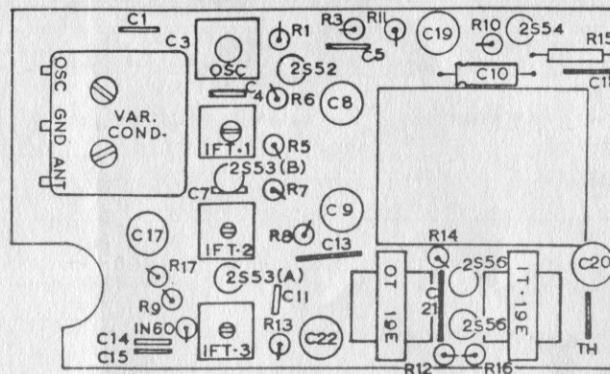


VIEW FROM UNDER

CIRCUIT
BOARD
DIAGRAMS

VIEW FROM TOP

TYPICAL CIRCUIT MEASUREMENTS (Batt Supply 5.8-6.0V)			
Voltage From	Batt NEG to ANT GND	OSC (on gang)	5.8 6.0V
"	Across C6	Without Signal	4.0V With Signal 5.0V
"	"	C8, C9	" 0.6-1.2V " 0.15-0.3V
"	"	C17	" 1.0V " 0.6V
"	"	C10	is 1.0V
"	"	C11	5.0V
"	"	C19	1.0V
"	"	C20	between 5.4 5.6V
"	"	C22	5.8 6.0V
"	"	R2	is 0.6V
"	"	R12	5.5V
"	"	R16	0.2V
"	"	R13 without signal	0.4V with signal 0.2V

ABOVE MEASUREMENTS TAKEN WITH 20,000 Ω/V MULTI-METER

SCHEMATIC DIAG

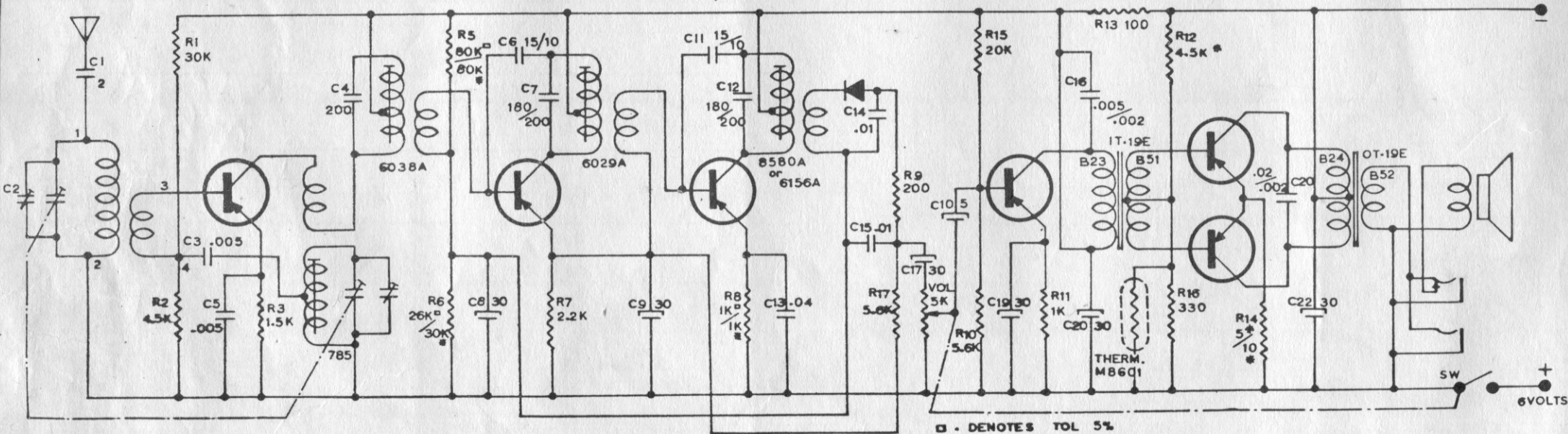
2S52

2S53 (B)

2S53(A)/2S49

2S44/2S54

2S56



AERIAL COIL

2.1 Ohms [Ant-1] Tuned Winding
 Gnd-2
 0.2 Ohms [Base 2S52-3] Feed Back Winding
 Junct R1, R2-4

IF TRANSFORMERS

With NEG Prod to Case of IFT
 In Circuit RES of PRI 1.5K Ohms
 " " RES of SEC 1K Ohms
 Otherwise Possible 3/C Winding to Case

□ - DENOTES TOL 5%
 * - " " 10%

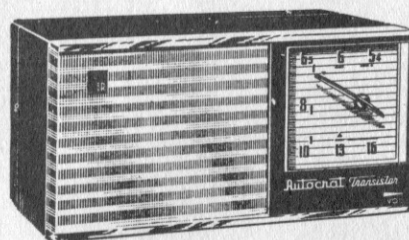
CIRCUIT DATA - MODEL 6C-11
 DRG:K DTE:28 2 60 CH. 11
 AUTOCRAT RADIO LIMITED

Autochat

MODEL 6C-11

• ALL TRANSISTOR PORTABLE

8-3-60



MODEL 6C-11

SPECIFICATION.

TYPE:

6 Transistor, 1 diode

FREQUENCY COVERAGE.

540-1620 Kc/s

INTERMEDIATE FREQUENCY.

455 Kc/s

OUTPUT.

110 MW

SPEAKER.

2½" P.M. 7 ohm

TRANSISTORS.

2S52 Mixer
2S53 1st I.F. AMP.
2S49 or 2S53 2nd I.F. AMP.
2S54 or 2S44 1st A.F. AMP.
P.P. Output.

DIODE.

1N60 Detector

THERMISTER.

M8601 Thermal compensator

BATTERIES.

4 - 1½V Penlight Cells

O P T N	SIGNAL GENERATOR		RADIO		
	CONNECTION TO RADIO	FREQ.	DIAL SETTING	SPECIAL INSTRUCTIONS	ADJ.
1.	Connect signal generator through a .1 ufd condenser to ant. section of gang	455Kc	Tuning gang fully open	Adjust for maximum output in order given	IFT2 IFT1 IFT3
2.	Use Radiating loop (see NOTE 1 below)	600Kc	600Kc	Adjust for maximum output Rock tuning gang while making this adjustment, and slide aerial coil on rod	L 4-osc. core
3.	Same as step 2	1400Kc	1400Kc	Adjust for maximum output	Osc. trimmer
4.	Same as step 2	1400Kc	1400Kc	Adjust for maximum output	Ant. trimmer
5.	Repeat steps 2, 3 and 4 until no further improvement is obtained. Always stop on step 5.				
NOTE	1. Use a 6 - 8 turn, 6 inch - diameter loop made up of insulated wire. Connect to generator terminals, and place about one foot from radio loop.				

SERVICING GUIDE - BRIEF FAULT CHECKING PROCEDURE (ADDITIONS)

1 RADIO DOES NOT OPERATE:

- Battery is normal with specified voltages and current approximately 5 ma.
- Due to trapped or pinched lead after replacing set in cabinet during servicing - causes short circuit.

11 IF STATIC IS HEARD FROM THE SPEAKER, BUT NO SIGNAL:

- A "click" is heard by touching the slider of volume control.
- Short circuit between I.F. winding and case.

111 IF STATION IS HEARD, BUT POOR RECEPTION:

Distortion:-

- If current through R12 is less than 1-1.5 m/a - replace R12 with a 4.5K ohm resistance or similar value to bring current within limits of 1-1.5 m/a.

NOTE: Use voltage tabulation overleaf for initial checking during servicing.