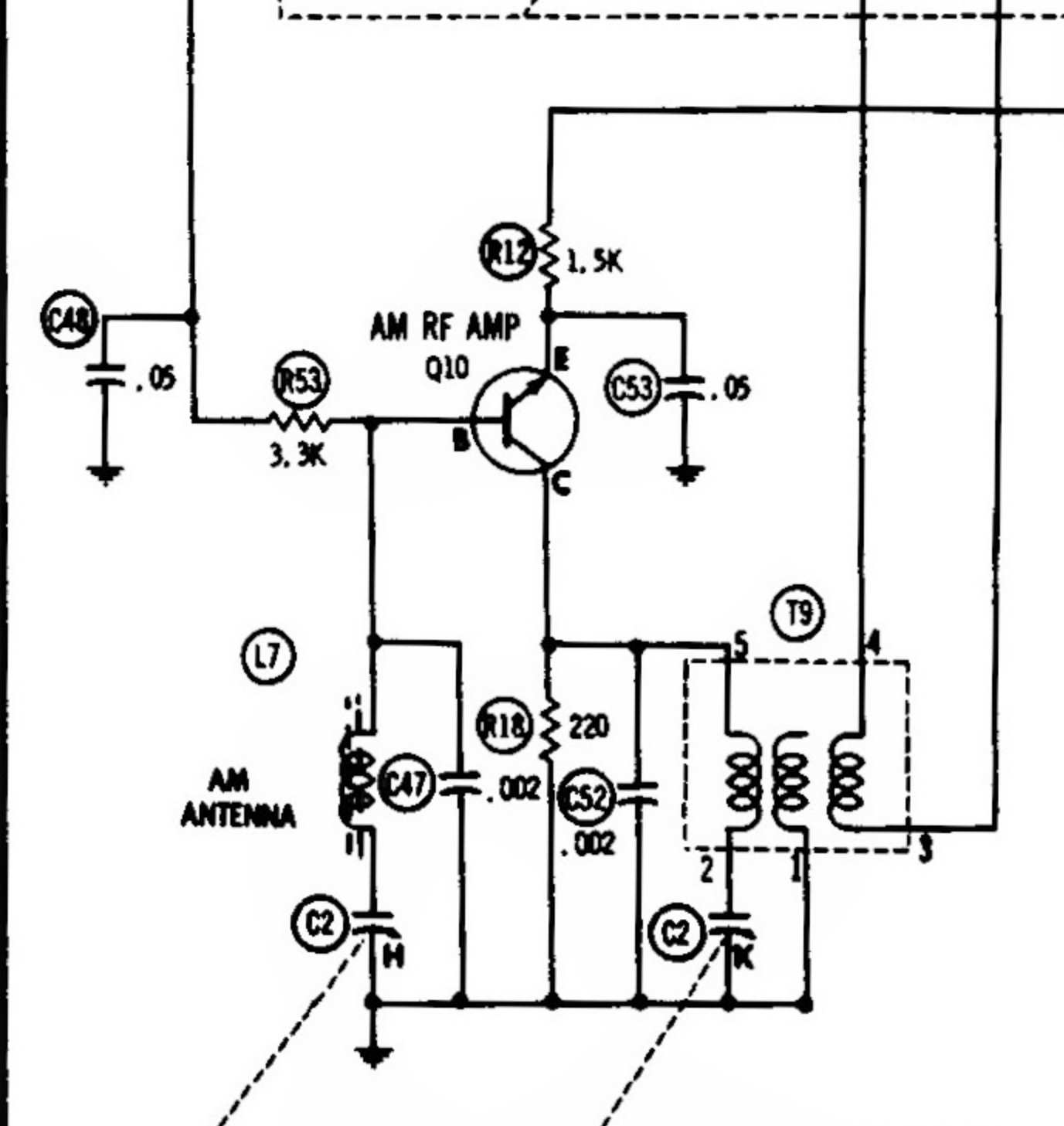
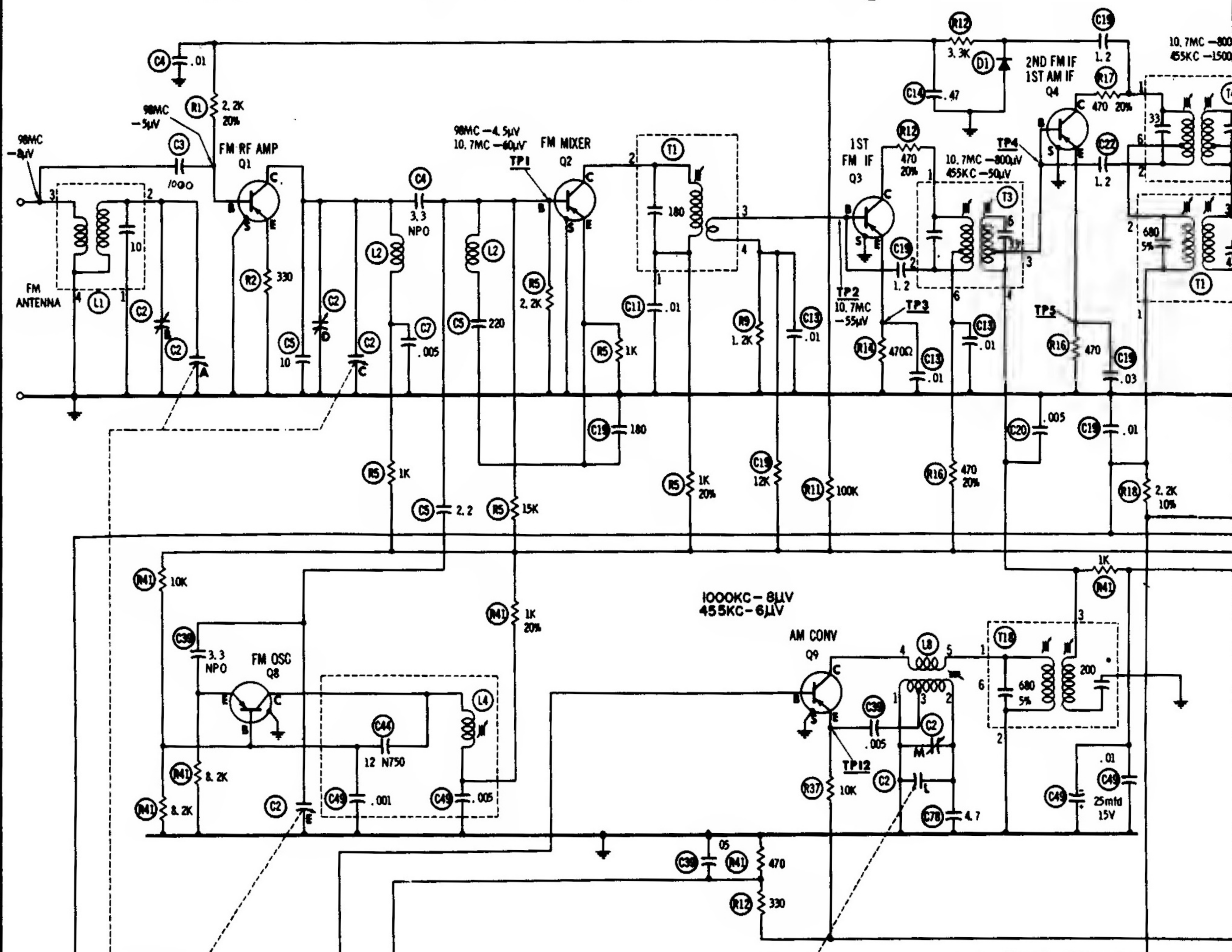


GENERAL ELECTRIC TU50 Tuner Schematic Diagram



Trouble Shooting Voltage Chart

	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16
EMITTER	AM No Sig.	0	0	0	0.8	0.70	0	11.8	0	7.4	10.0	0	0	0	0	0
	FM	0.24	1.25	0.70	0.8	0.70	0.70	11.8	5.1	0	10.0	9.8	0.5	0	11.8	0
	FM Stereo No Sig.	0.24	1.25	0.70	0.8	0.70	0.70	11.8	5.1	0	10.0	9.8	0.5	0	11.8	0
	FM Stereo W. Sig.	0.24	1.25	0.70	0.8	0.70	0.70	11.8	5.1	0	10.0	9.8	1.0	0	11.8	0.8
BASE	AM No Sig.	0	0	0	0.75	0.95	0	12.0	0	6.8	9.4	0	0	0	0	0
	FM	0.28	1.50	0.95	0.78	0.95	0.98	12.0	9.2	0	9.4	9.1	0.7	0	11.8	0
	FM Stereo No Sig.	0.28	1.50	0.95	0.78	0.95	0.98	12.0	9.2	0	9.4	9.1	0.7	0	11.8	0
	FM Stereo W. Sig.	0.28	1.50	0.95	0.78	0.95	0.98	12.0	9.2	0	9.4	9.1	1.3	0	11.1	1.1
COLLECTOR	AM No Sig.	0	0	0	8.5	10.8	0	Depends on Power Supply	0	0	0.3	0	0	0	0	0
	FM	11.0	11.0	10.8	8.5	10.5	10.8	11.2	0	0.3	3.8	11.8	11.8	0	0	0
	FM Stereo No Sig.	11.0	11.0	10.8	8.5	10.5	10.8	11.2	0	0.3	3.8	11.8	11.8	0	0	0
	FM Stereo W. Sig.	11.0	11.0	10.5	8.5	10.8	10.2	11.2	0	0.3	8.8	11.8	11.2	0	11.2	11.2

All voltages are negative with respect to ground (chassis), with no signal applied, except for measurements in stereo circuits. Zener diode (D5) voltage is -12 volts, $\pm 5\%$. Chart is made for 12.0V Zener diode. Other voltages have a tolerance of $\pm 15\%$.

TERM. VIEW OF Q2, Q3, Q5, Q6, & Q8

TERM. VIEW OF Q1

TERM. VIEW OF Q4, Q9, Q10, Q12, Q13, Q14, & Q15

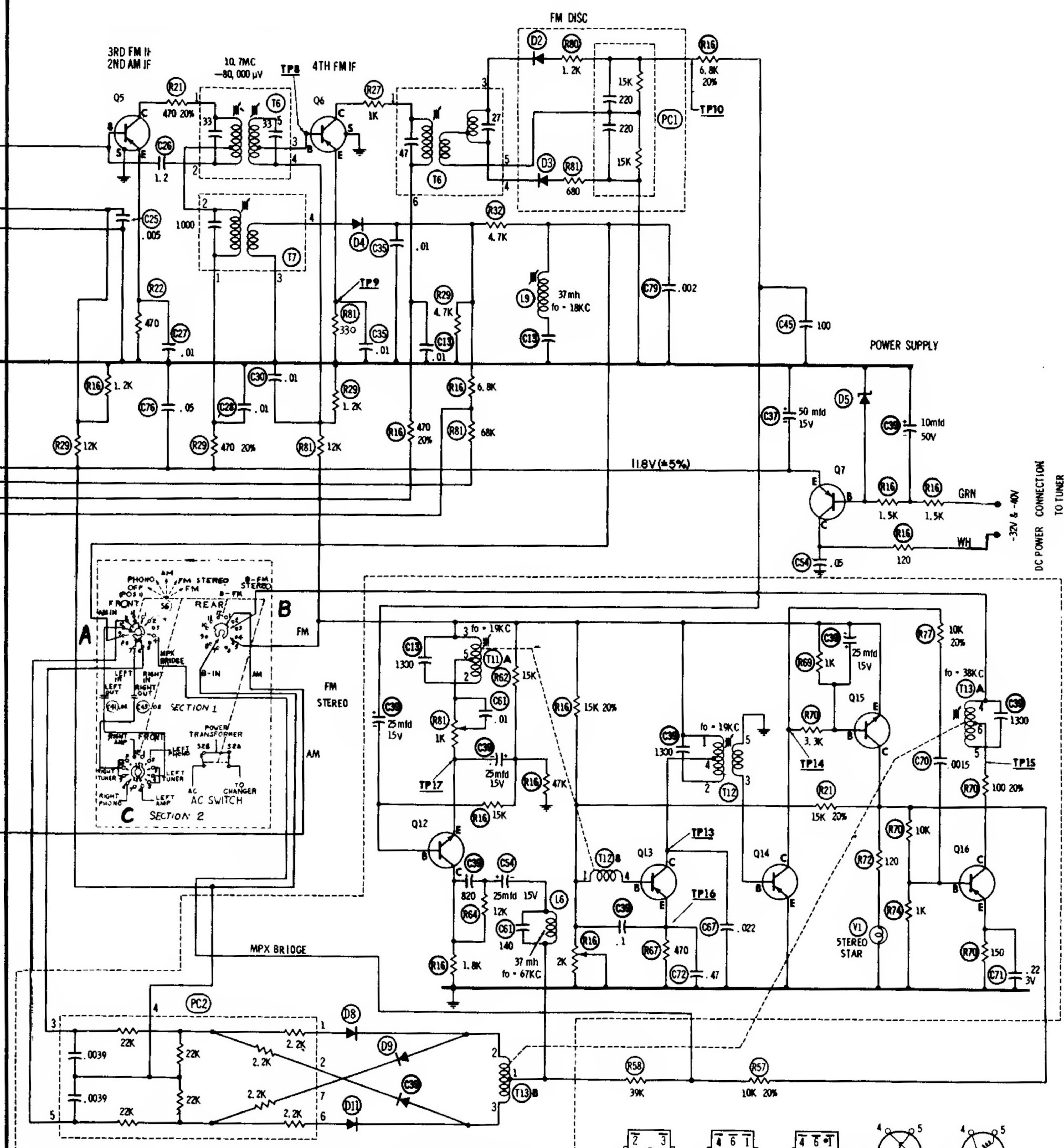
TERM. VIEW OF Q7

COLOR BAND-CATHODE SIDE

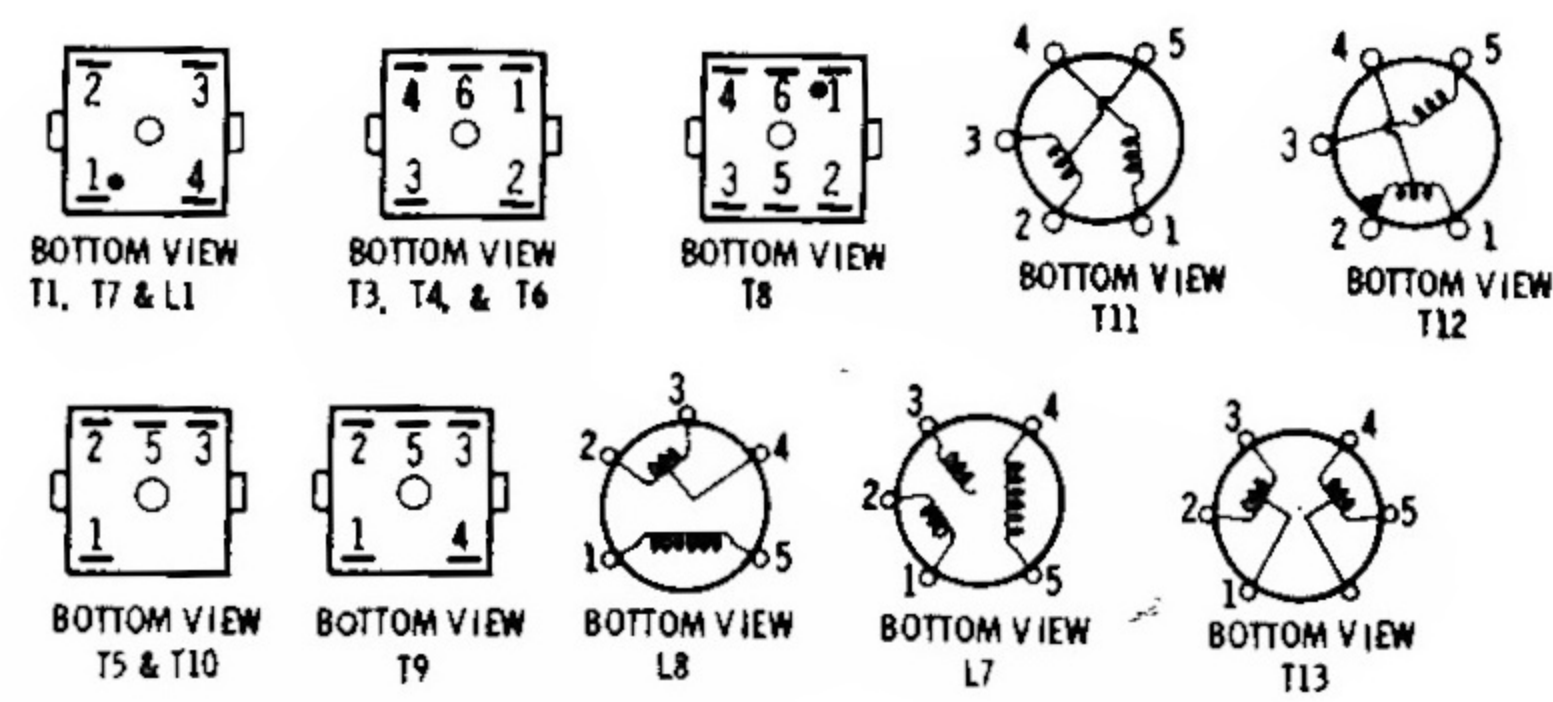
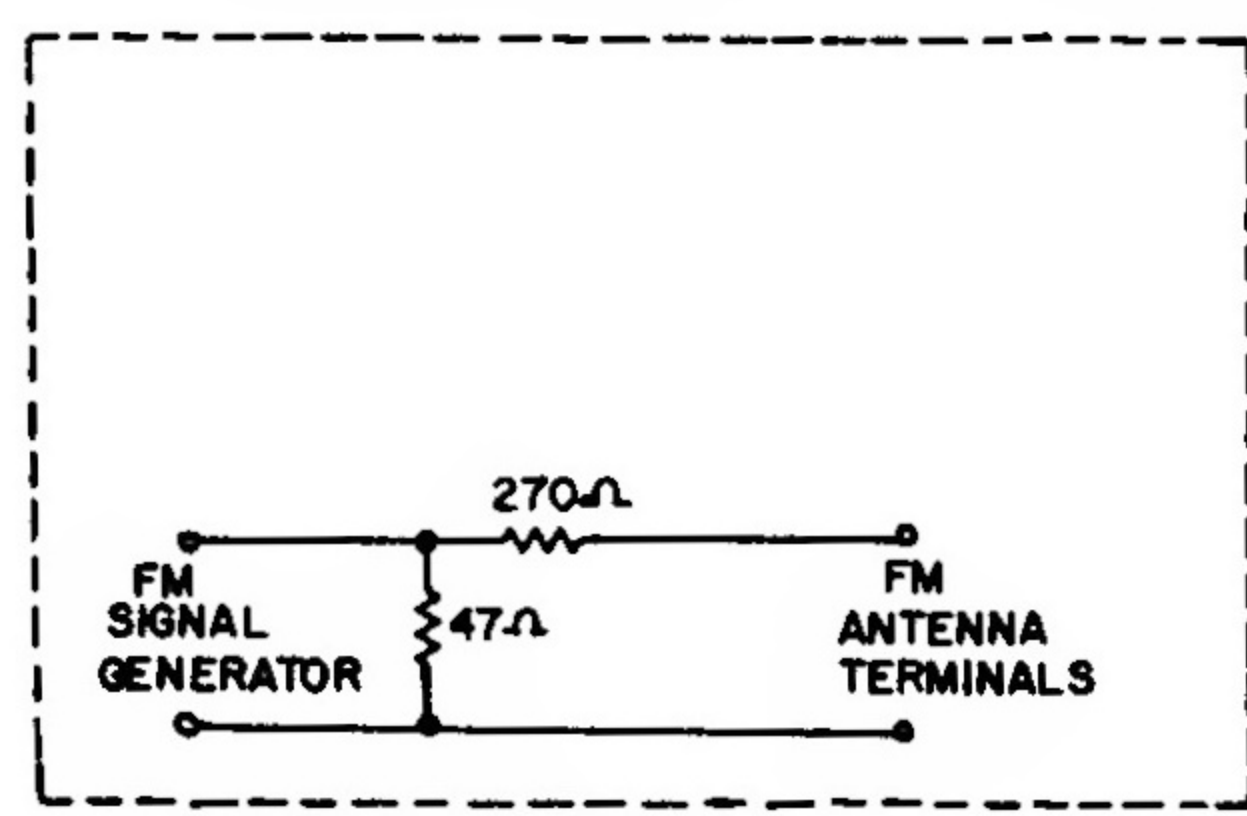
THIS APPLIES TO ALL DIODES

TU50 SWITCHING

POS.	S2A	S2B
1	ON	OFF
2	ON	OFF
3	OFF	ON
4	OFF	ON
5	OFF	ON

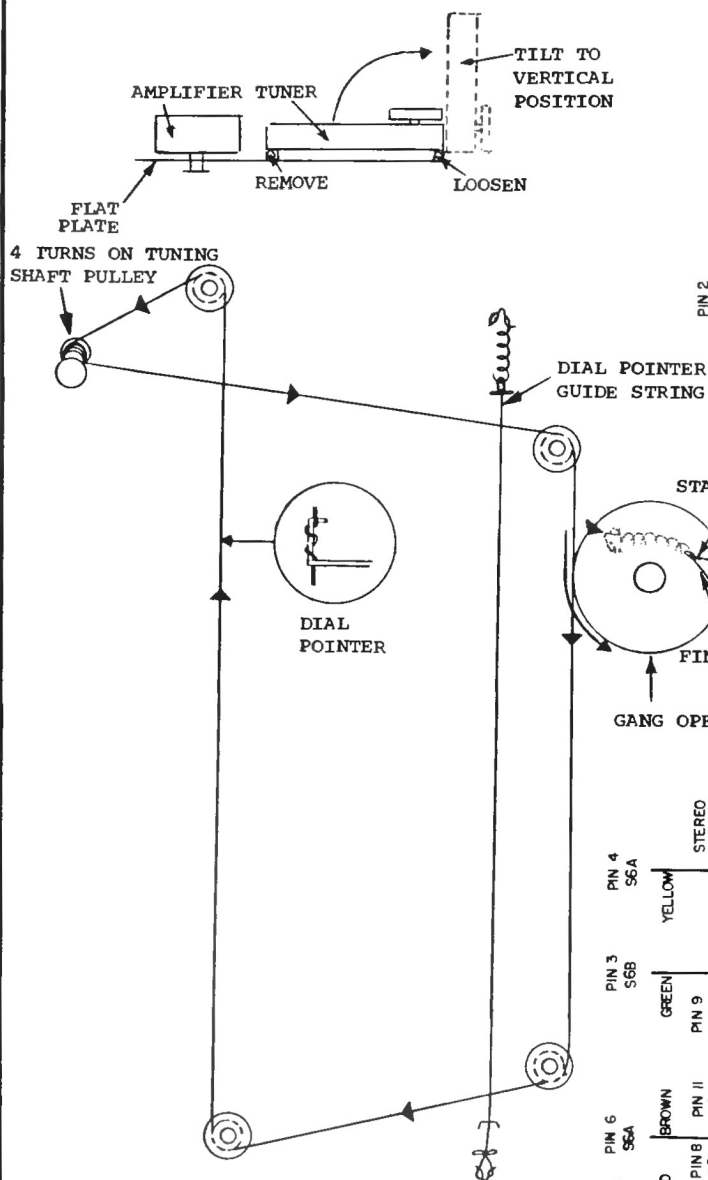


TU50 SCHEMATIC DIAGRAM



- NOTES:
- Capacitor values more than 1 in mmf; capacitor values less than 1 in mfd, unless otherwise noted.
 - All resistors in ohms, 1/2 watt, 10% tolerance, unless otherwise noted.
 - AM sensitivity is given as the input required to give 30mv audio output. Input = 455kc/1000kc, 30% modulation, 500 Ω input impedance.
 - FM sensitivity is given as the input required to give an audio output that is 30b below maximum output. Input = 10.7mc/98mc, 25.5kc deviation, 500 Ω input impedance, except 300 Ω at antenna terminals.

(TU500 series type tuner is practically to TU50, but has mechanical housing and flywheel tuning.)



TU50 DIAL CORD RESTRINGING

1. Place gang to open position.
2. Hook on end of spring on gang drum and bring dial cord around drum and under tuner chassis.
3. Remove the two screws nearest the audio amplifier that hold the tuner to the flat plate. Loosen the other two tuner screws.
4. Tilt the tuner up to a vertical position. (See sketch.)
5. Follow the diagram for restringing the dial cord.

