

MODELS E-4B & E-4CB

Four-Tube, Battery-Operated Receivers

ELECTRICAL SPECIFICATIONS

Type and number of Radiotrons.....1 Type-1A6, 1 Type-34, 1 Type-32, 1 Type-33-Total, 4
 Total "A" Battery Current.....0.45 Ampere
 Total "B" Battery Current.....15 M.A.
 Batteries Required: "A".....Eveready Air Cell A-600 or 2-volt storage cell
 "B".....Two 45-volt "B" batteries
 Tuning Frequency Range.....540 K.C.-1600 K.C.
 Maximum Undistorted Output.....160 Milliwatts
 Line-up Frequencies.....I.F., 460 K.C. Osc.-Det. 1400 K.C. and 600 K. C.

These instruments are similar to the Models A-4B and A-4CB except for several modifications. The major differences include:

Rearrangement of volume control circuit — A semi-airplane type dial is used with a 6 to 1 ratio between the tuning knob and condenser drive shaft, and the battery cables are adapted for the use of the new type

plug-in "B" batteries.

The intermediate frequency remains at 460 k.c. The antenna and oscillator coils are to be aligned only at 1400 kc. Refer to the A-4B and A-4CB Service Notes for the description of electrical circuit and service data.

REPLACEMENT PARTS

STOCK NO.	DESCRIPTION	STOCK NO.	DESCRIPTION
RECEIVER ASSEMBLIES		3584	Ring - Oscillator coil retaining ring
23,432	Resistor - 47,000 ohms - Carbon type	- Package of 2.....	
S-1536	- 1/4 watt (R2).....	S-1429	Cap - Contact cap - Package of 2.....
	Resistor - 2.2 megohm - Carbon type	4686	Terminal Strip - Engraved "Ant.-Gnd."
S-1537	- 1/4 watt (R3,R6).....	TABLE MODEL	
	Resistor - 7,500 ohms - Carbon type	REPRODUCER ASSEMBLIES	
S-1538	- 1/2 watt (R5).....	S-1530	Cone - Reproducer Cone.....
	Resistor - 180,000 ohms - Carbon type	S-1531	Coil - Reproducer Coil.....
5027	- 1/4 watt (R7).....	S-1535	Reproducer Assembly complete.....
	Resistor - 150,000 ohms - Carbon type	CONSOLE MODEL	
3078	- 1/4 watt (R8).....	REPRODUCER ASSEMBLIES	
	Resistor - 10,000 ohms - Carbon type	S-1532	Cone - Reproducer cone.....
S-1520	- 1/2 watt (R9).....	S-1531	Coil - Reproducer coil.....
S-1624	Resistor - .62 ohms - Flexible type (R10)	S-1534	Reproducer assembly complete.....
4534	Volume Control (R4,R11).....	MISCELLANEOUS	
S-1623	Capacitor - 1500 mmfd. (C2).....	S-1574	Knob - Tuning and volume control knob.....
	Condenser - 2 gang variable tuning condensers (C2,C3,C4,C8,C9).....	S-1622	Knob - "On and Off" Knob.....
6604	Capacitor - 0.5 mfd. (C5).....	S-1526	Switch - Operating switch (S1,S2)....
6648	Capacitor - 0.25 mfd. (C6).....	3224	Switch - Long and short Antenna(S3)...
4700	Capacitor - Adjustable trimmer capacitor - 150-340 mmfd. (C7).....	S-1625	Dial - Station selector dial.....
4353	Capacitor - 100 mmfd. (C10).....	S-1626	Indicator - Station selector indicator
S-1533	Capacitor - Dry electrolytic 4 mfd.(C11)	S-1620	Cable Assembly for Table Model.....
S-1522	Capacitor - 300 mmfd. (C15).....	S-1621	Cable Assembly for Console Model.....
4791	Capacitor - 0.1 mfd. (C16).....	S-1628	Plug - B, Battery Plug - Package of 2.
3460	Capacitor - 1200 mmfd. (C17).....	3748	Fuse - 0.5 ampere F1 Package of 2...
4868	Capacitor - 0.005 mfd. (C18).....	4284	Spring - Fuse connector spring
6993	Transformer - First intermediate frequency transformer (L5,L6,C12,C13)....	- Package of 2.....	
S-1523	Transformer - Second intermediate frequency transformer (L7,L8).....	4285	Washer - Fuse connector insulating washer - Package of 10.....
6488	Transformer - Interstage transformer (T1).....	4286	Ferrule - Fuse connector ferrule and bushing - Package of 4.....
6992	Coil - Antenna coil (L1,L2,C1,R1).....	4288	Cap - Fuse connector cap - Package of 4.....
6664	Coil - Oscillator coil (L3,L4).....	4289	Body - Fuse connector body - Package of 4.....
4343	Coil - Choke coil (L9).....	4290	Insulator Fuse - Connector insulator - Package of 5.....
4785	Socket - 6 contact tube socket for 1st detector and oscillator	6516	Connector - Fuse connector complete...
4794	Socket - 4 contact tube socket for intermediate frequency and second detector.....		
S-1627	Socket - 5 contact tube socket for output.....		
4104	Shield - First detector and oscillator tube shield.....		
4351	Shield - I.F. Radiotron socket-shield...		
3056	Shield - 2nd detector tube shield.....		
6665	Shield - Oscillator coil shield and bracket.....		

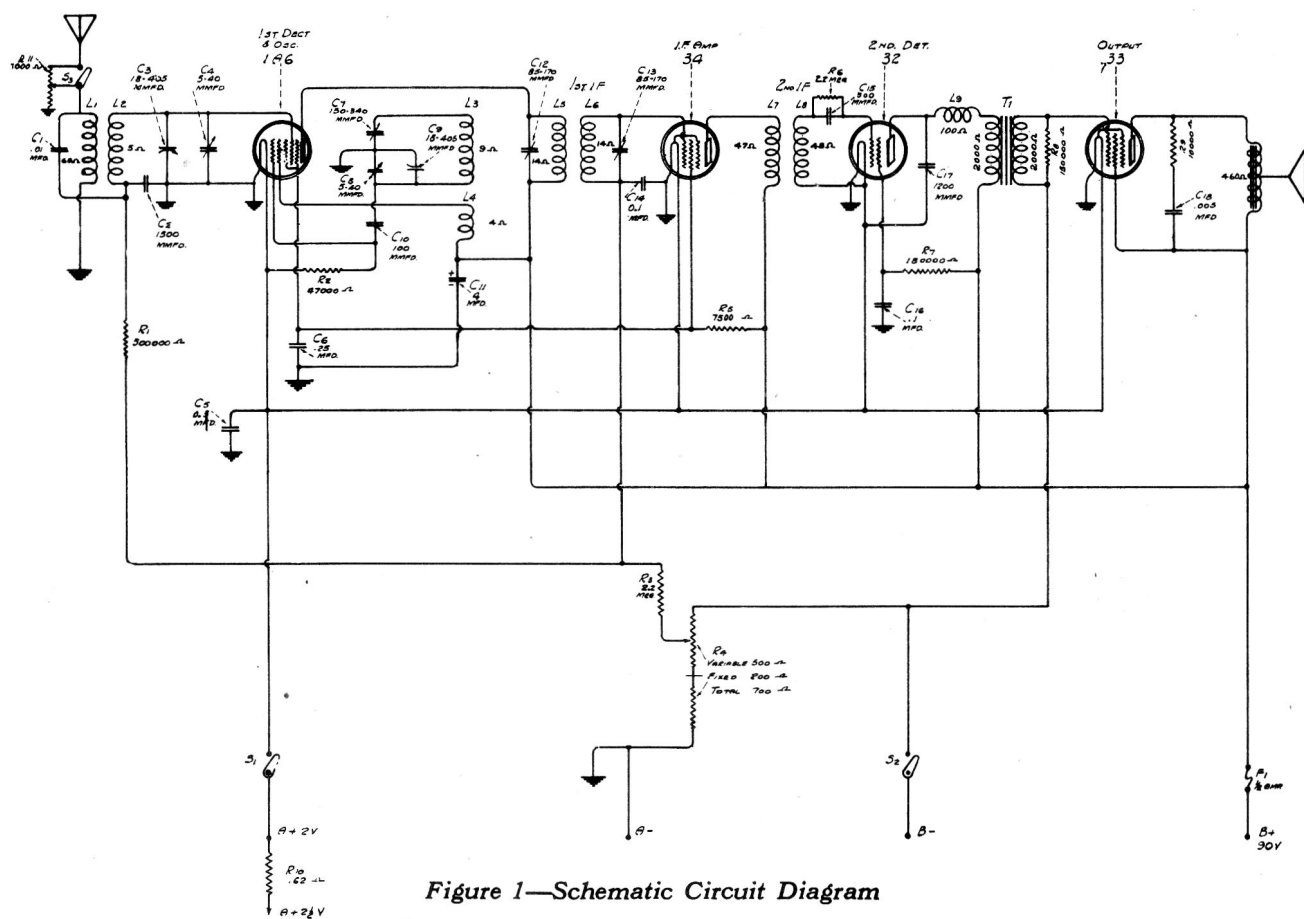


Figure 1—Schematic Circuit Diagram

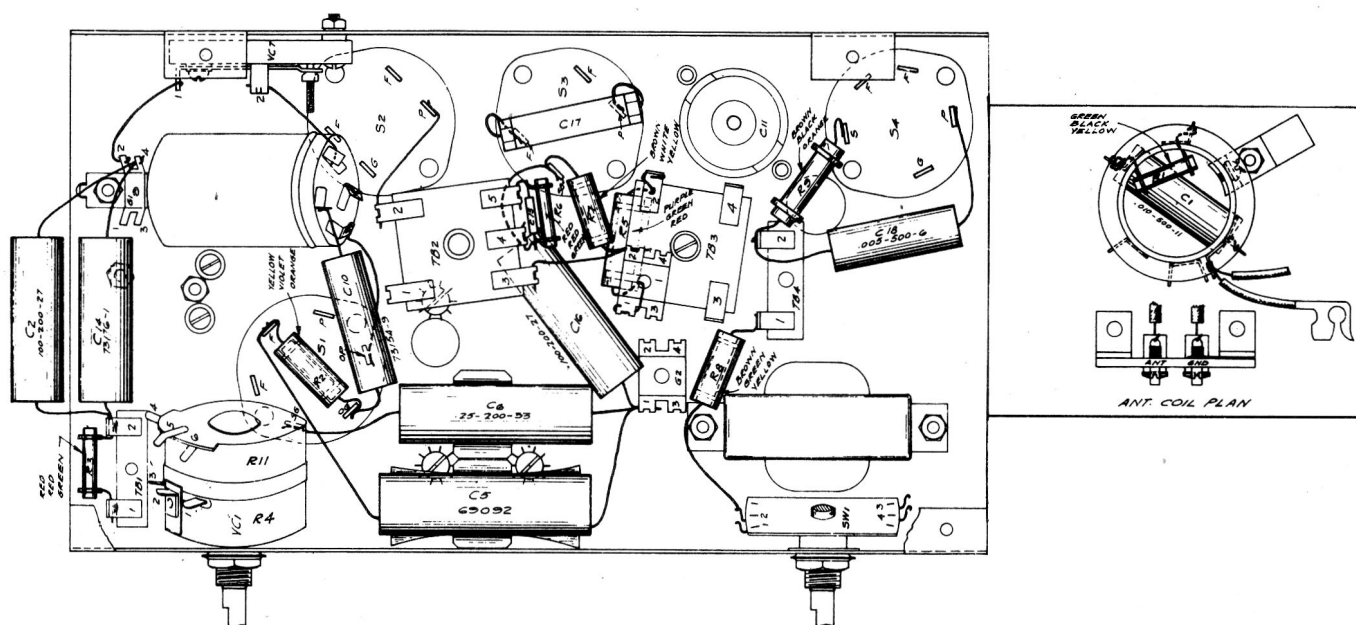


Figure 2—Chassis Wiring Diagram