Models 1550 A, B, C, D, E & V

AC Universal Superheterodyne Radio Receiver

Specifications

Frequency Range:
.535 M.C. to 1.510 M.C.
(Standard Broadcast)

I.F.:
463 K.C.

Tubes:

Type	Position
12SA7	Converter
12SK7	I-F Amplifier
12SQ7	2nd Detector, AVC & 1st Audio Amplifier
35L6GT	Output
35Z5GT	Rectifier

Power Supply:
110-125 volts, 25-60 cy. AC.
Consumption: 30 watts

A.V.C.:
On 12SK7 I.F. and 12SA7 Converter

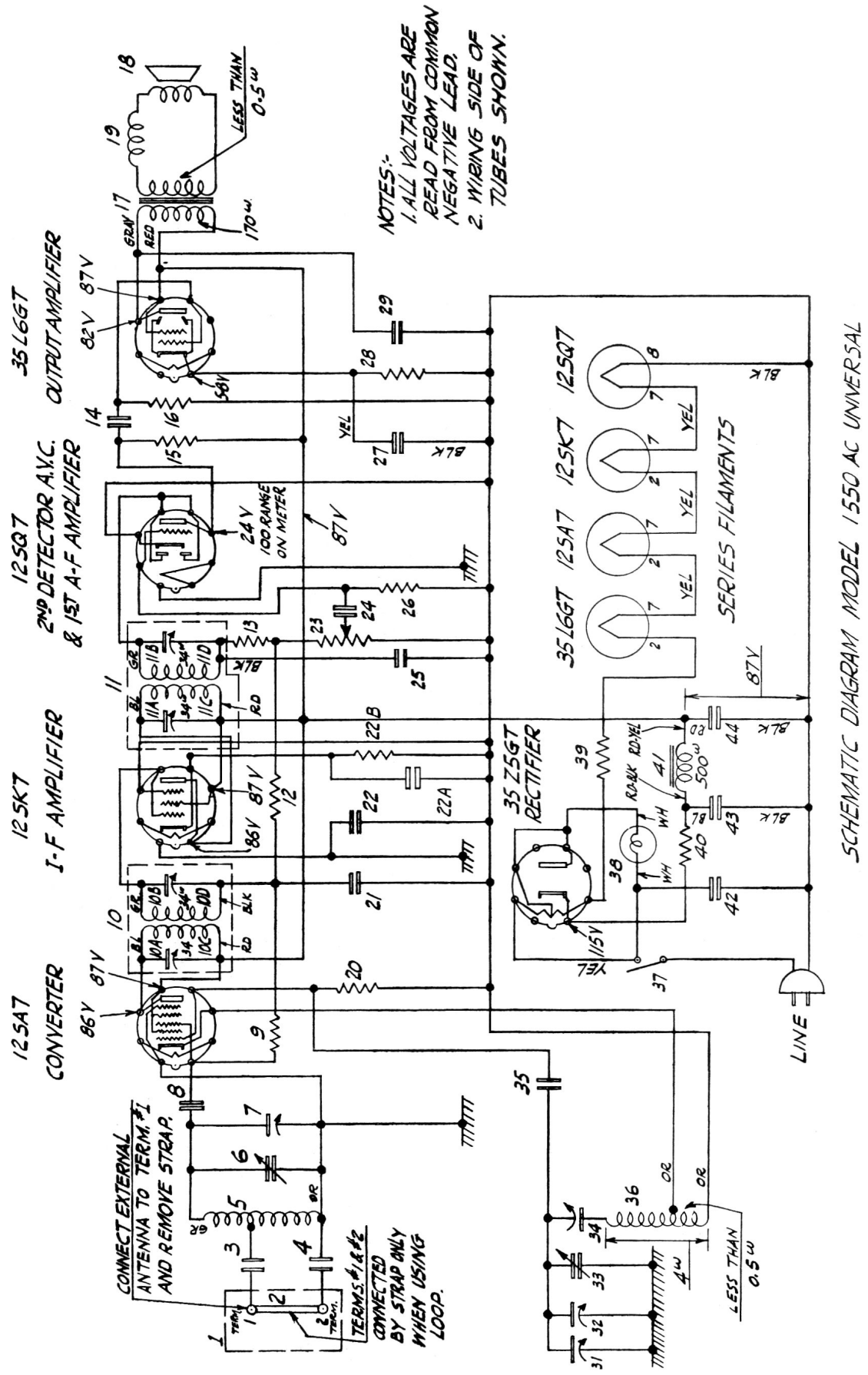
Controls:
Two; left-hand knob, volume control and on-off switch. Right-hand knob, tuning control.

Power Output:
1.5 watts.

Loudspeaker:
4" E.D.

Audio System:
Audio portion of 12SQ7 resistance-capacitance coupled to 35L6GT power output.

Antenna:
Built-in loop with provision made for use of external antenna.


NOTES:-
1. ALL VOLTAGES ARE READ FROM COMMON NEGATIVE LEAD.
2. WIRING SIDE OF TUBES SHOWN.
12SA7 CONVERTER
12SK7 I-F AMPLIFIER
12SQ7 2ND DETECTOR A.V.C. & 1ST A-F AMPLIFIER
35L6GT OUTPUT AMPLIFIER
35Z5GT RECTIFIER
35L6GT 12SA7 12SK7 12SQ7 SERIES FILAMENTS
CONNECT EXTERNAL ANTENNA TO TERM. #1 AND REMOVE STRAP.
TERMS. #1 & #2 CONNECTED BY STRAP ONLY WHEN USING LOOP.
LESS THAN 0.5 W
LINE
SCHEMATIC DIAGRAM MODEL 1550 AC UNIVERSAL

REPLACEMENT PARTS LIST

Item	Description	Part No.
1	Ant. & Ground Terminal Strip	K-3749-3
2	Metal Strap	K-3291-1
3	Capacitor: .003 mf. 400 volt	K-2228-3
4	Capacitor mica; 100 mmf.	K-1611-2
5	(Loop Antenna)	K-5572-3
6	Tuning Gang: Ant. 420 mmf. Part of	K-6130-2
7	Trimmer (on gang) 1.5-20 mmf. Part of	K-6130-2
8	Capacitor, mica: 1000 mmf.	K-1611-23
9	Resistor: 1 meg. ½ watt	K-5974-25B
10	1st I-F Trans. Assembly complete.	K-5510
10A 10B	1st I-F Trimmer	K-5688
10C 10D	1st I-F coil only	K-5511
11	2nd I-F trans. assy. complete.	K-5512-2
11A 11B	2nd I-F Trimmer	K-5688
11C 11D	2nd I-F Coil only	K-5513
12	Resistor: 2.2 meg. ½ watt	K-5974-17 B
13	Resistor: 47,000 ohms, ½ watt.	K-5974-57 B
14	Capacitor: .01 mf. 200 volt	K-2227-6
15	Resistor: .22 meg. ½ watt	K-5974-41 B
16	Resistor: .47 meg. ½ watt	K-5974-33 B
17	Output transformer assy.	K-5008-3 or K3873-10
18	Loudspeaker Assembly	K-5002-2
19	Hum Coil (not replace.) Pt. of.	K-5002-2
20	Resistor: 22,000 ohms, ½ watt.	K-5974-65 B
21	Capacitor: .05 mf. 200 volt	K-2227-8
22	Capacitor: .2 mf. 200 volt	K-2227-22
22A	Capacitor: .05 mf. 200 volt	K-2227-8
22B	Resistor: 270 ohms ½ watt	K-5975-10 B
23	Volume Control (with Sw.) (.5 meg)	K-4991-2
24	Capacitor: .01 mf. 200 volt	K-2227-6
25	Capacitor: mica: 400 mmf.	K-1611-24
26	Resistor: 10 meg., ½ watt	K-5974-1B
27	Capacitor: 20 mf. 25 volt, Part of.	K-5438-2
28	Resistor: 220 ohms, ½ watt	K-5975-12 B
29	Capacitor: .02 mf. 200 volt	K-2227-7
31	Trimmer (on gang) 1.5-20 mmf. Part of	K-6130-2
32	Trimmer (on gang) 1.5-20 mmf. Part of	K-6130-2
33	Tuning Gang: Osc. 420 mmf. Part of	K-6130-2
34	Oscillator lag, cap. 300-625 mmf.	K-3860-8
35	Capacitor mica: 50 mmf.	K-1611-1T
36	B.C. Oscillator Coil	K-5536
37	On-Off Switch, Part of	K-4991-2
38	Dial Lamp (6.3 V. 250 ma.)	K-2589-3
39	Resistor: 82 ohms, 2 watt	K-5985-22 B
40	Resistor: 33 ohms, ½ watt	K-5975-32 B
41	Loudspeaker field, 500 ohm, Pt. of.	K-5002-2
42	Capacitor: .03 mf. 400 volt	K-2228-18
43	Capacitor: 40 mf. 150 V. Part of.	K-5438-2
44	Capacitor: 40 mf. 150 V. Part of.	K-5438-2

MISCELLANEOUS:

Sockets (Octal base, small size)	K-5720-2
Dial Scale	K-5565-1
Dial Indicator	K-5509
Dial Spring	K-3687-2
Dial Cord 10" (order by feet)	K-4636
Dial Cover (celluloid)	K-5518-3
Drive Shaft	K-6119-1
Lamp Socket	K-5517
Knobs 1550 (ivory)	K-5822-2
Knobs 1550 (brown)	K-5822-1
Standoff (3 terminals) for loop)	K-5573
Standoff (3 terminals)	K-2348
Standoff (2 terminals)	K-1683-1
Loop Antenna Assembly (550)	K-5472-3
Back Cover	K-5576-2
Handles	K-5834

REALIGNING DETAILS

I.F.:

With .1 mf. capacitor in signal generator lead, set generator to 463 K.C.; connect to 12SA7 converter grid. Adjust trimmers, items 10A, 10B, 11A and 11B on I-F cans, for maximum output. (ground lead of generator should be connected to common negative lead.)

Note: Gang condenser should be wide open during I-F alignment.

R.F.:

Connect high signal generator lead through 100-mmf. capacitor to antenna terminal (✱1) on rear cover of set, after removing strap from between terminals ✱1 and ✱2. Set dial and generator frequency to 1400 K.C. Align oscillator trimmers, items 31 and 32 (trimmers on front section of gang). Align antenna trimmer, item 7 (trimmer on rear section of gang), rocking the tuning gang while doing so. Set generator and receiver to 600 K.C., align oscillator lag, item 34 (on fixed end of oscillator coil, under chassis), rocking the gang while doing so. Recheck at 1400 K.C.

IMPORTANT NOTE:

When aligning Model 1550 receiver, it is necessary to cover the end of the chassis containing the oscillator coil, with a steel plate. This must be done to obtain correct calibration.