red line indicates bandswitch position for 80M. Green lines indicate the jumpered wired connection of 2 main bandswitch poles to PC board. You must use the bandswitch assembly to align the input wafer to the PC board. Alignment is critical to proper operation of the input board assembly. Solder bandswitch in place but keep in mind that the FAR CIRCUITS PC board does not have plated through holes. Insert small wires in holes that need connection to other side of PC board and solder them in place.

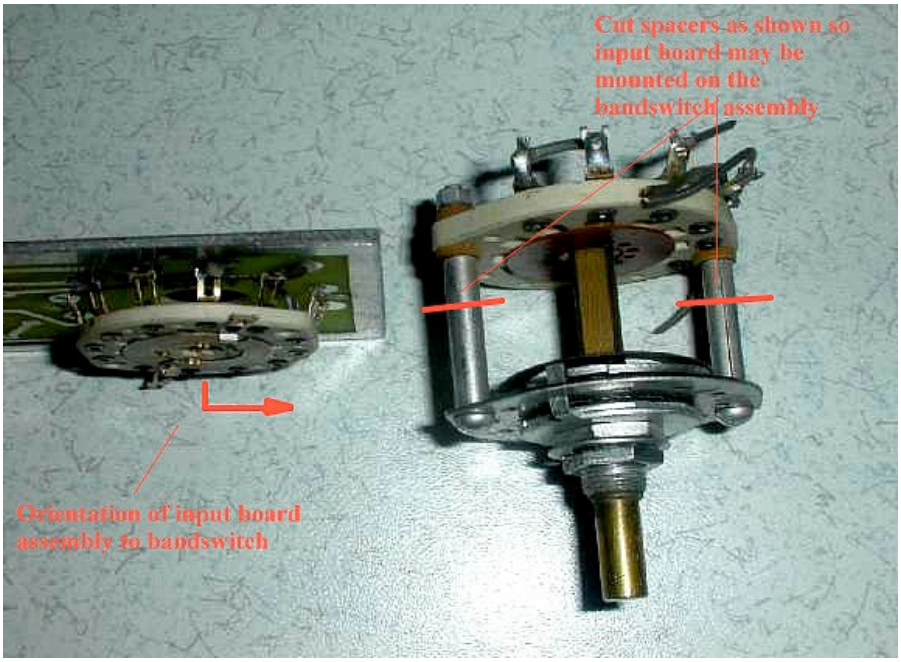


Figure 2: Orienation of input board to bandswitch

Figure 2 shows the orientation of the tuned input board to the GLA bandswitch. Bandswitch must be disassembled and spaces cut to accommodate the tuned input board. Cut the spacers so tuned input board does not short to any part of the bandswitch. You must insulate the tuned input board using small fiber washers on each side of the spacers. Care should be taken to insure the position of the bandswitch aligns to the position of the tuned input board EX: 80M position matches on both ceramic wafers. **Figure 3** below shows the correct positions for each band in relation to the solder tabs.

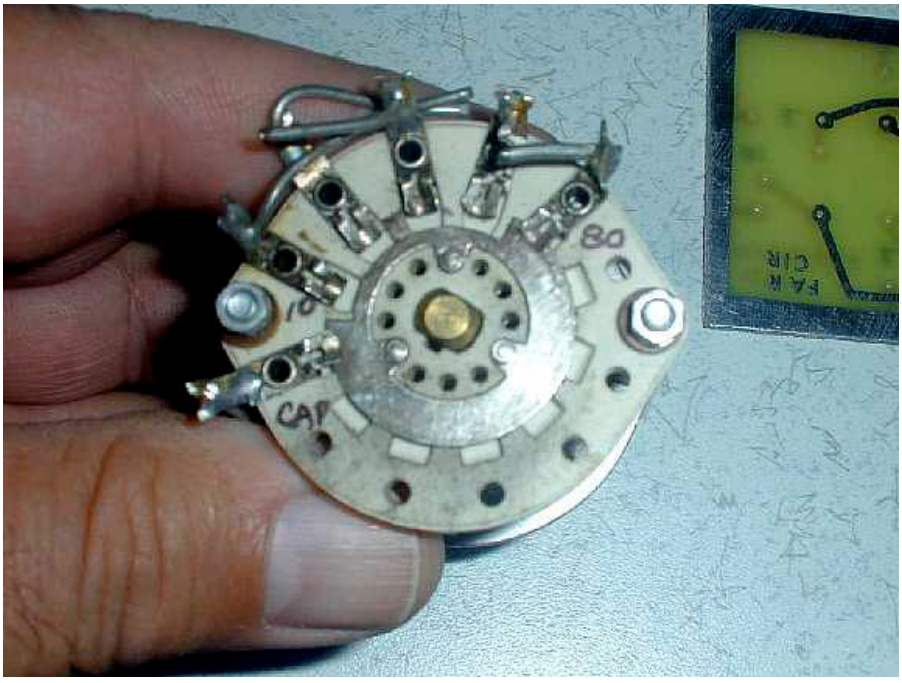


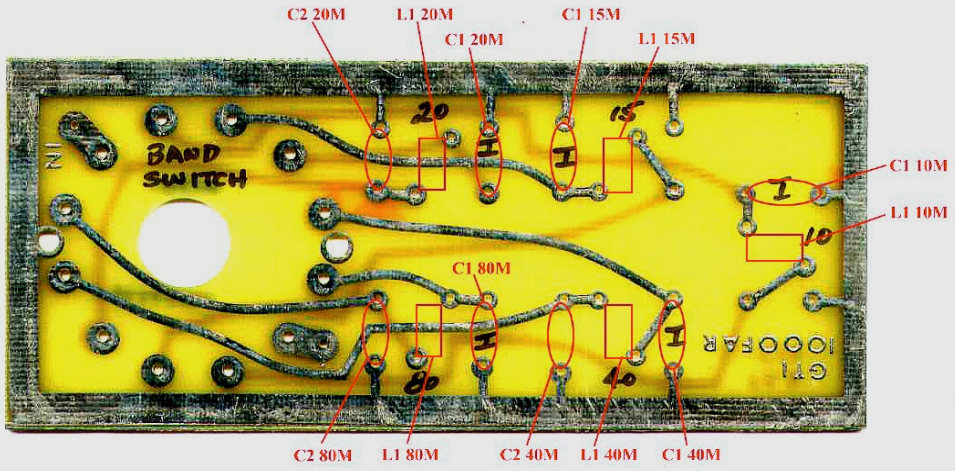
Figure 3: Orientation of bandswitch solder tabs

GI7BT tuned input values and torroid design
Tube input impedance is 100 ohms

Freq.*Mhz*	C1*pf*	L1*uh*	C2*pf*	Torriod	Wire	Turns
3.750	310	3	840	T-50-2	#20	22
7.250	250	1.5	300	T-50-2	#18	18
14.3	150	.79	160	T-50-6	#18	12
21.3	91	.53	0	T-50-6	#18	9
28.8	56	.39	0	T-50-6	#18	5

20-10 tank coil calculations for 1.25 dia coil form / 4 turns per in
Taps taken from input side.
GI7BT tube in GLA-1000 Amp

20M 13 turns #6 bare copper wire or 1/8" copper tubing 3"+ long
15M tap 8.5 turns from input side (estimate)
10M tap 5.5 turns from input side (estimate)



Tuned Input - Parts Side
FAR CIRCUITS Board Shown
Holes are not plated through