

Models 1554 A, B, C, D, E & V

Universal AC Superheterodyne Radio Receiver



Specifications

Frequency Range:

Standard Bdct: .535 M.C. to 1.525 M.C.
Short Wave: 5.8 M.C. to 15.2 M.C.

I.F.:

463 K.C.

Tubes:

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

Power Supply:

110-125 volts, 25-60 cycle A-C
Consumption: 30 watts

A.V.C.:

On 12SK7 I.F. and 12SA7 Converter.

Controls:

Three; Left-hand knob, volume control and on-off switch. Right-hand knob, tuning control. Centre knob is wave change switch.

Power Output:

1.5 watts.

Loudspeaker:

4" E.D.

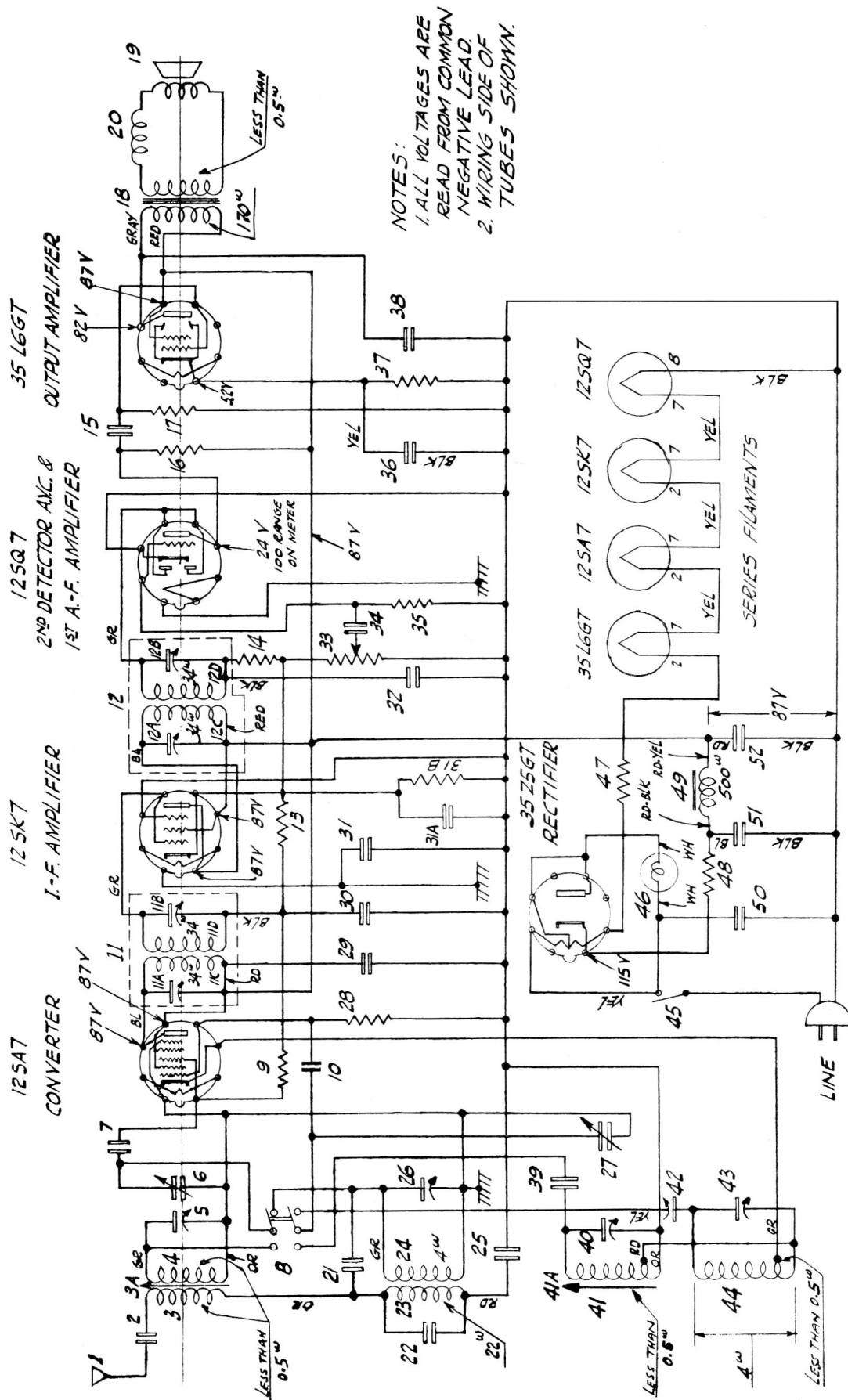
Audio System:

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

Antenna:

25' insulated wire permanently connected.

MODEL B-1554 RADIO RECEIVER



SCHEMATIC DIAGRAM MODEL 1554 AC UNIVERSAL

NOTES:
1. ALL VOLTAGES ARE
READ FROM COMMON
NEGATIVE LEAD.
2. WIRING SIDE OF
TUBES SHOWN.

REPLACEMENT PARTS LIST

Item	Description	Part No.	Item	Description	Part No.
1	Antenna wire (25' #23 flex. brown)	K-5047	31B	Resistor: 270 ohms, $\frac{1}{2}$ Watt.....	K-5975-10 B
2	Capacitor: .007 mf. 400 volt.....	K-2228-13	32	Capacitor, mica; 400 mmf.....	K-1611-24
3	S.W. Ant. Trans. Primary	} Com- plete K-5537	33	Volume Control (with Sw.) (.5 meg)	K-4991-2
3A	S.W. Ant. Trans. Core		34	Capacitor: .01 mf. 200 volt.....	K-2227-6
4	S.W. Ant. Trans. Secondary		35	Resistor: 10 meg. $\frac{1}{2}$ Watt.....	K-5974-1 B
5	S.W. Ant. Sect. Trimmer 3-25 mmf..	K-1458-6	36	Capacitor: 20 mf. 25 volt: Pt. of...	K-5438-2
6	Ant. Sect. Tuning Gang Part of...	K-6130-1	37	Resistor: 220 ohms, $\frac{1}{2}$ Watt.....	K-5975-12 B
7	Capacitor, mica: 1000 mmf.....	K-1611-23	38	Capacitor: .02 mf. 200 volt.....	K-2227-7
8	Band Switch.....	K-6127	39	Capacitor, mica 4000 mmf.....	K-1952-14T
9	Resistor: 1 meg. $\frac{1}{2}$ Watt.....	K-5974-25 B	40	S.W. Osc. Trimmer 16-72 mmf....	K-1458-8
10	Capacitor, mica; 50 mmf.....	K-1611-1T	41	S.W. Oscillator Coil.....	K-5538
11	1st I-F trans. assy. complete.....	K-5510	41A	S.W. Oscillator Coil Core; Pt. of...	K-5538
11A	{ 1st I-F trimmers.....	K-5688	42	Oscillator lag, cap. 300-625 mmf..	K-3860-8
11B			43	B.C. Osc. Trimmer 3-25 mmf.....	K-1458-6
11C			44	B.C. Oscillator Coil.....	K-5536
11D	{ 1st I-F coil only.....	K-5511	45	On-Off Switch, Part of.....	K-4991-2
12	2nd I-F trans. assy. complete.....	K-5512-2	46	Dial Lamp (6.3 V. 250 ma.).....	K-2589-3
12A	{ 2nd I-F trimmers.....	K-5688	47	Resistor: 82 ohm, 2 Watt.....	K-5985-22 B
12B			48	Resistor: 33 ohms, $\frac{1}{2}$ Watt.....	K-5975-32 B
12C			49	Loudspeaker field, 500 ohm; Pt. of..	K-5002-2
12D	{ 2nd I-F Coil only.....	K-5513	50	Capacitor: .03 mf. 400 volt.....	K-2228-18
13	Resistor: 2.2 meg. $\frac{1}{2}$ Watt.....	K-5974-17 B	51	Capacitor: 40 mf. 150 volt; Pt. of..	K-5438-2
14	Resistor: 47,000 ohms, $\frac{1}{2}$ Watt....	K-5974-57 B	52	Capacitor: 40 mf. 150 volt; Pt. of..	K-5438-2
15	Capacitor: .01 mf. 200 volt.....	K-2227-6			
16	Resistor: .22 meg. $\frac{1}{2}$ Watt.....	K-5974-41 B			
17	Resistor: .47 meg. $\frac{1}{2}$ Watt.....	K-5974-33 B			
18	Output Transformer... K-5008-3 or K3873-10				
19	Loudspeaker Assembly.....	K-5002-2			
20	Hum Coil (Not replaceable: part of K-5002-2)				
21	Capacity, 5 mmf. (extra turn of pri. wound over sec. of K-5535)				
22	Capacitor, mica: 100 mmf.....	K-1611-2			
23	B.C. Antenna trans. primary	} K-5535			
24	B.C. Antenna trans. Secondary				
	(Complete Assembly)				
25	Capacitor: .007 mf. 400 volt.....	K-2228-13			
26	B.C. Ant. Trimmer 1.5-10 mmf....	K-1458-5			
27	Oscillator Sect. Tuning gang				
	Part of.....	K-6130-1			
28	Resistor: 22,000 ohms, $\frac{1}{2}$ Watt....	K-5974-65 B			
29	Capacitor: .1 mf. 200 volt.....	K-2227-9			
30	Capacitor: .05 mf. 200 volt.....	K-2227-8			
31	Capacitor: .2 mf. 200 volt.....	2227-22			
31A	Capacitor: .05 mf., 200 Volt.....	K-2227-8			

MISCELLANEOUS

Cabinet Back Cover.....	K-5522-3
Sockets (Octal base, small size).....	K-5720-2
Dial Scale.....	K-5508
Dial Indicator.....	K-5509
Dial Spring.....	K-3687-2
Dial Cord (12") (order by feet).....	K-4636
Dial Cover (cellulose).....	K-5518-3
Drive Shaft.....	K-6119-1
Lamp Socket.....	K-5517
Antenna Spool.....	K-5046
Knobs 1554 (Vol & Tuning) (ivory)....	K-5822-2
Knobs 1554 (Wave Band) (ivory).....	K-5822-4
Stand Off (2 terminals).....	K-1683-1
Stand Off (3 terminals).....	K-2348
Handle.....	K-5834
Knob 1554 (Vol. & Tuning) (brown)....	K-5822-1
Knob 1554 (Wave Band) (brown).....	K-5822-3

REALIGNING DETAILS

I.F.:

With .1 mf. capacitor in signal generator lead, set frequency to 463 K.C. Connect to 12SA7 converter grid and adjust trimmers, items 11A, 11B, 12A and 12B. 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.:

(B.C.) Connect high signal generator lead through 100 mmf. capacitor to antenna lead. (Connect to lead on chassis side of coil of ant. wire). Set dial and frequency to 1400 K.C. Align B.C. oscillator trimmer, item 43 (trimmer on free end of B.C. oscillator coil under chassis). Align antenna trimmer, item 26 (on top of B.C. antenna coil—

the rear coil above chassis), rocking the tuning gang while doing so. Set generator and receiver to 600 K.C., align oscillator lag, item 42 (on fixed end of B.C. oscillator coil under chassis) rocking the gang while doing so. Recheck at 1400 K.C.

R.F.:

(S.W.) With 400 ohm carbon resistor in generator lead, set generator and receiver to 15 m.c. and adjust oscillator trimmer, item 40, (mounted on free end of S.W. oscillator coil under chassis). Rock the gang and adjust antenna trimmer, item 5 (on top of S.W. antenna coil at front of set above chassis). Set generator and receiver to 6 M.C., adjust oscillator iron core, item 41A. Adjust antenna iron core, item 3A, rocking the gang. Recheck at 15.0 M.C.