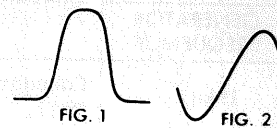


**ALIGNMENT INSTRUCTIONS**

**CAUTION:** Use isolation transformer or observe polarity when connecting test equipment. Connect low sides of generator and indicator to ground unless specified otherwise. Maintain line voltage at 120V AC. Allow a 15-minute warm-up period. Use only enough generator output to obtain a suitable indication.  
 Suggested Alignment Tools: GC ELECTRONICS:



**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	(1) CF4	Adjust for maximum. Repeat until no further improvement is noted.
600kHz	600kHz	"	T7	Adjust for maximum.
1640kHz	1640kHz	"	CT5	Adjust for maximum.
1400kHz	1400kHz	"	CT4	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 Junction of C4 and C5.  
 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 Pin 1 of IC1 with Detector Probe.	(1) T5,T4	Adjust for maximum gain and symmetry of response similar to Fig. 1.
"	"	Vert input of scope to Pin 3 of IC2.	T6	Adjust T6 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
88MHz Modulated	88MHz	AC probe of VTVM across speaker.	T3,T2, T1	Adjust for maximum.
108MHz Modulated	108MHz	"	CT3,CT2, CT1	Adjust for maximum. Repeat FM RF steps until no further improvement is noted.

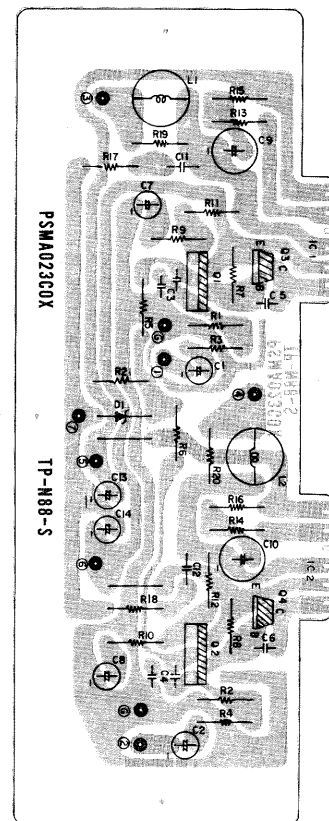
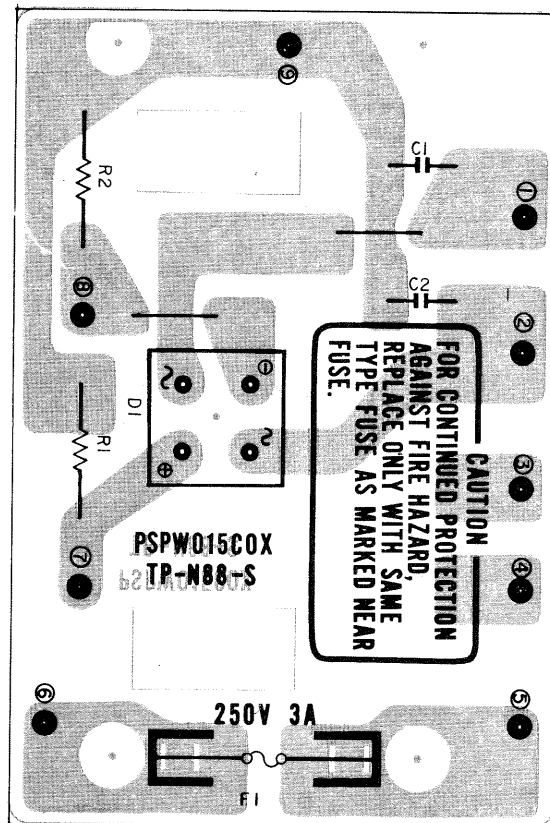
(1) Before adjusting, vary generator frequency slightly. Maximum output indicates exact IF.

### FM STEREO ADJUSTMENT

Tune receiver for a stereo signal. Adjust balance control for equal channel output. Adjust Separation control RV5 for best separation.

### FM STEREO ALIGNMENT USING AUDIO GENERATOR

Ground Pin 6 of IC1, connect generator to Pin 2 of IC2.			
GENERATOR FREQUENCY	INDICATOR	ADJUST	REMARKS
19kHz	Connect Frequency Counter to TP11.	RV4	Adjust for 19kHz $\pm$ 20Hz.

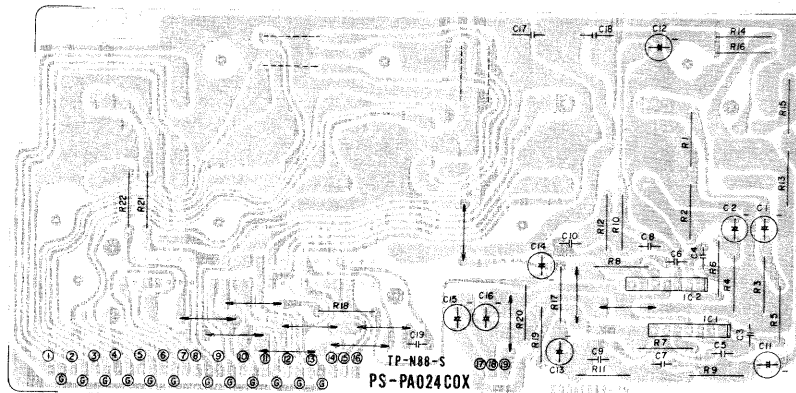
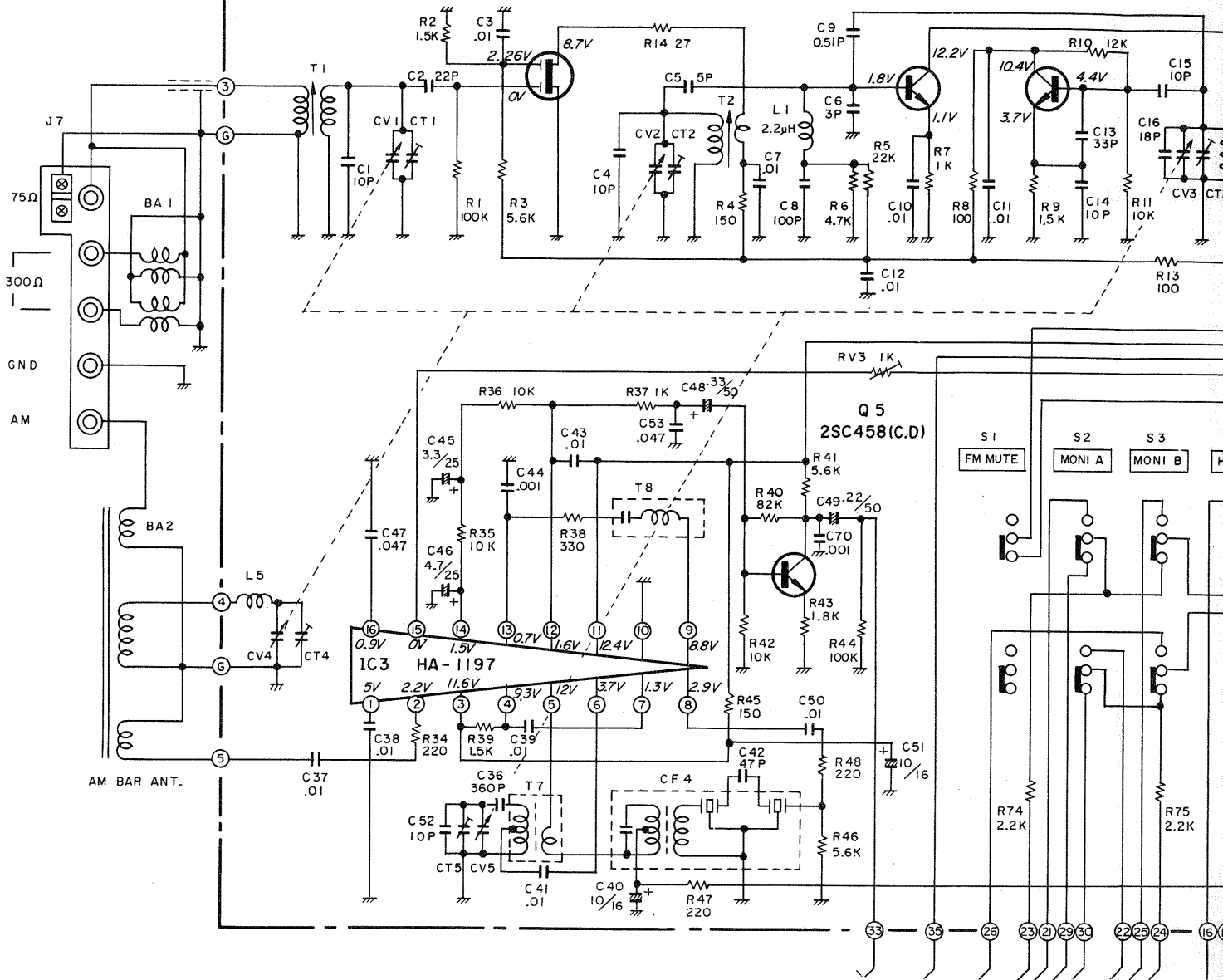


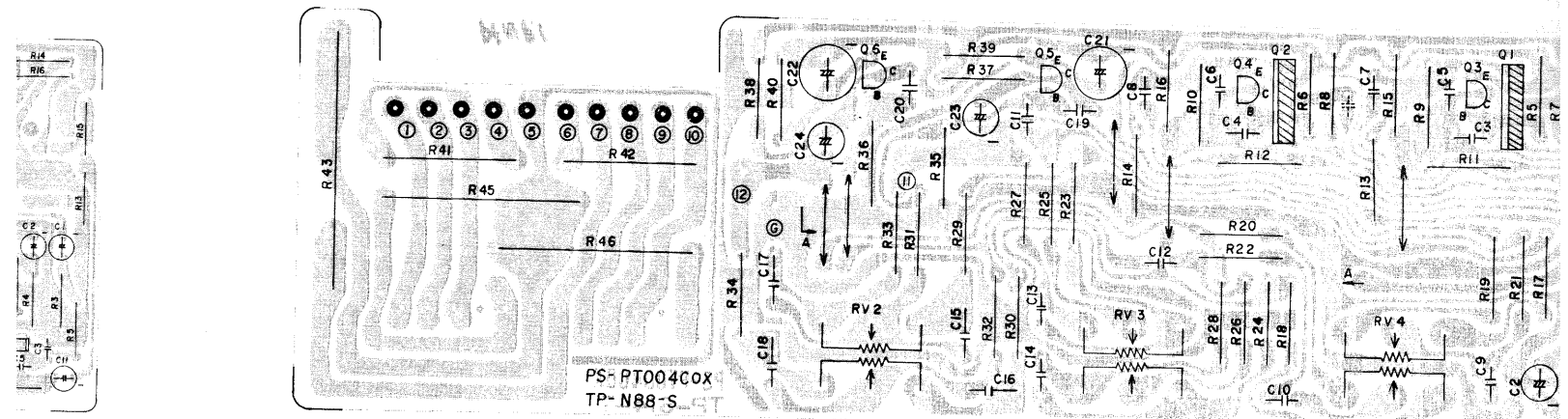
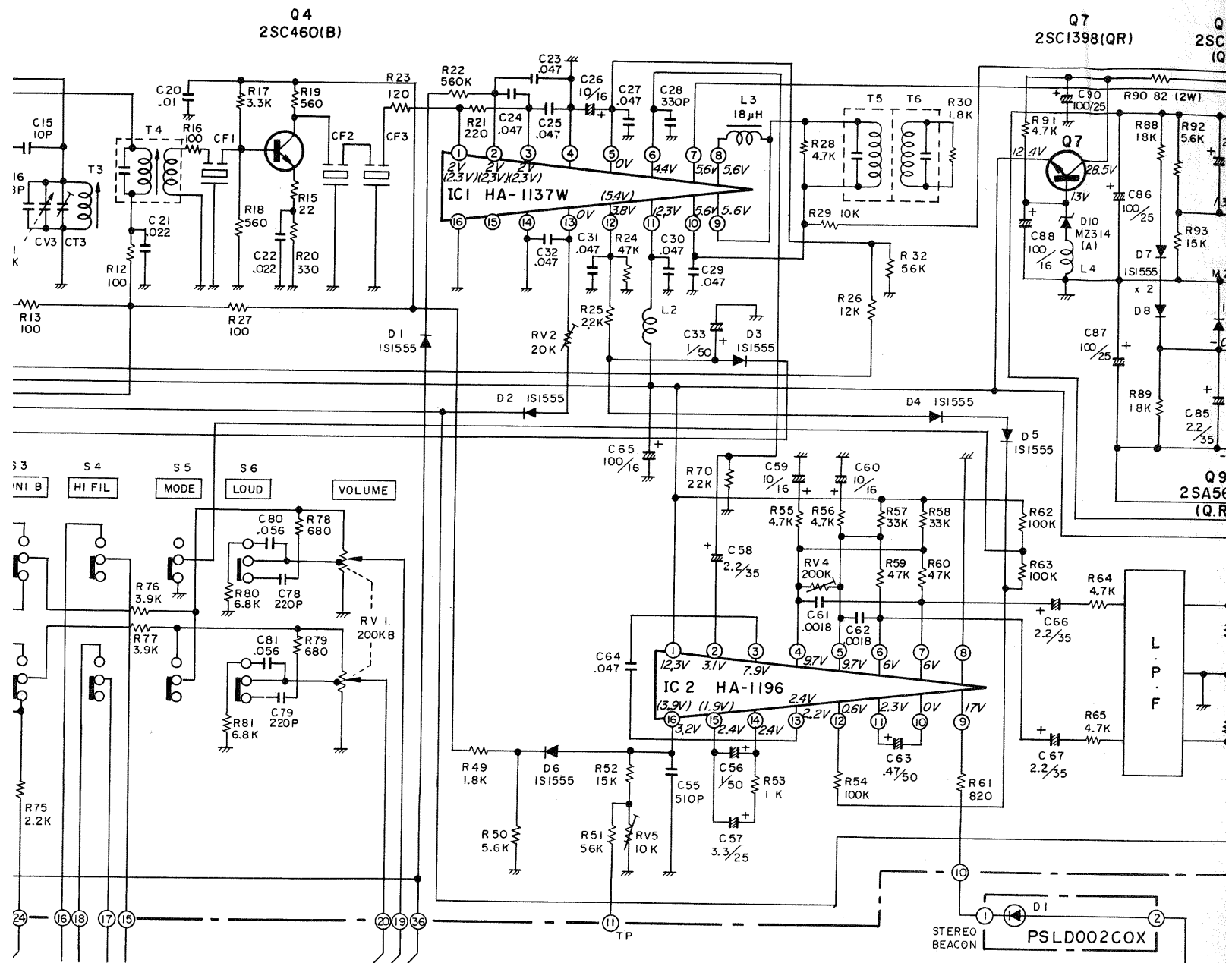
PSTU015COX

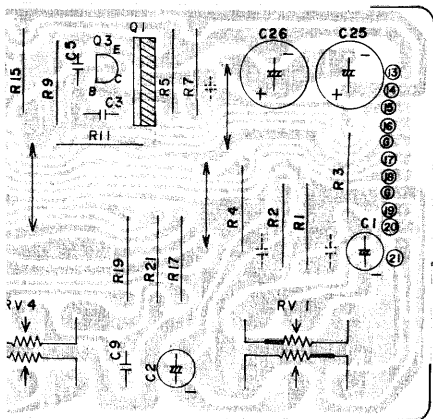
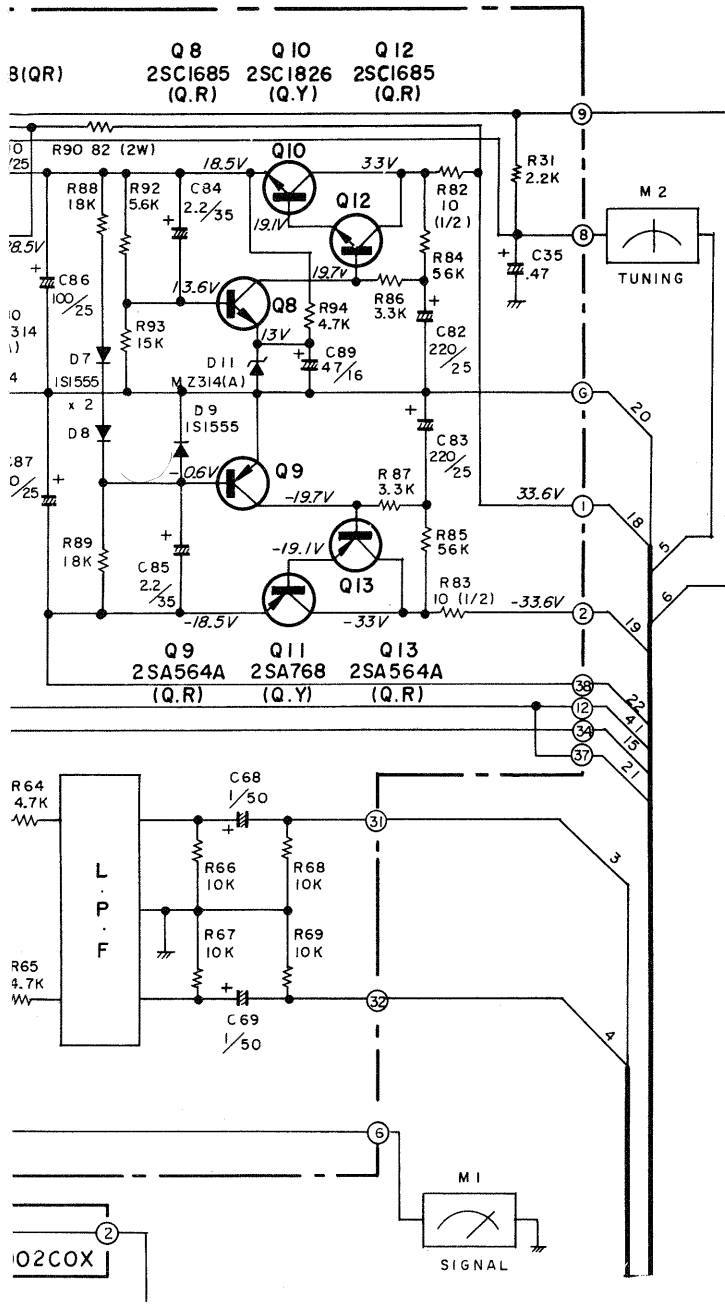
Q1  
3SK45(B)

Q2  
2SC535(BC)

Q3  
2SC460(B)

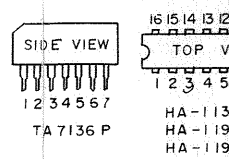
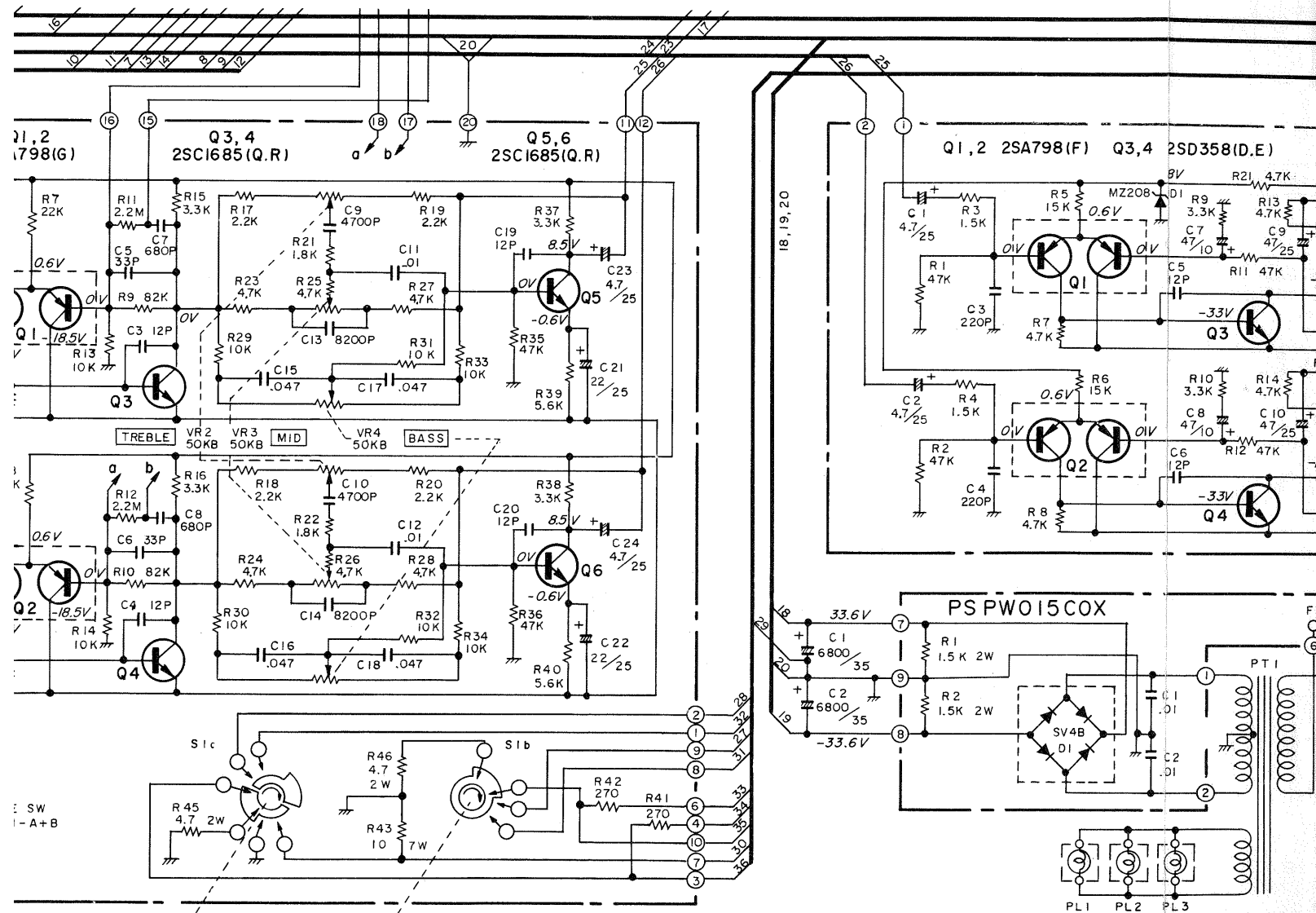


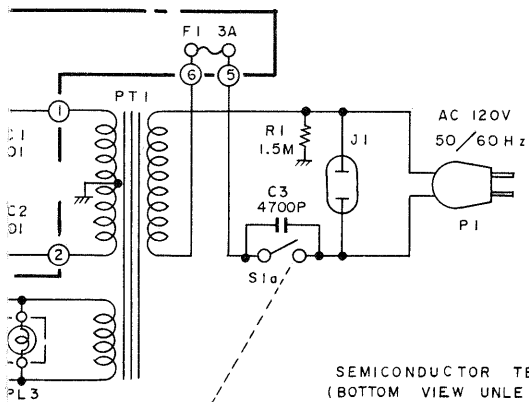
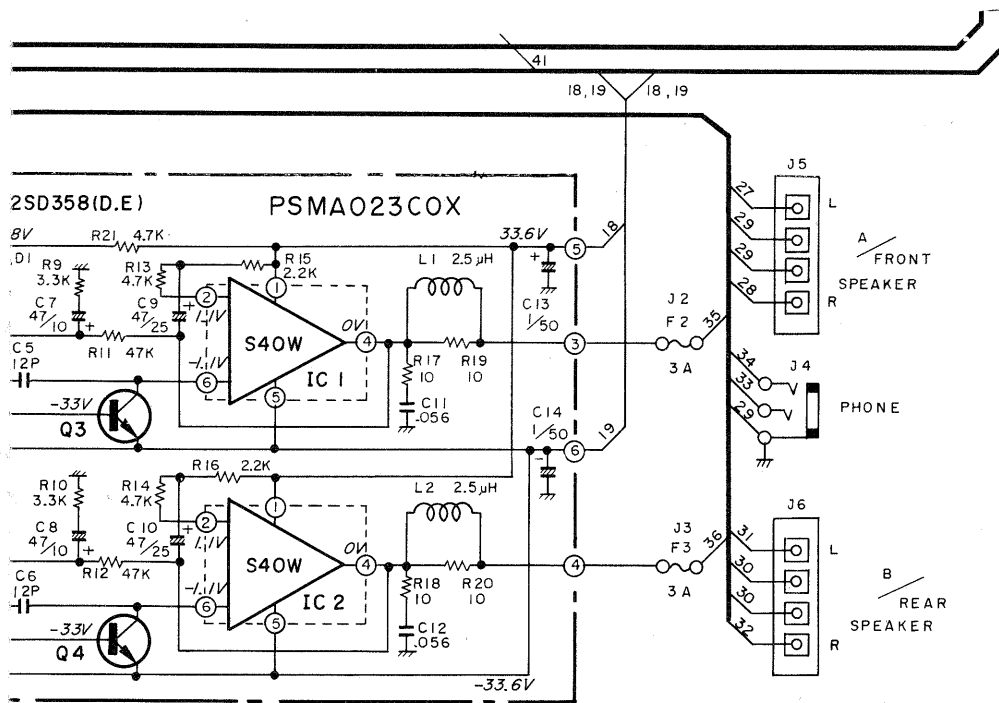




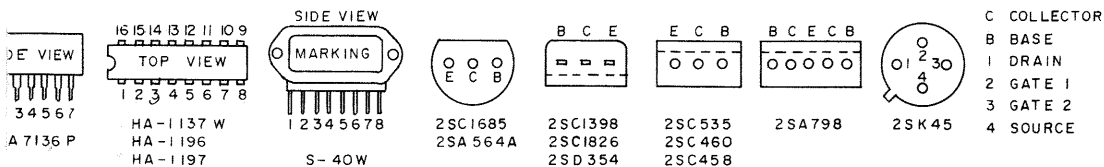


# Lafayette LR-3030





SEMICONDUCTOR TERMINAL CONNECTION  
(BOTTOM VIEW UNLESS OTHERWISE NOTED)



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

