SERVICE NOTES

Voltages taken from the different points of the circuit to the chassis are measured with volume control in maximum position, all tubes in their sockets and with a volt meter having a resistance of 1000 ohms per volt, using the 150 volt scale These voltages are clearly indicated on the voltage chart (*Fig 2*)

All voltages should be measured with an A C line voltage of 117 volts

To check for open by-pass condensers, shunt each condenser with another one having the same capacity and voltage rating which is known to be good until the defective unit is located

ALIGNING INSTRUCTIONS

Never attempt any adjustments on this receiver unless it becomes necessary to replace a coil or transformer, or the adjustments have been tampered with in the field. Always make certain that other circuit components, such as tubes, condensers, resistors, etc., are normal before proceeding with realignment.

If realignment is necessary follow the instructions given under the heading "ALIGNMENT PROCEDURE" on the nert page After realignment has been completed repeat the procedure as a final check

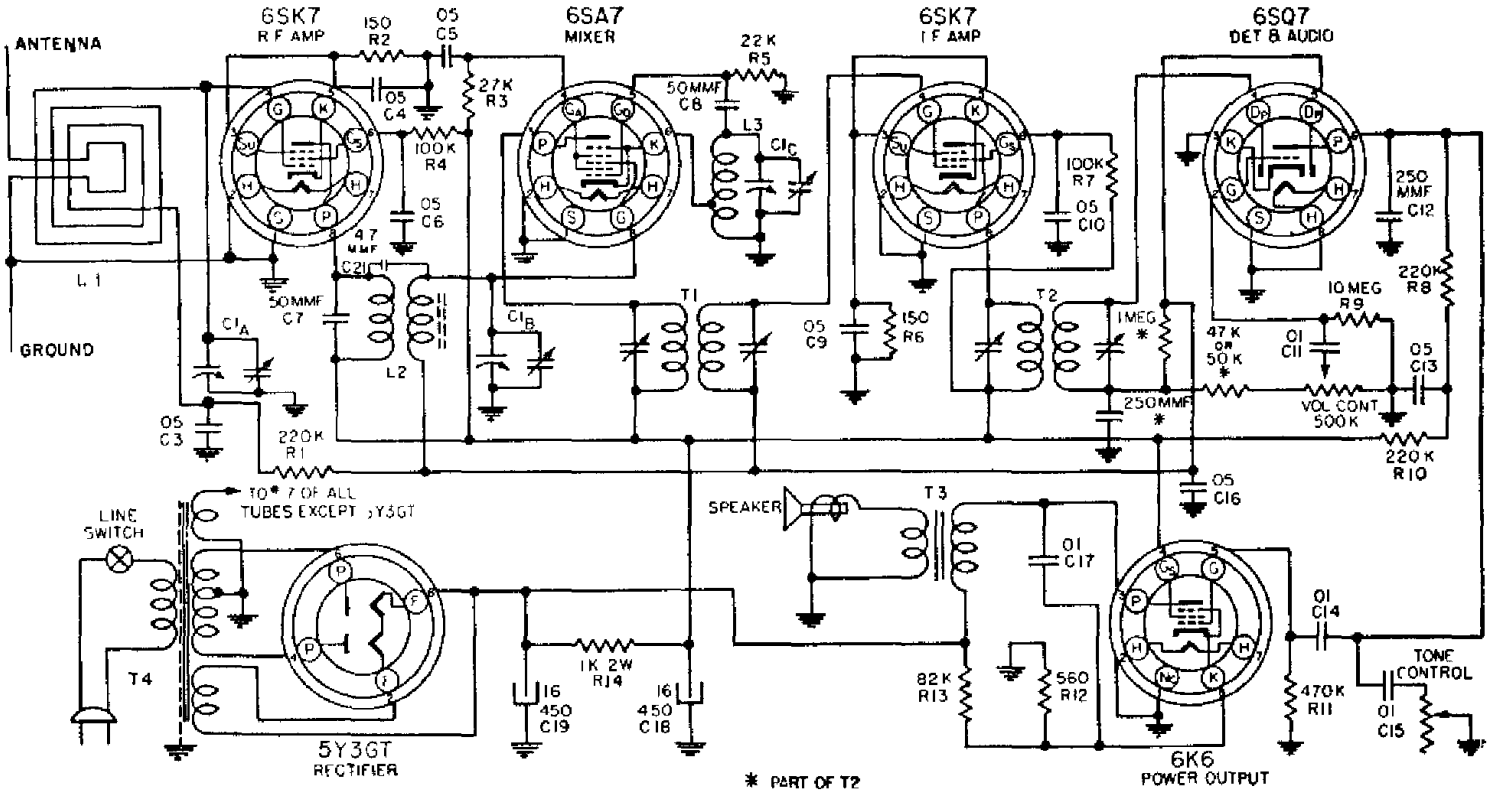

Fig 3 Schematic Diagram

ALIGNMENT PROCEDURE

Volume control—Maximum all adjustments

Tone Control—Treble Full Clockwise Rotation

Connect dummy antenna in series with output lead of signal generator

Connect output meter across voice coil of speaker.

The following equipment is necessary for proper alignment·

Signal generator that will provide the test frequencies as listed

Output meter

Non-metallic screwdriver.

Dummy antennas— 1 mfd , 00025 mfd

Position of Variable	*Generator Frequency*	*Dummy Ant mfd*	*Generator Connections*	*Trimmer Adjustment*	*Trimmer Function*
Minimum Capacity (Fully Opened)	455 K C	1	High side to 6SA7 grid Low side to chassis	T1 T2	I. F.
Minimum Capacity (Fully Opened)	1725 K C	00025	High side to ant lead Low side to ground lead	C1C	Osc
Tune in signal From Generator	1500 K C	00025	High side to ant lead Low side to ground lead	C1B	R F
Tune in signal from Generator	1500 K C	00025	High side to ant lead Low side to ground lead	C1A	Ant

Repeat the above alignment procedure as a final check

With an output meter connected across the voice coil of the speaker, the output meter reading for ½ watt is 1 25 volts using a signal which is modulated 400 c p s