

Model 554 I and W

Universal AC-DC Superheterodyne

Radio Receiver



Specifications

Frequency Range:

Standard Bdct.: 535 to 1525 K.C.
Short Wave: 5.8 M.C. to 15.2 M.C.

I.F.:

470 K.C.

Tubes:

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

Power Supply:

110-125 volts, 25-60 cycle
110-120 volts D.C.
Consumption: 30 watts

A.V.C.:

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

Controls:

Three; Left-hand knob, volume control and rotary power switch. Right-hand knob, tuning control. Centre switch is wave change switch, short-wave left and standard broadcast right.

Power Output:

1.5 watts

Loudspeaker:

4" E.D.

Dial:

Square metaloid plate. Double end pointer. Scale directly illuminated. Top portion of scale is standard broadcast and lower portion is short wave.

Cabinets:

Model 554 I miniature type, wood, fabricoid covering.
Model 554 W miniature type, wood, walnut finish.

Audio System:

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

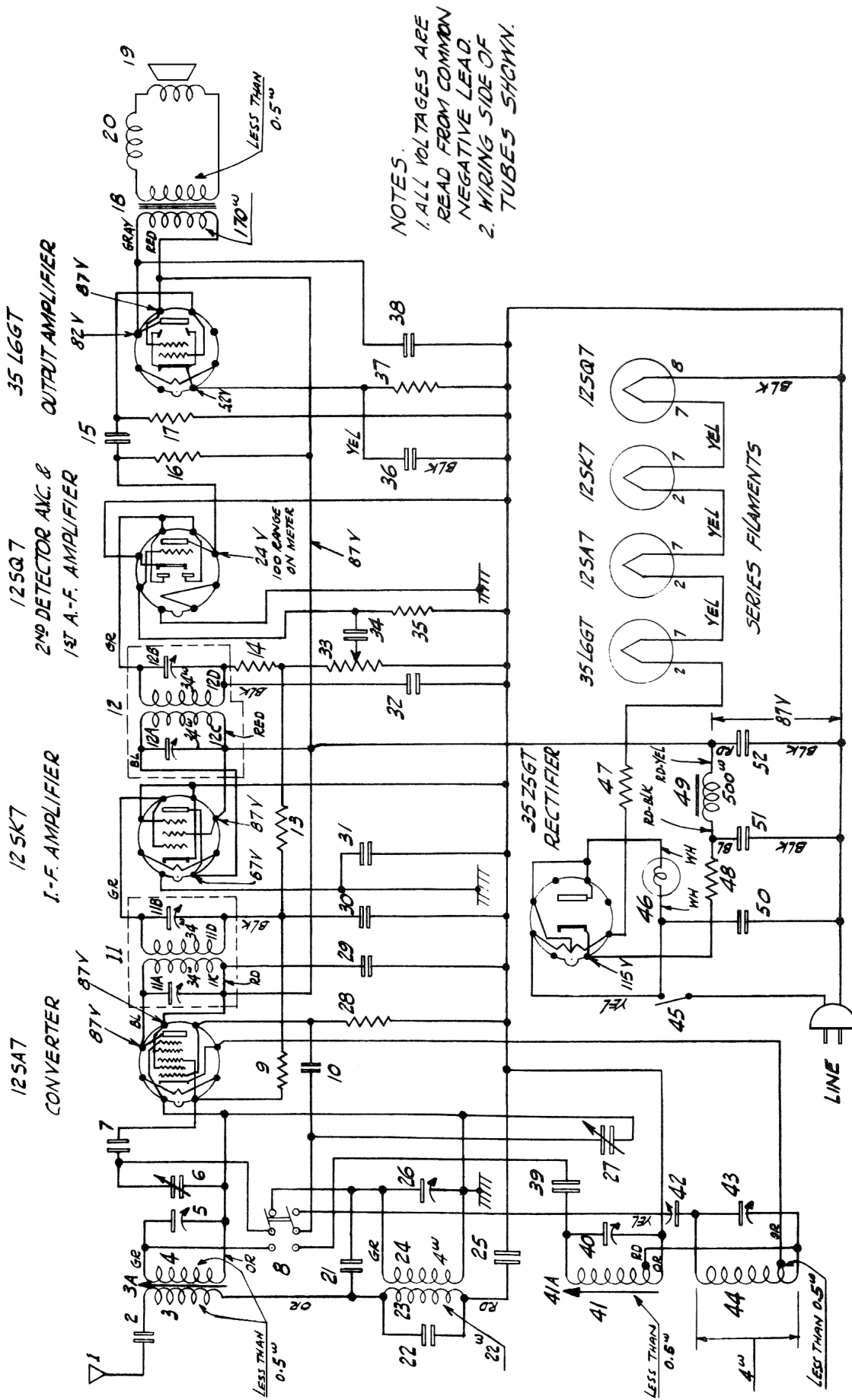
Antenna:

25' insulated wire permanently connected.

Dimensions:

Chassis: length 9", breadth 4-1/4", depth 1-15/32"
Cabinet: length 10-1/8", height 6-3/4" and depth 5".

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REPLACEMENT PARTS LIST

Item	Description	Part No.	Item	Description	Part No.
1	Antenna wire(25' #23 flex.brown)	K-5047	33	Volume Control(with Sw.)(.5 meg)	K-4991-2
2	Capacitor: .007 mf. 400 volt	K-2228-13	34	Capacitor: .01 mf. 200 volt	K-2227-6
3	S.W.Ant.Trans. Primary	K-5537	35	Resistor: 10 meg. 1/2 Watt	K-2226-74
3A	S.W.Ant.Trans. Core		36	Capacitor: 20 mf.25 volt:Pt.of	K-5438-2
4	S.W.Ant.Trans. Secondary	K-1458-6	37	Resistor: 220 ohms, 1/2 Watt	K-2252-38
5	S.W.Ant.Sect.Trimmer 3-25 mmf.		38	Capacitor: .02 mf. 200 volt	K-2227-7
6	Ant.Sect.Tuning Gang Part of	K-5524	39	Capacitor, mica 4000 mmf.	K-1952-14
7	Capacitor, mica: 1000 mmf.	K-1611-23	40	S.W.Osc. Trimmer 16-72 mmf.	K-1458-8
8	Band Switch D.P.D.T.	K-4029-2	41	S.W.Oscillator Coil	K-5538
9	Resistor: 1 meg. 1/2 Watt	K-2226-1	41A	S.W.Oscillator Coil Core;Pt. of	K-5538
10	Capacitor, mica; 50 mmf.	K-1611-1	42	Oscillator lag.cap.300-625 mmf.	K-3860-8
11	1st I-F trans.assy.complete	K-5510	43	B.C.Osc.Trimmer 3-25 mmf.	K-1458-6
11A-11B	1st I-F trimmers	K-5688	44	B.C.Oscillator Coil	K-5536
11C-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	46	Dial Lamp (6.3 V. 250 ma.)	K-2589-3
12A-12B	2nd I-F trimmers	K-5688	47	Resistor: 60 ohm, 2 Watt	K-4990-14
12C-12D	2nd I-F Coil only	K-5513	48	Resistor: 35 ohms, 1/2 Watt	K-2252-28
13	Resistor: 2 meg. 1/2 Watt	K-2226-1	49	Loudspeaker field,500 ohm;Pt.of	K-5002-2
14	Resistor: 50,000 ohms, 1/2 Watt	K-2226-6	50	Capacitor: .03 mf. 400 volt	K-2228-18
15	Capacitor: .01 mf. 200 volt	K-2227-6	51	Capacitor:40 mf.150 volt; Pt.of	K-5438-2
16	Resistor: .25 meg. 1/2 Watt	K-2226-4	52	Capacitor:40 mf.150 volt; Pt.of	K-5438-2
17	Resistor: .5 meg. 1/2 Watt	K-2226-3	MISCELLANEOUS		
18	Output Transformer	K-5008-3	Cabinet Back Cover		
19	Loudspeaker Assembly	K-5002-2	Sockets (Octal base, small size)		
20	Hum Coil (Not replaceable; part of K-5002-2)		Dial Scale		
21	Capacity, 5 mmf. (extra turn of pri.wound over sec. of K-5535)		Dial Indicator		
22	Capacitor, mica: 100 mmf.	K-1611-2	Dial Spring		
23	B.C.Antenna trans. primary	K-5535	Dial Cord (12")(order by feet)		
24	B.C.Antenna trans. Secondary		Dial Cover (cellulose)		
25	Capacitor: .007 mf. 400 volt	K-2228-13	Drive Shaft		
26	B.C.Ant. Trimmer 1.5-10 mmf.	K-1458-5	Lamp Socket		
27	Oscillator Sect. Tuning gang	K-5524	Antenna Spool		
	Part of		Knobs 554 I		
28	Resistor: 20,000 ohms, 1/2 W.	K-2226-8	Knobs 554 W		
29	Capacitor: .1 mf. 200 volt	K-2227-9	Stand Off (2 terminals)		
30	Capacitor: .05 mf. 200 volt	K-2227-8	Stand Off (3 terminals)		
31	Capacitor: .25 mf. 200 volt	K-2227-10	Escutcheon (switch) 554 I		
32	Capacitor; mica; 400 mmf.	K-1611-24	Escutcheon (switch) 554 W		

REALIGNING DETAILS

I.F.:

With .1 mf. capacitor in signal generator lead, set frequency to 470 K.C. Connect to 12SA7 converter grid, adjust trimmers, items 11A, 11B, 12A and 12B. (Ground lead of generator should be connected to common negative lead).

B.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.