



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

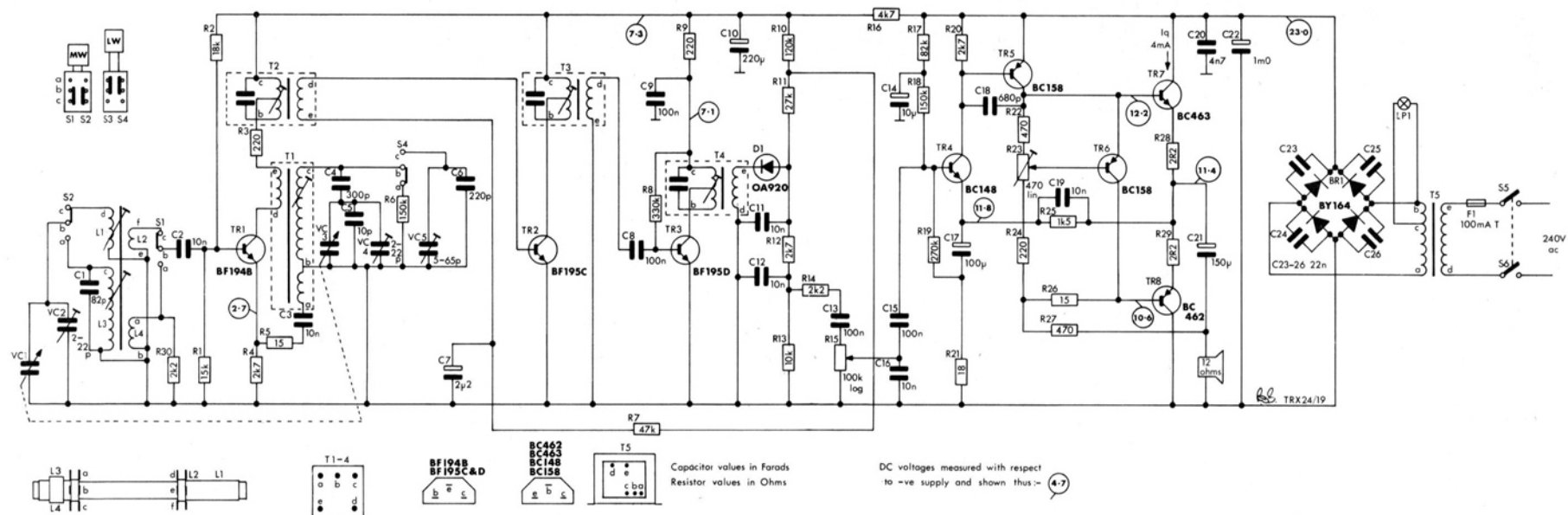
### POWER SUPPLY

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

Diagram of the TRX24/23 chassis showing component locations and wiring. The diagram includes labels for terminals L (240V) and N, a 6V transformer with primary terminals C26, C24, C25, and C23, a BRT component, a 23V transformer with primary terminals + and -, a fuse F1, and a transformer T5 with terminals a, b, c, d, and e. The text "ROBERTS RADIO TRX24/9" and "TRX24/23" are also present.

E

Diagram illustrating a rectangular loop circuit. The top horizontal segment is labeled "TRX24/22". The left vertical segment contains a coil with a dashed circle around it. The bottom right corner features a component labeled "2 TURNS" with a dashed circle around it. A vertical line extends upwards from the top right corner, ending in a rectangular box.