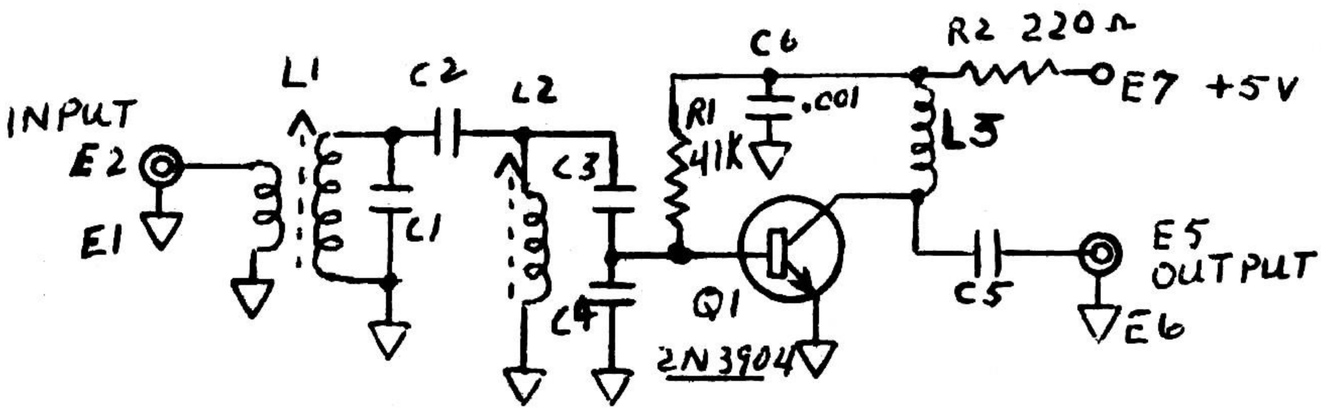
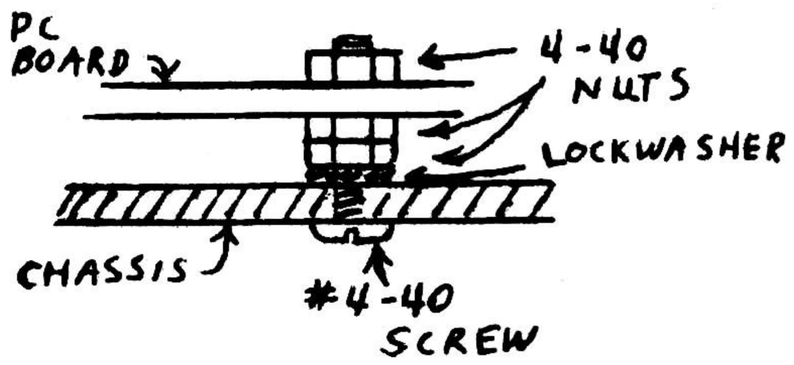
GLB ELECTRONICS
Frequency Multiplier Assembly Instructions





Output Frequency	C1	C2	C3	C4	C5	L1	L2	L3
48 MHz	15 pf	2.2 pf	22 pf	100 pf	47 pf	wound	wound	.33 uh
18 "	33	4.7	68	220	68	"	"	3.3
Input coupling link- 1½ turns - 48MHz. 2½ turns - 18MHz.								
72 MHz	15 pf	2.2 pf	15 pf	68 pf	33 pf	6½T #36	6½T #36	7T 1/8 #28 dia.
36 "	22	2.2	22	220	68	10½ T	10½ T	.33uh
Input coupling link - 1½ turns - 72 and 36MHz.								

Assembly:

Mount and solder the following parts on board.

Q1 - (✓) R2 - (✓) - C6 - (✓) C2 - (✓) C1 - (✓) R1 - (✓)
C3 - (✓) C5 - (✓) C4 - (✓) L3 - (✓)

Wind the slug-tuned coils if required as per table and fig. 2.
Wind input coupling link on one of the coils. This will be L1.
L1 must be oriented so link terminals of coil connect to E2 trace and ground. (fig. 1).
Mount and solder L1 and L2.
Connect +5 volt line to E7; input coax to E1-E2 and output coax to E6-E5.
Mount assembly using #4 hardware. Two holes are provided at rear of chassis. Board mounts with coils facing front of Channelizer.
72 and 48MHz multipliers require 74H00 Z11 on VCO board.
18MHz multiplier requires 100 ohm resistor across transmit output jack.
Tune coils for maximum output into transceiver.

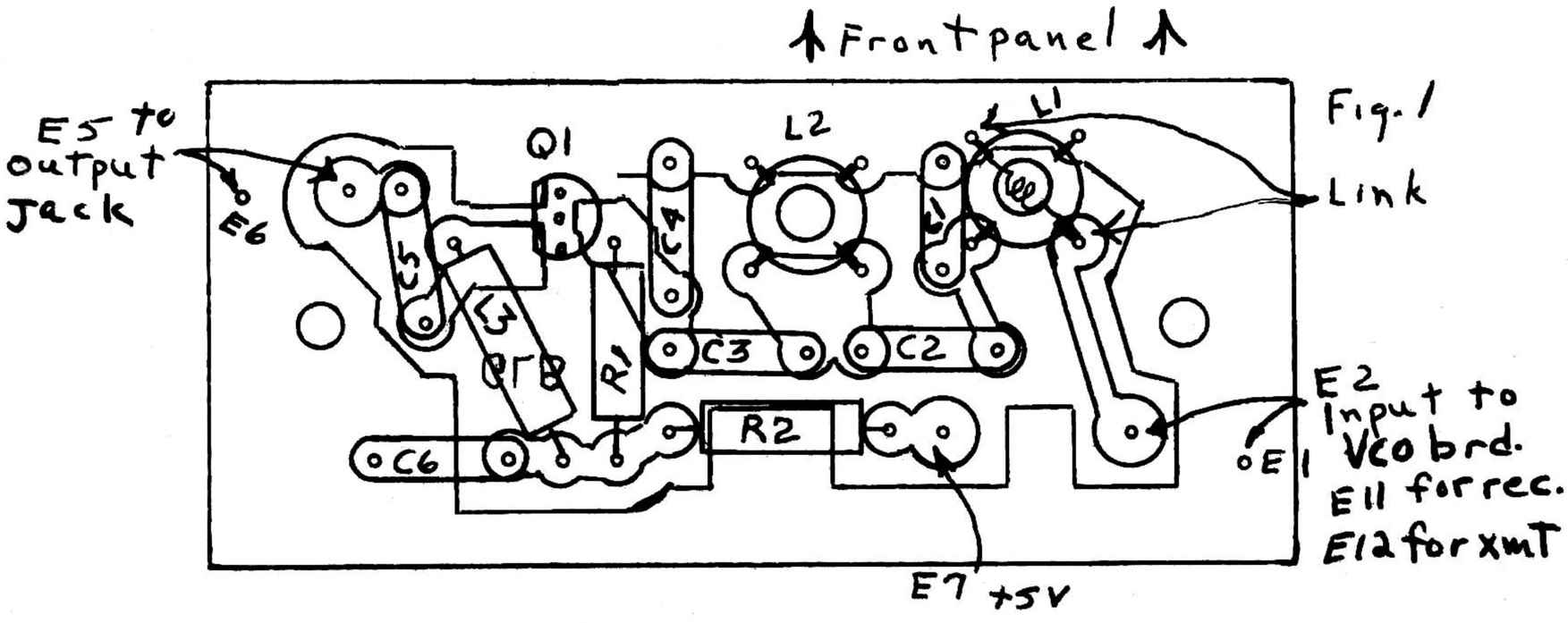


Fig. 1

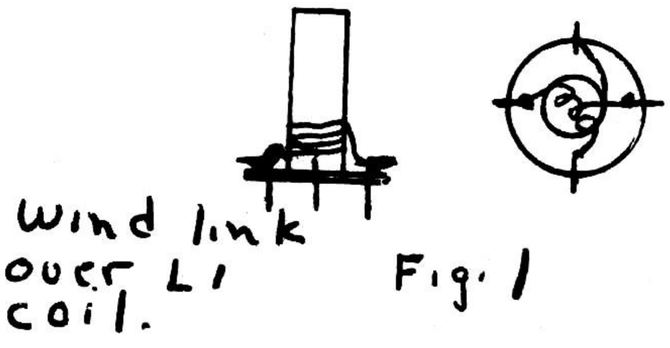


Fig. 1