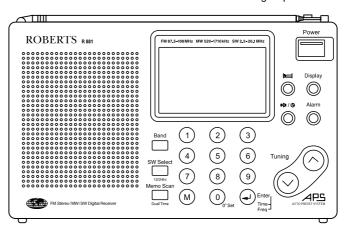
R881

Multi-band digital preset stereo world radio



Please read this manual before use

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	Direct access to Shortwave bands Memory scan

Features

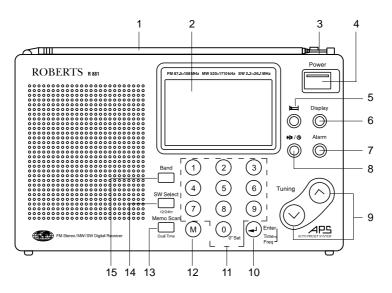
- Large easy to read Liquid crystal display (LCD) showing station frequency, dual time, memory location and function status.
- Direct frequency entry by keypad allowing instant access to any station.
- Forty five memory presets offer instant access to your favourite stations on MW, SW and FM.
- Dual time facility allows you to preset your local time or UTC time, or any two time zones with instant recall.
- Scanning circuit allows you to search for active stations.

- SW metre buttons offer instant selection of any desired SW band.
- APS (Auto Tuning System) which automatically scans MW, and FM bands selecting presets based on station signal strength.
- Adjustable sleep timer allows you to fall asleep to music.
- Snooze function turns off alarm for six minutes.

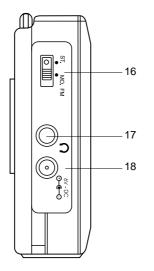
Control locations

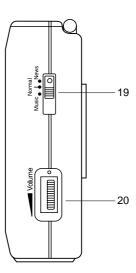
- Telescopic aerial.
- 2. Liquid crystal display.
- 3. Light button.
- 4. Power button.
- 5. Sleep button.
- 6. Display button.
- 7. Alarm button.
- 8. Alarm select button (radio/buzzer).
- 9. Manual/auto scan tuning buttons.
- 10. Enter button for frequency and time.

- 11. Number buttons for frequency and time.
- 12. Memory set button.
- 13. Memory and dual time button.
- 14. SW band and 12/24 hour select button.
- 15. Waveband select button.

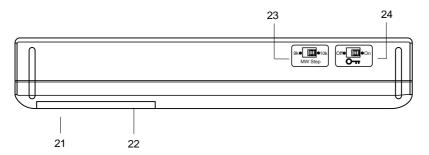


- 16. Mono/stereo switch
- 17. Earphone socket.
- 18. DC input socket.
- 19. Tone control.
- 20. Volume control.



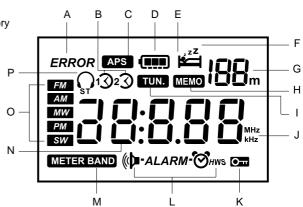


- 21. Battery cover.
- 22. Reset button (in battery compartment).
- 23. 9/10kHz MW step switch.
- 24. Lock switch



Display information

- A. Error indicator.
- B. Time zone 1 or 2 indicators.
- C. APS (auto preset system) indicator.
- D. Battery level indicator.
- E. Sleep indicator.
- F. Snooze indicator.
- G. Seconds, Shortwave meter band and Memory indicator.
- H. Memory indicator.
- I. Tuning indicator.
- J. Frequency units indicator.
- K. Key lock indicator.
- Alarm indicators.
- M. Meter band indicator.
- N. Frequency and time digits.
- Waveband and AM/PM indicators.
- Waveband and AM/PM indicators.
- P. FM stereo indicator.



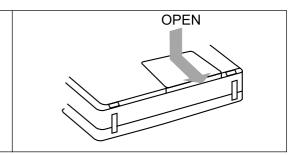
This radio can be operated using:-

4 Alkaline LR6 (AA size) batteries.

AC adaptor (not supplied).

Installing batteries

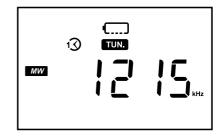
- 1. Position the radio face down.
- Press the catch marked "OPEN" and slide in the direction shown.



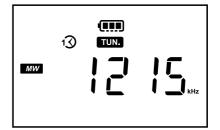
3. Insert 4 x LR6 (AA) size batteries as shown in the diagram. 4. Replace the battery cover as shown in the diagram. **PRESS**

Battery replacement

The battery indicator will display the battery condition for approx. 7 seconds after the radio is switched on. When the battery level indicator shows ______ the batteries should be replaced. After removing the batteries you have approximately 3 minutes to replace the batteries after which clock and memory information will be lost.



The battery indicator will show meeting when the batteries are fully charged.



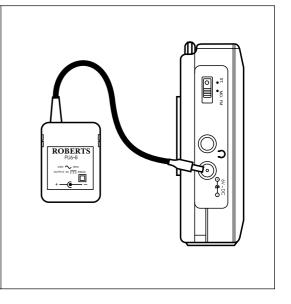
Using an AC adaptor (not included)

The AC adaptor for use with the R881 should provide 6 volts DC output at 300mA centre pin negative (Roberts type PU6-B).

Insert the adaptor plug into the DC socket (18) on the left side of the radio. Plug the adaptor into a standard 13A mains socket outlet. Whenever the adaptor is used the batteries are automatically disconnected.

The AC adaptor should be disconnected from the mains supply when not in use.

We would recommend for economy that the R881 be used via an AC adaptor whenever possible with battery operation for occasional or stand-by use only.



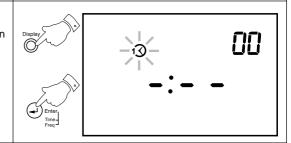
Setting the clock

The clock will start running when the 4 LR6 (AA) size batteries are installed. When batteries are installed for the first time the display will show "0:00" together with the real time symbol 13. Time must be entered in 24 hour format e.g. 3:00pm should be entered as 15:00.



The clock can be set with the radio power on or off.

- If the radio is switched on, press the "Display" button to display the time.
- Press the "Enter" button for more than 2 seconds, the 1 real time symbol will flash in the display



- 3. Whilst the 1 real time symbol is flashing, set the correct time by pressing the numbered buttons. As you press each button the corresponding number will show on the display.
- 4. Press the "Enter" button to complete time setting. If an incorrect time has been set the radio will beep and the ERROR symbol will appear in the display. Reset the correct time by pressing the numbered buttons again.

Note:

- a. Time can only be adjusted whilst the 13 real time symbol is flashing in the display.
- b. Time should be entered in 24 Hr format e.g. 3:00pm should be entered as 15:00.
- After time setting is complete 12 Hr clock mode may be selected by pressing the "12/24Hr" select button.



Setting dual time

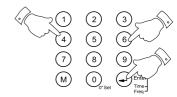
In addition to real time a second time zone can be programmed into this radio. 1. Time should be entered in 24 Hr format e.g. 3:00pm should be entered as 15:00. Press the "Dual Time" button the display will show and flash 2 2. Press "Enter " button within 7 seconds, the display 2 will stop flashing.

 Press the "Enter" button for more than 2 seconds, the 23 dual time symbol will flash in the display.





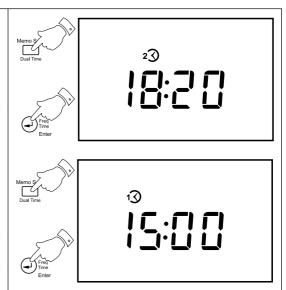
- 4. Whilst the 2 dual time symbol is flashing, set the correct time by pressing the numbered buttons. As you press each button the corresponding number will show on the display.
- 5. Press the "Enter" button to complete dual time setting. If an incorrect time has been set the radio will beep and the "ERROR" symbol will appear in the display. Reset the correct time by pressing the numbered buttons again.



- Press the "Enter" button to complete setting the dual time, the display will now show the correct dual time.
- 7. Press the "Dual Time" button followed by the "Enter" button to return the display to real time.

Note:

- a. To temporarily change between real and dual time mode press the "Dual Time" button, the 2 symbol and dual time will be shown in the display. After approximately 7 seconds the display will return to showing real time.
- b. To permanently change the display to dual time mode press the "Dual Time" button followed by the "Enter" button. The 2 symbol will appear in the display.
- c. To permanently change the display back to real time mode press the "Dual Time" button followed by the "Enter" button. The 1 symbol will appear in the display.



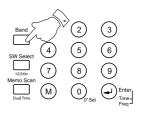
Zero seconds set

- 1. If the radio is switched on press the "**Display**" button to display the time.
- 2. Press and hold down the "0" button for more than 2 seconds, the seconds display will be reset to 00.



Waveband selection

There are three wavebands on the R881 selection is by repeated pressing of the "Band" button.



Waveband	Frequency	coverage
FM	87.5 - 108	MHz
MW	520 - 1710	kHz
SW	2.30 - 26.10	MHz

Tuning

Band	Frequency Range	Aerial Type	Illustration
MW	520-1710kHz	INTERNAL Rotate for best reception	100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
sw	2.30 - 26.10MHz	TELESCOPIC Fully extend the aerial, for best reception	NOBERS S O O O O O O O O O O O O O O O O O

18

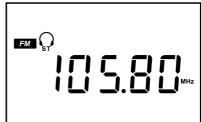
Band	Frequency Range	Aerial Type	Illustration
FM	87.5 - 108MHz	TELESCOPIC Fully extend the aerial, angle and rotate for best reception.	ROBERTS OF CO.

Stations may be selected by using any one of the five different available tuning methods:
Direct Key Pad Tuning • Manual Tuning • Scan Tuning • Memory Recall Tuning • APS Tuning on MW and FM bands.

Direct key pad tuning

Example: To tune to 100.70 MHz on the FM band.

1. Press the "Power" button to turn on the radio.





2. Select the FM band using the "Band" button.

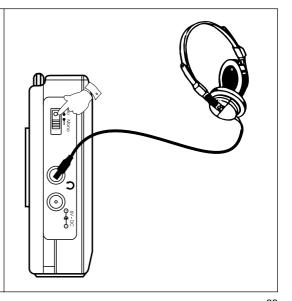
Press the button marked "Enter" the display will show





3. Press the buttons marked 1, 0, 0, 7 4. Press the button marked "Enter", the frequency and waveband will now appear in the display. FM 5. Fully extend the telescopic aerial and rotate for best FM reception. 6. Adjust the Volume and Tone controls for comfortable listening.

7. When selecting a stereo FM station, and using stereo earphones, make sure that the "FM mode" switch is in the STEREO position.



Manual tuning

1. Press the "Power" button to turn on the radio. Display 2. Select a waveband by pressing the "Band" button. Memo Scan

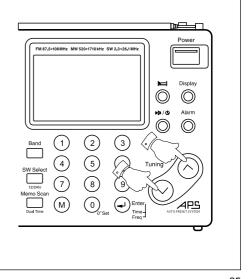
3. A single press on the either the [∧] or [∨] down buttons will change the frequency up or down.

Note: Each press of the [Λ] or [V] buttons will change the frequency in increments of:

MW: 9kHz/10kHz

SW: 5kHz

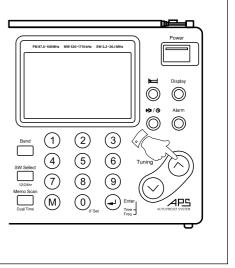
FM: 100kHz



Scan tuning

1. Press the "Power" button to turn on the radio. Display 2. Select a waveband by pressing the "Band" button. Memo Scan

Press and hold down either the tuning [∧] or [∨]
buttons for more than half a second to commence scan
tuning. The radio will scan all frequencies in the selected band and stop automatically each time it finds
an active station.



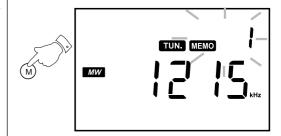
4. Press and hold down either the tuning [\(\)] or [\(\)] buttons for more than half a second to resume scan tuning. When the waveband end is reached the radio will beep and continue tuning from the opposite waveband end.	Tuning
Adjust the Volume and Tone controls for comfortable listening.	

Memory tuning

You may store up to 45 preset stations in memory, 18 on SW, 18 on FM and 9 on MW. To store a station in preset memory proceed as follows. 1. Turn on the radio by pressing the "Power" button. Display 2. Tune to the desired frequency using one of the previously described tuning methods. MW

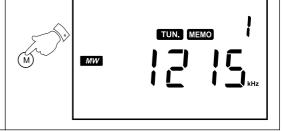
 Press the button marked "M" (memory), the memory symbol MEMO together with a suggested preset number will flash in the display for 7 seconds.

Note: If some of the presets have already been used the radio will suggest the next available preset location.



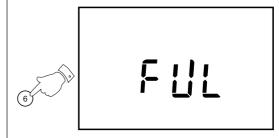
- Press the "M" button, the MEMO symbol and preset location will stop flashing and your station will be stored in the memory preset.
- To store stations in SW and FM presets 10 and above:
 Press the "M" button, then press numbered button 1, press and hold down numbered button 0 for more than 2 seconds.

see next page for example.



Example: To store a station in preset location 15, Press the "M" button, then press numbered button 1, press and hold down numbered button 5 for more than 2 seconds.

Note: If all the preset memory locations are full, pushing the "M" button will cause the display to show FUL. If you still want to store a new station press any numbered button for more than 2 seconds, the new station will be stored in the selected memory location, the original station in this location will be cancelled.



Overwriting a station in preset memory

- Tune to the desired frequency using one of the previously described tuning methods. Press the 'M' button and then hold down the required memory preset button for more than 2 seconds.
- e.g. to overwrite memory preset 12, tune to the required station, press numbered button '1' and then press and hold down numbered button '2' for more than 2 seconds.

Recalling a station from preset memory

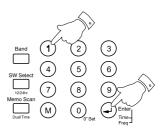
1. Turn on the radio by pressing the "Power" button. Display 2. Select a waveband by pressing the "Band" button. Memo Scan (M)

- 3. Press the numbered button corresponding to the preset memory location for the required station. The radio will instantly tune to the station and the display will show its frequency and memory location. If you wish to select another preset station press any one of the numbered buttons for instant access.
- e.g. preset 12 can be selected by pressing the numbered button '1' followed by the numbered button '2'.



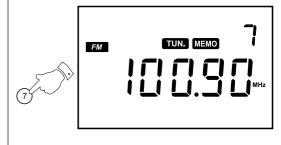
Note:

 The exception to the above instruction is preset number one. To select preset one press the numbered button '1' followed by the enter key.



Changing preset station order

e.g. exchanging preset station 2 with preset station 7. 1. Recall preset 2 by pressing the numbered button "2". FM 2. Push the "M" button preset 2 and " MEMO " will flash in the display. FM Press and hold down numbered button "7" for more than 2 seconds. Presets 2 and 7 will now be exchanged.



APS (Auto Preset System)

This radio provides an easy to use feature called APS (Auto Preset System) which operates on FM and MW bands. 1. Turn on the radio by pressing the "Power" button. Display 2. Select a waveband by pressing the "Band" button 12/24hr Memo Scan

- Press and hold down both the tuning [∧] and [∨]
 buttons for more than 2 seconds. The radio will beep
 and the display will flash APS indicating that the radio is in APS mode.
- The radio will scan from the lowest frequency on the selected band, automatically storing stations in preset memory based on signal strength order.
- After APS is complete the display will show MEMO 1 and the station with the strongest signal for your area will be selected.

Note:

- a. During APS only the 9 strongest stations on MW and 18 strongest stations on FM will be stored.
- All previously stored stations will be erased when APS operation commences.
- c. APS operation can be cancelled by pressing the "Power" button





Direct access to SW metre bands

1. Turn on the radio by pressing the "Power" button. 2. Press the "Band" select button to select the SW band. 3. Repeatedly press the "SW Select" button to cycle through the SW bands. The SW band is shown by the SW indicator in the top right of the display.

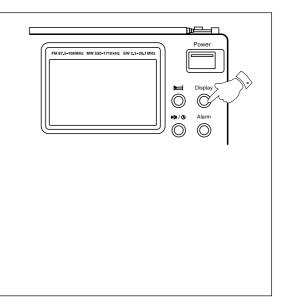
Memory Scan

This radio provides a feature called Memory Scan which when activated will scan the preset memories. 1. Turn on the radio by pressing the "Power" button. Select the required waveband using the "Band" button. 2. Push the "Memory Scan" button, the radio will scan each preset memory in turn - pause for 7 seconds on each preset memory before continuing on to the next memory. When the required preset/station is reached press any button to stop memory scan.

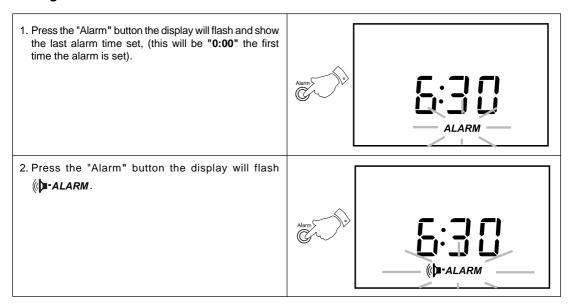
Setting the alarm

The alarm can be set with the radio power on or off.

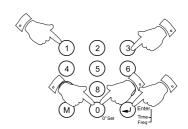
1. If the radio is switched on, press the "Display" button to display the time.



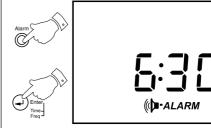
Setting the radio alarm



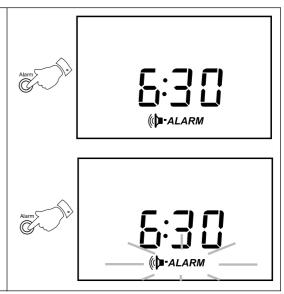
3. Press the numbered buttons to set the alarm on time. e.g. to set an alarm time of 13:00, press the buttons "1 3 0 0", followed by the enter button to complete the setting and return to real time mode..



4. To verify the alarm time, press the "Alarm" button to display the alarm time followed by the "Enter" button to return to real time mode.

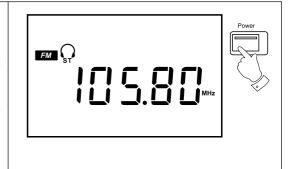


5. To cancel the alarm, press the "Alarm" button the display will show the previously set alarm time, press the "Alarm" button to complete alarm cancellation. The ALARM symbol will flash for 7 seconds and then disappear



Note:

- When the alarm is sounding, press the "Power" button to turn off the alarm for 24 hours.
- The radio alarm will play for one hour if not turned off by pushing the "Power" button.
- Tune the radio to the required station before setting the alarm. When the alarm operates the radio will play the last station selected.



Setting the HWS (Humane Wake System) alarm

A repeating beep tone will sound when using the HWS alarm. The alarm beep will increase in volume every 15 seconds for 1 minute followed by 1 minutes silence before repeating the cycle. The HWS alarm will sound for 30 minutes unless turned off by pushing the **"Power"** button.

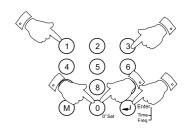
1. Press the "Alarm" button the display will flash and show the last alarm time set, (this will be "0:00" the first time the alarm is set). 2. Press the "Alarm" button the display will flash **(**□-ALARM.

3. Repeatedly press the "(())/o" button until the display shows -ALARM-OHWs





4. Press the numbered buttons to set the alarm on time. e.g. to set an alarm time of 13:00, press the buttons "1 3 0 0", followed by the enter button to complete the setting and return to real time mode..

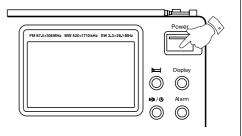


To verify the alarm time, press the "Alarm" button to display the alarm time followed by the "Enter" button to return to real time mode.



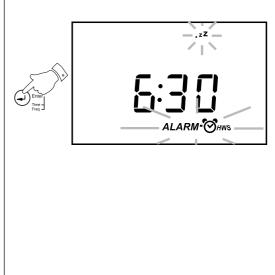
Note:

- When the alarm is sounding, press the "Power" button to turn off the alarm for 24 hours.
- 2. The HWS alarm will sound for one hour if not turned off by pushing the "Power" button.



Snooze function

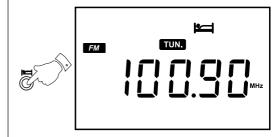
Whilst the alarm is sounding pressing any button (except "Power" or "Light") will activate the snooze function. The Radio or HWS alarms will be silenced for 6 minutes. The Display will flash z Z... The snooze function can be repeated during the 1 hour that the alarms are active.

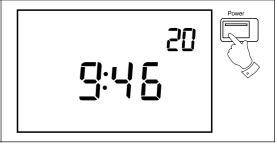


Setting the sleep timer

The sleep timer will automatically switch off the radio after a preset time has elapsed.

- 1. Press and continue to hold down the " button the display will cycle through the available sleep times in the order 90-60-45-30-15-90. Release the " button when the required sleep time appears in the display. The symbol will appear in the display and the radio will play the last station selected.
- To cancel the sleep function, press the "Power" button, the symbol will disappear and the display will revert to showing real time.

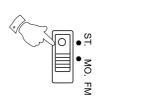




Mono/Stereo switch

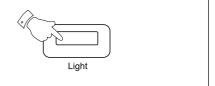
1. To listen to FM stereo broadcasts, tune to the required station, plug in headphones and set the "Mono/Stereo switch located on the left side of the radio to the "ST" position. If the station being received is weak some hiss may be audible, to reduce the hiss set the "Mono/ Stereo" switch to the "MO" position to return to mono operation.

Note: FM stereo is only available via headphones.



Display backlight

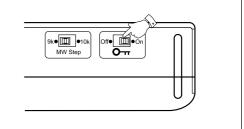
Pressing the "Light" button located on the top of the radio will turn on the light and illuminate the display for approximately 7 seconds.



Lock switch

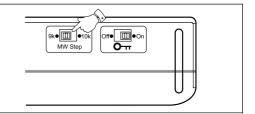
The "Lock" switch located on the underside of the radio is used to prevent unintentional operation.

1. Set the "Lock" switch to the 'On' position, the symbol will appear in the display. The "Power" and all other buttons will be disabled. This will prevent accidental operation when the radio is packed in a suitcase or carrying pouch. To release the "Lock" switch move the switch to the 'Off' position, the symbol will be removed from the display.



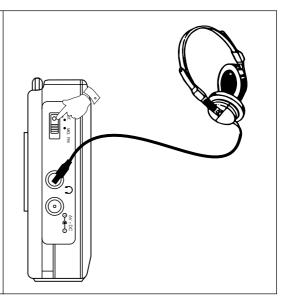
MW step size switch

This switch located on the underside of the radio provides a means of changing the MW step size from 9kHz to 10kHz. In Europe and most other parts of the world set the switch to the 9kHz position. For the USA and Canada set the switch to the 10kHz position.



Headphones

Headphones for use with this radio should be stereo and fitted with a 3.5mm stereo jack plug. Insert the headphone plug into the socket marked on the left side of the radio. When the headphones are plugged in the loudspeaker is automatically disconnected.



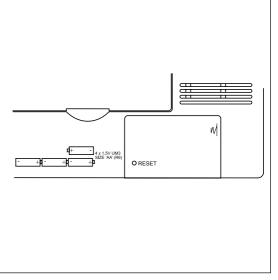
Troubleshooting/Reset button

The Roberts R881 offers many new features which are unavailable on most radios.

If the radio fails to operate correctly, or some digits on the display are missing or incomplete carry out the following procedure.

- 1. Switch off the radio and remove the batteries.
- With the aid of a suitable implement (the end of a paper clip) press the reset button located in the battery compartment for at least 5 seconds, this will reset the microprocessor, clock time and clear all stations stored in preset memory.

If a problem persists our technical staff would be pleased to help offer any assistance on operating the radio. Our technical helpline number is, 0181 758 0338.



Care and maintenance

Do not allow this radio to be exposed to water, steam or sand. Do not leave the radio where excessive heat could cause damage such as in a parked car where the heat from the sun can build up even though the outside temperature may not seem too high.





Specifications

Frequency range: FM MW (depender	87.5 - 108MHz 520 - 1710 or 522 - 1710kHz at on position of MW step size switch)	SW	120m 90m 75m 60m	2.300 - 2.495MHz 3.200 - 3.400MHz 3.850 - 4.000MHz 4.750 - 5.060MHz
			49m 41m 31m 25m 21m 19m 16m 15m	5.900 - 6.200MHz 7.100 - 7.350MHz 9.400 - 9.990MHz 11.600 - 12.100MHz 13.570 - 13.870MHz 15.100 - 15.800MHz 17.480 - 17.900MHz 18.900 - 19.020MHz
			13m 11m	21.450 - 21.750MHz 25.600 - 26.100MHz

Specifications cont.

Power requirements 6.0V			Output power:	180mW.
Batteries	4 x IE	C size LR6 (AA size)	Sockets	
Battery Life	Approx. 16-20hrs of listening when used for 4 hours a day at normal volume using alkaline bat-		Headphone socket	3.5mm dia stereo.
	teries.		DC in	6.0 volts centre pin negative.
Circuit features			Accessories:	Carrying pouch, Stereo earphones.
Semiconductors:	s: 1 LSI, 5 IC's, 2 FET, 39 transistors, 34 diodes, 1 LED			
Aerial system	MW	Built in ferrite aerial		
	SW	Telescopic aerial		
	FM	Telescopic aerial		

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

Guarantee

This radio is guaranteed for twelve months from the date of delivery to the original owner against failure due to faulty workmanship or component breakdown, subject to the procedure stated below. Should any component or part fail during this guarantee period it will be repaired or replaced free of charge.

The guarantee does not cover:

- 1. Damage resulting from incorrect use.
- 2. Consequential damage.
- 3. Receivers with removed or defaced serial numbers.

N.B. Damaged or broken telescopic aerials will not be replaced under guarantee.

Procedure:

Any claim under this guarantee should be made through the dealer from whom the instrument was purchased It is likely that your Roberts dealer will be able to attend to any defect quickly and efficiently, but should it be necessary the dealer will return the instrument to the company's service department for attention. In the event that it is not possible to return the instrument to the Roberts dealer from whom it was purchased, please contact Roberts Radio service department at the address shown on the back page of this manual before taking further action.

These statements do not affect the statutory rights of a consumer.

If you need any further advice, please call our Technical Helpline on :- 0181 758 0338 (Mon-Fri)

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ROBERTS RADIO TECHNICAL SERVICES DEPARTMENT

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