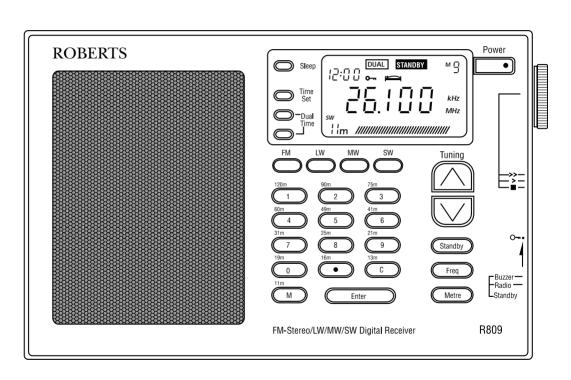
# **R809**

Multi-band digital preset stereo world radio

# Sound for Generations



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### Features

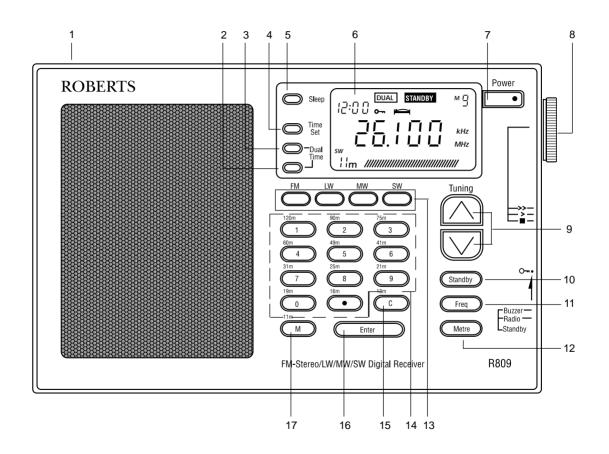
- Continuous gap-free tuning of LW, MW and SW bands.
- Large, easy-to-read Liquid Crystal Display (LCD) showing station frequency, dual time, memory location and function status.
- Direct frequency entry by keypad allowing instant access to any station.
- Fifty four memory presets offer instant access to your favourite stations on LW, MW, FM and SW.
- 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.
- Cancel button allows you to instantly change incorrect information keyed into the microprocessor.
- SW metre buttons offer instant selection of any desired SW band.
- Sleep timer allows you to fall asleep to music.

• Rotary tuning control.

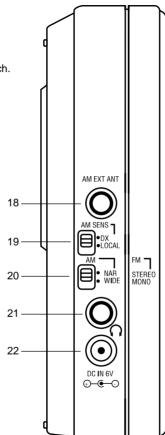
### Controls

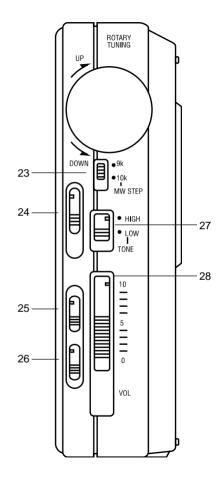
- 1. Telescopic aerial.
- 2. Dual time set button.
- 3. Dual time button.
- 4. Time set button.
- 5. Sleep button.
- 6. Liquid crystal display.
- 7. Power button.
- 8. Tuning knob.
- 9. Manual/auto scan tuning buttons.

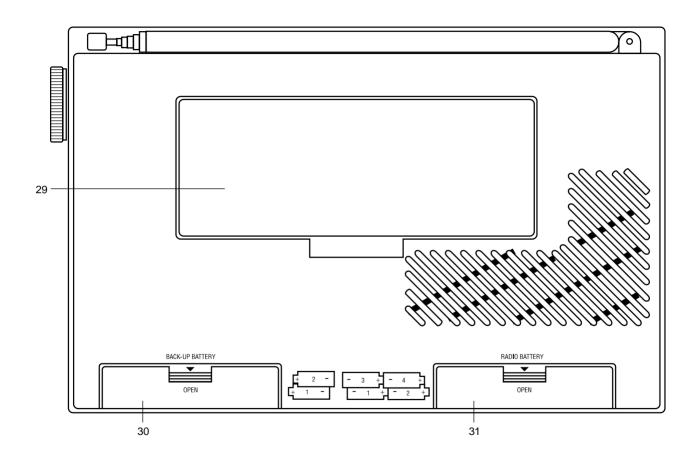
- 10. Standby button.
- 11. Frequency select button.
- 12. Metre select button.
- 13. Waveband select buttons.
- 14. Numeric and metre band buttons.
- 15. Cancel button.
- 16. Enter button.
- 17. Memory button.



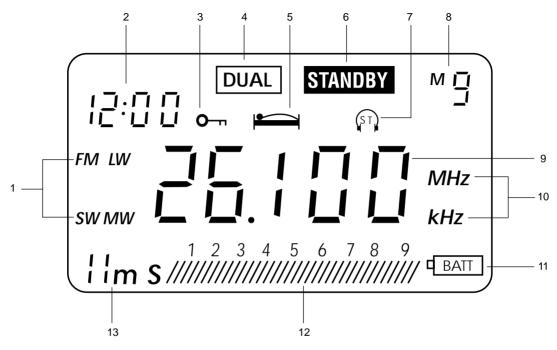
- 18. AM external aerial socket.
- 19. DX/Local switch (AM sensitivity).
- 20. FM mono/stereo and AM wide/narrow switch.
- 21. Stereo headphone socket.
- 22. DC input socket (6 volts).
- 23. MW 9/10kHz switch.
- 24. Tuning speed switch.
- 25. Lock switch.
- 26. Alarm selector switch.
- 27. High/low tone switch.
- 28. Volume control.
- 29. Folding stand.
- 30. Back-up battery compartment.
- 31. Main battery compartment.







### **Display information**



- Waveband indicators.
- 2. Time display.
- 3. Lock switch indicator.
- 4. Dual time indicator.

- 5. Sleep function indicator
- 6. Standby indicator.
- 7. FM stereo indicator.
- 8. Memory preset indicator.

- 9. Frequency display.
- 10. Frequency units indicator.
- 11. Battery indicator.
- 12. Signal strength and battery level indicator.
- 13. SW metre band indicator.

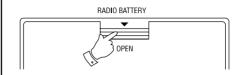
### Installing batteries

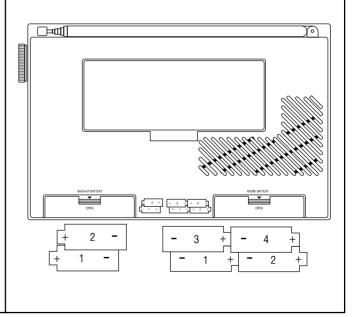
This radio can be operated using :-

6 Alkaline LR6 (AA size) batteries.

AC adaptor (optional extra Roberts type PU6-B).

- 1. Open both battery compartments by pressing the latch marked "OPEN", slide the cover in the direction of the arrow and lift off.
- 2. Insert 4 LR6 (AA size) batteries into the compartment marked "RADIO BATTERY" and 2 LR6 (AA size) batteries into the compartment marked "BACK-UP BATTERY" ensuring that the batteries are positioned on top of the ribbons to allow for easy removal.
- Replace the battery covers over their compartments and push in the opposite direction to the arrows until a click is heard.





### **Battery replacement**

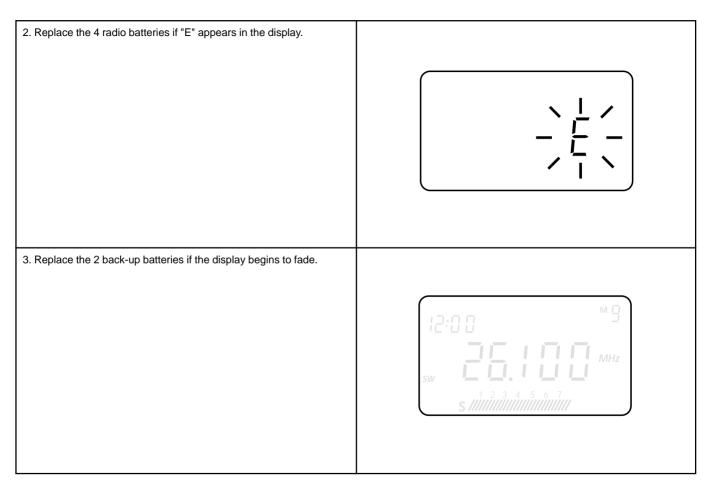
The battery indicator will display the main radio battery condition for approximately 7 second after the radio is switched off. If the indicator falls below "2" the 4 radio batteries should replaced.

Note:

When changing back-up batteries the 4 radio batteries must be installed to prevent clock time and memory loss.

### Low battery warnings

1. Replace the 4 radio batteries if the battery indicator falls below "2".



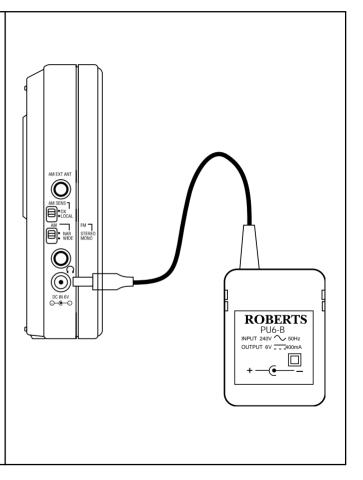
### **Using an AC adaptor (optional)**

The AC adaptor for use with the R809 should provide 6 volts DC output at 300mA centre pin negative (Roberts type PU6-B).

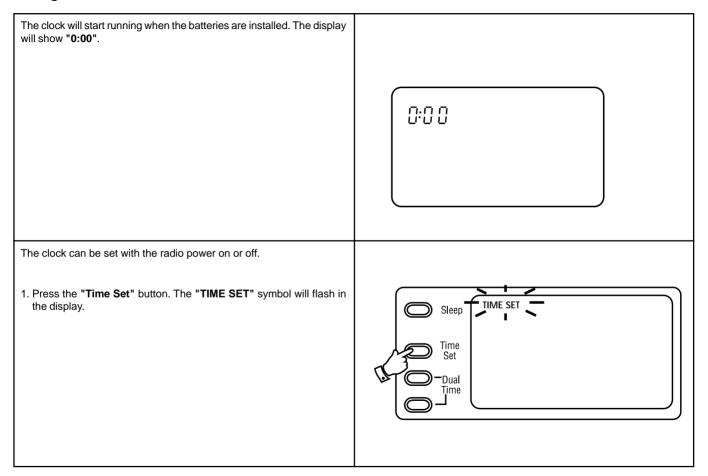
Insert the adaptor plug into the socket marked DC IN 6V on the left side of the radio. Plug the adaptor into a standard 13A mains socket outlet. Whenever the adaptor is used the batteries are automatically disconnected.

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

We would recommend for economy that the R809 be used via an AC adaptor wherever possible with battery operation for occasional or stand-by use only.



### Setting the clock



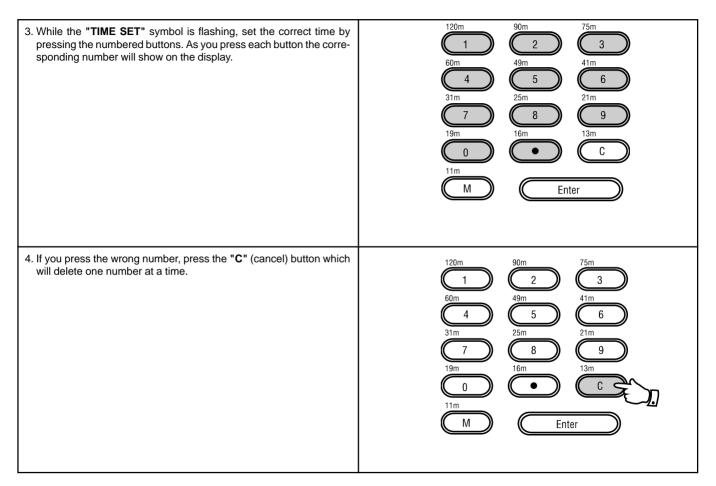
2. While the "TIME SET" symbol is flashing, set the correct time by 120m pressing the numbered buttons. As you press each button the corresponding number will show on the display. Enter 3. If you press the wrong number, press the "C" (cancel) button which will delete one number at a time. 25m Note: Time can only be adjusted while the "TIME SET" symbol is flashing in the display. Enter

4. Press the "Enter" button to complete setting the clock, the display will now show the correct time.

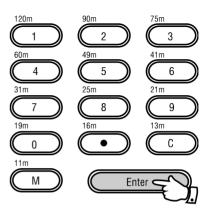
120m 90m 75m
2 3
60m 49m 41m
4 5 6
6 31m 25m 21m
7 8 9 9
Note: Time should be entered in 24Hr format e.g. 3:00pm would be entered as 15:00.

### Setting dual time

In addition to real time a second time zone can be programmed into this radio. 1. Press the lower "**Dual time"** button. The display will show " DUAL Sleep 18:00 Time Set 2. Press the "Time Set" button. The "TIME SET" symbol will flash in the display. TIME SET DUAL Sleep Time Set Time

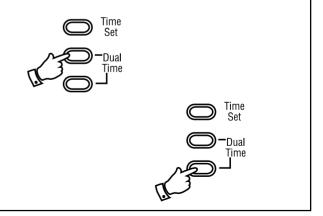


- 5. Press the "Enter" button to complete setting the dual time, the display will now show the correct time.
- 6. Press the lower recessed "**Dual time**" button to return the display to real time.



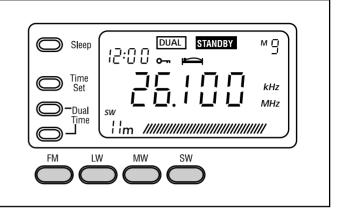
### Note:

- a. To temporarily change between real and dual time mode press and hold down the upper "Dual time" button. The DUAL symbol and dual time will be shown in the display. Release the button to return the display to normal time.
- b. To permanently change the display to dual time mode press the lower recessed "**Dual time**" button. The **DUAL** symbol and dual time will be shown in the display.
- c. To permanently change the display back to real time mode press the lower recessed "Dual time" button. The DUAL symbol will disappear and normal time will be shown in the display.



### **Waveband selection**

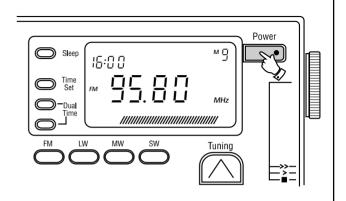
There are four waveband selection buttons located below the Liquid Crystal Display.



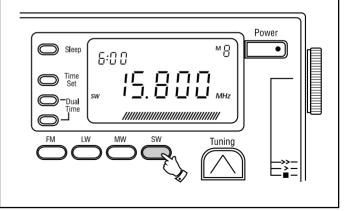
iency Coverage

FM	87.5-108MHz
LW	150-519kHz
MW	520-1710kHz
SW	1.711-29.999MHz

 Turn on the radio by pressing the "Power" button. The display will show the last frequency and waveband selected.



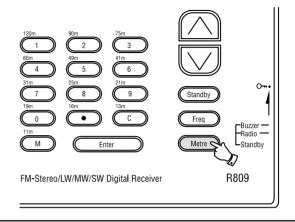
2. Press one of the waveband select buttons, the last frequency used on the selected waveband will appear on the display.

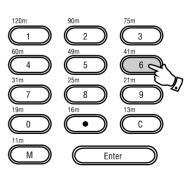


### Note:

The SW metre bands can be accessed directly.

 Press the "Metre" button. The display will flash "SW" indicating that a SW metre band may be selected. For example pressing the "6/ 41m" button will allow direct access to the 41m band.





# Tuning

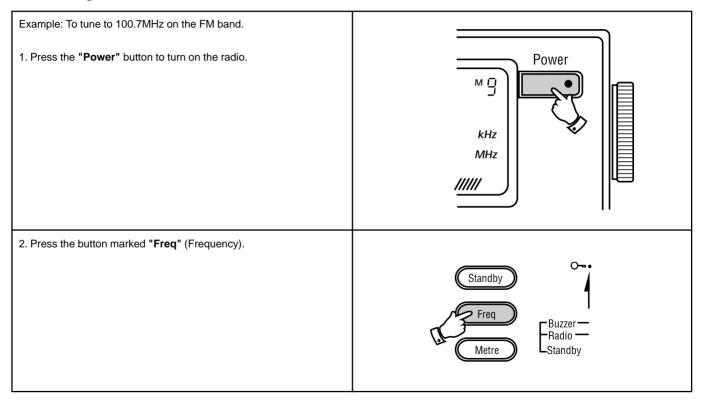
Band	Frequency Range	Aerial type	Illustration
LW	150-519kHz	Internal Rotate for best reception	ROBERTS    The contribution of the contributio
MW	520-1710kHz	Internal Rotate for best reception	ROBERTS  O TO O

Band	Frequency Range	Aerial type	Illustration
SW	1.711-29.999MHz	Telescopic Fully extend the aerial for best reception	ROBERTS  O to
FM	87.5-108MHz	Telescopic Fully extend the aerial, angle and rotate for best reception	ROBERTS  The second Memory of Dyur Ricere  RECO. 1 Day

Stations may be selected by using any one of the four different available tuning methods:

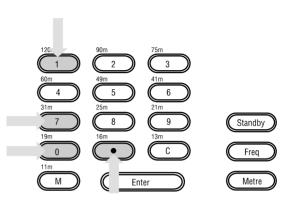
• Direct tuning • Manual tuning • Scan tuning • Memory tuning

### **Direct tuning**



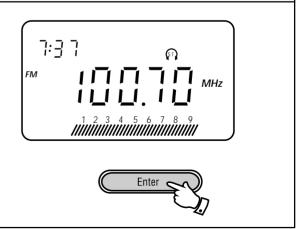
3. Press the buttons marked [1] [0] [0] [.] [7] [0].

Note: If a mistake is made during entry press the "C" button to clear the last digit entered.



4. Press the button marked "Enter", the frequency and waveband will now appear in the display.

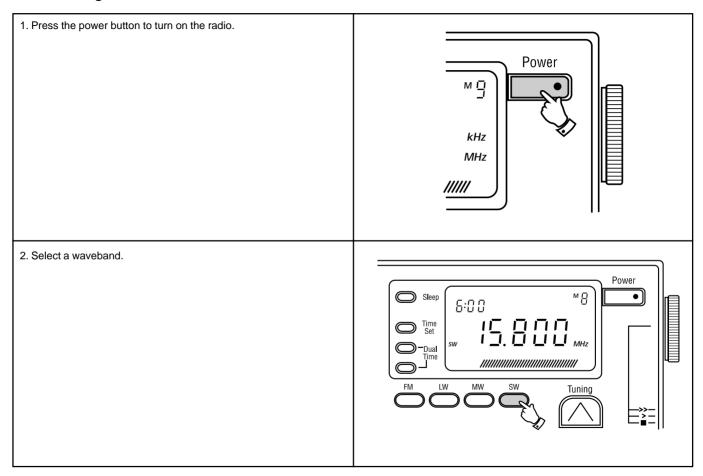
Note: Make sure that you enter the decimal point [.] in 100.70 MHz otherwise the display will show "SW" [10.070 MHz].



5. Extend the aerial fully and rotate for best FM reception. ROBERTS 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. DC IN 6V

### **Manual tuning**



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

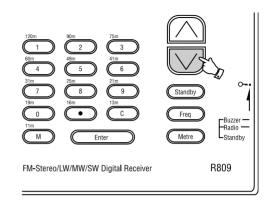
Note: Each press of the [  $\bigwedge$  ] or [  $\bigvee$  ] buttons will change the frequency in increments of:

FM: 50kHz

LW: 9kHz

MW: 9kHz or 10kHz

SW: 5kHz



Manual tuning can also be carried out by rotating the "TUNING" control until the required frequency is reached.

Note: with the **"Tuning speed"** control set to the positions shown the tuning will change in steps as follows:

>> (FAST) > (SLOW)

 FM:
 100kHz
 50kHz

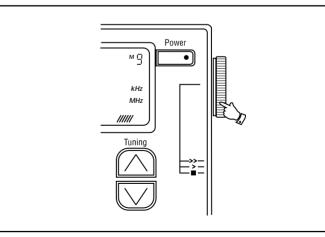
 LW:
 9kHz
 1kHz

 MW:
 9kHz or 10kHz
 1kHz

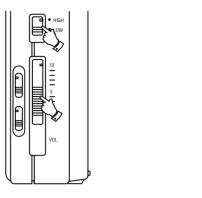
 SW:
 5kHz
 1kHz

To prevent accidental operation of the "Tuning" control, set the "Tuning speed" control to the "

(Lock) position.

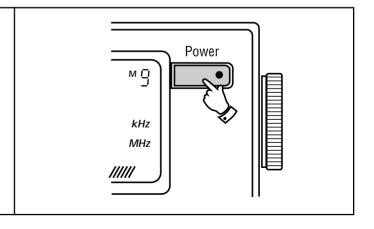


5. Adjust the **"Volume"** and **"Tone"** controls for comfortable listening.



### Scan tuning

1. Press the power button to turn on the radio.



2. Select a waveband. 6:00 Tunina 3. Press and hold down either the tuning [ \( \Lambda \)] or [ \( \mathbf{V} \)] 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. Standby Freq Metre L<sub>Standby</sub> FM-Stereo/LW/MW/SW Digital Receiver R809

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 wavehand end

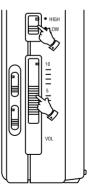
### Note:

Due to differing channel frequencies on LW in Europe, the receiver may not stop on precisely the correct frequency when tuning on LW.

In these instances set the "Tuning Speed" control to the slow position and rotate the "Tuning" control knob to retune to the correct frequency. Once found the correct frequency can be stored in memory as described on page 33.

Freq e.g. LW BBC radio 4 will stop on 200kHz instead of 198kHz. Metre FM-Stereo/LW/MW/SW Digital Receiver

5. Adjust the "Volume" and "Tone" controls for comfortable listening.



Standby

Buzzer –

R809

### **Memory tuning**

You may store up to 54 preset stations in memory, 18 on SW, 18 on FM, 9 on LW and 9 on MW. To store a station in preset memory proceed as follows. Power 1. Turn on the radio by pressing the "Power" button. мЦ kHz MHz 2. Tune to the desired frequency using one of the previously described tuning methods. Power Sleep 15:00 MHz Tuning

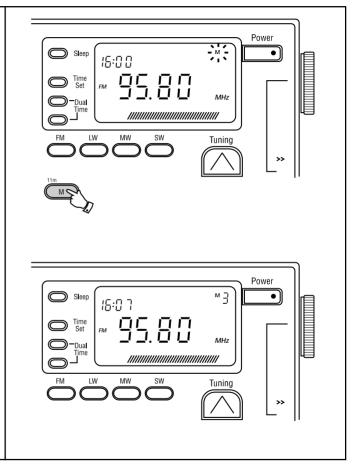
- 3. Press the button marked "M" (memory), the memory symbol "M" will flash in the display for approx. 15 seconds.
- 4. Press any one of the keyboard buttons numbered 1 9. The memory symbol "M" will stop flashing and your station will be stored in the memory position selected.

### Note:

Stations can only be preset while the memory symbol " $\mathbf{M}$ " is flashing in the display.

On SW and FM a further 9 stations can be preset by using memory locations 01 - 09.

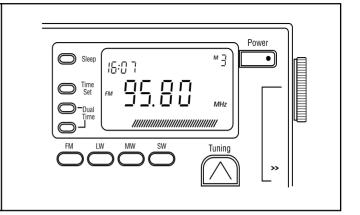
e.g. to store a SW station in memory location 02. Press the button marked "M" (memory) followed by the buttons marked [0] and [2].



## Recalling a station from preset memory

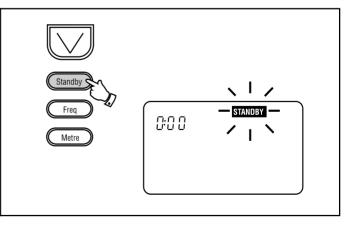
Press the power button to turn on the radio. Select a waveband for the station required.	
Press the button corresponding to the preset memory location for the required station. The radio will instantly tune to the station and the display will show its frequency and memory location. If you wish to select another preset station press any one of the numbered buttons for instant access.	

- 3. For SW and FM presets 01-09, push the [0] button followed by the any one of the buttons [1] [9]
- e.g. to recall SW memory location 02 press the buttons marked [0] and [2].

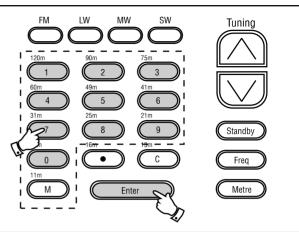


### **Setting the alarm (Standby)**

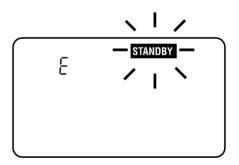
1. Press the "Standby" button the display will flash STANDBY and show the last alarm time set, (this will be "0:00" the first time the alarm is set.



2. Press the numbered buttons to set the alarm on time. e.g. to set an alarm time of 13:30, press the buttons "[1] [3] [3] [0]". If a wrong number was keyed in, pressing the "C" button will delete one digit for each press. Press the "Enter" button, the display will show "13:30" and "Standby" will stop flashing indicating that the alarm has been set to 13:30.

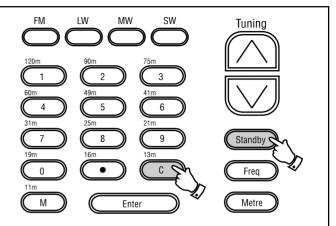


If the time keyed in is not valid i.e. 25:30, the display will show **"E"** for about 2 seconds and then revert to showing real time.



3. When the alarm time is set, the display will return to showing real time and the colon will start to flash. STANDBY 4. To verify the alarm time, press the "Standby" button to display the alarm time. Press the "Standby" button to return to real time mode. 13:30

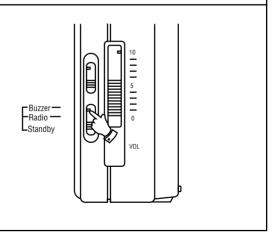
To cancel an Alarm time, press the "Standby" button followed by the "C" (cancel button).



5. You may wake up to either the buzzer or radio alarm. Set the "Standby: Buzzer/Radio" switch to the required position.

#### Note:

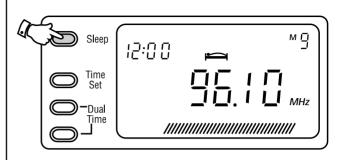
- 1. With the switch set to the buzzer position the alarm will sound softly at first and then gradually increase in volume.
- 2. Tune the radio to the required station before setting the alarm. When the alarm operates the radio will play the last station selected.
- 3. When the alarm is sounding, press the "**Power**" button to cancel the alarm for 24Hrs.



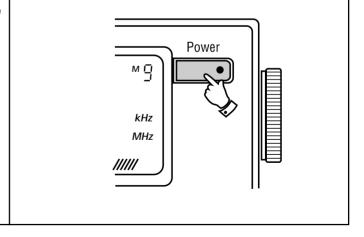
## Setting the sleep timer

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

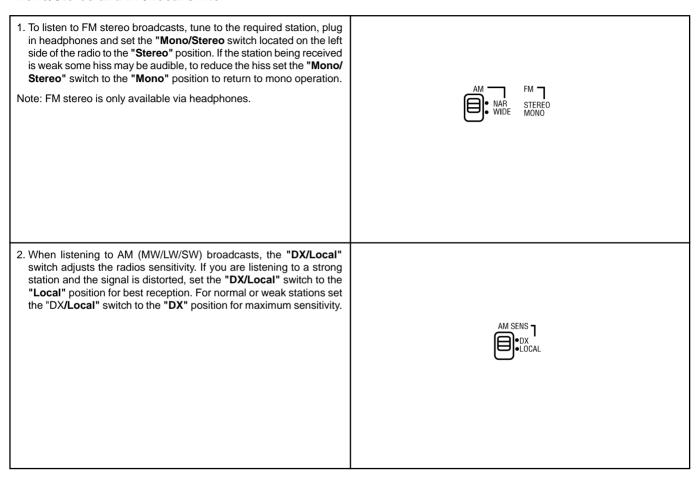
 Repeatedly press the "Sleep" button, the display will cycle through the available sleep times in the order 60-45-30-15-90. Release the "Sleep" button when the required sleep time appears in the display.



To turn off the radio before the sleep time has elapsed, press the "Power" button, the = symbol will disappear from the display.

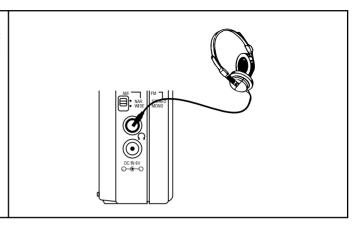


#### Mono/Stereo and DX/Local switch



## Headphones

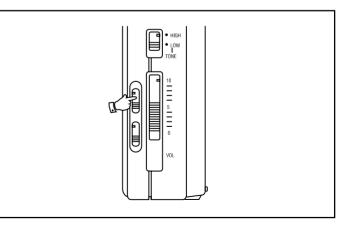
Headphones for use with this radio should be stereo and fitted with a 3.5mm stereo jack plug. Insert the headphone plug into the socket marked on the left side of the radio. When the headphones are plugged in the loudspeaker is automatically disconnected.



#### Lock switch

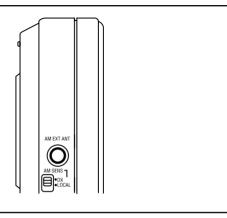
The "Lock" switch is use to prevent unintentional operation of the radio.

1. Set the "Lock" switch located on the right side of the radio to the up position, the Om 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 down. The Om symbol will be removed from the display.



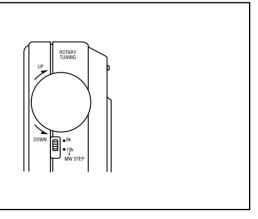
### Using an external aerial

To obtain optimum performance from this unit, especially when listening to SW an external aerial should be used. This can be a length of wire 10 - 15 metres long connected to a 3.5mm mono jack plug which is then inserted into the socket marked "AM EXT. ANT" located on the left side of the radio.



## MW step size switch

1. This switch located on the right side of the radio beneath the "Rotary tuning" knob 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.



#### 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:				Power requirements	6.0V <del></del>
	FM		87.5 - 108MHz	Batteries	6 x IEC size LR6 (AA size)
	LW		150 - 519kHz	Battery Life	Approx. 12-15hrs of listening when used for 4
	MW		520 - 1710		hours a day at normal volume using alkaline batteries.
	SW	120m 90m 75m 60m 49m 41m 31m 25m 21m	1.715 - 29.995MHz 2.300 - 2.495MHz 3.200 - 3.400MHz 3.900 - 4.000MHz 4.750 - 5.060MHz 5.950 - 6.200MHz 7.100 - 7.350MHz 9.400 - 9.900MHz 11.600 - 12.100MHz 13.570 - 13.870MHz	Circuit features  Semiconductors: 1 LS  Aerial system LW  MW  SW  FM  Output power: 440r  Sockets  Headphone socket 3.5m  AM external aerial 3.5m	1 LSI, 9 IC's, 8 FET, 41 transistors, 41 diodes.  LW Built in ferrite aerial  MW Built in ferrite aerial  SW Telescopic aerial
		19m	15.100 - 15.800MHz	Accessories:	Carrying pouch.
		16m	17.480 - 17.900MHz		
		13m	21.450 - 21.750MHz		Imported by:- ROBERTS RADIO LIMITED
		11m	25.600 - 26.100MHz		PO BOX 130 MEXBOROUGH SOUTH YORKSHIRE S64 8YT

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.

# ROBERTS RADIO TECHNICAL SERVICES DEPARTMENT

97-99 Worton Road Isleworth Middlesex TW7 6EG

Technical Helpline:-0181 758 0338 Issue 3