ICOM 22S MICROMONITOR INSTALLATION INSTRUCTIONS

1. Verify parts list and assure all are present.
   2 ea. 22k resistors
   1 ea. 10k resistors
   8 ea diodes
   interface board unit
   Micromonitor unit
   4 ea. spacers
   8 ea. screws
   1 ea. LM340T-5 regulator

2. Remove C55 on main board (3.3mf), lay aside for later use.

3. Remove R7 & R8 beneath diode program board. Lay aside for later use.

4. Substitute 22k resistors where R7 & R8 were installed.

5. Connect one end of each 10k removed from R7 & R8 together.

6. Connect green wire to junction of resistors.

7. Connect free end of one resistor to collector Q11.

8. Connect free end of remaining resistor to ground.

9. Connect one end 10k resistor & (+) side of 3.3mf capacitor together.

10. Connect blue wire to junction of R & C.

11. Connect negative terminal of capacitor to ground.

12. Connect free end of resistor to emitter of Q32.

13. Assure no short circuits can exist with any of above connections.

14. Refer to drawing. Measure & mount interface board as shown. Speaker relocation will be required.

15. Install orange wire into matrix board at position 22. See drawing.

16. Install ribbon cable - Brown wire at DØ per drawing. (Ribbon will require slitting to stretch.)

17. Install 8 diodes as shown.

18. Cut eight traces per drawing.

19. If equipped with tone encoder, install brown wire to J3 on main board (junction R130 & C159). *This wire may need to be substituted with shielded cable to minimize audio pickup.

20. Install LM340T-5 regulator per drawing. Attach wires to interface board.

21. Connect red wire to +12VDC switched.

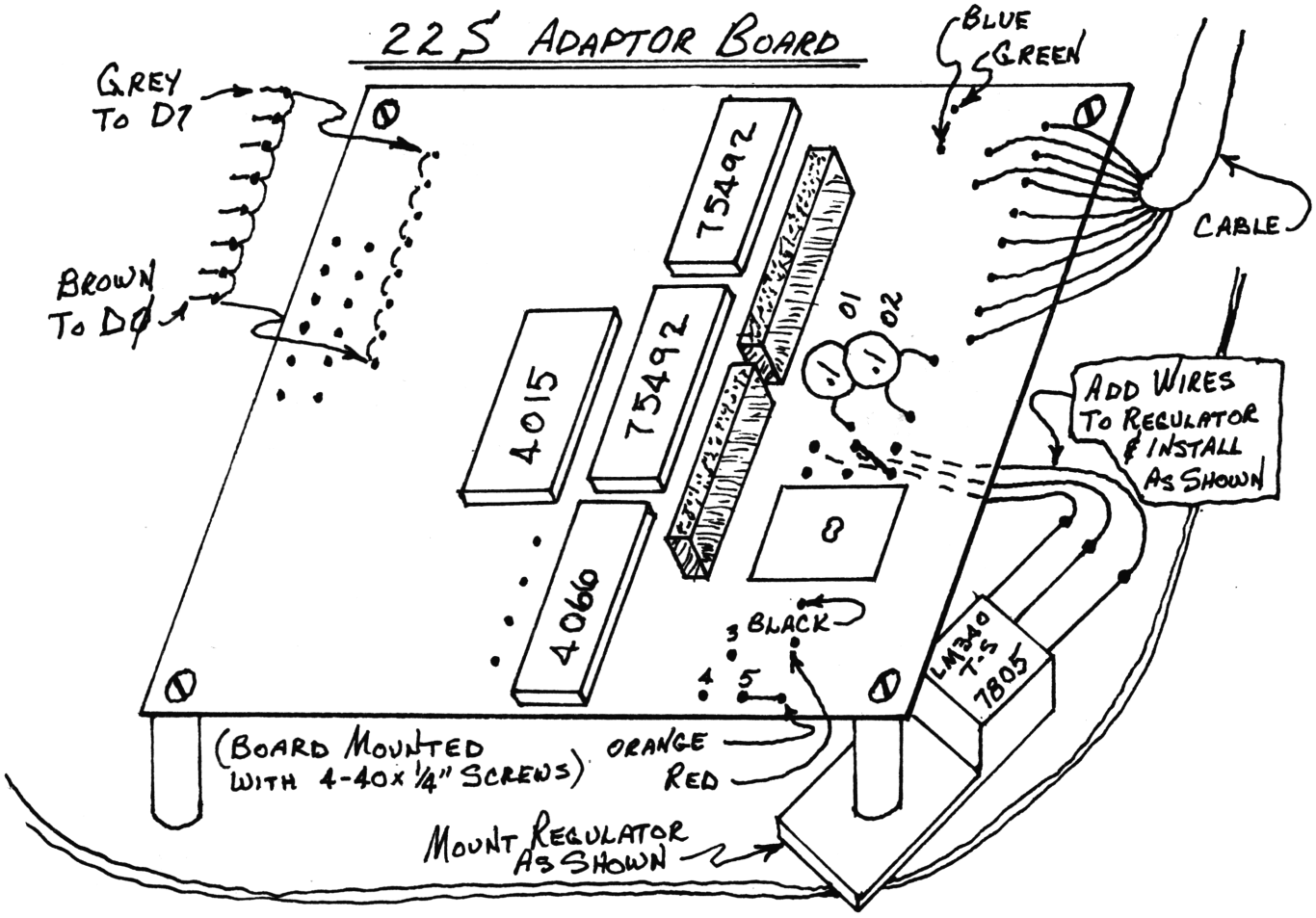
22. Connect black wire to circuit ground.

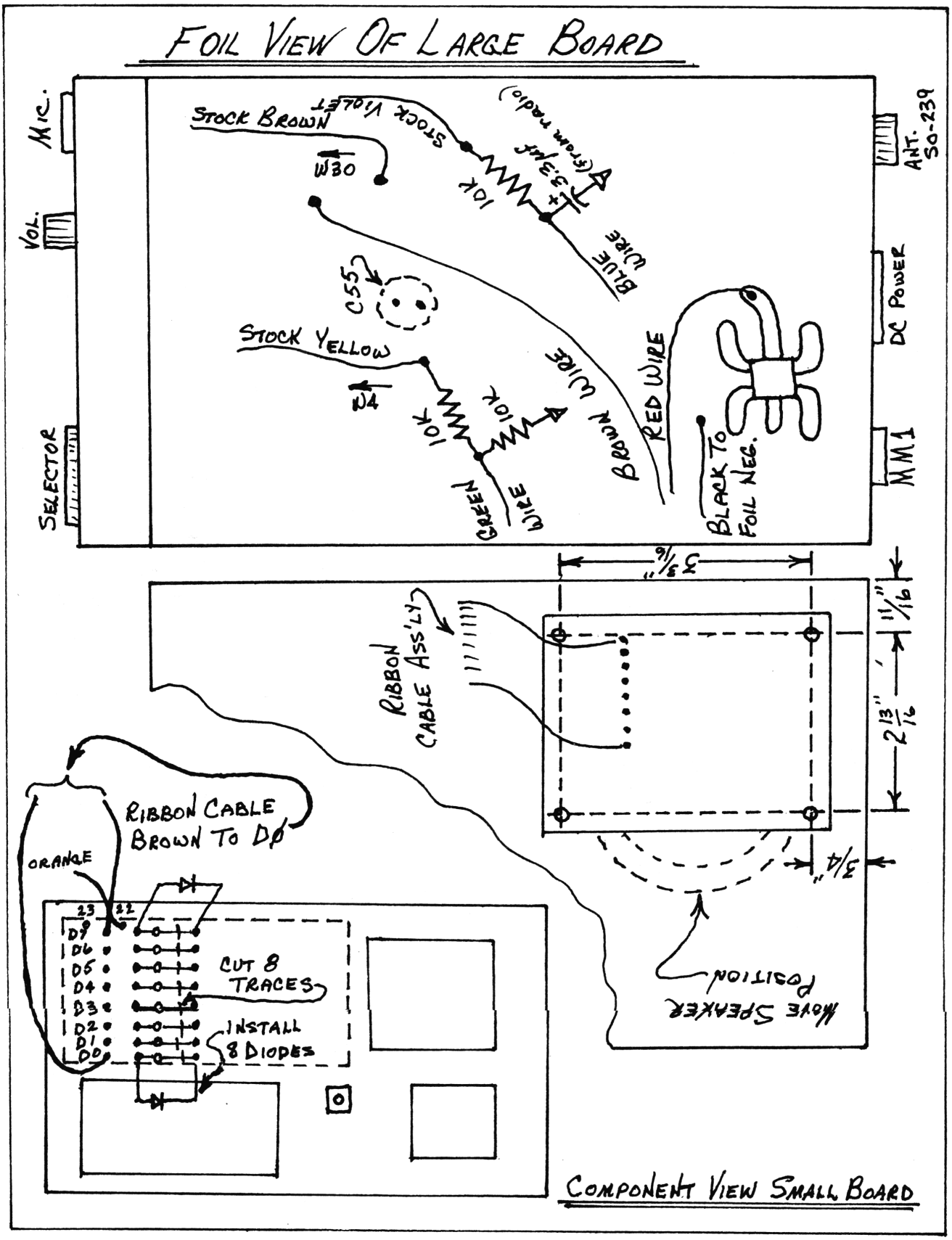
23. Install jumper between Pads 1 & 2, also between 4 & 5.

24. Install jack into rear panel. If installation is difficult, jack may be cut off and use 9 pin connection instead.
    NOTE: 10 wires are inside cable. Orange wire is only wire not used. Make all other connections. Similar rewiring will be necessary on plug.

25. PWR on - cycle MM1 from 'off' to 'on'. Display should read 147.000MHz.

26. Only when switch is in position 22, is the Micromonitor in command. When selector switch is in standard synthesized channels, those channels will be selected.




FOIL VIEW OF LARGE BOARD
MIC.
VOL.
SELECTOR
ANT. SO-239
DC POWER
MM1
STOCK BROWN
W30
STOCK VIOLET
(From radio)
10K
3.3μF
BLUE WIRE
C55
STOCK YELLOW
W4
10K
10K
GREEN WIRE
BROWN WIRE
RED WIRE
BLACK TO FOIL NEG.
3 9/16"
11/16"
2 13/16"
3/4"
RIBBON CABLE ASS'LY
RIBBON CABLE BROWN TO D0
ORANGE
23
22
D7
D6
D5
D4
D3
D2
D1
D0
CUT 8 TRACES
INSTALL 8 DIODES
MOVE SPEAKER POSITION
COMPONENT VIEW SMALL BOARD