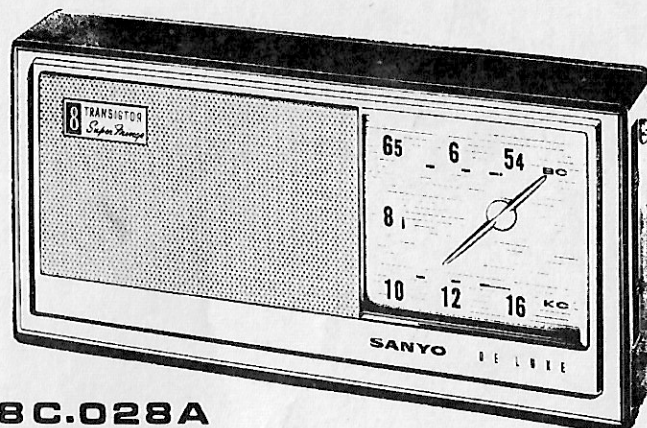


Autochat

ALL TRANSISTOR PORTABLE



MODEL: 8C.028A

FREQUENCY RANGE

530 - 1605 Kc/s

INTERMEDIATE FREQUENCY

455 Kc/s

TRANSISTORS

2SA220 R.F. AMPLIFIER
2SA203 FREQUENCY CONVERTER
2SA202 1ST I.F. AMPLIFIER
2SA203 2ND I.F. AMPLIFIER
2SB185 1ST A.F. AMPLIFIER
2SB185 2ND A.F. AMPLIFIER
2SB187 x 2 POWER AMPLIFIER
(CLASS B PUSH-PULL)

DIODE

1S188

THERMISTOR

SDT 20

POWER OUTPUT

UNDISTORTED 150 MW
MAXIMUM 250 MW

BATTERIES

4 x C SIZE EVEREADY 1035
OR 935 OR EQUIVALENT.

LOUDSPEAKER

3½" PERMANENT MAGNET DYNAMIC
VOICE COIL IMPEDANCE 7 OHMS.

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.

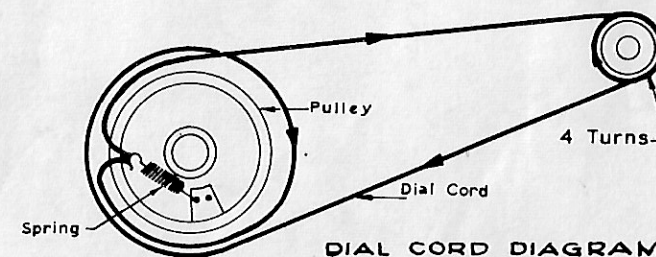
OUTPUT LEVEL : ATTENUATE THE SIGNAL GENERATOR OUTPUT THROUGHOUT THE ALIGNMENT SO AS TO MAINTAIN THE OUTPUT LEVEL BELOW 0.2 VOLTS.

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

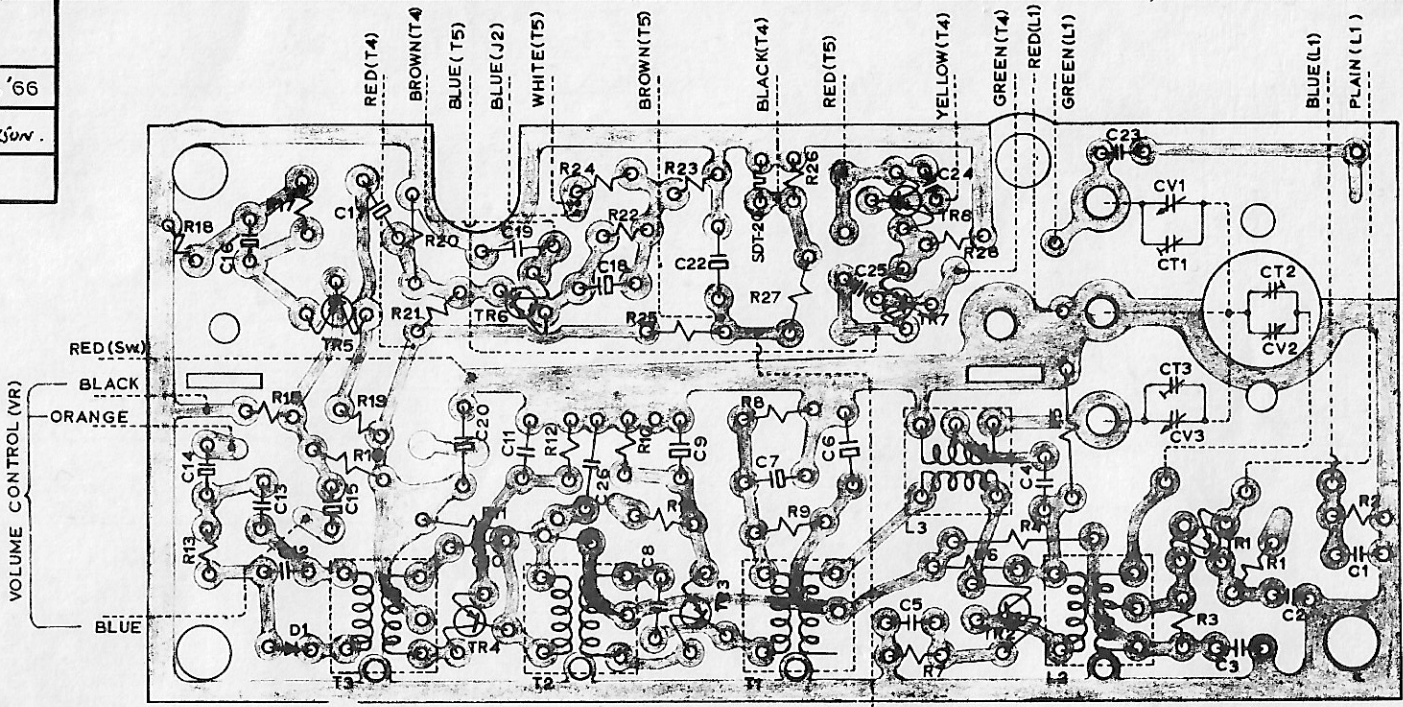
RADIATING LOOP : SIX TURNS OF WIRE, SIX INCHES DIAMETER.

OPTN	CONNECTION TO RADIO	SIG.GEN.	DIAL	INSTRUCTIONS	ADJUST
1.	THROUGH .1 MFD CAPACITOR TO CT2 ON GANG.	455 Kc/s	HIGH LIMIT	ADJUST FOR MAXIMUM IN ORDER GIVEN.	I.F.T. 1,2,3.
2.	USE RADIATING LOOP CONNECTED TO S.G. TERMINALS.	530 Kc/s	LOW LIMIT.	ADJUST FOR MAXIMUM OUTPUT	Osc. COIL L3
3.	SAME AS STEP 2	1680 Kc/s	HIGH LIMIT	ADJUST FOR MAXIMUM OUTPUT	Osc. TRIMMER CT 3
4.	SAME AS STEP 2	600 Kc/s	600 Kc/s	ADJUST FOR MAXIMUM OUTPUT	R.F. COIL L2 ANTENNA COIL L1
5.	SAME AS STEP 2	1400 Kc/s	1400 Kc/s	ADJUST FOR MAXIMUM OUTPUT	RF TRIMMER CT2 ANT. TRIMMER CT1

REPEAT OPERATIONS 2, 3, 4, AND 5 UNTIL NO FURTHER IMPROVEMENT IS OBTAINED. ALWAYS STOP ON OPERATION 5.

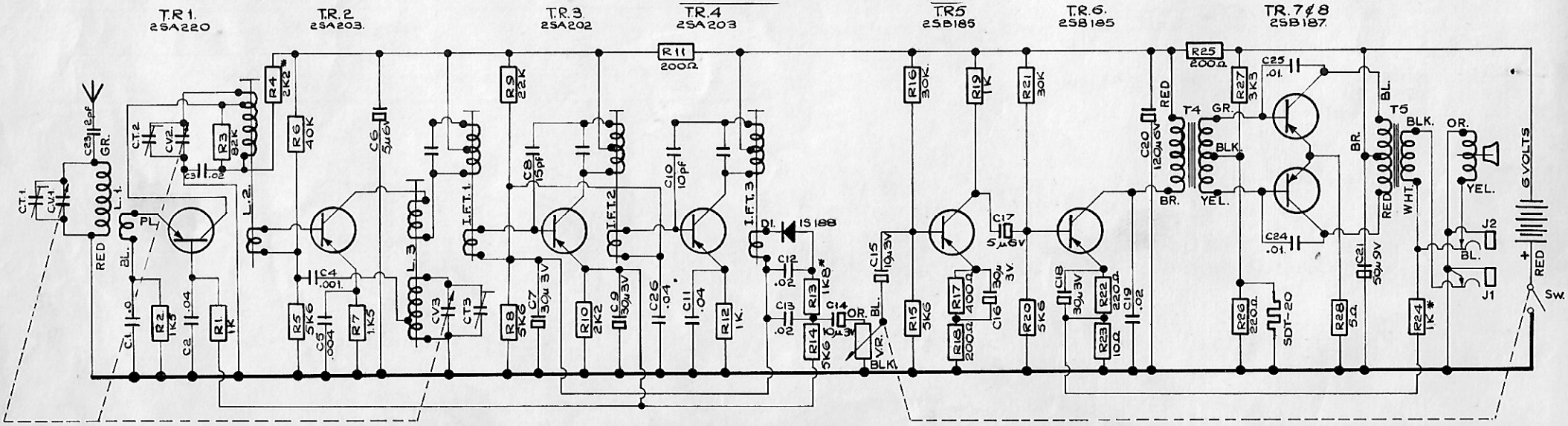


CIRCUIT and PRINTED PANEL MODEL 8C.028A	
DRN : TW	DATE : 23.5.'66
CHKD : <i>AL</i>	APPD : <i>Robinson</i>
AUTOCRAT RADIO LTD.	



- VIEWED FROM COPPER SIDE -

Batt. - VE



NOTES:
1) Resistances marked * 20% TOLERANCE all others 10%