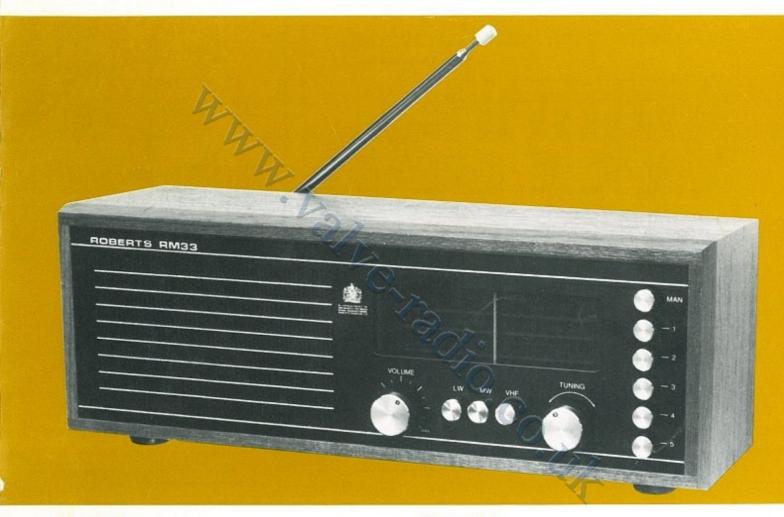


The Roberts

VHF, MW & LW TRANSISTOR MAINS RADIO

Technical Data



Specification

SEMICONDUCTORS

5 transistors

2 integrated circuits

3 diodes

1 bridge rectifier

3 varicap diodes

WAVE BAND COVERAGE

VHF MAN 87.5-104.5 MHz VHF PRESET 5 Presets each covering above range MW 525-1630 kHz LW 150-265 kHz

POWER OUTPUT

2W nominal, continuous sinewave

LOUDSPEAKER

136 x 70 mm, 12 ohms impedance

POWER SUPPLY

240 V 50 Hz mains

Dismantling

- Remove volume and tuning control knobs and three screws securing cabinet back, disconnect telescopic aerial.
- 2. Remove six screws on underside of cabinet.
- The main chassis and power unit chassis may then be removed from rear of cabinet.

SETTING UP VHF TUNING VOLTAGE

(Note: Voltages are positive with respect to tuner can not chassis.)

- Switch to VHF (Manual)
- Slacken screw on drive spindle of R6
- 3. Set pointer to HF end of scale using TUNING control
- 4. Set voltage on TR1 collector to 12.3 Volts by means of R13
- Adjust R6 by means of screwdriver slot at rear of control to give 12 Volts on R6 slider.

- Tighten screw on R6 drive spindle.
- Check that voltage on slider of R6 has remained at 12 Volts.Correct small errors (not greater than 0.1 Volts) by menas of R13.
- 8. Set pointer to LF end of scale using TUNING control.
- 9. Adjust R7 to give 2 Volts on slider of R6.
- Repeat operations 7-9 if necessary.

ALIGNMENT

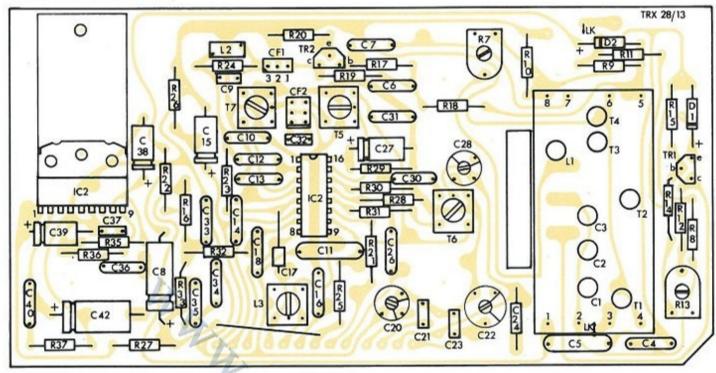
ENSURE: - With Gang at max pointer coincides with datum marks at right-hand end of scale

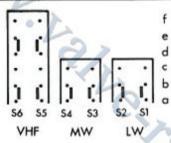
5	m	-	2	ω	4		Ø
	BAND	WW	WW	WW	LW	LW	VHF
POINTER	CINICO		HF Cal Mark	LF Cal Mark	HF Cal Mark	LF Cal Mark	RH end
SWEEP	INJECT	Across L4	Via Coupling Loop	As 2	As 2	As 2	Aerial I/P tag
SWEEP/SIGNAL GENERATOR	FREQUENCY	470 kHz	1500 kHz	560 kHz	261 kHz	156 kHz	Approx. 87.5 MHz
TOR	MOD	25 kHz Deviation	30% AM	As 2	As 2	As 2	1 MHz Deviation
INDICATOR		O'scope Sensitivity 100mV/Div	As 1	As 1	As 1	As 1	O'scope Sensitivity 200 mv/Div
CONNECT		Jungtion R32 & 33 & Chassis	As 1	Asj	As 1	As 1	As 1
ADJUST		T5 & T7	C28 & C20	T6 & L4	C22	L6	L3*
INDICATION		Max O/P & Symmetry (Adjust I/P to maintain picture height of 4 Divs)	Max O/P	Max O/P	Max O/P	Max O/P	Symmetrical S curve. (Adjust I/P to give picture height of 5 Divs)

^{*}Note for step 6 S/C C15 (Disable Interstation Muting) & S/C C5 (Disable AFC)

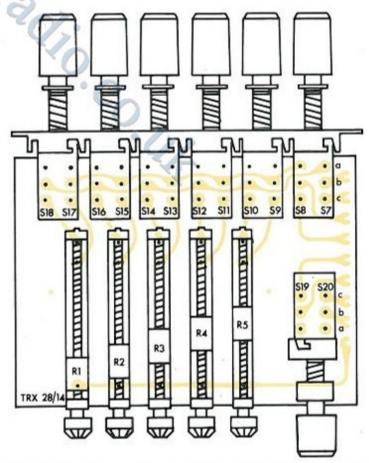
The FM Tuner unit is preligned in the factory and, since specialised equipment is required for this purpose, no instructions are given. In the event of any fault remove the complete module and return to Roberts Radio for replacement.

MAIN BOARD LAYOUT

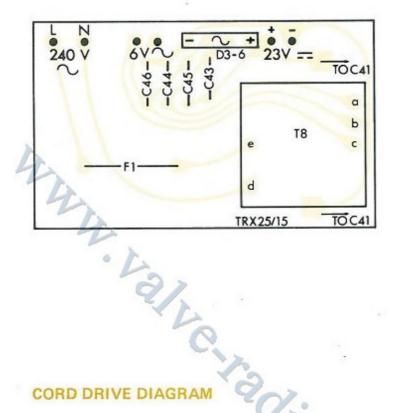








POWER SUPPLY BOARD LAYOUT



CORD DRIVE DIAGRAM

