

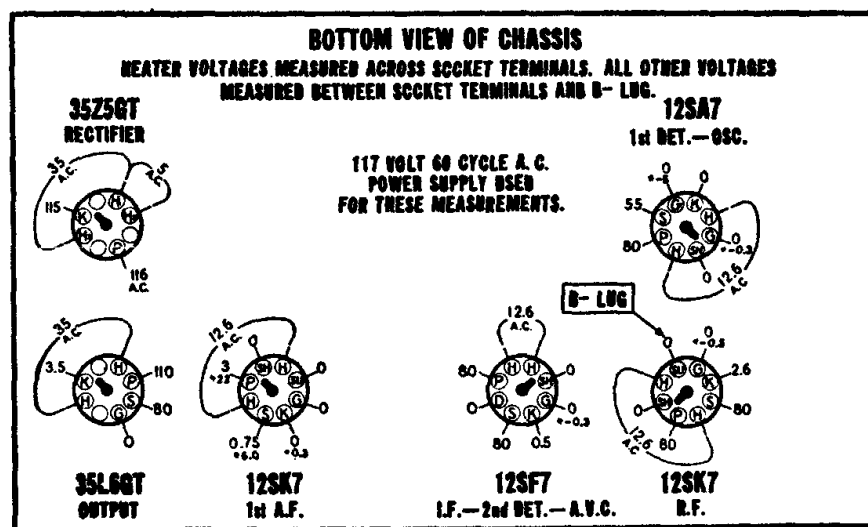
DIA-GRAM NO.	PART NO.	DESCRIPTION
CONDENSERS		
3A-3B-3C	502123	Condenser variable gang (with drum)...
7	502159	Condenser mica -50 Mmfd. 500 Volt...
9	502155	Condenser .1 Mfd. 200 Volt...
10	502158	Condenser .2 Mfd. 200 Volt...
12	502262	Condenser .25 Mfd. 200 Volt...
19	502160	Condenser mica -110 Mmfd. 500 Volt...
21	502453	Condenser .002 Mfd. 400 Volt...
22	502470	Condenser .0008 Mfd. 400 Volt...
27	502160	Condenser Mica -110 Mmfd. 500 Volt...
28	502153	Condenser .05 Mfd. 200 Volt...
31	502156	Condenser .004 Mfd. 400 Volt...
34	502151	Condenser .01 Mfd. 400 Volt...
35A-35B	500256	Condenser electrolytic A-40 Mfd. 150 Volt B-20 Mfd. 150 Volt
38	502152	Condenser .02 Mfd. 400 Volt...
41	502157	Condenser .05 Mfd. 400 Volt...
RESISTORS		
4	502140	Resistor carbon 390 Ohms 1/4 Watt...
6	502130	Resistor carbon 22,000 Ohms 1/4 Watt...
11	502133	Resistor carbon 220,000 Ohms 1/4 Watt...
13	502291	Resistor carbon 4700 Ohms 1/4 Watt...
15	502264	Resistor carbon 47 Ohms 1/4 Watt...
16	502269	Resistor carbon 3.3 Meg. 1/4 Watt...
18	502131	Resistor carbon 47,000 Ohms 1/4 Watt...
20A-20B	502145	Volume control 500,000 Ohms (with switch)
24	502136	Resistor carbon 10 Meg. 1/4 Watt...
25	502135	Resistor carbon 2.2 Meg. 1/4 Watt...
26	502128	Resistor carbon 2200 Ohms 1/4 Watt...
29-30	502133	Resistor carbon 220,000 Ohms 1/4 Watt...
32	502134	Resistor carbon 470,000 Ohms 1/4 Watt...
33	502138	Resistor carbon 130 Ohms 1/4 Watt...
37	502469	Resistor carbon 1500 Ohms 1 Watt...
42	502574	Resistor carbon 33 Ohms 1/2 Watt...

SOCKET VOLTAGES

Measured with voltmeter having sensitivity of 1000 ohms per volt except where indicated by (*).

VOLUME ON FULL WITH NO SIGNAL

DIAL TUNED TO 540 KC.



REAR OF CHASSIS

*—Measured with vacuum tube voltmeter

STEWART-WARNER
MODELS 9002-A, B, P, R.

STEWART-WARNER MODELS 9002-A, B, P, R.

Remove chassis and loop antenna from cabinet. Reconnect loop to chassis and space it approximately same distance from chassis as when installed in cabinet.

Note that there are four calibrating lines stamped into the metal dial frame. When gang condenser is fully meshed, dial pointer should be in the position indicated by first line at the left. If it is set incorrectly, release pointer clip on dial cord and reposition pointer.

Connect an output meter across the speaker voice coil or from plate of 35L6GT tube to B— through a .1 Mfd. condenser (see voltage chart for convenient B— connection).

Connect ground lead from signal generator to B— through a .25 Mfd. condenser.

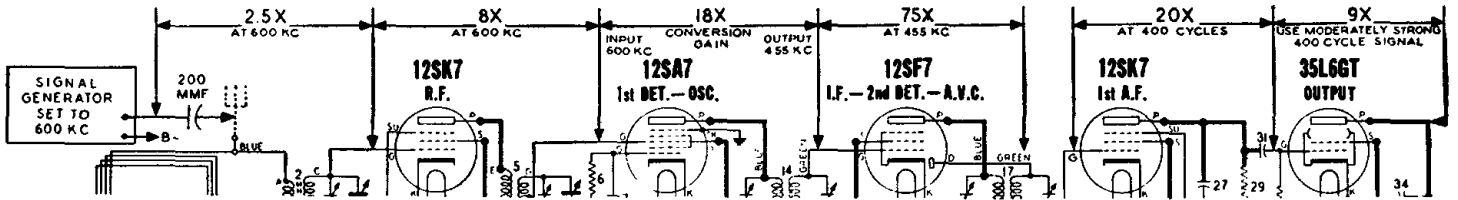
Set volume control at maximum volume position and use a weak signal from the signal generator.

APPROXIMATE STAGE GAIN DATA

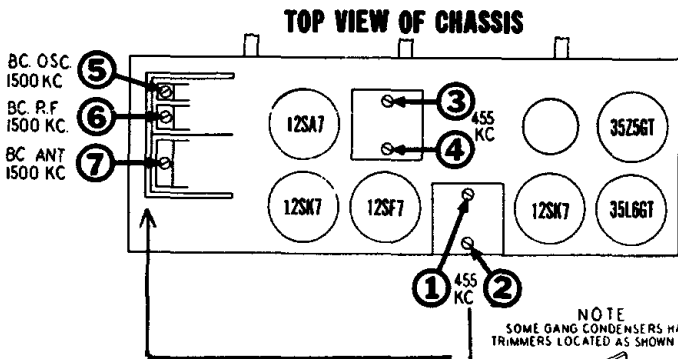
A vacuum tube voltmeter may be used for audio gain measurements. R.F. gains can be measured with a "channel" type instrument containing a tuned and calibrated R.F. amplifier. Observe following precautions:

1. For all gain measurements connect signal generator as shown. Use 600 KC. signal with 400 cycle modulation (use nearby frequency if local station interferes.)
2. For R.F. and I.F. measurements connect negative terminal of a 3 volt battery (two 1½ volt cells in series) to A.V.C. lead and positive terminal to B—. This provides a definite operating point.
IMPORTANT: Disconnect battery when measuring audio stage gains.
3. Be sure radio is carefully tuned to generator signal (use weak signal for sharp tuning.)
4. When using a "channel" type instrument carefully tune it for maximum output at desired frequency before making measurements.

The R.F. and I.F. stage gains shown below are less than under normal operating conditions due to the use of 3 volts fixed bias in order to establish a definite operating point. Therefore, these values are not intended to indicate the full capability of a stage.



DUMMY ANT. IN SERIES WITH SIGNAL GENERATOR	CONNECTION OF SIG. GENERATOR OUTPUT TO RECEIVER	SIGNAL GENERATOR FREQUENCY	RECEIVER DIAL SETTING	TRIMMER NUMBER	TRIMMER DESCRIPTION	TYPE OF ADJUSTMENT
200 MMFD. Mica Condenser	Control Grid of 12SA7	455 KC	Any point where it does not affect the signal	1-2	2nd I.F.	Adjust for maximum output. Then repeat adjustment.
				3-4	1st I.F.	
200 MMFD. Mica Condenser	External Antenna Clip on Loop Frame	1500 KC	Set pointer to 1500 KC reference line stamped into metal dial plate (first line at the right)	5	Broadcast Oscillator (Shunt)	Adjust for maximum output.
200 MMFD. Mica Condenser	External Antenna Clip on Loop Frame	1500 KC	Tune to 1500 KC generator signal	6	Broadcast R.F.	Adjust for maximum output.
200 MMFD. Mica Condenser	External Antenna Clip on Loop Frame	1500 KC	Tune to 1500 KC generator signal	7	Broadcast Antenna	Adjust for maximum output.



NOTE
SOME GANG CONDENSERS HAVE
TRIMMERS LOCATED AS SHOWN HERE

BC OSC 1500 KC (5)

BC RF 1500 KC (6)

BC ANT 1500 KC (7)

DIAL AND POINTER DRIVE CORD ARRANGEMENT

To string dial cord, set gang condenser to fully meshed position and use following parts:

161384 Tension Spring
114955 Clip on end of cord
117057 Cord (55 inches)

