

AM ALIGNMENT—SELECTOR IN AM POSITION

Connect generator across loop fashioned of several turns of wire. Set volume at maximum.				
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
455kHz 400-hertz Modulation	Tuning gang fully open	Output meter across voice coil	CF4	Adjust for maximum. Repeat until no further improvement is noted.
600kHz	600kHz	"	T4	Adjust for maximum.
1640kHz	1640kHz	"	CT7,CT6,T3	Adjust for maximum.
1400kHz	1400kHz	"	CT5	Adjust for maximum. Repeat AM alignment until no further improvement is noted.

FM IF ALIGNMENT USING FM SIGNAL GENERATOR—SELECTOR IN FM POSITION

High side of generator thru .001uF to Base FTR3. Use 60-hertz, frequency-modulated signal, 450kHz sweep. Use 60-hertz sawtooth voltage in scope for horizontal deflection.				
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz 450kHz Sweep	Point of non- interference	Vert input of scope to T1, L3 Junction	T2,FT5(1)	Disconnect stabilizing capacitor Adjust for maximum gain and symmetry of response similar to Fig. 1. Reconnect
"	"	Vert input of scope to posi- tive end C25	T1(1)	Adjust T1 for maximum amplitude and straightness of line, similar to Fig. 2.

FM RF ALIGNMENT—SELECTOR IN FM POSITION

Connect generator across antenna terminals with 120-ohm carbon resistor in series with each lead. Adjustment of coils by bending should not be attempted unless the coil is deformed or replaced.				
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
108MHz Modulated	108MHz	DC probe of VTVM to positive end C25	FT4,FT3, FT2,FT1	Adjust for maximum.
88MHz Modulated	88MHz	"	CT4,CT3 CT2,CT1	Adjust for maximum. Repeat FM RF steps until no further improvement is noted.

19kHz

Disconnect coupling Lytic C25. Adjust RV4 for 19kHz +20Hz at TP4.

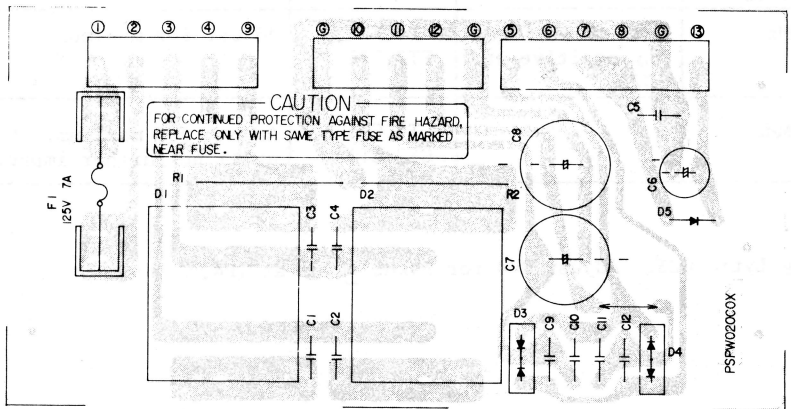
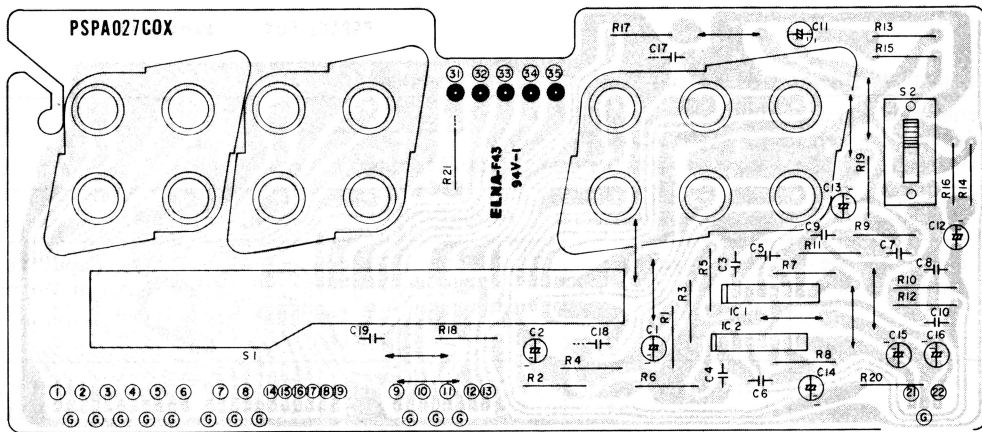
FM STEREO ADJUSTMENT

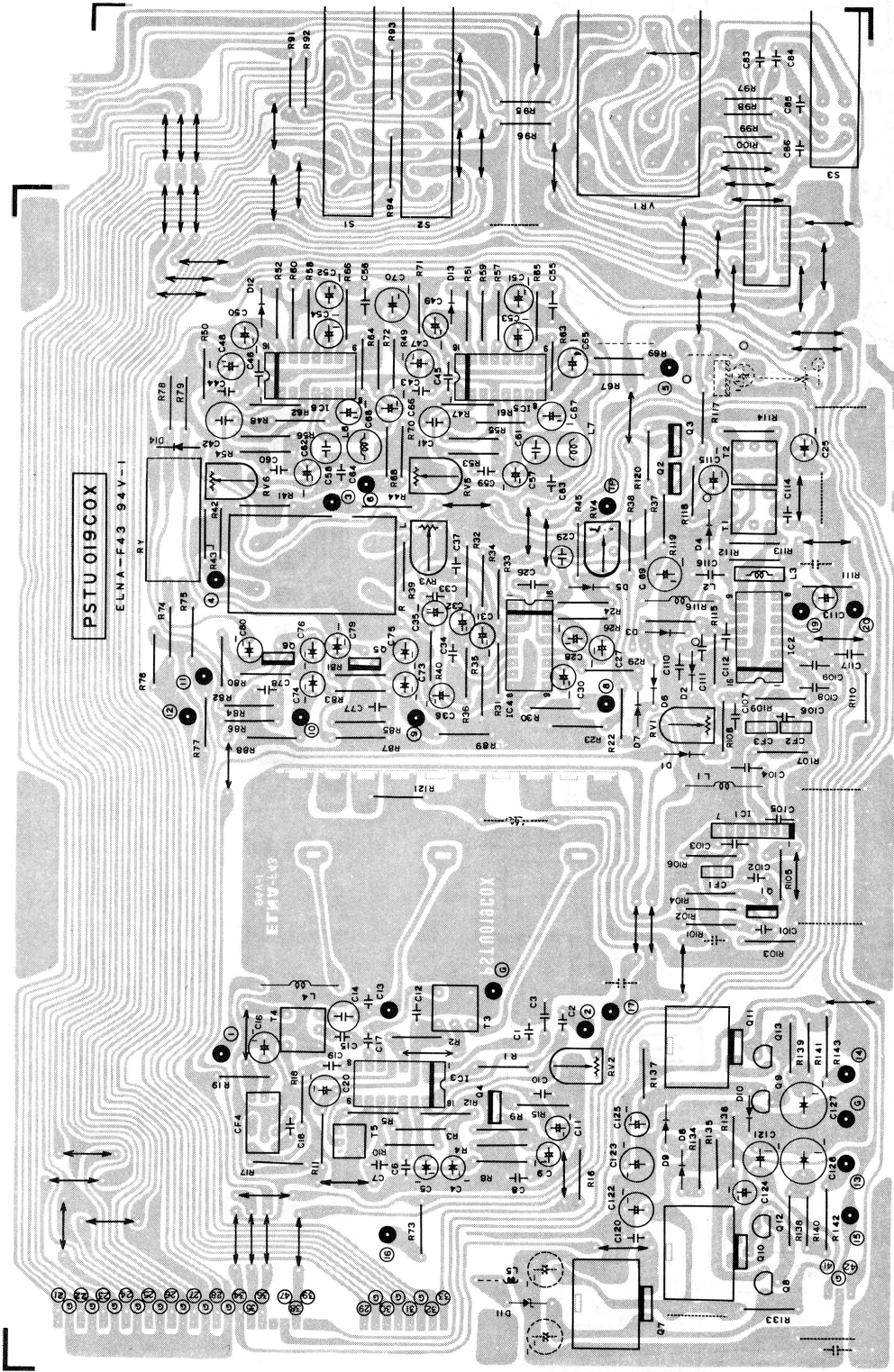
Tune receiver for a stereo signal. Adjust balance control for equal channel output. Adjust Separation control RV3 for best separation.

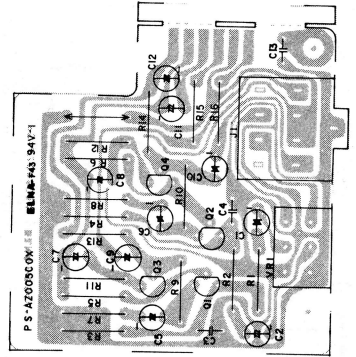
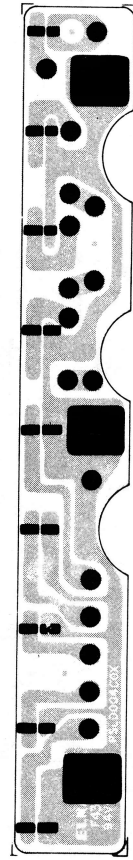
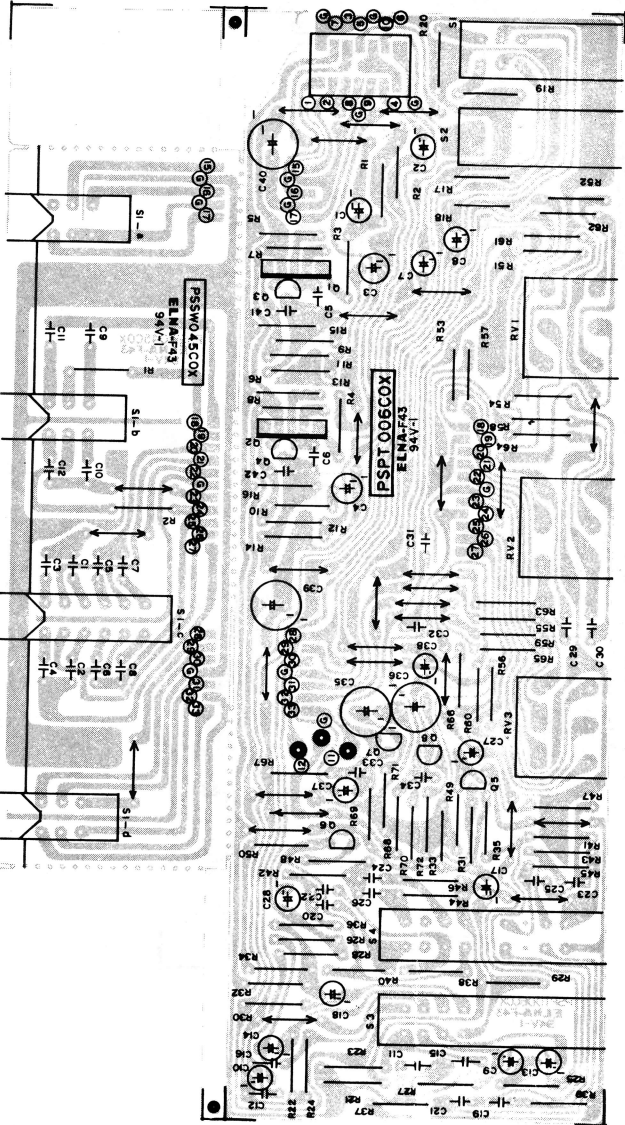
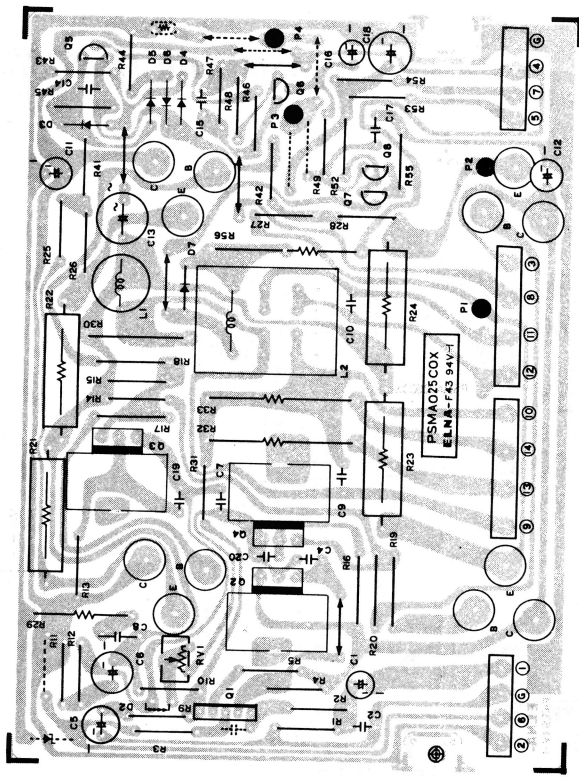
Signal Strength

For AM Tune strong AM station, adjust RV 2 for Maximum deflection on Signal Meter M1.

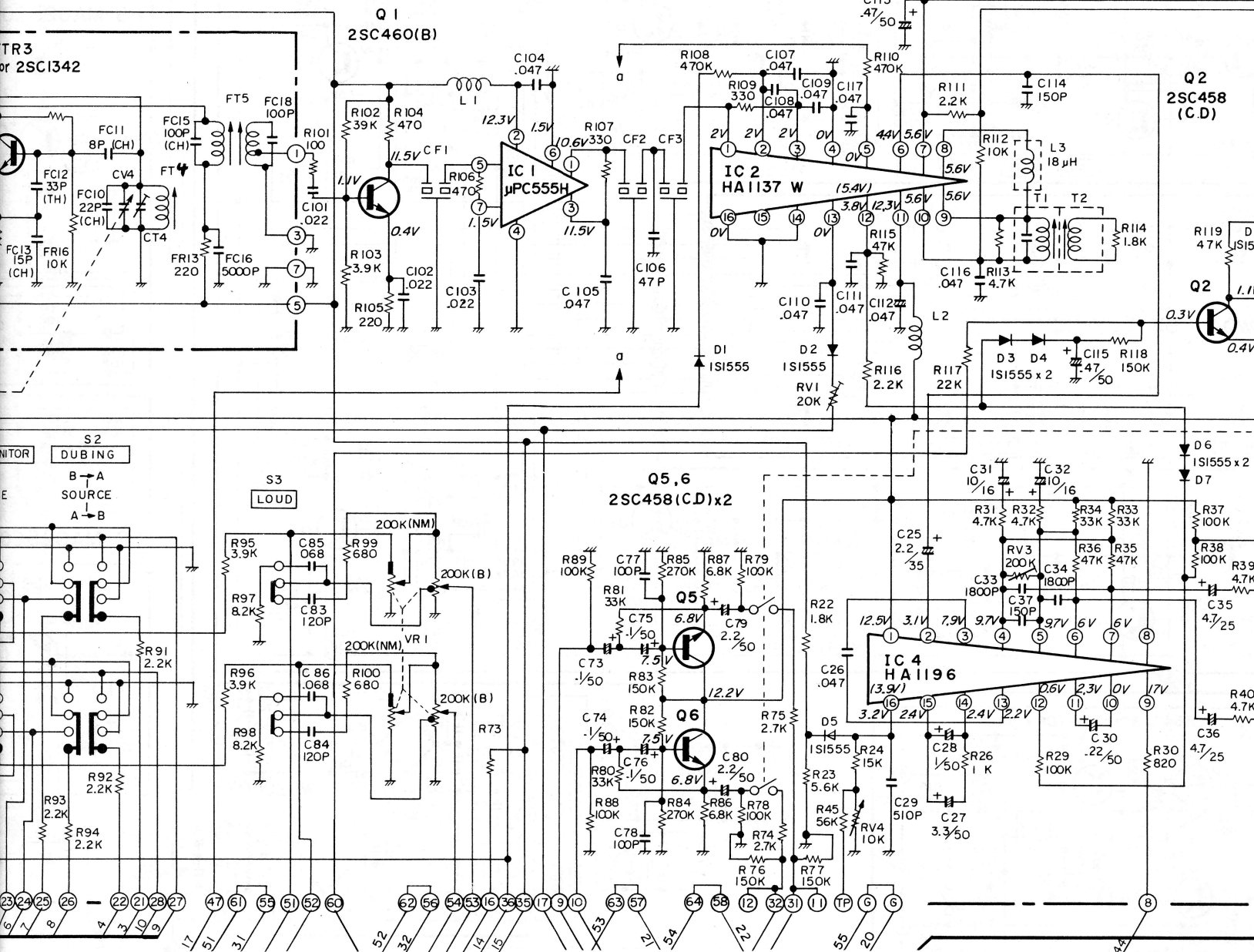
For FM Tune strong signal, adjust tuning for 0 on Tuning Meter M2 and adjust RV1 for Maximum deflection on Meter M1.

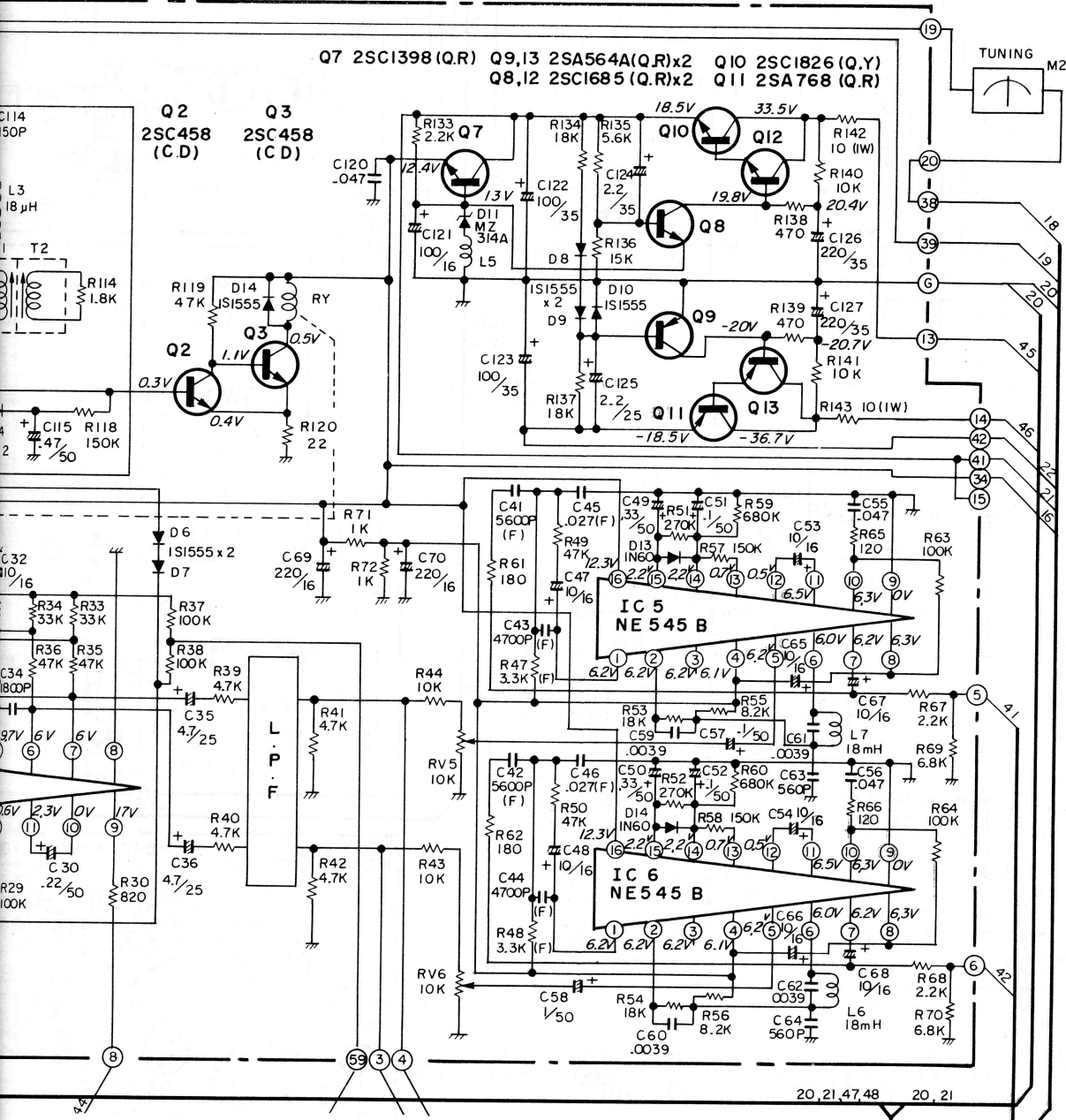


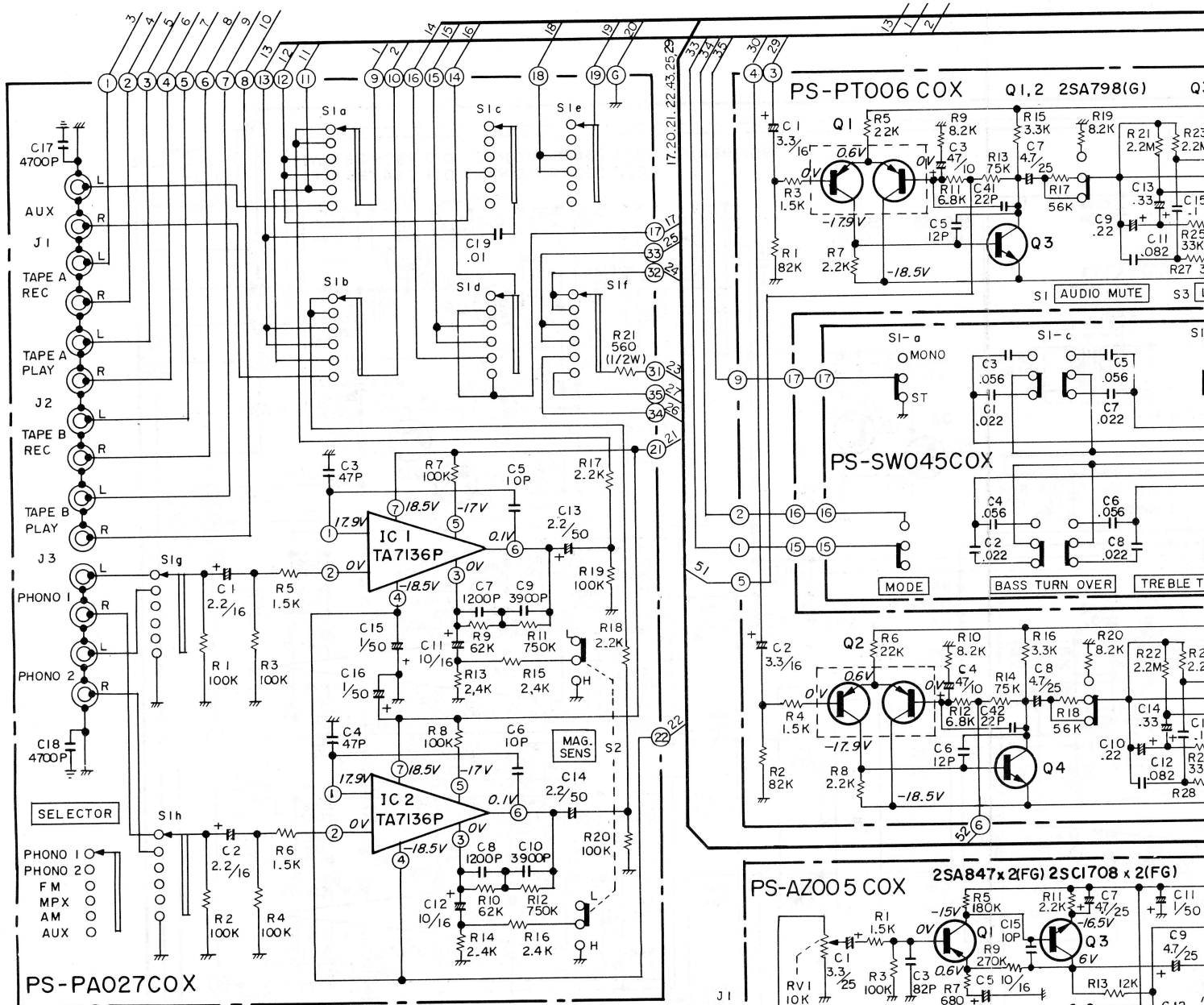




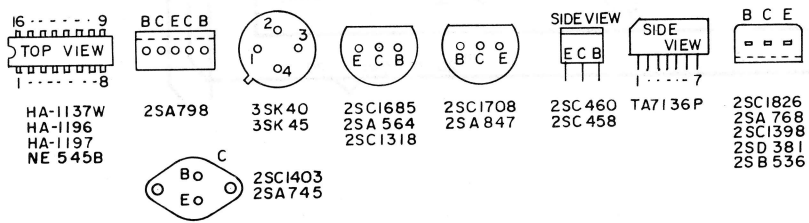
TR3
or 2SC1342



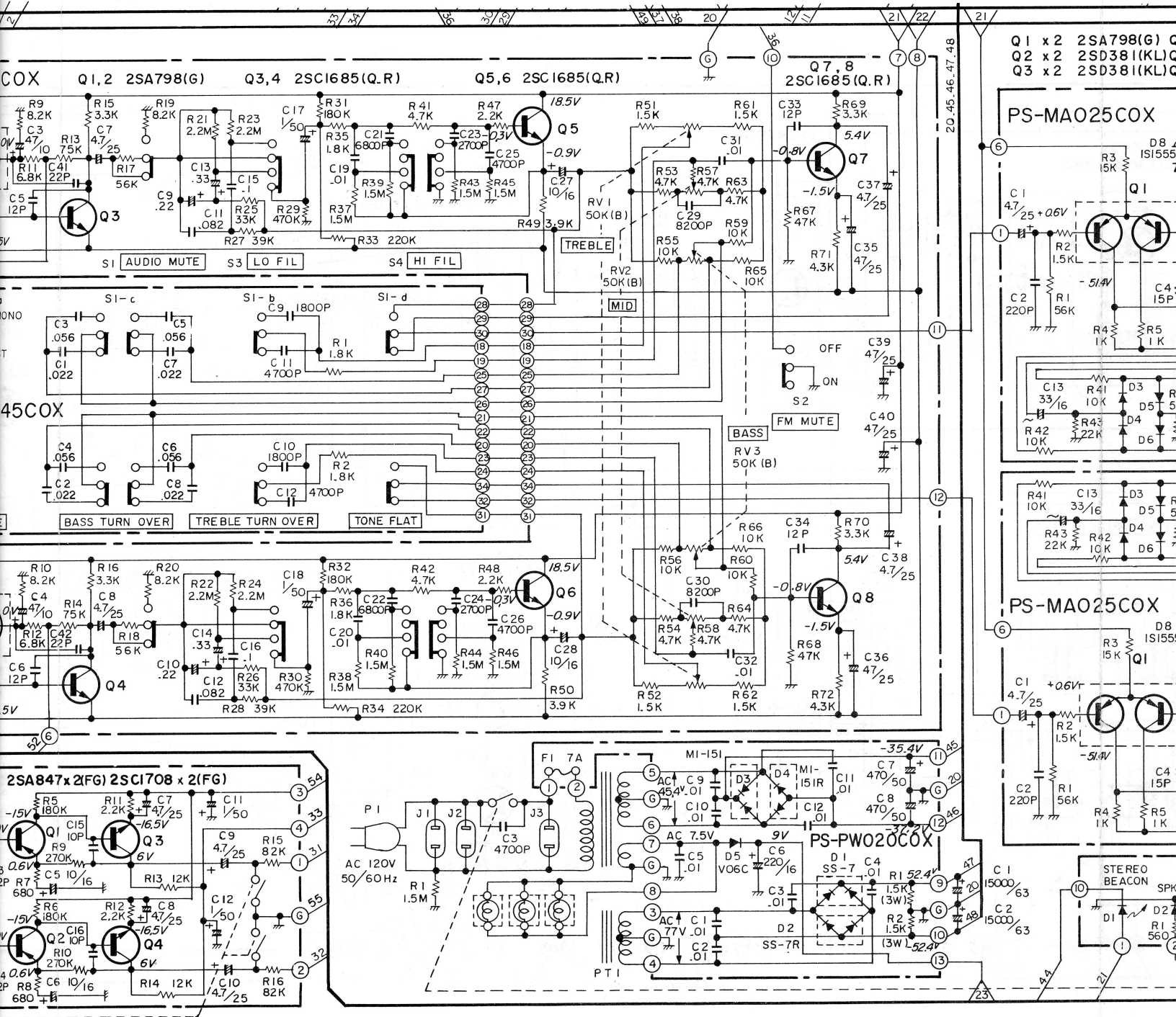




SEMICONDUCTOR TERMINAL CONNECTION
(BOTTOM VIEW UNLESS OTHERWISE NOTED)

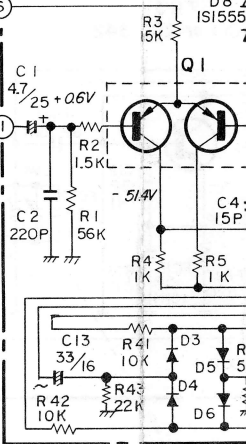


- E. EMITTER
- C. COLLECTOR
- B. BASE
- J. DRAIN
- 2. GATE 1
- 3. GATE 2
- 4. SOURCE

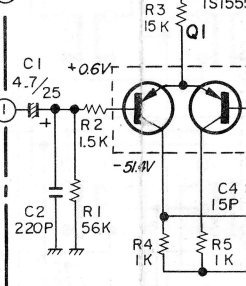


- Q1 x 2 2SA798(G) Q
- Q2 x 2 2SD381(KL) Q
- Q3 x 2 2SD381(KL) Q

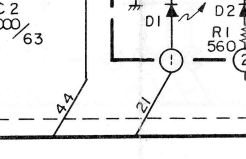
PS-MA025COX



PS-MA025COX

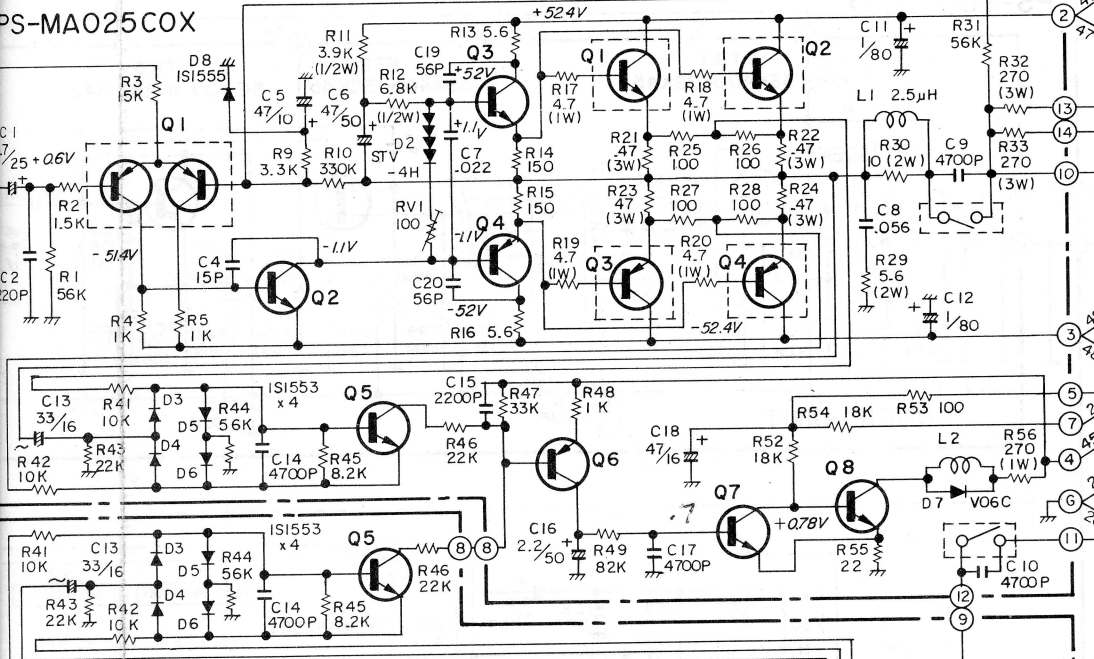


PS-PW020COX

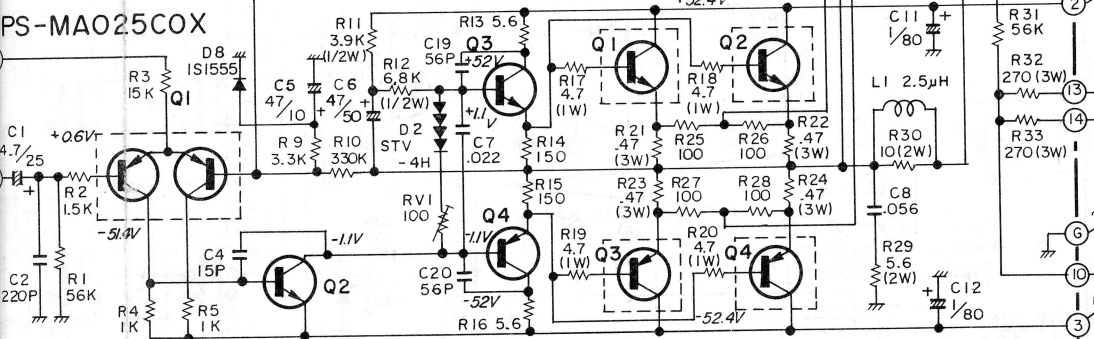


Q1 x 2 2SA798(G) Q4 x 2 2SB536(KL) Q7 2SC1685(Q.R) Q1,2 x 2 2SC1403A(O.Y)
 Q2 x 2 2SD381(KL) Q5 x 2 2SC1708(FG) Q8 2SC1318(Q.R) Q3,4 x 2 2SA745A(O.Y)
 Q3 x 2 2SD381(KL) Q6 2SA564(A)(Q.R)

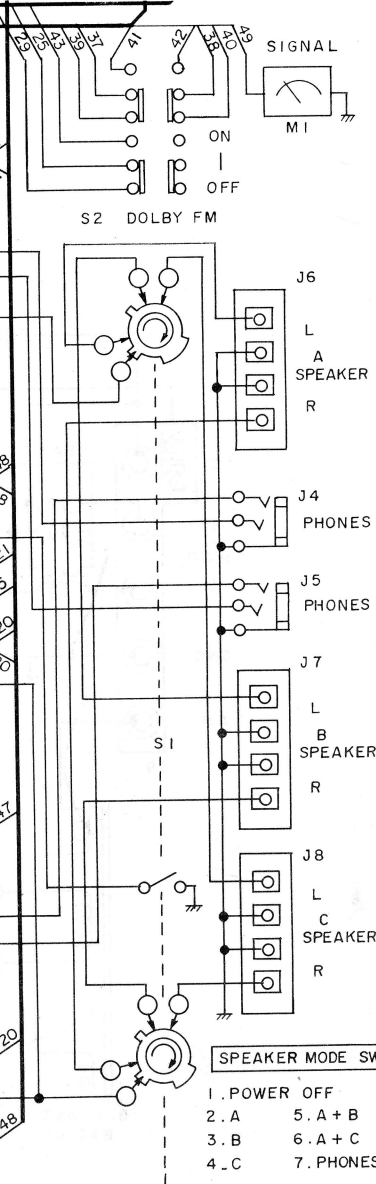
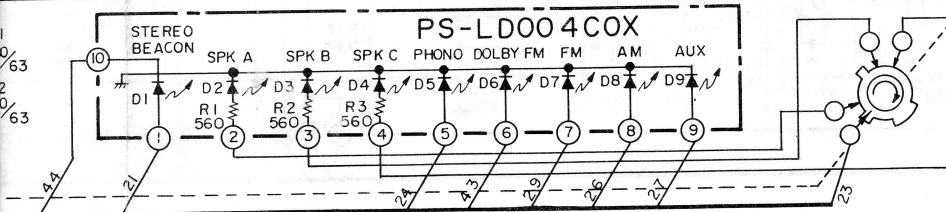
PS-MA025COX



PS-MA025COX



PS-LD004COX



NOTE:
 1. ALL VOLTAGES MEASURED FROM COMMON NEGATIVE CHASSIS GROUND WITH VTVM AT NO SIGNAL.
 2. CAPACITORS VALUES ARE IN µF UNLESS OTHERWISE NOTED P=PICO FARAD
 3. RESISTORS VALUES ARE IN OHM. K=K OHM