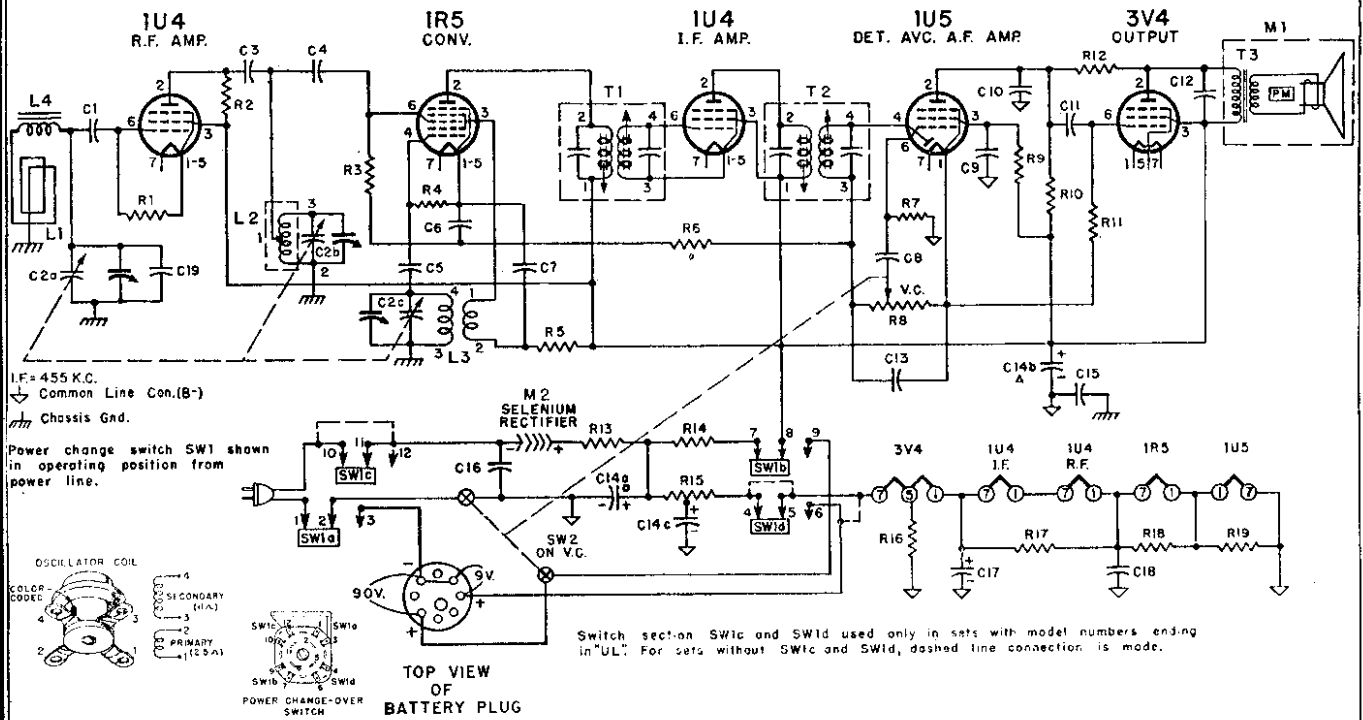
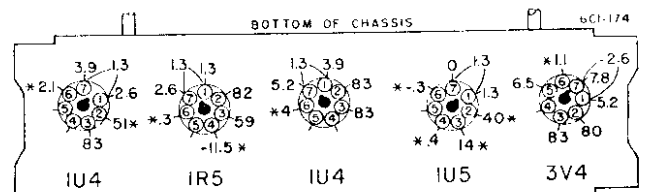


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### VOLTAGE DATA

- Voltage readings taken between tube socket terminals and B minus (metal shell of electrolytic condenser), unless otherwise shown.
- Dial set to low frequency, no signal, and volume control minimum.
- Measurements made from 117 volts AC line. If measured from DC line, voltages may be slightly lower.
- Voltage readings taken with a vacuum tube voltmeter. Socket terminals marked with an asterisk \* indicate much lower voltage or zero voltage if measured with a 1000 ohm-per-volt meter.
- If measurements are made on battery operation, tube filament and B plus voltages will vary with the condition of the batteries. These voltages will equal the terminal voltage of the A or B battery less the voltage drop through components.



\* If taken with a 1000 ohm-per-volt meter, readings will be lower or zero.

RESISTORS			COILS, TRANSFORMERS, ETC.			MISCELLANEOUS	
Symbol	Description	Part No.	Symbol	Description	Part No.	Description	Part No.
R1	2.2 Megohms, 1/2 Watt	60B 8-225	L1	Antenna Loop (Part of Cabinet)		Bracket, Plastic Handle (6Y18)	98A 14-10
R2	27,000 Ohms, 1/2 Watt	60B 8-273	L2	Coil, RF	69B 58	Bracket, Leather Handle (6Y19)	98A 14-9
R3	1 Megohm, 1/2 Watt	60B 8-105	L3	Coil, Oscillator	69A 57	Cabinet (Complete)	
R4	100,000 Ohms, 1/2 Watt	60B 8-104	L4	Coil, Antenna Loading	69A 45-1	Fabric Covered (6Y18)	35D 97-1
R5	8,200 Ohms, 1/2 Watt	60B 8-822	T1	Transformer, 1st IF	72B 55	Leather Covered (6Y19)	35D 97-2
R6	3.3 Megohms, 1/2 Watt	60B 8-335	T2	Transformer, 2nd IF	72B 56	Carton and Fillers	44B 135
R7	10 Megohms, 1/2 Watt	60B 8-106	T3	Transformer, Output	98A 21	Caster skid (Bottom of Cabinet)	98A 14-1
R8	1 Megohm, Volume Control and On-Off Switch	75B 1-28	M1	Speaker (4"x6" PM) and Output Transformer	78B 38-1	Catch, Front Door (with monogram)	37B 19-2
R9	4.7 Megohms, 1/2 Watt	60B 8-475	M2	Rectifier, Selenium	93A 1-4	Catch, Rear door (male)	98A 14-3
R10	470,000 Ohms, 1/2 Watt	60B 8-474	SW1	Switch, Power Change DPDT, for "N" models	77A 19-2	Catch, Rear door (female)	98A 14-4
R11	2.2 Megohms, 1/2 Watt	60B 8-225	SW2	Switch, On-Off (DPST)	(Part of R8)	Escutcheon, Dial and Grille	23D 33-3
R12	5.6 Megohms, 1/2 Watt	60B 8-565				Fibre Strip (for mounting rear door female catch)	32A 32
R13	47 Ohms, 1 Watt	60B 14-470				Grommet, Gang Mounting	12A 1-2
R14	2,700 Ohms, 1 Watt	60B 14-272				Grommet Spacer (for 12A1-2)	29A 2-1-71
R15	2,400 Ohms, 2.5 Watt Center-tapped Candohm	61A 5-3				Handle, Plastic (6Y18)	98A 14-2
R16	1,500 Ohms, 1/2 Watt	60B 8-152				Handle, Leather (6Y19)	98A 14-8
R17	820 Ohms, 1/2 Watt	60B 8-821				Hinge, Rear Door (2 required)	98A 14-7
R18	220 Ohms, 1/2 Watt	60B 8-221				Hinge, Front Door	98A 14-6
R19	150 Ohms, 1/2 Watt	60B 8-151				Knob	
<b>CONDENSERS</b>						Oil-Volume	33B 35-1
C1	250 mmfd., Ceramic	65B 6-5				Tuning	33B 35-2
C2a	Gang, 420.0 mmfd. (max.) Ant. Section	68B 10				Latch, Front Door	37B 19-6
C2b	Gang, 193.8 mmfd. (max.) RF Section					Mounting Plate, Chassis (Metal)	15C 301
C2c	Gang, 90.0 mmfd. (max.) Osc. Section				Mounting Plate, Electrolytic	67A 2-1	
C3	195 mmfd., Ceramic	65B 6-9			Plug, Battery	98A 3-3	
C4	250 mmfd., Ceramic	65B 6-5			Pointer, Dial	25A 32-1	
C5	105 mmfd., Ceramic	65B 6-9			Snap Button (2 required)	13A 1-1-71	
						Terminal Strip, Antenna	10A 25
						Tube Socket	87A 3-4

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**ALIGNMENT PROCEDURE**

- Use battery power for alignment if fresh batteries are available.
- When using AC power, an isolation transformer should be used if available. If not using an isolating transformer, connect a .1 mfd. condenser in series with the signal generator low side to B minus of radio chassis.
- Connect loop antenna and maintain same relative position as when in cabinet.
- Set volume control full on.
- Connect output meter across speaker voice coil.
- Use lowest output setting of signal generator capable of producing adequate output meter indication and then proceed as outlined below.
- Repeat adjustments to insure good results.

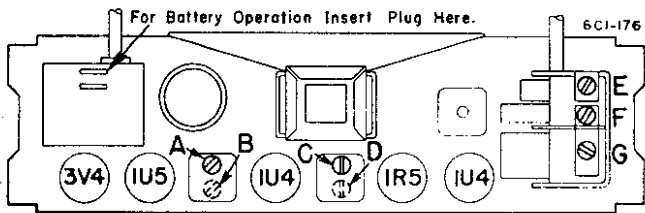
**NOTE**

To avoid splitting the slotted head of powdered iron core tuning slugs in I.F. transformer, use an alignment tool with a screw driver blade  $\frac{1}{8}$ " wide.

Step	Dummy Antenna in Series with Signal Generator	Connection of Signal Generator (High Side)	Signal Generator Frequency	Receiver Gang Setting	Trimmer Description	Trimmer Designation	Type of Adjustment
1	.001 mfd. when using AC .1 mfd. when using Battery	Grid of 1R5 (Pin 6)	455 KC	Gang fully open	2nd IF 1st IF	A, B C, D (see note below)	Maximum output
2	.001 mfd. when using AC .1 mfd. when using Battery	Tuning condenser, antenna stator	1620 KC	Gang fully open	Oscillator (on gang)	E	Maximum output
3	.001 mfd. when using AC .1 mfd. when using Battery	Tuning condenser, antenna stator	1400 KC	Tune in generator signal	R. F. (on gang)	F	Maximum output
Install chassis in cabinet. Mount dial pointer. Set pointer at 1400 K.C. with gang condenser tuned to 1400 K.C. signal.							
4	Loop of several turns of wire, or place generator lead close to receiver loop for adequate signal.	No physical connection (signal by radiation)	1400 KC	Tune in generator signal	Antenna (on gang)	G	Maximum output

NOTE: Adjustments B and D are made from underside of chassis.

**TUBE AND TRIMMER LOCATION**



**REPLACEMENT OF BATTERY PACK**

Replace A-B battery pack with Ensign type AB50 pack, Ray-O-Vac AB994, General 60A-6F6-5, Burgess F6A60 or other equivalent.

Electrical characteristics of the recommended battery packs provide for equal life for both the A and B sections. The A section may give satisfactory performance as low as 6.6 volts, the B section as low as 60 volts. Replace battery pack when reception is weak and voltage has dropped below values given above.

To install a replacement battery pack, merely open the back of the cabinet, pull out the battery plug and slide out the run-down battery pack.

Slip a new battery pack into place, plug in the battery plug.

