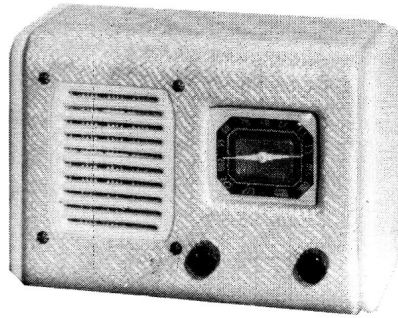


Model B1454

Battery-Operated Superheterodyne Radio Receiver



Specifications

Frequency Range:

.54 to 1.5 Megacycles
(Standard Broadcast Only)

I.F.:

463 K.C.

Tubes:

1A7G	Converter
1N5G	I-F Amplifier
1H5G	Second Detector, AVC & 1st Audio Amplifier
1T5GT	Output

Batteries Required:

Filament 1.5 Volts
Plate Supply 90 Volts
(See Instruction Folder accompanying
receiver for battery recommendations)

Note:

Do not connect a 2 volt storage cell to this
radio set without first connecting a 3.5 ohms
resistor in Series with the yellow lead (see
schematic Diagram).

Current Consumption:

"A"—200 mils
"B"—9.5 mils

Power Output:

125 milliwatts

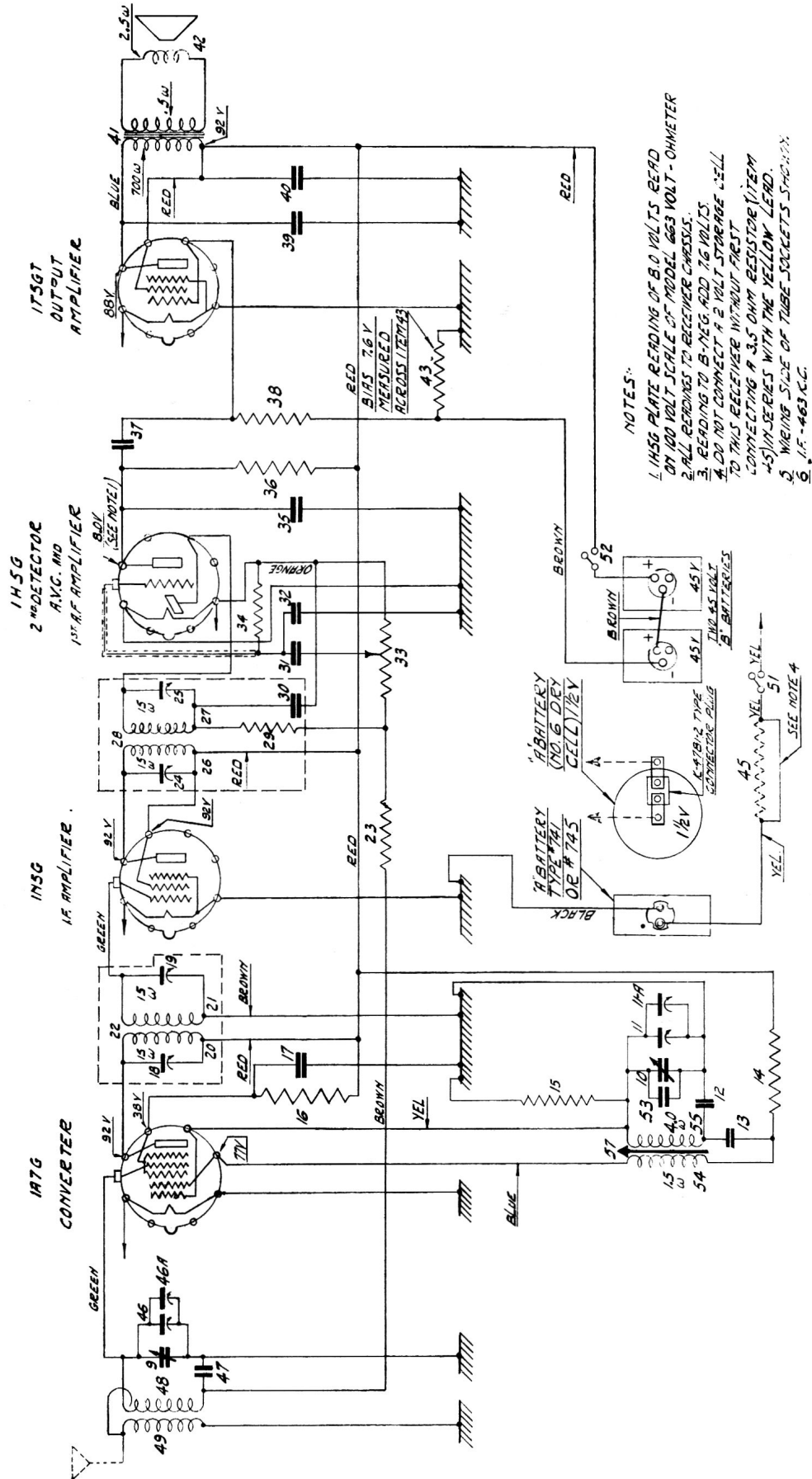
A.V.C.:

On type 1A7G converter only.

Antenna:

Has antenna and ground leads for external
antenna only.

MODEL B-1454 RADIO RECEIVER



- NOTES:
1. 1H5G PLATE READING OF 8.0 VOLTS READ ON 100 VOLT SCALE OF MODEL 663 VOLT-OHMETER
 2. ALL READING TO RECEIVER CHASSIS.
 3. READING TO B-NEG. ADD 76 VOLTS.
 4. DO NOT CONNECT A 2 VOLT STORAGE CELL TO THIS RECEIVER WITHOUT FIRST CONNECTING A 3.5 OHM RESISTOR (ITEM 45) IN SERIES WITH THE YELLOW LEAD.
 5. WIRING SIDE OF TUBE SOCKETS SHOWN.
 6. I.F. - 463 KC.

SCHEMATIC DIAGRAM MODEL B 1454
BATTERY OPERATED RECEIVER

REPLACEMENT PARTS LIST

Item	Description	Part No.	Item	Description	Part No.
9	Tuning gang: Ant. 420 mmf. Part of	K-6130-3	46	Trimmer (in gang) 115-20 mmf.	
10	Tuning gang: Osc. 420 mmf. Part of	K-6130-3		Part of	K-6130-3
11	Trimmer (on gang) 1.5-20 mmf.		46A	Trimmer (in gang) 1.5-20 mmf.	
	Part of	K-6130-3		Part. of.....	K-6130-3
11A	Trimmer (on gang) 1.5-20 mmf.		47	Capacitor .05 mf. 200 V.....	K-2227-8
	Part of	K-6130-3	48	Ant. Transformer Secondary	} K-5588
12	Capacitor: 400 mmf. mica.....	K-1611-5T	49	Ant. Transformer Primary.....	
13	Capacitor .002 mmf. 400 Volt.....	K-2228-2		(Complete Assembly)	
14	Resistor 10,000 ohm ½ watt.....	K-5974-73C	51	Battery On-Off Sw. Part of.....	K-4754-5
15	Resistor, .22 meg. ½ watt.....	K-5974-41C	53	Capacitor, Mica, 25 mmf.....	K-1611-9
16	Resistor, 68,000 ohms ½ watt.....	K-5974-53B	54	B.C. Osc. Coil Primary	} Com- plete. K-5474 Assem
17	Capacitor .1 mf. 200 Volt.....	K-2227-9	55	B.C. Osc. Coil Secondary	
18-19	First I-F Trimmers.....	K-2134-1	57	B.C. Osc. Coil Core	
20-21	First I-F Coils Only.....	K-4739	MISCELLANEOUS		
22	First I-F Assembly Complete.....	K-4738-1	Dial Cord (20' ^ (order by foot).....		K-4636
23	Resistor: 2.2 meg. ½ watt.....	K-5974-17B	Dial Cord Spring.....		K-4487-1
24-25	Second I-F Trimmers.....	K-2932-1	Dial Scale.....		K-5565-2
26-27	Second I-F Coils Only.....	K-4585	Dial Drive Shaft.....		K-6119-2
28	Second I-F Assembly Complete...	K-4545-1	Sockets.....		K-1924-1
29	Resistor: 47,000 ohms, ½ watt.....	5974-57B	Ground Clips.....		K-4759-3
	(Part of K4545-1 Assembly).		Tube Shields.....		K-4759-1
30	Capacitor 100 mmf. mica.. Part of	K-2932-1	Indicator.....		K-5509
31	Capacitor .01 mf. 200 Volt.....	K-2227-6	Bezel (Celluloid).....		K-5518-4
32	Capacitor 100 mmf. mica.....	K-1611-2	Knob, Tuning.....		K-4762-1
33	Vol. Cont. (½ meg.) & Sw.....	K-4754-5	Knob, Volume-Off.....		K-4762-3
34	Resistor: 10.0 meg. ½ watt.....	K-5974-1C	"B" Battery Plugs.....		K-4780-2
35	Capacitor 100 mmf. mica.....	K-1611-2	"A" Battery Plugs.....		K-4781-2
36	Resistor 1.0 meg. ½ watt.....	K-5974-25C	Grid Clips.....		K-3030-2
37	Capacitor .01 mf. 200 volt.....	K-2227-6	Battery Cable, Black.....		K-2381-0
38	Resistor 2.2 meg. ½ watt.....	K-5974-17C	Battery Cable, Brown.....		K-2381-1
39	Capacitor .005 mf. 400 Volt.....	K-2228-5	Battery Cable, Red.....		K-2381-2
40	Electrolytic: 16.0 mf. 150 Volt. . .	K-4698-1 or 2	Battery Cable, Yellow.....		K-2381-4
41	Output Transformer.....	K-5469 or K-3873-11			
42	Loudspeaker.....	K-5636 or K-6210			
43	Resistor 820 ohms, ½ Watt.....	K-5974-99-A			
45	Resistor 3.5 ohm ½ Watt (used with one section of a storage battery)	K-5975-47B			

REALIGNING DETAILS

I.F.:

- (a) With .1 mf. capacitor in generator lead set to 463 K.C., connect input to type 1A7G Converter grid and adjust I-F trimmers, items 18, 19, 24 and 25.

R.F.:

- (a) With gang closed, pointer should line up with end of black dial scale band.
- (b) Connect signal generator through a 100 mmf. capacitor directly to blue antenna lead.
- (c) Tighten bottom oscillator trimmer, item 11-A, then unscrew one turn.
- (d) Set generator and receiver to 580 K.C. and bring in signal with rough adjustment of oscillator iron core, item 57.

- (e) Set generator and receiver to 1400 K.C. Align oscillator trimmer, item 11 (on top of gang). (Note: If peak cannot be found on this trimmer, loosen trimmer, item 11-A slightly). Align Antenna trimmer Item 46.

- (f) Set generator and receiver to 580 K.C. and align oscillator iron core, item 57 rotating dial slightly to either side of 580 position, while doing so.

- (g) Set generator and receiver to 1400 K.C. and check items 11 & 46.

- (h) Check at 1000 K.C.