

Rogers Majestic R103A - Philips F4C11A

ALIGNMENT PROCEDURE

The radio output is fed to both channels and either may be used during alignment. Connect a 4 Ω watt-meter, or 4 Ω dummy load and voltmeter, to one channel and a 4 Ω dummy load to the other. Do not exceed 500 milliwatts or 1.4 volts output during alignment. Always be sure to use the specified capacitor in series with the output lead of the generator as indicated below. Connect the return lead of the signal generator to the ground terminal of the receiver.

I. F. AMPLIFIER

1. Connect the direct output of the signal generator through a 0.05 μ F capacitor to the grid (pin #1) of the 6BA6.
2. Apply 455 Kc. input signal. Adjust L6 and L7 to obtain maximum output.
3. Connect the output of the signal generator through a 0.05 μ F capacitor to the lug of the rear section of the gang.
4. Apply 455 Kc. input signal. Adjust L4 and L5 to obtain maximum output.

BROADCAST BAND

1. Connect the output of the signal generator through a 200 μ F capacitor in series with a standard dummy antenna, to the antenna terminal of the receiver.
2. Apply a 1500 Kc. input signal. Turn the tuning knob until the pointer is a 1500 on the dial scale. Adjust C8 and C4 for maximum output.

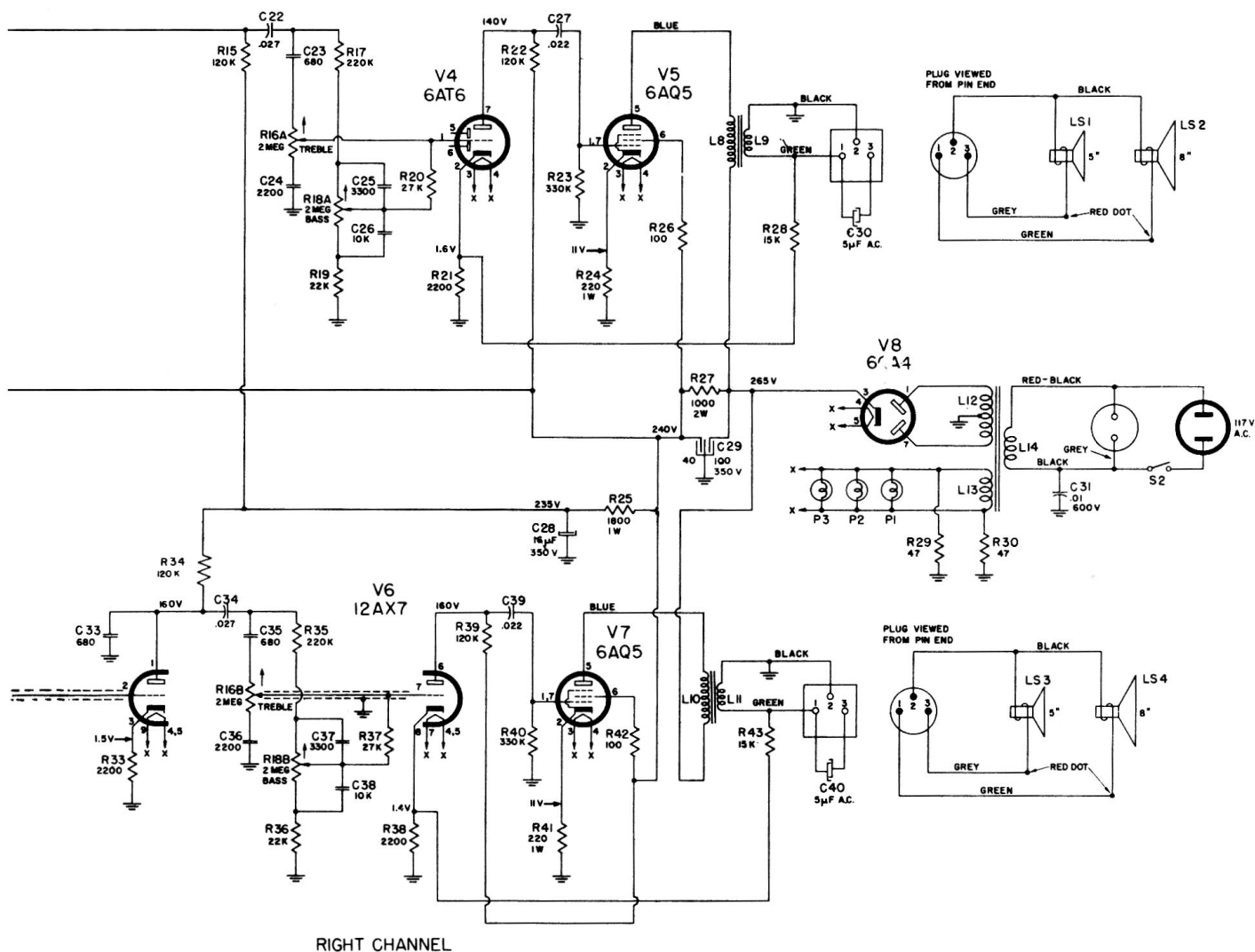
ALIGNMENT NOTES

NOTE "A": After operation 2 has been completed, do not make any further adjustments to L6 and L7.

NOTE "B": Set dial pointer to 1500 Kc. mark and then tune in signal by adjusting the oscillator trimmer capacitor C8.

| | | |
|---------------------|---|---------|
| L 1 | Coil antenna and rod ass'y. | 060-330 |
| L 2, 3 | Coil ass'y., B.C. osc. | 070-288 |
| L 4, 5 | Transformer I. F. (incorporating C10 & 11; 14 & 15) | 060-278 |
| L 6, 7 | | |
| L 8 9, } 10 11 } | Transformer Output | 050-266 |
| L12, 13, 14 | Transformer Power 60 c/s. | 050-390 |
| LS 1, 3 | Loudspeaker 5" PM, AD1500 | 041-240 |
| LS 2, 4 | Loudspeaker 8" PM, AD3800 | 041-194 |
| S 1 | Switch Function | 080-217 |
| S 2 | Part of R12 | |
| P 1, 2, 3 | Lamps 6-8V, 0.25 amp. clear | 643-003 |

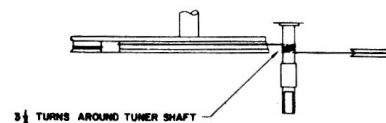
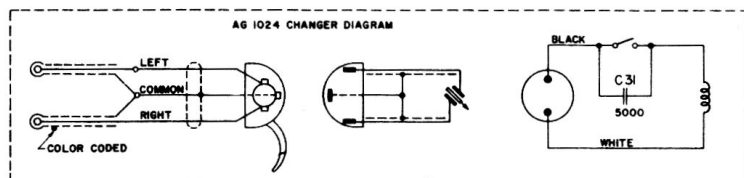
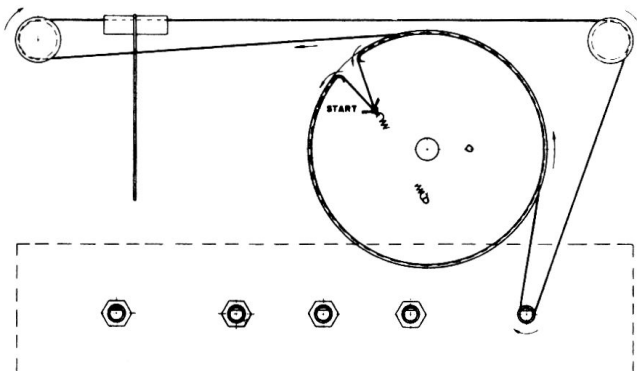
LEFT CHANNEL



NOTES:

RESISTORS 1/4 W $\pm 10\%$ UNLESS OTHERWISE SHOWN.
 ARROW \rightarrow INDICATES CLOCKWISE ROTATION OF
 SHAFTS OF POTENTIOMETERS AND SWITCHES
 CAPACITOR VALUES μ SHOWN IN MICRO MICRO FARADS,
 μ SHOWN IN MICRO FARADS.
 ALL D.C. VOLTAGES MEASURED TO CHASSIS, WITH
 A 20 000 OHMS PER VOLT METER.

GANG CONDENSER AT MAXIMUM CAPACITY (CLOSED)
 DIAL DRUM IN POSITION SHOWN
 POINTER AT LOW FREQUENCY END OF DIAL
 COILS OF SPRING EXTENDED TO $1\frac{1}{2}$ "
 LENGTH OF DIAL CORD APPROX 54"



Rogers Majestic R103A
 Philips F4C11A