

GENERAL ELECTRIC

RADIO **SERVICE DATA** **FOR** **MODELS 110 & 111** **ELECTRICAL CIRCUIT ALIGNMENT**

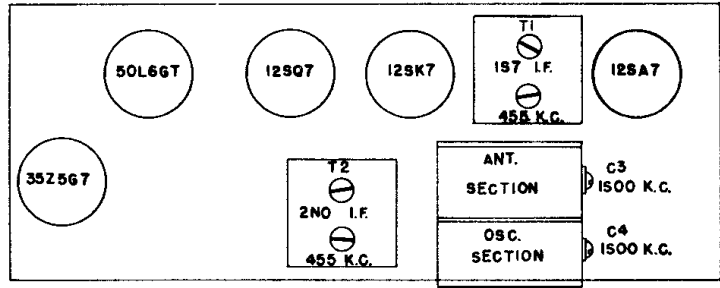
ALIGNMENT FREQUENCIES:

R-F.....	1500 kilocycles
I-F.....	455 kilocycles

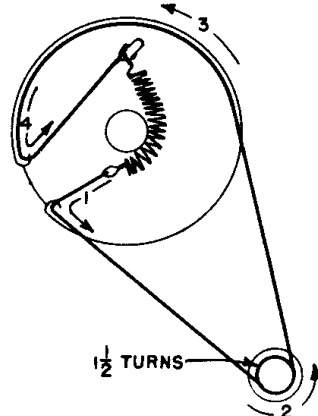
EQUIPMENT REQUIRED:

1. Line isolation transformer.
2. A-c output meter, 1 1/2 volts full scale.
3. Test oscillator with tone modulation.
4. 0.05 mf. paper capacitor.
5. 50 mmf. mica capacitor.
6. Insulated screwdriver.

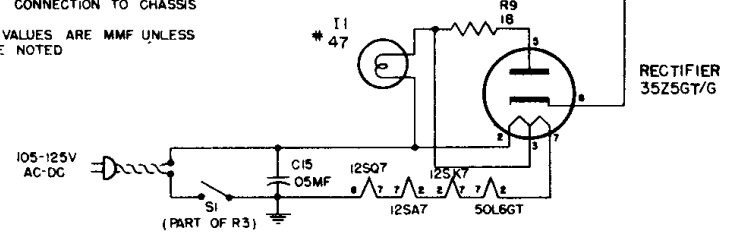
PROCEDURE—GENERAL. 1. Remove chassis from cabinet. Turn pointer as far counterclockwise as possible. The pointer should set horizontal. If it doesn't, remove the dial window and slip the pointer on its shaft until it is horizontal.



11 5/8" APPROX.



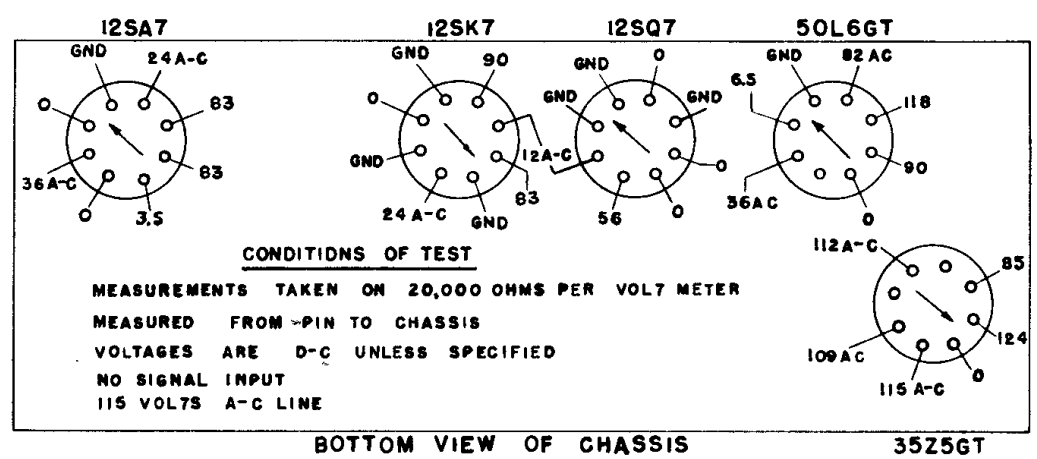
⏏ INDICATES CONNECTION TO CHASSIS
 CAPACITY VALUES ARE MMF UNLESS OTHERWISE NOTED



2. Connect the line cord to the line through an isolation 1:1 ratio transformer.
3. Connect output meter across loudspeaker voice coil terminals.
4. Keep radio volume control at maximum and attenuate the test oscillator signal output so that the output meter reading never exceeds 1 volt.
5. For R-F alignment, the Beam-a-scope assembly should be connected and dressed in exactly the same location it would occupy if installed in the cabinet.
6. Connect the capacitor as listed in column 2, between the output "high side" of the test oscillator and the point of input specified.

ALIGNMENT CHART

Step	Connect Test Oscillator to	Test Oscillator Setting	Pointer Setting on Radio	Adjustment for Maximum Output
1	12SQ7 grid in series with 0.05 mf. cap.	455 kc	1500 kc	2nd I-F trans. trimmers
2	12SA7 grid in series with 0.05 mf. cap.	455 kc	1500 kc	1st and 2nd I-F trans. trimmers
3	Ant. post in series with 50 mmf.	1500 kc	1500 kc	C4 (osc.)
4	Ant. post in series with 50 mmf.	1500 kc	1500 kc	C3 (R-F)



CONDITIONS OF TEST

MEASUREMENTS TAKEN ON 20,000 OHMS PER VOLT 7 METER
 MEASURED FROM -PIN TO CHASSIS
 VOLTAGES ARE D-C UNLESS SPECIFIED
 NO SIGNAL INPUT
 115 VOLTS A-C LINE

BOTTOM VIEW OF CHASSIS

35Z5GT