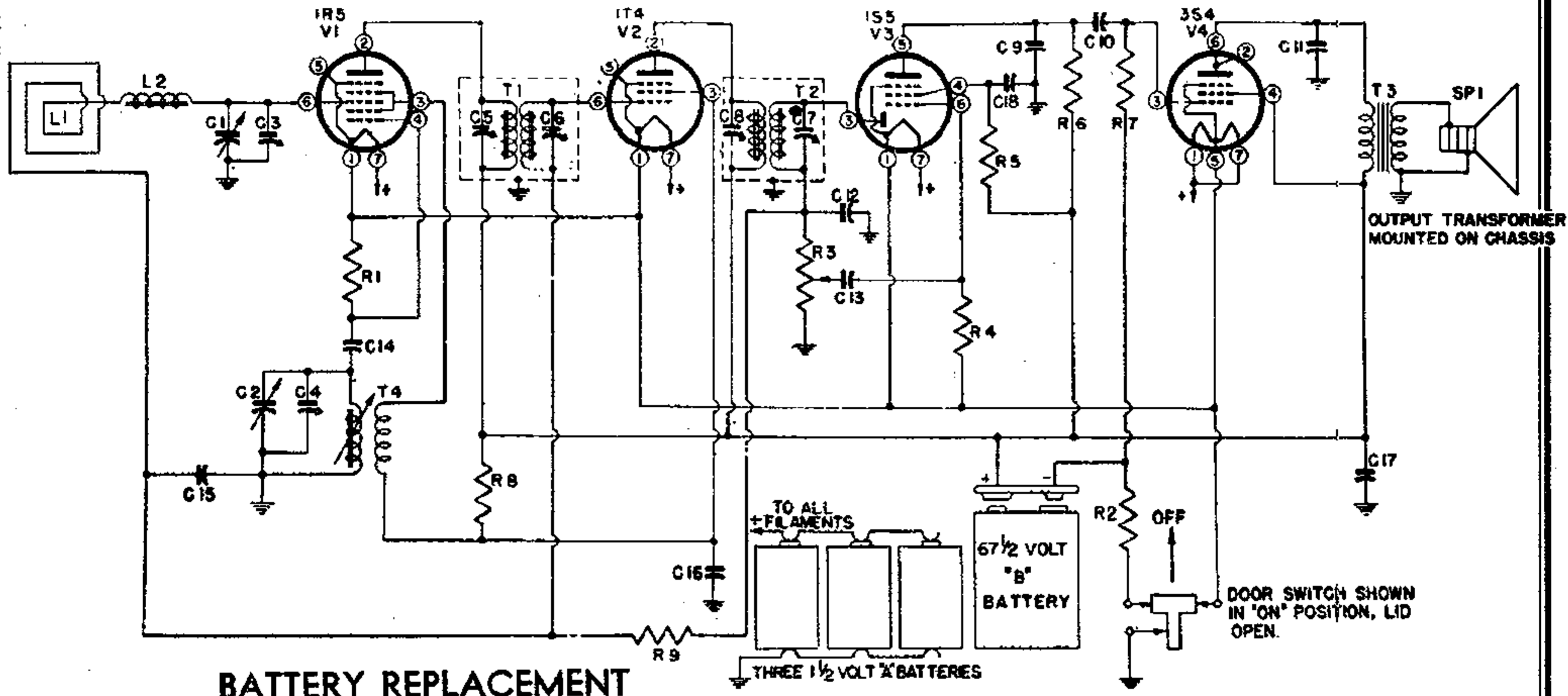


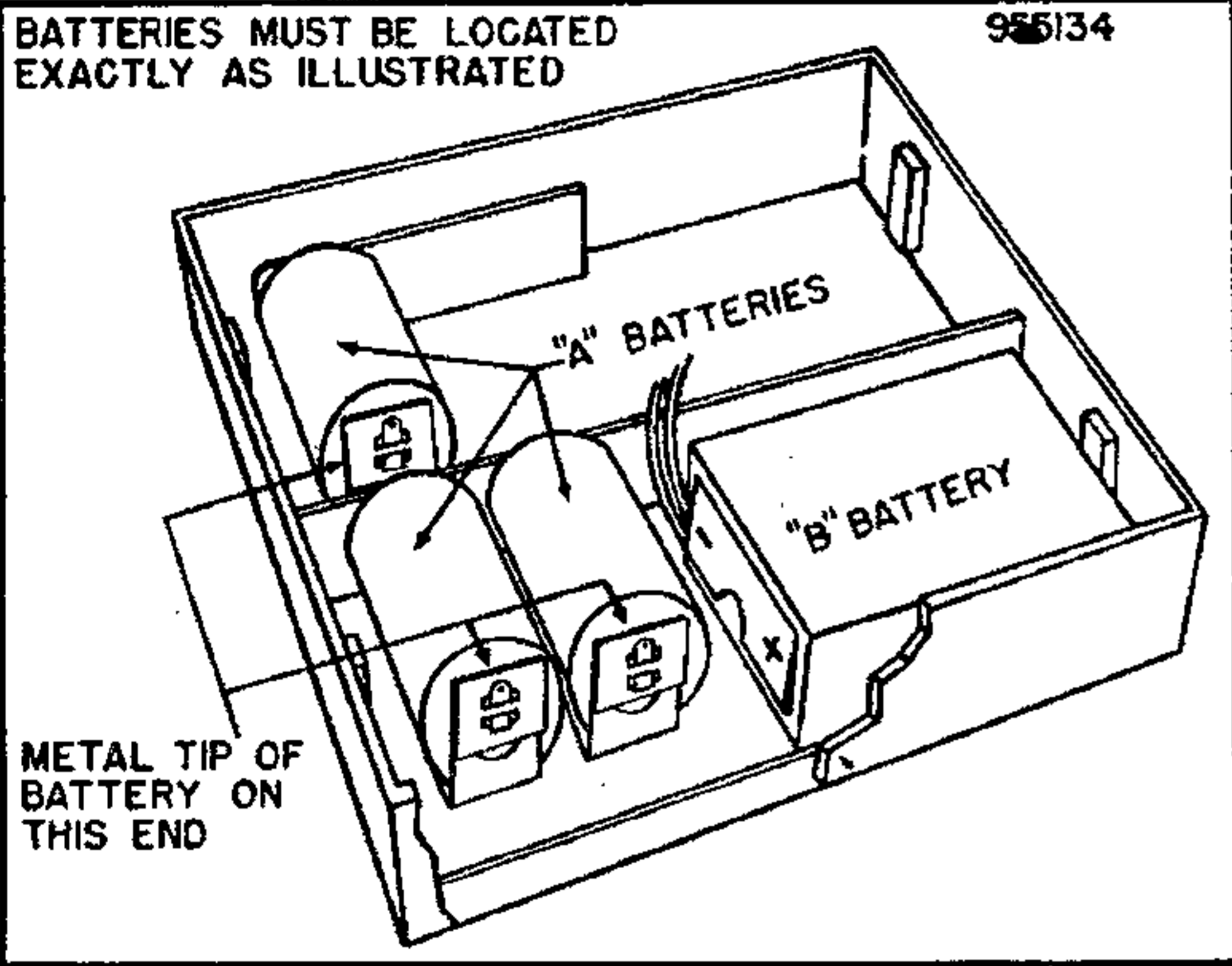


MODELS 570, 574, EMERSON RADIO AND PHONO. CORP.
580, CHASSIS 120064



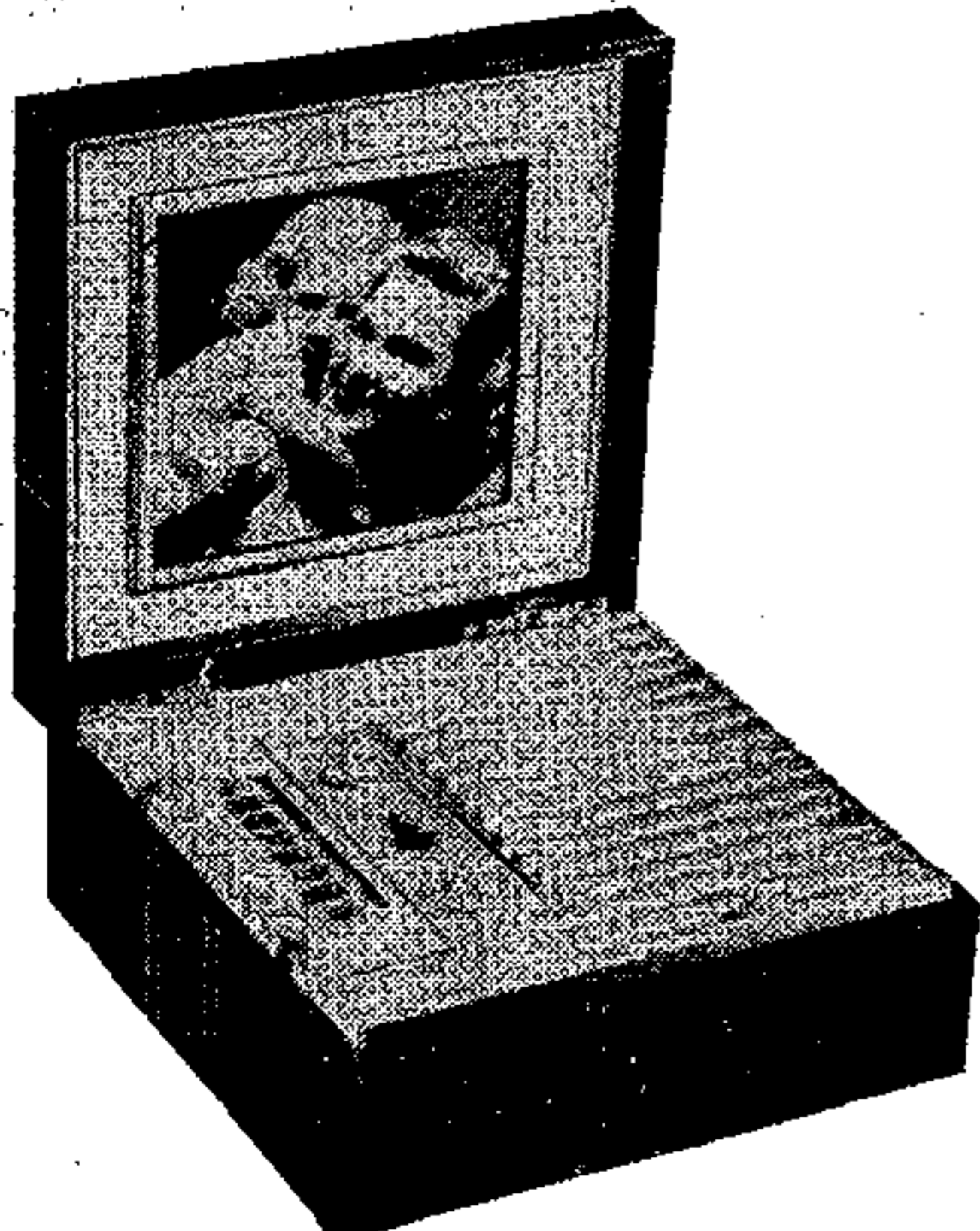
BATTERY REPLACEMENT

TO REPLACE BATTERIES: Close cover and turn set over. Unscrew large screw in center of base and remove bottom panel. This makes batteries accessible. Replace batteries as shown in illustration. Replace bottom panel and tighten screw.



DESCRIPTION

- DESIGNATION: "Memento."
- TYPE: Battery-operated superheterodyne.
- FREQUENCY RANGE: 540-1600 kc.
- TYPE OF TUBES:
 - 1—1S5, 2nd detector, a.v.c, a-f amplifier
 - 1—1R5, oscillator-modulator
 - 1—1T4, i-f amplifier
 - 1—3S4, pentode output
- POWER SUPPLY: "A" and "B" batteries.
- VOLTAGE RATING:
 - "A" Battery—1.5 volts
 - "B" Battery—67.5 volts
- CURRENT DRAIN:
 - "A" Battery—0.25 amp.
 - "B" Battery—0.0075 amp.



MODEL 570



MODEL 574



MODEL 580

ADJUSTMENTS

I-f Alignment

An oscillator with frequencies of 455, 600, 1420, and 1620 kc is required.

An output meter should be connected across the primary or secondary of the output transformer for observing maximum response.

Always use as weak a test signal as possible, turning down the output of the test oscillator as the alignment of the receiver progresses.

Turn the volume control on full.

1. Rotate the variable condenser to the minimum capacity position.
2. Feed 455 kc to the grid (pin 6) of the 1R5 tube through a 0.01 mfd. condenser.
3. Adjust the four i-f trimmer screws for maximum response. (Clip the test signal lead to the stator of the larger capacity section of the variable condenser.)

R-f Alignment

Location of Coils and Trimmer Adjustments

The first i-f transformer is located next to the 1R5 tube. The trimmers are accessible through holes in the top of the can.

The second i-f transformer is located between the 1T4 and 1S5 tubes. Trimmers are accessible through holes in the top of the can.

The oscillator coil is located behind the on-off switch. The trimmer for the oscillator is located on the smaller variable condenser section. The 600 kc oscillator core adjustment is the brass screw protruding from the end of the oscillator coil.

The loop antenna acts as the antenna coil. The trimmer for the loop is located on the larger section of the variable condenser.

1. Connect the test oscillator to a coil composed of three or four turns of wire wound in a circle approximately 12 inches in diameter. This coil should be placed parallel to and in line with the receiver loop at a distance of approximately 15 to 20 inches.
2. Radiate a signal at 1620 kc, rotate the variable condenser to minimum capacity, and adjust the oscillator trimmer, on the smaller section of the variable condenser, for maximum response.
3. Radiate a signal at 1420 kc, tune in the 1420 kc signal, and adjust the antenna trimmer, on the larger section of the variable condenser, for maximum response.
4. Radiate a signal at 600 kc, set the dial indicator to 60, and adjust the oscillator coil core trimmer while rocking the variable condenser for maximum response.
5. Return to 1620 kc and check alignment. If readjustment is necessary, repeat Steps 2 to 4 until no further improvement is noted.

VOLTAGE ANALYSIS

The following voltage readings are d-c measurements taken from B— (chassis) to the indicated tube-socket pin. A 1000 ohms-per-volt meter should be used for all readings except those indicated by an asterisk (*), which should be taken with a d-c vacuum-tube voltmeter. Take readings with the volume control set at minimum and the variable condenser closed. Use fresh batteries.

TUBE	PIN NUMBER						
	1	2	3	4	5	6	7
1R5		60	35	*.8		*.0.2	1.5
1T4		60	35			*.0.2	1.5
1S5			*.0.2	*17	*25	*.0.1	1.5
3S4	1.5	59	*.6.5	60		59	1.5

Schematic Symbol	Part No.	DESCRIPTION	Schematic Symbol	Part No.	DESCRIPTION
C1, C2	900022	Two-gang variable condenser	R5	351330	3.3 meg., ½ watt resistor
*C3	Part of C1	Trimmer	R6	351130	470,000 ohms, ½ watt resistor
*C4	Part of C2	Trimmer	R7	351250	1.5 meg., ½ watt resistor
*C5, C6	Part of T1	Trimmer	R8	340730	10,000 ohms, ½ watt resistor
*C7, C8	Part of T2	Trimmer	R9	351330	3.3 meg., ½ watt resistor
C9	928013	0.0001 mfd. ceramic condenser	SP1	180029	3-inch P.M. dynamic speaker
C10	920497	0.001 mfd., 200 volt condenser	T1	720028	First i-f transformer
C11	920496	0.005 mfd., 200 volt condenser	T2	720028	Second i-f transformer (alternate part 720035)
C12	928104	212 mmfd., ceramic condenser	T3	734011	Output transformer
C13	920497	0.001 mfd., 200 volt condenser	T4	716011	Oscillator coil
C14	928010	0.0001 mfd., ceramic condenser (Alternate part 928013)			
C15	920494	0.05 mfd., 200 volt condenser			
C16	920120	0.02 mfd., 100 volt condenser			
C17	925063	16 mfd., 100 volt electrolytic condenser			
C18	920485	0.01 mfd., 100 volt condenser			
L1	700019	Loop antenna			
L2	708007	Loading coil			
R1	340970	100,00 ohms, ½ watt resistor			
R2	340470	820 ohms, ½ watt resistor			
R3	390025	1 meg., volume control			
R4	351450	10 meg., ½ watt resistor			
				510017	Lid switch
				585007	"B" battery cable