

## Equipment Required:

ALIGNMENT OF RECEIVER

Signal Generator: Capable of supplying modulated frequencies from 450 kc to 18.5 Mc

A power output meter or a high resistance A.C. Voltmeter

# Alignment Procedure and Equipment Connections

Signal Generator: Allow a sufficient length of time after the come thermally stable before making any tests. Always be sure to u the signal generator output lead connections, as listed on the alig lead of the signal generator to the ground terminal of the receiver. e after the generator has been turned on for it to bese sure to use the specified capacitor in series with on the alignment procedure chart. Connect the return

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 with the speaker connected and do not exceed 1.5 volts during alignent. As the reading of the test meter increases with alignment, regulate the signal generator attenuator to keep the output below the above limits.

Turn the volume control to the fullor (clockwise) position and the tone control to the treble (full counter-clockwise) position. With the gang tuning condenser fully open adjust the dial pointer to the alignment mark on high frequency end of the alignment scale on the dial background.

OPERATION STEPS ٢ w N through 100 uuf capacitor o through 100 unF capacitor Fo To lug 5 of SWI, Section 3 through .05 uF capacitor through 400 ohms resistor To 6BA6 Control Grid (1) through .05 uF capacitor Antenna Contact Antenna Contact Antenna Contact Antenna Contact OUTPUT CONNECTIONS
TO RECEIVER SIGNAL GENERATOR \* \* FREQUENCY 1600 600 455 455 Kc MC KC Kc Kc Pos. Pos. RANGE SWITCH Pos. Pos. Pos. N N N N TUNING CAPACITOR 1600 Min. Min. 600 5 K K KC RECEIVER A a щ S.W. B.C. B.C. lst I.F. Transformer Ll2 Top, Ll1 Bottom ADJUST IN STATED ORDER FOR MAXIMUM OUTPUT 2nd I.F. Transformer Ll4 Bottom, Ll3 Top Osc. Osc. Ant. Ant. Trimmer Padder C16 Trimmer C14
Trimmer C4 Trimmer Cls Trimmer C3 CT2

or a standard dummy antenna with a 200 unF condenser in series.

through

00

ohms resistor

\*

16

K

Pos.

4

16

š

a

After operation 2 has been completed, do not make any further adjustments to L14 and L13

Note B: The metal base plate of the chassis must be in position for operations 3, 4, 5 and 6.

Note C: After operation 4 has been completed, return to 1600 kc and repeat operation 3, then repeat operation 4.

Note D: Unscrew oscillator trimmers approximately 3 turns from tight. first output peak is obtained. Make adjustment back and forth while adjusting antenna trimmer. proximately 3 turns from tight. Then turn adjustment clockwise until Make adjustments using this peak. Rock the tuning capacitor slowly

Model R290 is a nine tube superheterodyne receiver (including tuning indicator) combined with an automatic cord changer phonograph designed for use on AC power only. Three tuning ranges cover from 540 kc to 18.1 Mc. Antenna and Ground

side antenna is necessary. A secure ground connection should be made to a cold water pipe or to a grounding plate buried in damp ground. of metal foil on the inside of the back cover provides a built in antenna. Record Changer For optimum results, an

The record changer is a Webster, Model 100, three speed automatic unit with a special Astatic LQDIM turn-or crystal cartridge. For service data on the record changer refer to the Websten Model 100 Record Changer

## Wave Range Switch

The schematic diagram shows each section of this switch in a straight line form. The short stator care represented as solid squares; the long contacts as solid rectangles; and the rotor contacts as bar sections are shown in the extreme counterclockwise (phonograph) position of the switch. As the switch clockwise the rotor contacts move upwards through the second, third and fourth wave range switch position didicated above. The exact location of each stator is shown on a front view drawing of a switch wafer diagram The short stator contacts tor contacts as bars. All wafer on the rotates

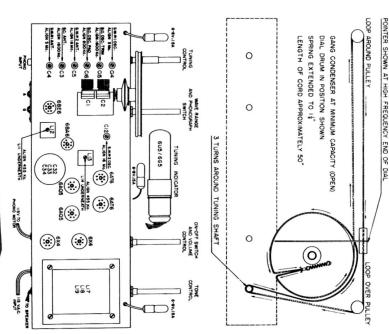
### TO REMOVE CHASSIS

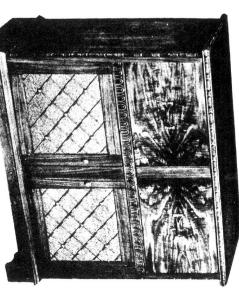
- 1984 Disconnect plug from AC line socket.

- Remove control knobs (push-on type).
  Remove back cover and disconnect leadsfrom chassis A and G terminal panel.
  Disconnect "France and Disconnect chassis bisconnect "France and G terminal panel".
- Disconnect phonograph pickup and power cables.

- Disconnect speaker leads.
- 76.5
- See that the receiver chassis shipping screws have been removed from bottom of shelf. Remove two wood screws holding chassis mounting plates to shelf.

  Slide out chassis complete with mounting plates.





Rogers Majestic R290