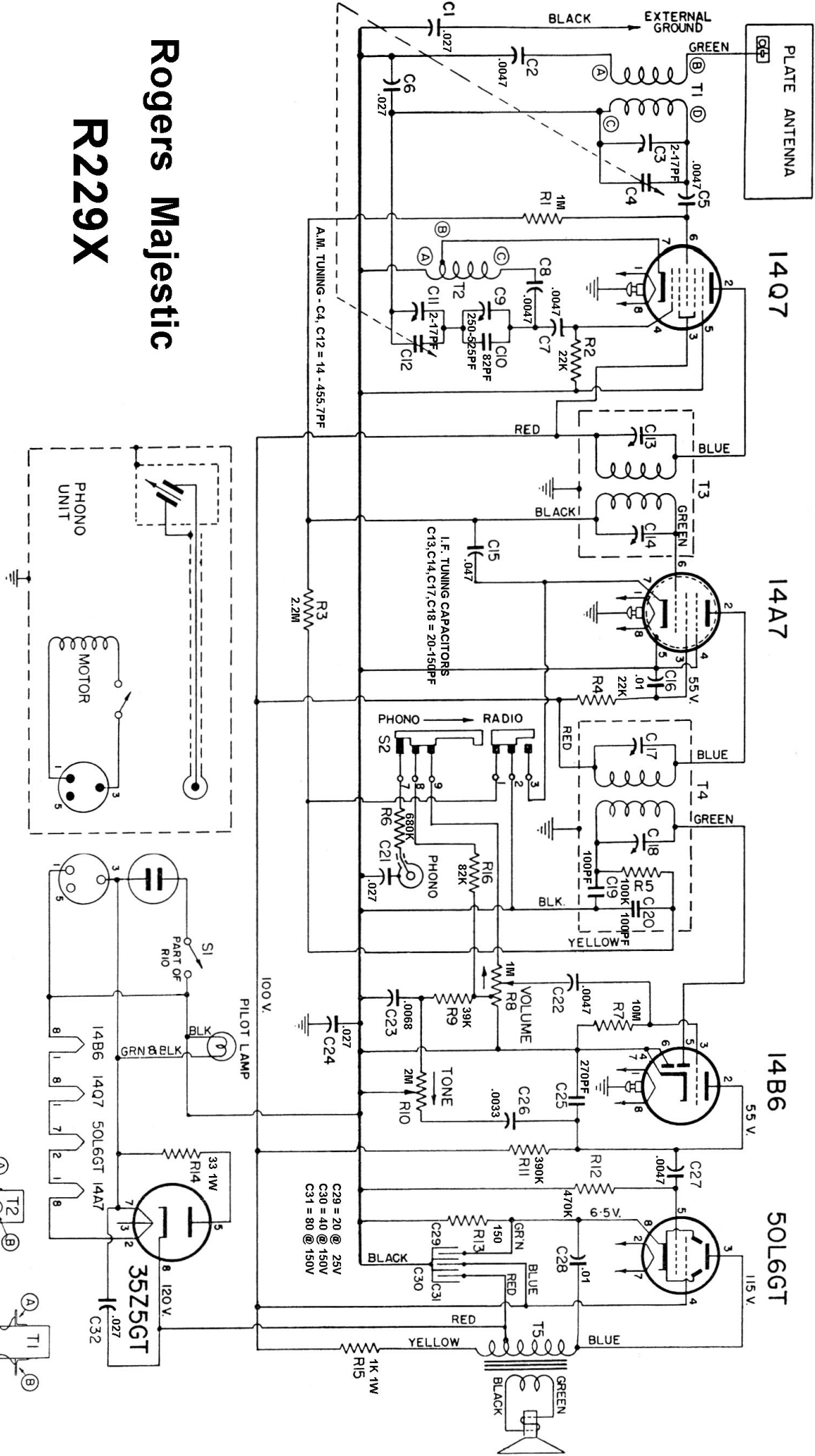


C	1	2	6	3	4	5	7,8,9,10,11,12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	31	32	28	29	30
R					1		2		3		4		6	5	16		7	8	9	10	11	12	13	14			15

Rogers Majestic

R2229X



A.M. TUNING - C4, C12 = 14 - 455.7 PF

I.F. TUNING CAPACITORS
C13, C14, C17, C18 = 20-150 PF

C29 = 20 @ 25V
C30 = 40 @ 150V
C31 = 80 @ 150V

ALIGNMENT OF R229X RECEIVER

EQUIPMENT REQUIRED

- Signal Generator:** Capable of supplying modulated frequencies from 450 kc. to 1800 kc.
- Output Indicator:** A power output meter or a high resistance A.C. voltmeter.
- Line Isolating Transformer:** A 115 volt, 25-60 cycle, 1 to 1 ratio transformer.

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 tests. Always be sure to use the specified capacitor in series with the signal generator output lead connections as listed in the alignment procedure chart. Connect the return lead of the signal generator to the Ground lead (black) of the receiver. **Do not connect a grounded lead to B—unless a line isolating transformer is used.**

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 AC voltmeter is used connect it across the voice coil (speaker connected) and do not exceed 1.5 volts during alignment. As the reading on the test meter increases with alignment, regulate the signal generator attenuator to keep the output within the limits specified above.

Receiver: With the Phono-Radio switch in the radio position turn the volume control to the maximum (full clockwise) position and set the tone control to the treble (full counter clockwise) position. With the gang tuning condenser fully closed, adjust the dial pointer to the alignment mark located under the first figure 5 at the low frequency end of the dial scale.

ALIGNMENT PROCEDURE

SIGNAL GENERATOR			RECEIVER		
Operation Steps	Connections to Receiver	Frequency	Tuning Capacitor	See Notes	Adjust in Stated Order for Maximum Output
1	To 14A7 Control grid (6) through .05 mfd. capacitor	455 kc.	Min.		2nd I.F. Trimmers C18-C17
2	To Stator of C4 through .05 mfd. capacitor	455 kc.	Min.	A	1st I.F. Trimmers C14-C13
3	To Antenna Contact through 100 mmf. capacitor	1600 kc.	1600 kc.		Oscillator Trimmer C11 Antenna Trimmer C3
4	To Antenna Contact through 100 mmf. capacitor	600 kc.	600 kc.	B	Oscillator Padder C9

NOTE. A: After completing operation No. 2, carefully readjust C18-C17 for maximum output.

NOTE B. After completing operation No. 4, return to 1600 kc. and repeat operation 3, then repeat operation 4.

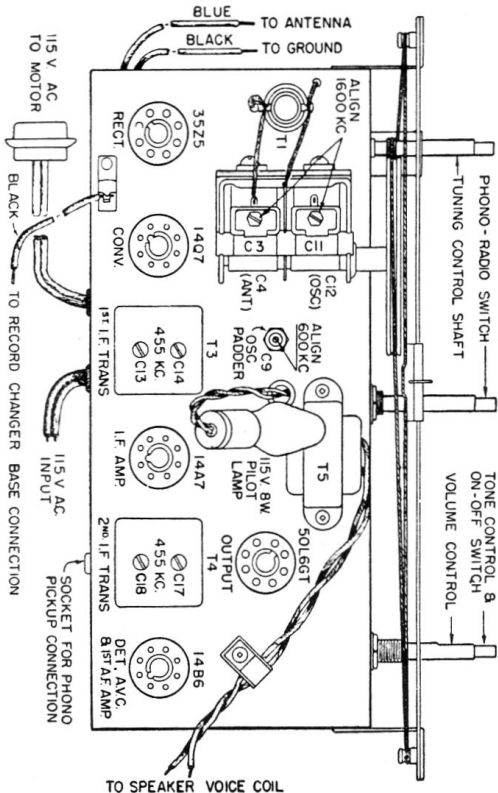
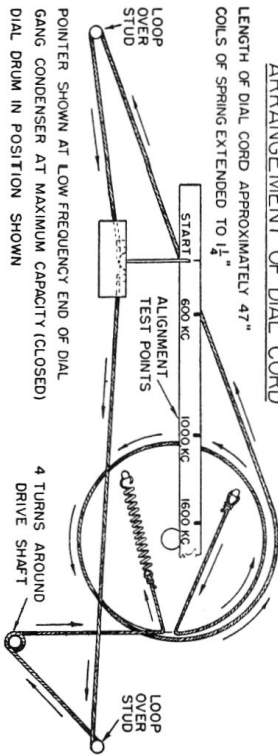
TUBE SOCKET VOLTAGES

Pin	14Q7	14A7	14B6	50L6GT	35Z5GT
1	24 AC	72 AC	12 AC	72 AC	84 AC
2	100	100	55	115	90 AC
3	100	60	—	100	—
4	—	0	0	—	117 AC
5	—	0	—	100	—
6	—	—	0	24 AC	117 AC
7	0	0	0 AC	See Schematic	120
8	12 AC	84 AC			

All voltages measured to B—with a 20,000 ohms per volt meter, 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. Due to line voltage fluctuations the reading may vary ±10%.

Note: Tuning drum rotated 90° counterclockwise on some receivers.

ARRANGEMENT OF DIAL CORD



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R229X