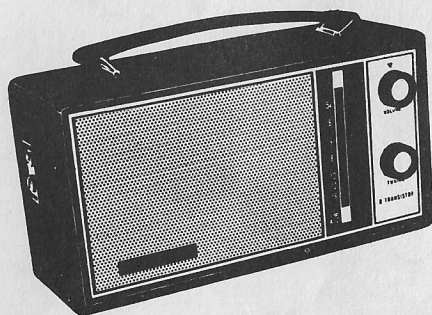


AUTOCRAT SERVICE MANUAL

ALL TRANSISTOR PORTABLE



MODEL: **8C-310**

FREQUENCY RANGE :

527 - 1630 Kc/s

INTERMEDIATE FREQUENCY :

455 Kc/s

TRANSISTORS :

2SA203 FREQUENCY CONVERTER
2SA202 1ST IF AMPLIFIER
2SA197 2ND IF AMPLIFIER
2SB185 x 3 AF AMPLIFIER
2SB187 x 2 POWER AMPLIFIER

DIODE :

1S188

THERMISTOR :

SDT-20

POWER OUTPUT :

UNDISTORTED 160 MW
MAXIMUM 250 MW

BATTERY :

3 x D SIZE FLASH LIGHT
(EVEREADY 1050 OR 950)

LOUDSPEAKER :

3 $\frac{1}{8}$ " PERMANENT DYNAMIC
VOICE COIL IMPEDANCE 7 Ω

CURRENT DRAIN :

NO SIGNAL 15 MA
MAXIMUM 150 MA

ALIGNMENT PROCEDURE :

GENERAL : ALLOW THE TEST EQUIPMENT TO WARM UP FOR FIFTEEN MINUTES BEFORE STARTING THE ALIGNMENT PROCEDURE.

OUTPUT METER : CONNECT THE OUTPUT METER (A 1000-OHM-PER-VOLT OR MORE A.C. VOLTMETER) ACROSS THE VOICE COIL CONNECTIONS.

SIGNAL GENERATOR : USE AN A.M. R.F. SIGNAL GENERATOR. CONNECT THE OUTPUT AS SHOWN IN THE CHART.

OUTPUT LEVEL : ATTENUATE THE SIGNAL GENERATOR OUTPUT THROUGHOUT THE ALIGNMENT SO AS TO MAINTAIN THE OUTPUT LEVEL BELOW 0.2 VOLTS.

CONTROLS : SET THE VOLUME CONTROL TO MAXIMUM. SET THE TUNING CONTROL AS INDICATED IN THE CHART.

RADIATING LOOP : SIX TURNS OF WIRE, SIX INCHES DIAMETER.

STEP	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	ADJUST FOR MAXIMUM OUTPUT
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IF ALIGNMENT

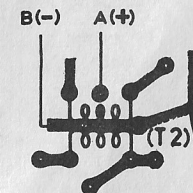
1.	RADIATE SIGNAL THROUGH A LOOP COIL CONNECTED TO SIGNAL GENERATOR OUTPUT CABLE.	455 Kc/s	LOWER END	IF TRANSF. T3 IF TRANSF. T2 IF TRANSF. T1
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BROADCAST RF ALIGNMENT

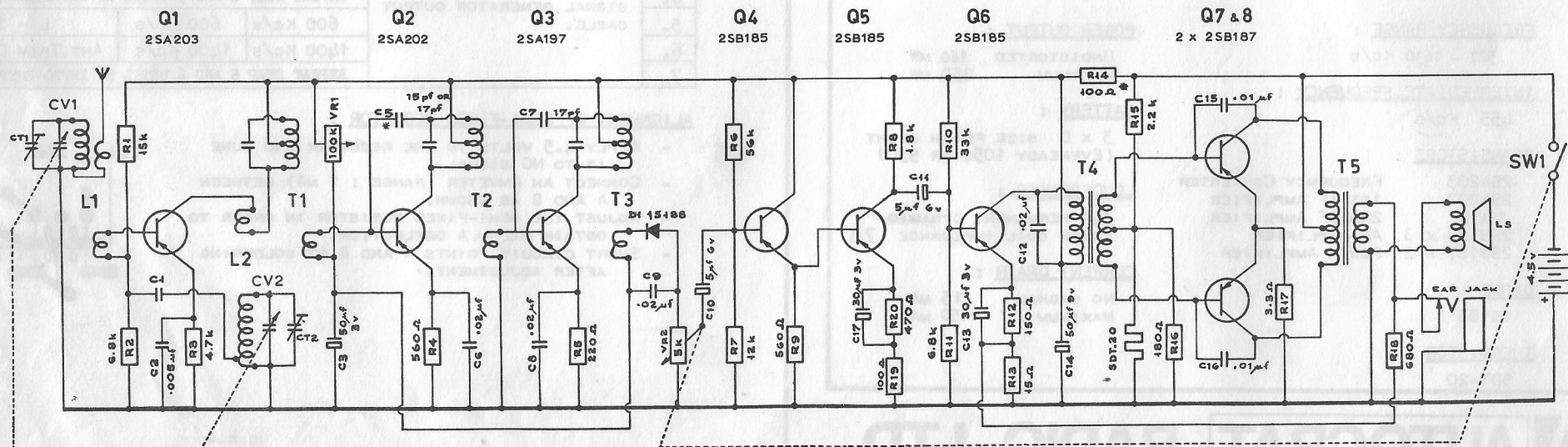
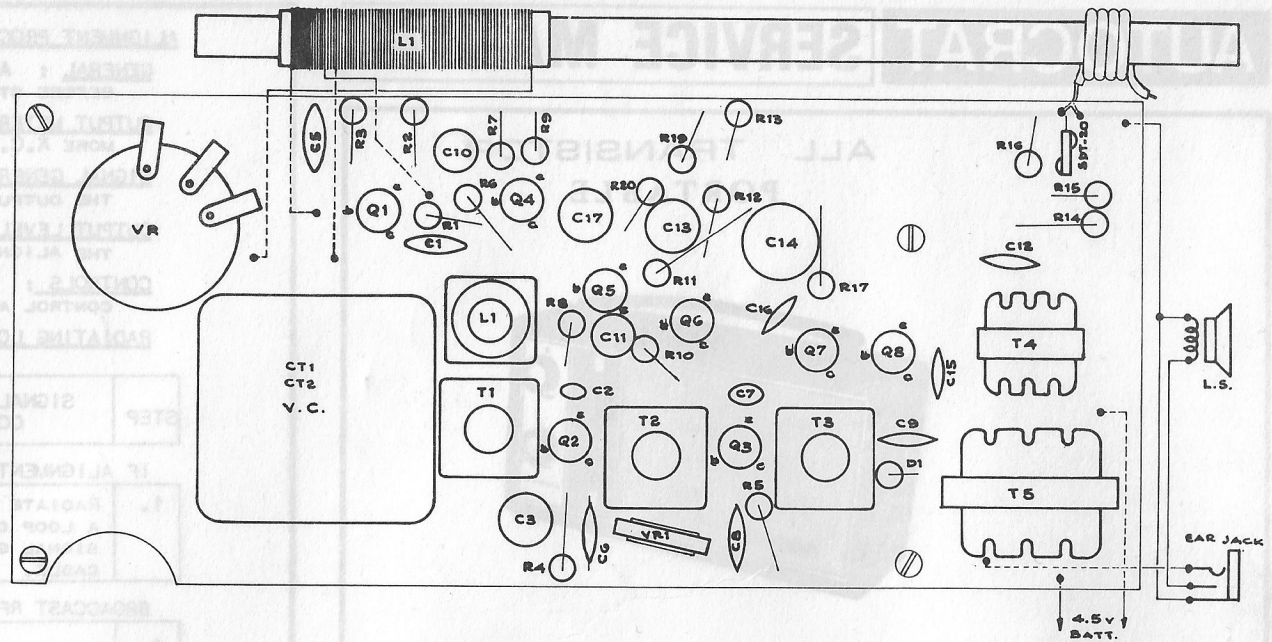
2.		520 Kc/s	LOWER END	L - 2
3.		1650 Kc/s	UPPER END	Osc. TRIM CT-2
4.	RADIATE SIGNAL THROUGH A LOOP COIL CONNECTED TO SIGNAL GENERATOR OUTPUT CABLE.	REPEAT STEP 2 AND 3 UNTIL NO IMPROVEMENT		
5.		600 Kc/s	600 Kc/s	L - 1
6.		1400 Kc/s	1400 Kc/s	ANT. TRIM CT-1
7.		REPEAT STEP 5 AND 6 UNTIL NO IMPROVEMENT		

ALIGNMENT OF SEMI-FIXED RESISTOR :

- APPLY 4.5 VOLTS TO THE RECEIVER AND TUNE IT TO NO SIGNAL.
- CONNECT AN AMMETER (RANGE : 1 MA) BETWEEN A AND B AS SHOWN.
- ADJUST THE SEMI-FIXED RESISTOR IN ORDER TO OBTAIN 400 μ A DEFLECTION.
- SHORT CIRCUIT POINTS A AND B BY SOLDERING AFTER ADJUSTMENT.



VIEWED COMPONENT SIDE



NOTE:

* TOLERANCE 20%, ALL OTHER COMPONENTS 10%