



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

THE ROBERTS R24

FM/AM Mains Battery Portable

Technical Data



SPECIFICATION

SEMICONDUCTORS

2 integrated circuits
3 transistors
13 diodes

WAVEBAND COVERAGE

MF 530-1610 kHz
LF 150-265 kHz
VHF 88-104 MHz

POWER OUTPUT

750 mW nominal, continuous sinewave

LOUDSPEAKER

100mm (4.0") round, 8 ohms impedance

BATTERY

9 V PP9 (VT9) type

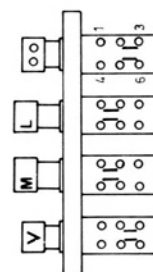
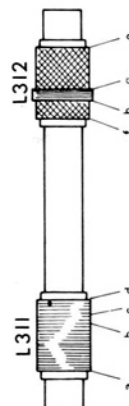
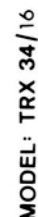
MAINS SUPPLY

240 V 50 Hz

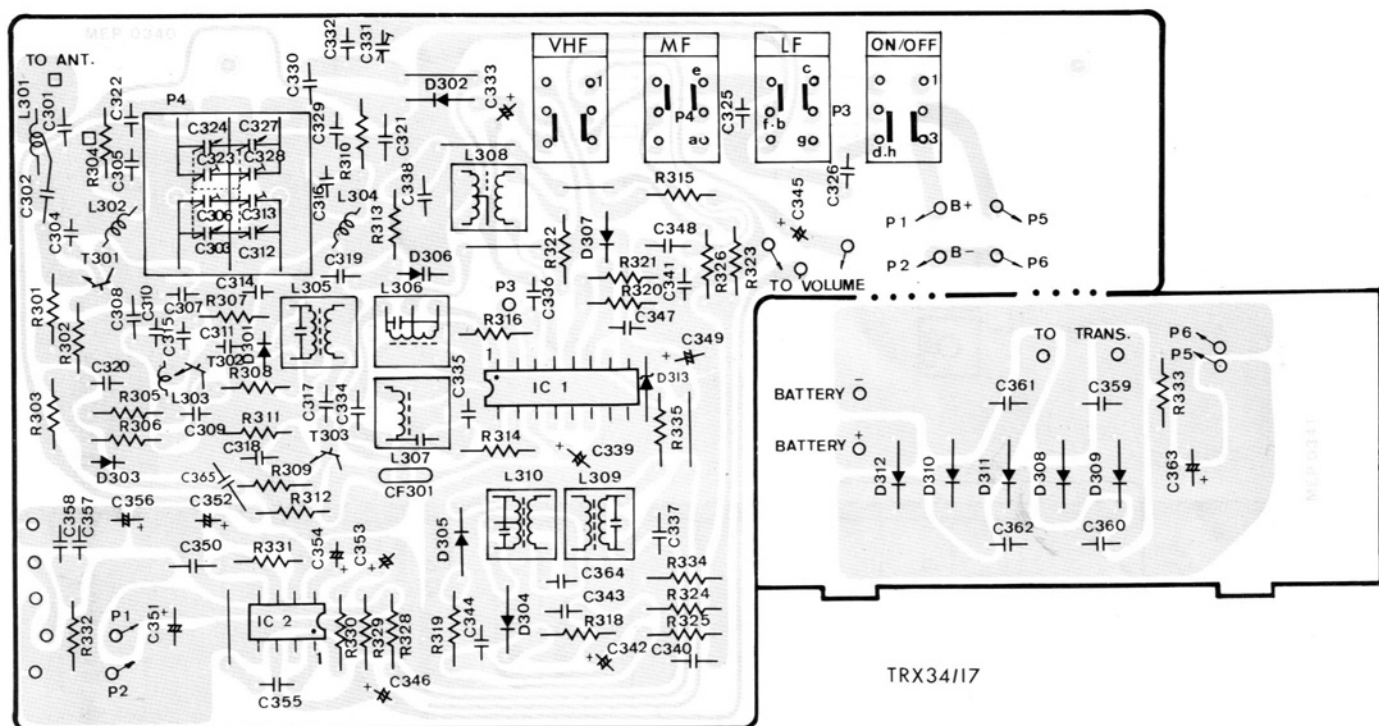
Dismantling

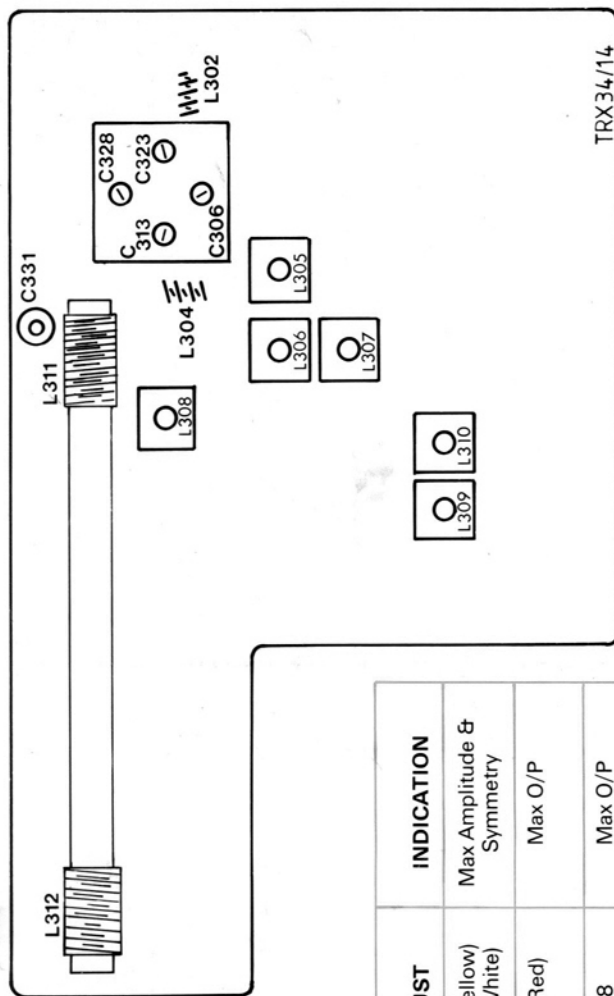
1. Remove base, quick release fastener and flange head screw, disconnect loudspeaker and power supply.
2. Remove screw retaining telescopic aerial, remove flange head screw at either end of case (above handle fixing).
3. Ease complete chassis out from top of case.
4. PSU may be removed through bottom of case after removing screw securing it to rear of case.

CIRCUIT DIAGRAM



MAIN BOARD LAYOUT





ALIGNMENT

WITH GANG AT MAX POINTER SHOULD COINCIDE WITH DATUM MARKS AT LEFT HAND END OF SCALE
ALL SIGNALS INJECTED VIA COUPLING LOOP

	WAVE-BAND	SWEEP/SIGNAL GENERATOR		POINTER	INDICATOR	ADJUST	INDICATION
1	MF	468 kHz	25 kHz Deviation	LF End	Scope across C341	L306 (Yellow) L307 (White)	Max Amplitude & Symmetry
2	MF	525 kHz	30% AM	LF End	Scope across C341 or output meter	L308 (Red)	Max O/P
3	MF	1630 kHz	30% AM	HF End	-- as 2 --	C328	Max O/P
4	MF	560 kHz	30% AM	Tune to signal	-- as 2 --	L311	Max O/P
5	MF	1500 KHz	30% AM	Tune to Signal	-- as 2 --	C323	Max O/P
REPEAT 2-5 FOR OPTIMUM RESULTS							
6	LF	270 kHz	30% AM	HF End	-- as 2 --	C331	Max O/P
7	LF	200 kHz	30% AM	200 kHz	-- as 2 --	L312	Max O/P
For following Adjustments Maintain I/P Below Limiting							
8	VHF	88 MHz	1 MHz Deviation	Tune to signal	Scope across C340	L305, L309 & L310 Orange, Pink, Blue	Max Amplitude & Symmetry of S Curve
9	VHF	87.4 MHz	22.5 kHz Deviation	LF End	Scope across C340 or output meter	L304 & L302	Max O/P
10	VHF	104.5 MHz	22.5 kHz Deviation	HF End	-- as 9 --	C313 & C306	Max O/P
REPEAT 9 & 10 FOR OPTIMUM RESULTS							

The company reserves the right to amend the specification without notice.



BY APPOINTMENT
TO HER MAJESTY THE QUEEN
RADIO MANUFACTURERS

ROBERTS RADIO COMPANY LTD

REGISTERED No 327176 ENGLAND

REGISTERED OFFICE

MOLESEY AVENUE · WEST MOLESEY · SURREY KT8 0RL

TELEPHONE 01 979 7474

TELEX 269854

TELEGRAMS ROBRAYS EAST MOLESEY

Ref: GVDN/LAS

2nd December, 1983.

The Service Manager

Dear Sir,

Battery Consumption on Model R24

We regret to advise you that some samples of Model R24 receivers, prior to Serial Number 6911 are fitted with a 2K2 resistor across the output of the mains power supply, which has the effect of reducing the expected battery life.

This resistor, R333, should be removed. It is, however, important that C351, the 1000 mf smoothing capacitor, is rated at 16 volts. Should the capacitor be rated below 16 volts, it should be replaced and a free of charge replacement will be supplied by return of post or telephone call. This modification is easily carried out by removing the power supply unit, which is held in by one screw.

May we suggest that you check your stock of any receivers prior to Serial Number 6911 and modify where necessary. Would you also kindly advise your selling staff of this matter.

We sincerely apologise for any inconvenience caused to you or your customers and, in anticipation, thank you for your co-operation.

Yours faithfully,

G.V. DIXON-NUTTALL
Technical Director