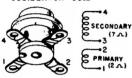


OSCILLATOR COIL



NOTE: C5a, C5h, C5c, C5d and C5e are contained in a single unit (Bulplate). The numbers next to the C5 condenser plates on the schematic correspond to the lead numbers as shown on the drawing of the "BULPLATE" (see inset). If sections of this unit should open or short it will not be necessary to replace the entire Bulplate. Replace the bad section with a condenser of proper value. Note that leads 5 and 6 are common to more than one section.



NOTE: Some microphonic howling may occur on strong signals if the volume control is turned beyond the overload point The following changes have been made in late production because some "B" batteries, with high internal resistance, may cause squealing at normal volume levels.

(a) Condenser C3 (.005 mfd. 600 volt, oscillator plate bypass) has been replaced with a .1 mfd. 200 volt condenser.

(b) Condenser C6 (.002 mfd. 600 volt, 3S4 late bypass) has been returned to the screen grid (pin 4) rather than to ground. (c) The speaker leads have been reversed, the red lead has been connected to the plate and the blue lead to the screen of the

(d) For early production chassis which do not have the above For early production chassis which up not have the changes, the same results can usually be secured by adding 4 to chassis. Be sure the condenser is connected in the circuit on the set side of the on-off switch. Do not connect it to the battery side of the switch or the inherent leakage of the condenser will apprecially shorten the "B" battery life.

RESISTORS

Symbol		Part No.
RI	47,000 Ohms, 1/4 Watt	60B 3-473
R2	560 Ohms, 1/4 Walt	60B 2-561
R3	10,000 Ohms, 1/4 Watt	60 B 3 -103
R4	3.3 Megohms, 1/4 Watt	60B 3-335
R5	l Megohm Volume Contrand Switch SWI	75 B 1-22
R6	10 Megohms, 1/4 Watt	60B 3-106
R7	4.7 Meghoms 1/4 Watt	60B 3-475
R8	1 Meghom, 1/4 Watt	60B 3-105
R9	2.2 Meghoms, 1/4 Watt	60B 3-225

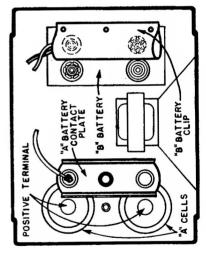
	CONDENSERS	
Symbol	Part 1	₹o.
C1 C2 C3 C4 C5a C5b C5c C5c C5d C5e C7a C7b	01 mid., 600 Volts, Paper 64B 1- 0001 mid., Ceramic 65B 6- 1 mid. 200 Volts, Paper 64B 1- 25 mid., 200 Volts, Paper 64B 1- 150 mmid., Ceramic 002 mid., Ceramic 006 mid., Ceramic 005 mid., Ceramic 53A 2 52e 52e	30 28

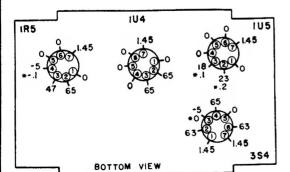
COILS, TRANSFORMERS, Etc.

Symbol		Part No.
Ll	Antenna, Loop	69B 38
L2 a } L2 b }	Coil, Oscillator	69A 39-1
T1	Transformer, 1st I.F.	
T2	Transformer, 2nd I.F.	_72B 28-1
T3	Transformer, Output	98 A 13
	Speaker (3½" PM) & Output Transformer	78C 33
SWI	Switch, On-Off	Part of R5



CHASSIS 4D1 MODELS 4D11, 4D12, 4D13





VOLTAGE DATA

- Readings made between point indicated and chassis.
- Measured using a fresh set of batteries.
- Turned to low frequency end, no signal.
- Voltages measured with Vacuum-Tube Voltmeter.
- A second voltage reading (marked with an asterisk *) indicates readings made with a 1000 ohm-per-volt meter when use of this instrument would result in appreciably lower readings.