

INTERMEDIATE FREQUENCY 465 K. C. 552

MODEL 501

Series A

Part No. Description

RESISTORS

13021	20M ohm—1/3 w.
13012	50M ohm—1/3 w.
13017	10M ohm—1/3 w.
13038	2 megohm—1/3 w.
13038	2 megohm—1/3 w.
101116	1 megohm volume control
13019	1 megohm—1/3 w.
13019	1 megohm—1/3 w.
1309	200M ohm—1/3 w.
13019	1 megohm—1/3 w.
13093	450 ohm—1/3 w.
101117	Battery Rheostat 475 ohms

CONDENSERS

10267	2 gang variable condenser
10222	Antenna section trimmer
	.05 x 200 v.
	Oscillator section trimmers
	Antenna Shorted to Ground
	Volume Control: Maximum
	Readings taken with 1000 ohm-per-volt meter

VOLTAGES AT SOCKETS

TUBE	FUNCTION	Prong No. 1	Prong No. 2	Prong No. 3	Prong No. 4	Prong No. 5	Prong No. 6	Prong No. 7	Prong No. 8
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1D7G	Converter	0	+2	+83.5	+60	-15	+83.5	0	0
1D5G	I. F. Amplifier	0	+2	+83.5	+60	0	0	0	+83.5
1H4G	2nd Detector, AVC	0	+2	0	0	0	0	0	0
1D5G	1st Audio	0	+2	+30	+11	0	0	0	+83.5
1G5G	Output	0	+2	+80	+83.5	-2.5	0	0	-6.5

The approximate current consumption is as follows:
"A"—360 ma., "B"—15 ma.

ALIGNING I.F. TRANSFORMERS: (465 K.C.):

Part No. 108112. Output I.F. Transformer.

Part No. 108111. Input I.F. Transformer.

These I.F. transformers have two adjustments, both of which are accessible from the top of chassis (see Fig. 1).

1. With volume control full on (the extreme right of its rotation), and with the variable condenser set to approximately 1400 kilocycles, make the following adjustments:

(a) Connect external oscillator set at 465 kilocycles, in series with .1 mfd condenser, to the control grid cap of the type 1D5G I.F. tube, and adjust the output I.F. transformer (No. 108112) to resonance.

(b) Move oscillator output clip from grid of 1D5G to grid of 1D7G and adjust input I.F. transformer (No. 108111) to resonance.

(c) With oscillator still connected to 1D7G, readjust output I.F. transformer (108112) if necessary.

R. F. ALIGNMENT: (535-1720 K.C.)

1 With the gang condenser in its minimum capacity position, plates entirely out of mesh, connect an external oscillator in series with a 100 mmf. condenser to the antenna lead and chassis ground and make the following adjustments:

(a) With external oscillator set at 1720 kilocycles, adjust R1 oscillator trimmer to resonance. This adjustment is R2 on the top of rear section of variable gang condenser. R3 (See Fig. 1).

(b) Re-set external oscillator to 1400 kilocycles, rotate condenser, pick up oscillator signal and adjust antenna trimmer to resonance. (Top of front section of gang condenser).

(c) Check sensitivity at 600 and 1000 kilocycles.

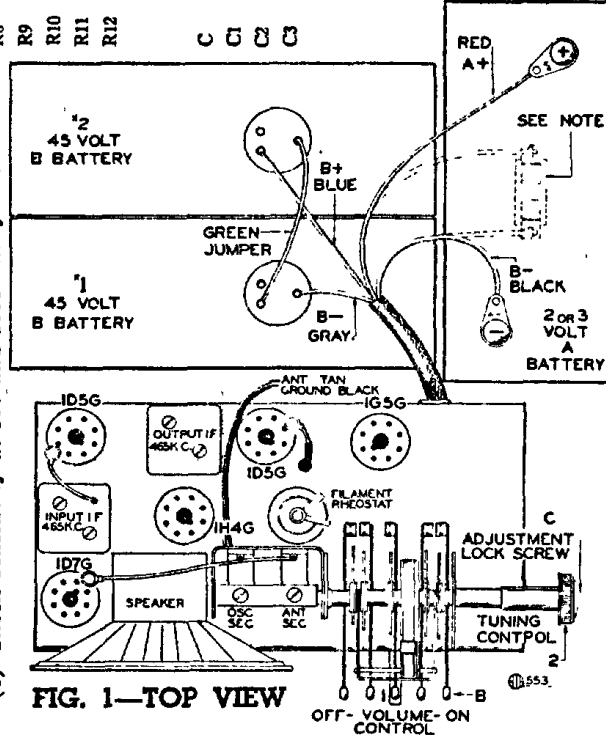


FIG. 1—TOP VIEW

PROCEDURE FOR SETTING AUTOMATIC-TUNING-LEVERS SAME AS MODEL-526

(Serial No. 197000 and up)

Part No. Description

12912	.00025 Mica.
1009	.05 x 200 v.
1295	.0001 Mica—20%.
10048	.25 x 200 v.
10011	.01 x 400 v.
1292	.0005 Mica—20%.
10011	.01 x 400 v.
11952	25 mid.—25 w. v. lytic.
10071	.004 x 600 v.
1009	.05 x 200 v.

PARTS

T1	11192	Antenna coil complete
T2	11085	Oscillator coil complete
T3	108111	Input I. F. Complete
T4	108112	Output I. F. Complete
T5	10557	Output Transformer
T6	114118	5" P. M. Speaker
S1		Double Pole—Double throw switch on volume control

Voltages taken from different points of circuit to chassis are measured with volume control full on, all tubes in their sockets and speaker connected, with a voltmeter having a resistance of 1000 ohms per volt.

All voltages as indicated on diagram are measured with a new set of batteries.