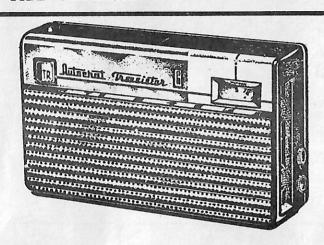
Autocrat

MODEL 6C-15

ALL TRANSISTOR PORTABLE



MODEL 6C-15
TRANSISTOR PORTABLE

SPECIFICATION.

TYPE:

6 transistor, 1 diods

FREQUENCY COVERAGE.

540-1600 Kc/B

INTERMEDIATE FREQUENCY.

455 Kc/8

OUTPUT.

90 MW

SPEAKER.

21" P.M. 7 ohm

TRANSISTORS.

25A1 80 25A1 81 25A1 84

Mixer 1st I.F. AMP 2nd I.F. AMP

2SA185 2SA187

1st A.F. AMP P.P. Output.

DIODE.

1N60

Detector

VARISTOR.

SV-20

Thermal compensator

BATTERIES.

1 - 9 volt No. 216

ALIGNMENT PROCEDURE.

GENERAL. Allow the test equipment to warm up for fifteen minutes before starting the elignment procedure.

OUTPUT METER. Connect the output meter (a 1000-chm-per-volt, a-c volt meter or an oscilloscope) across the voice coil terminals.

SIGNAL GENERATOR. Use an AM r-f signal generator, Connect the ground lead to gang GND point, and connect the output as indicated in the alignment chart.

OUTPUT LEVEL. Attenuate the signal-generator output throughout the alignment so as to maintain the output level below 0.5 volt.

CONTROLS. Set the volume control to maximum. Set the tuning control as indicated in the alignment chart. During alignment of the radio, the battery should be in the same position with respect to the chassis and the loop antenna as they normally are in the cabinet.

O _P	SIGNAL GENERATOR		RADIO			
T	CONNECTION TO RADIO	FREC.	SETTING		ADJ.	
1.	Connect signal generator through a .1 ufd condenser to ant. section of gang		Tuning gang fully open	Adjust for maximum out put in order given	IFT1 IFT3	
2.	Use radiating loop	600 Ke.	600 Kc.	Adjust for maximum out put Rock tuning gang while making this ad- justment, and slide aerial coil on rod	L 4 - osc. core	
3.	Same as step 2	1400 Kc.	1400 Kc.	Adjust for maximum output	Osc. Trimmer	
	Same as step 2	1400 Kc.		Adjust for maximum output	Ant. Trimmer	
5.	Repeat steps 2, 3 and	4 until	no further i	mprovement is obtained.		

5. Repeat steps 2, 3 and 4 until no further improvement is obtained.
Always stop on step 5.

NOTE 1. Use a 6- to 8 turn, 6 inch - diameter loop made up of insulated wire.

Connect to generator terminals, and place about one foot from radio loop.

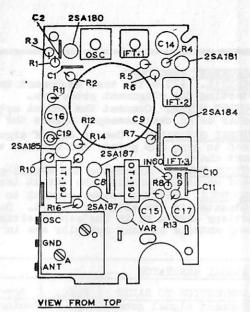
SERVICE GUIDE - BRIEF FAULT CHECKING PROCEDURE. (ADDITIONS TO SERVICE MANUAL 6C-11 ISSUE 1)

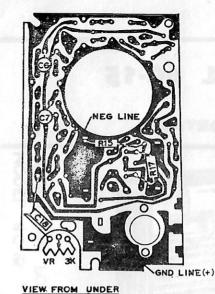
1. 4.b. Due to trapped or pinched lead after replacing set in cabinet during servicing - causes short circuit.

2. 1.f. Short circuit between I.F. winding and case.

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

ITEM	VALUE	ITEM	VALUE	1TEM	P. No.
Ri	40K-20%	Ct	-002uF	TR1	2\$A180
R2	5-6K-10%	C2	•005 gF	TR2	25A161
R3	2-2K-10%	СЗ	180pF	TR3	25A184
R4	90K-10%	C4	180 pF	TR4	258185
R5	22K-10%	C5	180pF	TR5-6	25B187
R6	2-2K-10%	C6	10pF	Varistor	SV-20
R7	1K-10%	C7	5 pF	Diode	IN-60
RB	200-20%	СВ	-02uF	IFT-1	6038F
R9	5-6K-20%	Co	-04uF	IFT-2	6029R
R10	22K-20%	C10	-01 uF	IFT-3	6022R
R11	4K-20%	C11	-OluF		
R12	1K-20%	C12	-002uF		
R13	200-20%	C14	30uF6v		
R14	7K-10%	C15	30uF6v		
R15	200-20%	C16	30uF6v		
R16	10-10%	C17	20uF9v		
R17	470-10%	C18	5uF 3v	25:20	
VR	зк	C19	5uF 6v		





TYPICAL CIRCUIT MEASUREMENTS (Batt 8-5-9-0v. Voltage From Batt NEG To ANT GND OSC(on gang) 8-5 90v Across C6 Without Sig. 6-0v, With Sig. 7-0v 0-35-0-25 " C14,C15 * 0.75-085v* " C18 0-50v 0-75v " C19 1.25v * C7 7.0v " C16 1-0v " C17 7-5 - 8-0v 0-8v R2 R14 8.0v R16 0.2 v Without Sig. 0.6v, With Sig. 0.5v

ABOVE MEASUREMENTS TAKEN WITH 20,000 A/V METER

TIEW FROM SHOE

CIRC. BOARD DIAG.

