

SPECIFICATIONS

Power Supply
AC/DC Operation 117 V. DC or AC 15 Watts
Battery Operation 7.5V. "A", 75V. or 90V. "B"
Frequency Range . . . 540 KC to 1650 KC
Intermediate Frequency 455 KC
Speaker 4" x 6" P. M.

TUBE COMPLEMENT

V1	Oscillator/Mixer	1R5
V2	IF Amplifier	1U4
V3	Detector, AVC, 1st AF	1U5
V4	Audio Output	3V4

ALIGNMENT PROCEDURE

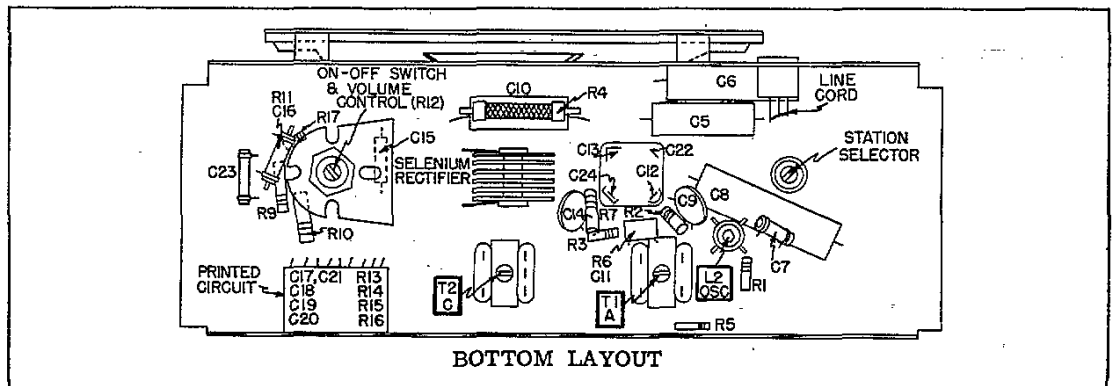
PRELIMINARY INSTRUCTIONS

1. Remove chassis from cabinet.
2. Allow chassis and signal generator several minutes warm up.
3. Keep generator output at lowest usable level to prevent AVC action from interfering with accurate alignment.
4. Connect AC voltmeter across voice coil.
5. Adjust volume control to full volume.

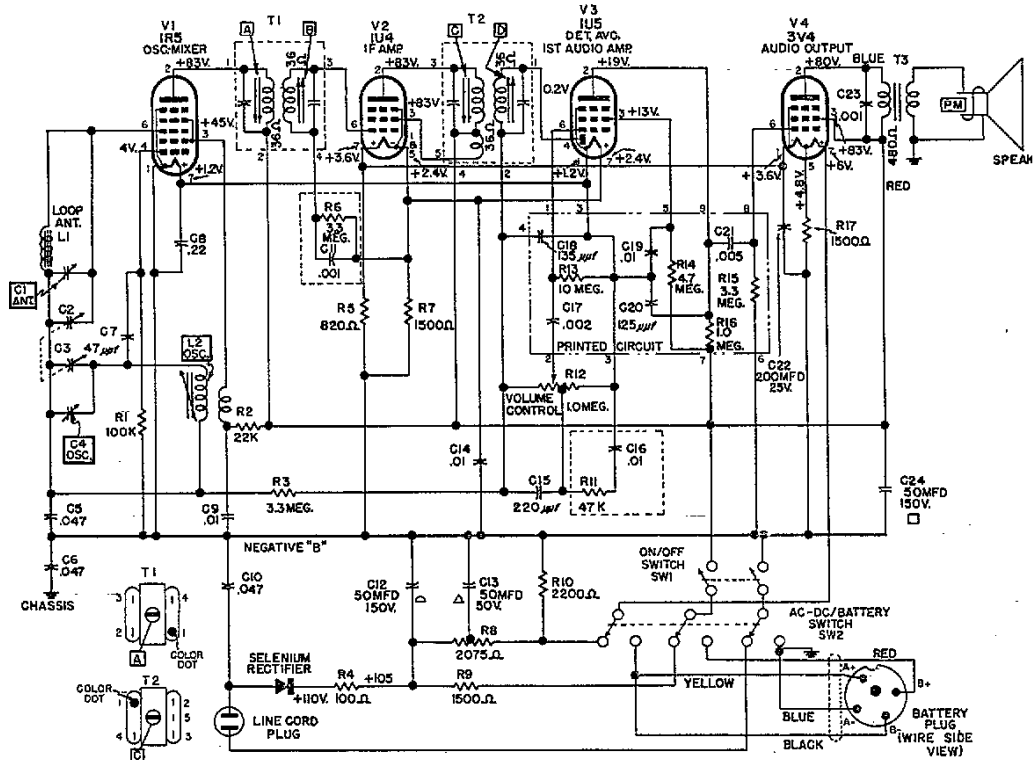
STEP	SIGNAL GENERATOR Frequency	GENERATOR Connection	RADIO DIAL SETTING	ADJUST	COMMENTS
1.	455 KC	Thru .01 Mfd. to pin 6 of 1R5.	Tuning cap. plates fully open.	T2 D T2 C T1 B T1 A	Connect ground lead of signal generator to negative "B" in receiver. Adjust T1 and T2 (IF transformers) for <u>maximum output</u> .
2.	1650 KC	Radiated to receiver thru a loop of several turns.	Tuning cap. plates fully open	C4 trimmer	Adjust C4 (high-end oscillator trimmer) for <u>maximum output</u> . Set variable tuning capacitor to minimum capacity.
3.	1400 KC to 1500 KC	Same as 2.	1400 KC to 1500 KC	C1 trimmer	Adjust C1 (antenna trimmer) for <u>maximum output</u> .
4.	600 KC	Same as 2.	Approx. 600 KC	L2 core	Adjust L2 (low-end oscillator adjustment) for <u>maximum output</u> while simultaneously "rocking" variable tuning capacitor.
5.	Repeat step 3.				

CHASSIS REMOVAL

1. Remove control knobs, station selector pointer and base. Remove station selector pointer by gripping it with either a bent wire hook or needle nose pliers inserted in the center slots.
2. Remove the four screws securing chassis and dial caps to the cabinet. Note assembly of the handle and dials, and that chassis slides through grooves in cabinet. The chassis may now be removed.
3. To facilitate calibration, turn volume control until it clicks "Off" and Station Selector until tuning capacitor is fully meshed. Line up indicator marks accordingly, and press on knobs.



BOTTOM LAYOUT



- NOTES:
1. VOLTAGES MEASURED WITH 20,000 OHM/VOLT METER TO NEGATIVE "B"; SWITCH SW2 SET TO AC/DC POSITION, LINE VOLTAGE 117 V. AC, NO SIGNAL INPUT.
 2. COIL RESISTANCES ARE AVERAGE VALUES. INTERMEDIATE FREQUENCY 483 KC.
 3. BATTERY—EVEREADY NO.755 "AB" PACK OR EQUIVALENT SUPPLYING 7.5 V. "A" AND 75 V. "B". (NO. 756 "AB" PACK OR EQUIVALENT SUPPLYING 7.5 V. "A" AND 90 V. "B" IS OPTIONAL.)
 4. VOLTAGES OR RESISTANCES NOT SHOWN WHERE TOO SMALL OR WIDELY VARIABLE.

SCHEMATIC DIAGRAM FOR 1-604-1 CHASSIS

