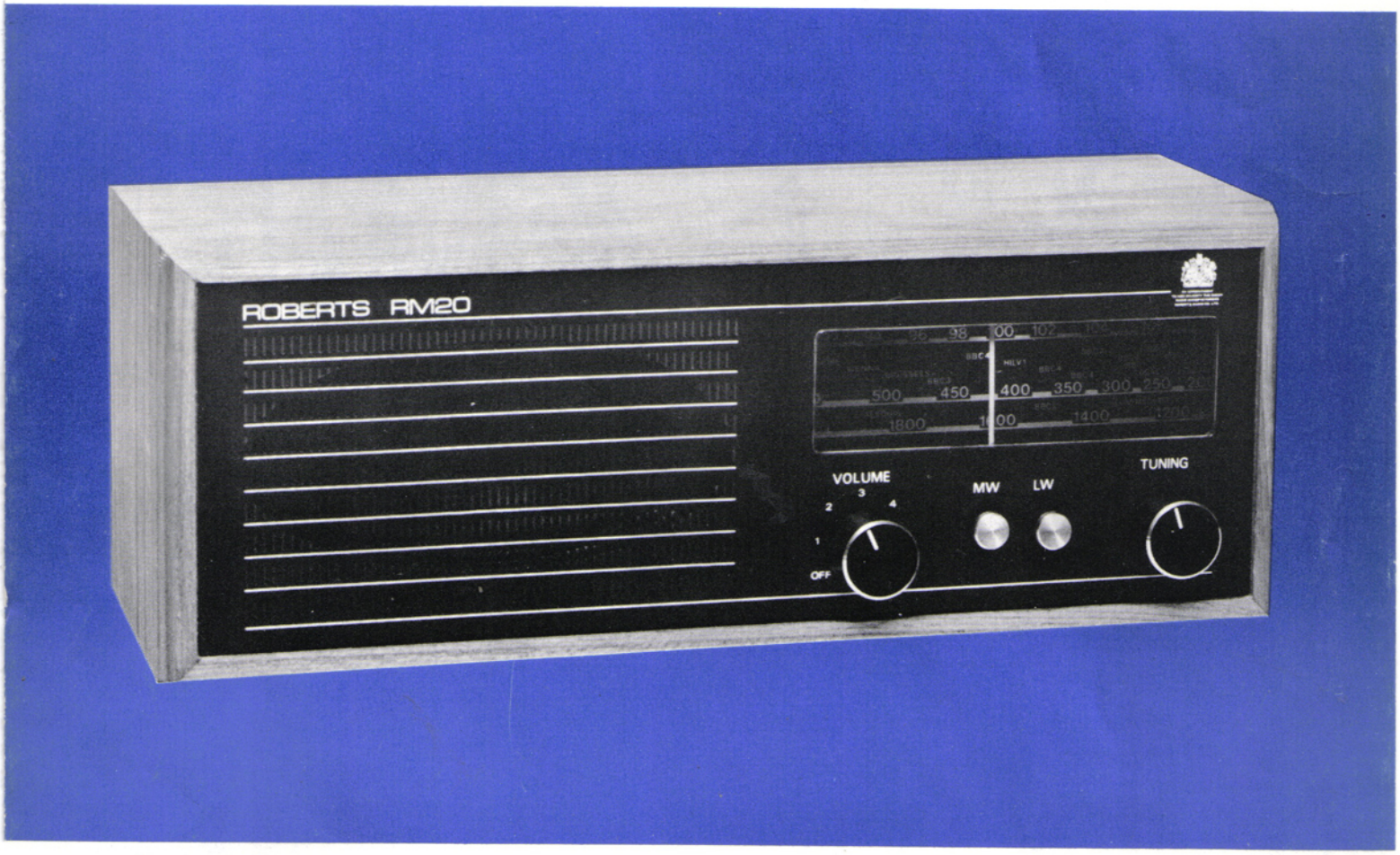
BY APPOINTMENT
TO HER MAJESTY THE QUEEN
RADIO MANUFACTURERS
ROBERTS RADIO CO. LTD.

The Roberts RM20

MW & LW TRANSISTOR MAINS RADIO

TECHNICAL DATA



Specification

SEMICONDUCTORS
8 transistors
1 diode
1 bridge rectifier

WAVE BAND COVERAGE
MW 185-570 metres (1630-525 kHz)
LW 1132-2000 metres (265-150 kHz)

POWER OUTPUT
2W nominal, continuous sinewave

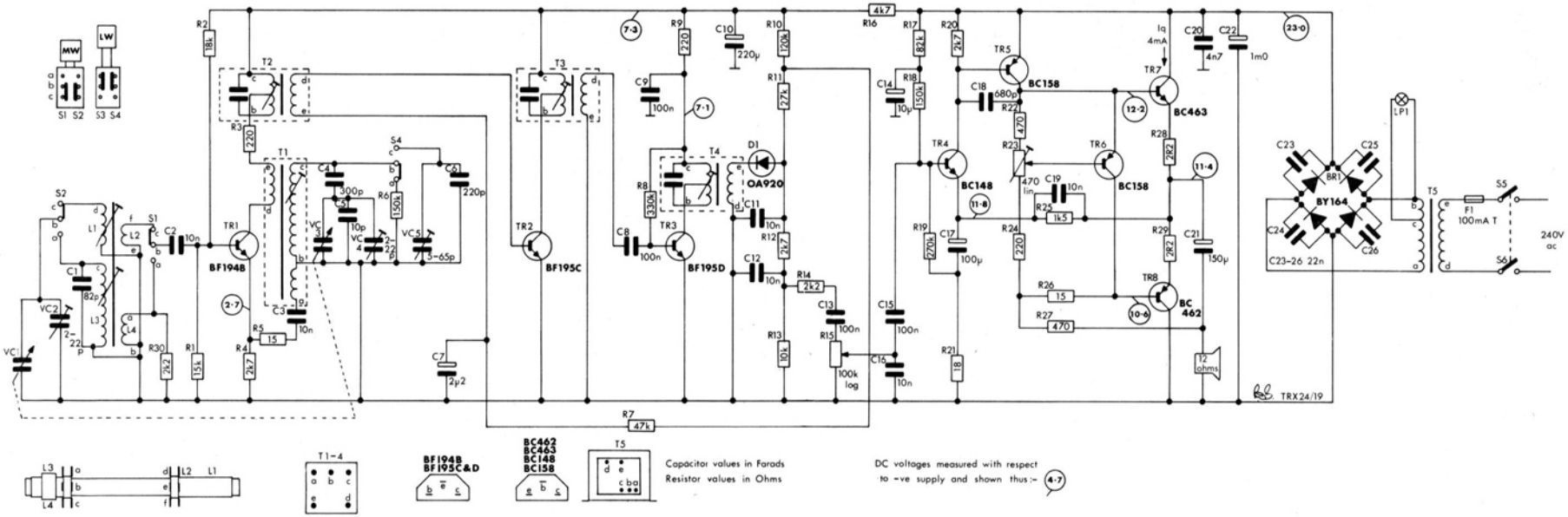
LOUDSPEAKER
136 x 70 mm, 12 ohms impedance

POWER SUPPLY
240 V 50 Hz mains

Dismantling

1. Remove two screws securing the cabinet back and volume & tuning control knobs.
2. Remove six screws on underside of cabinet.
3. The main chassis and power unit chassis may then be removed from rear of cabinet.

CIRCUIT DIAGRAM

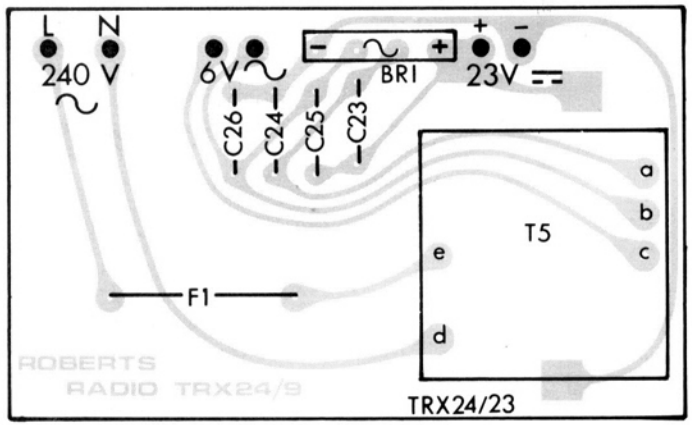


ALIGNMENT

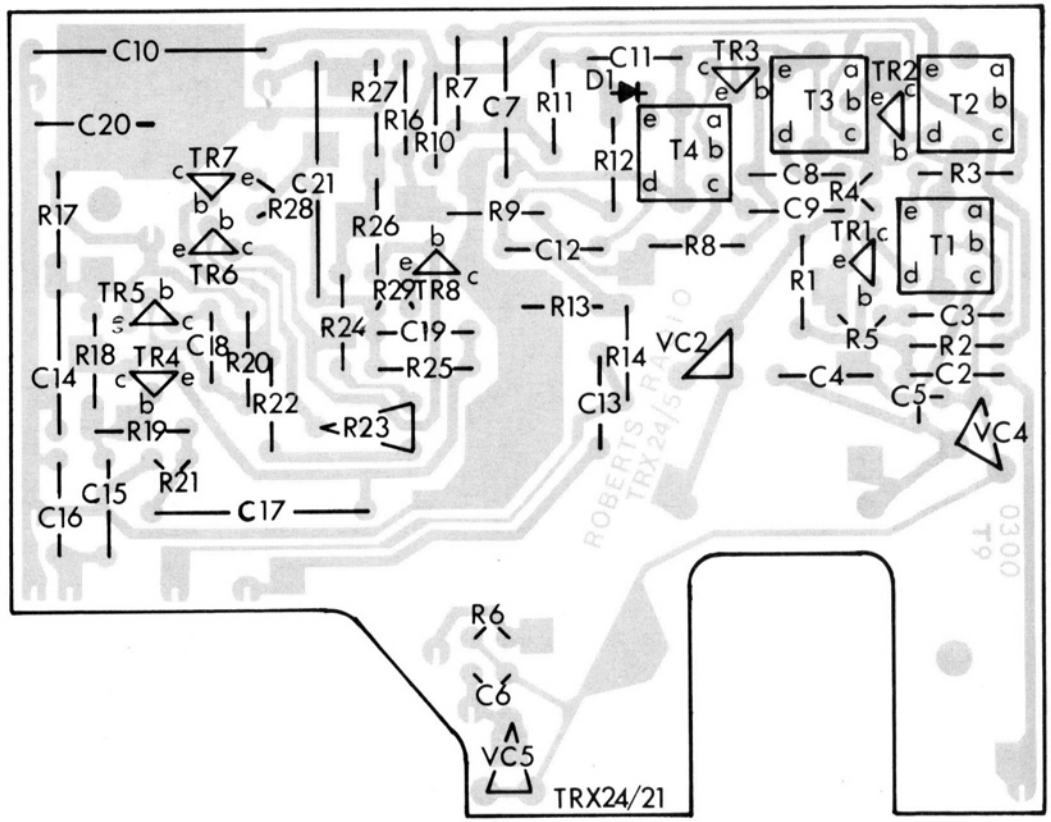
ENSURE:—Gang to max. Pointer coincides with datum marks at right-hand end of scale.

	WAVE-BAND	POINTER	SWEEP/SIGNAL GENERATOR			INDICATOR	CONNECT	ADJUST	INDICATION
			INJECT	FREQUENCY	MOD				
1	—	—	—	—	—	mA meter	In series with +ve supply line	R23 fully anticlockwise	Read mA with R23 in this position
2	—	—	—	—	—	As 1	As 1	R23	Position 1 reading + 4 mA
3	MW	—	Across L1	470 kHz	25 kHz deviation	O'scope	Junction C13/R14 & chassis	T2, T3 & T4	Max. O/P & symmetry
4	MW	200 m	Via coupling loop	1500 kHz	30% AM	AC Voltmeter	Across loudspeaker	VC4 & VC2	Max. O/P
5	MW	536 m	As 4	560 kHz	As 4	As 4	As 4	T1 & L1	Max. O/P
6	LW	200 m	As 4	261 kHz	As 4	As 4	As 4	VC 5	Max. O/P
7	LW	536 m	As 4	156 kHz	As 4	As 4	As 4	L3	Max. O/P

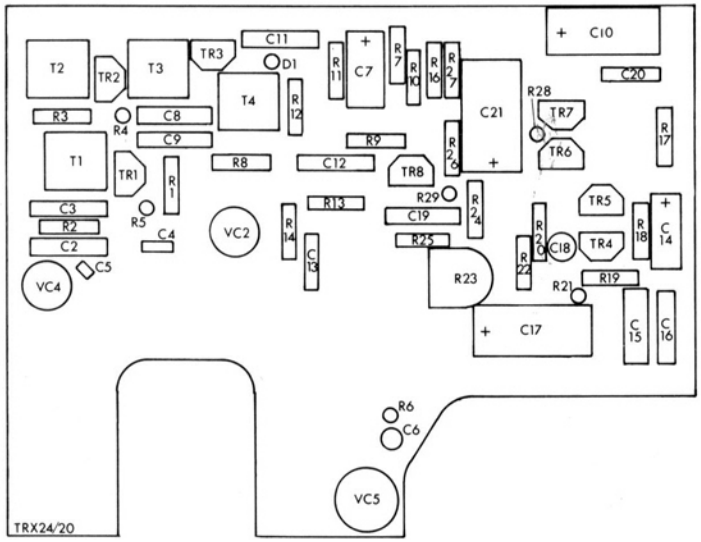
POWER SUPPLY BOARD LAYOUT



MAIN BOARD LAYOUT—UNDERSIDE



MAIN BOARD LAYOUT—TOPSIDE



CORD DRIVE