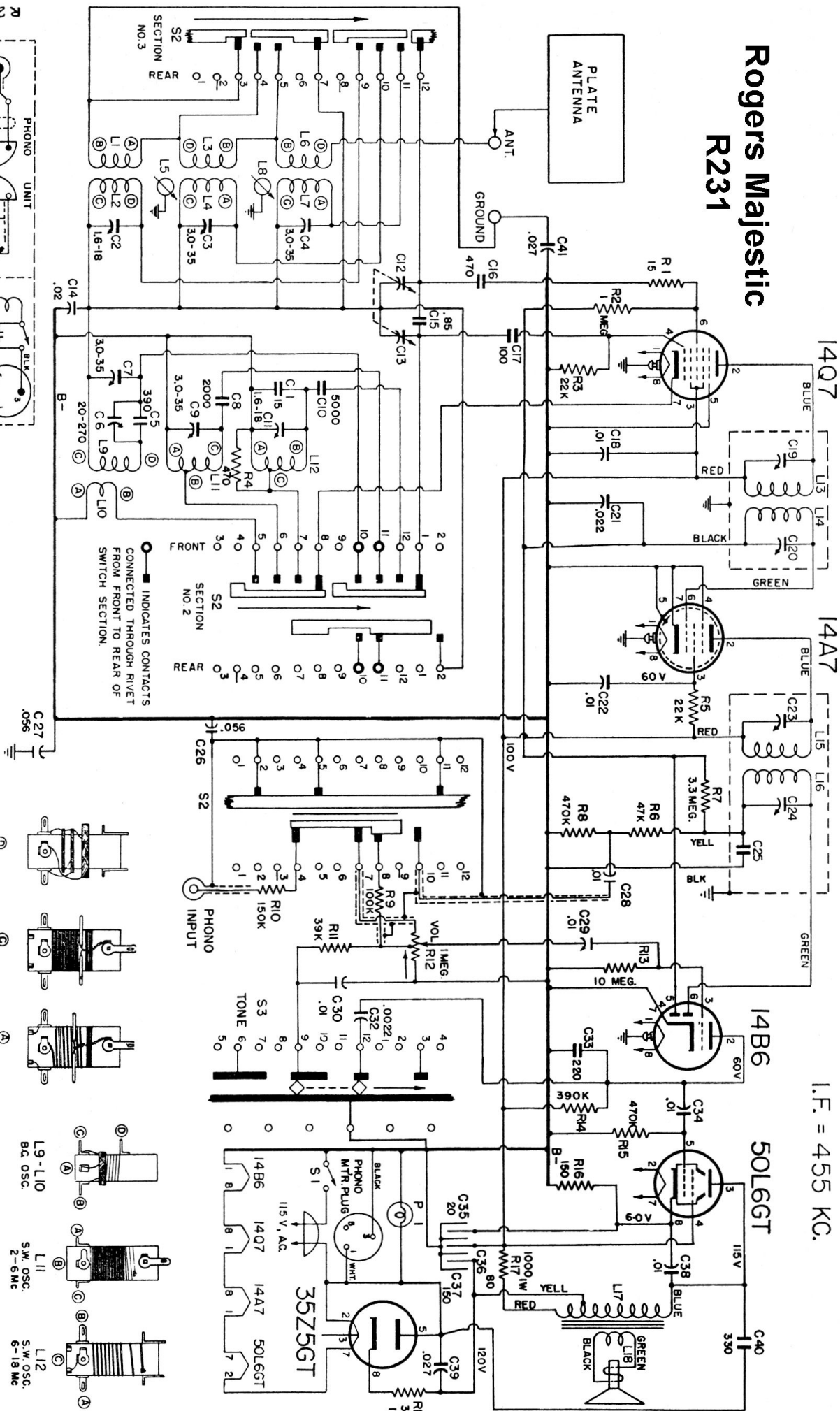


L	1,2,3,4,5,6,7,8	9,10,11,12,13,14	15	16						17	18									
C	1	2,3,4,11,16,12,13,14,15,17,7,10	8,9,15,6,11,8,19	21	20	22	23,27,26	24	25	28	29	30	32	42	33	34	35,36,37	38	40	39
R	1	2	3		4	5		7	6	8		9,10,11	12	13		14	15		16	

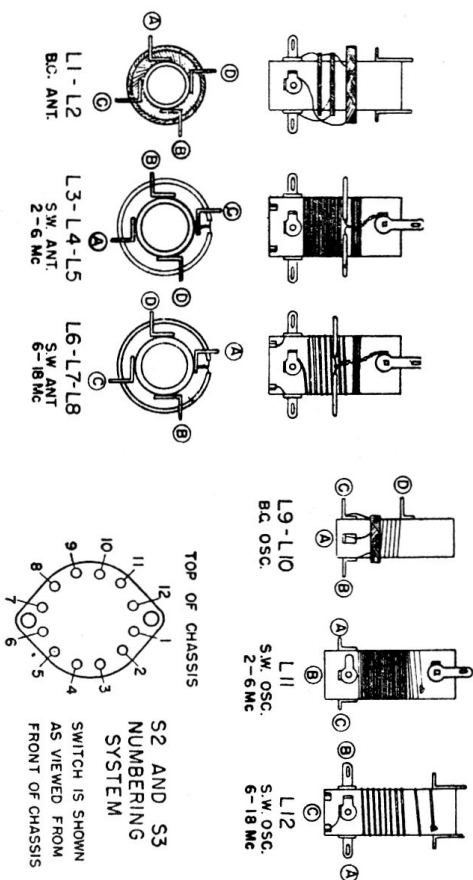
**Rogers Majestic
R231**

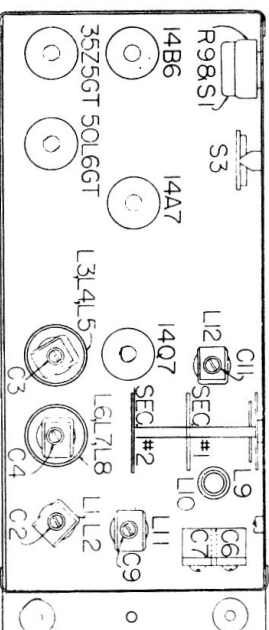
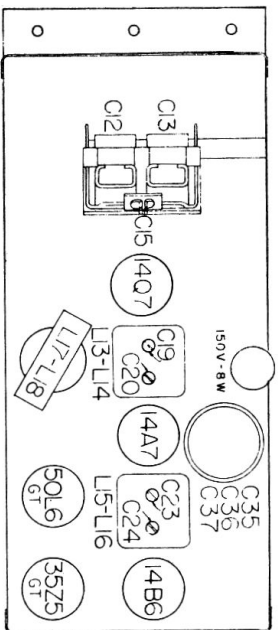


1.F. = 455 KC.

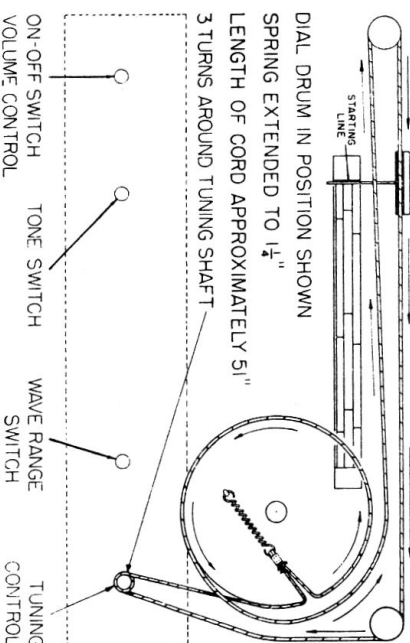
SCREW ON REAR OF RADIO CHASSIS

ARROW — ON POTENTIOMETER AND SWITCHES INDICATES CLOCKWISE ROTATION OF SHAFT AT SWITCH SECTIONS ARE SHOWN IN THE EXTREME COUNTER CLOCKWISE POSITION OF SWITCH (S2 IS IN THE PHONOGRAPH POSITION, S3 IS IN THE RESTRICTED TONAL RESPONSE POSITION). ALL VOLTAGES MEASURED TO B- WITH A 20,000 OHMS PER VOLT METER, WITH S2 IN A RADIO POSITION AND NO SIGNAL APPLIED. TEST VOLTAGE =117 V., 25-60 CY. ALL RESISTANCE VALUES ARE INDICATED IN OHMS, K=1000 OHMS, M=1,000,000 OHMS. CAPACITOR VALUES, 10^{-1} — 10^{-6} , SHOWN IN MICRO-MICROFARADS, 10^{-6} — 10^{-9} SHOWN IN MICRO FARADS.





ALIGN DIAL POINTER WITH START LINE OF ALIGNMENT SCALE
 POINTER SHOWN AT LOW FREQUENCY END OF DIAL
 GANG CONDENSER AT MAXIMUM CAPACITY (CLOSED)



RECORD CHANGER: Model 2508 ALIGNMENT NOTES

NOTE A — After completing operation 2, leave the signal generator on C12 and carefully readjust C24 and C28.

NOTE B — After completing operation 3, then repeat operation 4.

NOTE C — Unscrew oscillator trimmer approximately 3 turns from tight. Then turn adjustment clockwise until the first output peak is obtained. Make adjustments using the peak. Rock the tuning capacitor slowly back and forth while adjusting antenna trimmer.

NOTE D — Adjust position of loop with a non-metallic rod. Return to previous operation and carefully adjust antenna trimmer.

ALIGNMENT PROCEDURE AND EQUIPMENT CONNECTIONS:

SIGNAL GENERATOR:
 Allow a sufficient length of time after the generator has been turned on for it to become thermally stable before making any tests. Always be sure to use the specified capacitor or resistor in series with the signal generator output lead connections as listed on the alignment procedure chart. Connect the return lead of the signal generator to the B— (terminal No. 5 of the 14Q7 tube socket) through a .05 mf capacitor. Do not connect a grounded lead to B—.

OUTPUT INDICATOR:

If a power output meter is used, adjust it for 4 ohms impedance and connect it across the secondary of the output transformer in place of the speaker voice coil. Do not exceed 500 milliwatts output during alignment. If an a-c voltmeter is used connect it across the voice coil with the speaker connected and do not exceed 1.3 volts during alignment. As the reading of the test meter increases with alignment, regulate the signal generator attenuator to keep the output below the above limits.

RECEIVER:

Turn the volume control to the full on (clockwise) position and set the tone switch to position No. 2. With the gang tuning capacitor fully closed, adjust the dial pointer to correspond to the "start" mark on the alignment scale.

ALIGNMENT PROCEDURE

Operation Steps	SIGNAL GENERATOR			RECEIVER		
	Output Connections to Receiver	Frequency	Range Switch	Tuning Capacitor	See Notes	Adjust in stated order for Maximum Output
1	To 14A7 Control grid (6) through .05 mfd capacitor	455 kc.	Pos. 2	Min.		2nd I.F. Trimmers C24, C23
2	To stator of C12 through .05 mfd capacitor	455 kc.	Pos. 2	Min.	A	1st I.F. Trimmers C20, C19
3	To Antenna Contact through 100 mmf capacitor*	1600 kc.	Pos. 2	1600 kc.		B.C. Osc. Trimmer C7 B.C. Ant. Trimmer C2
4	To Antenna Contact through 100 mmf capacitor*	600 kc.	Pos. 2	600 kc.	B	B.C. Osc. Padder C6
5	To Antenna Contact through 400 ohms resistor*	5 Mc.	Pos. 3	5 Mc.	C	S.W. Osc. Trimmer C9 S.W. Ant. Trimmer C3
6	To Antenna Contact through 400 ohms resistor*	2.4 Mc.	Pos. 3	2.4 Mc. approx.	D	Loop L5 on S.W. Ant. Coil (adjust loop position)
7	To Antenna Contact through 400 ohms resistor*	17 Mc.	Pos. 4	17 Mc.	C	S.W. Osc. Trimmer C11 S.W. Ant. Trimmer C4
8	To Antenna Contact through 100 ohms resistor*	6 Mc.	Pos. 4	6 Mc. approx.	D	Loop L8 on S.W. Ant. Coil (adjust loop position)

* or a standard dummy antenna with a 200 mmf condenser in series.

TUBE SOCKET VOLTAGES

Pin	14Q7	14A7	14B6	50L6GT	35Z5GT
1	24 a.c.	36 a.c.	12 a.c.	—	—
2	100	100	60	84 a.c.	117 a.c.
3	100	60	—	115	90 a.c.
4	—	0	0	100	120
5	0	0	0	—	117 a.c.
6	—	—	—	120	0 a.c.
7	—	0	—	36 a.c.	84 a.c.
8	12 a.c.	24 a.c.	0 a.c.	6.0	122

All voltages measured to B— with a 20,000 ohms per voltmeter, with the Phono-Radio Switch in the radio position and no signal applied. All voltages are D.C. positive except where noted. Test voltage = 117 volts, 25/60 cycles. The readings may vary $\pm 10\%$.