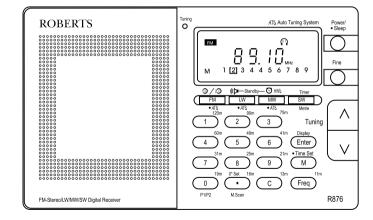
Generations Sound for



R876

Multi-band digital preset stereo world radio

Please read this manual before use

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

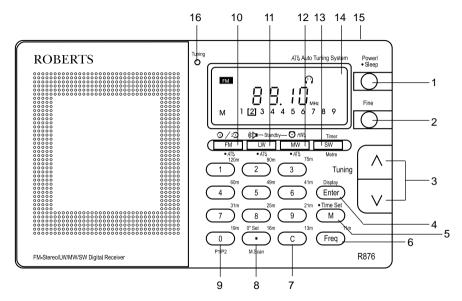
- SW metre buttons offer instant selection of any desired SW band.
- Dual Alarm Feature allows presetting of two alarm wake-up times.
- ATS (Auto Tuning System) which will automatically scan LW, MW, and SW frequencies selecting presets based on station signal strength.
- Adjustable sleep timer allows you to fall asleep to music.

1

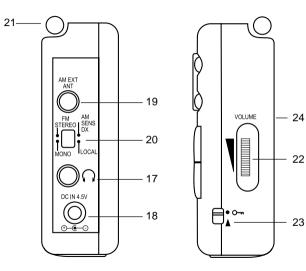
Control locations

- 1. Power on/off and sleep button.
- 2. Fine tune button.
- 3. Manual/auto scan tuning buttons.
- 4. Enter button.
- 5. Memory and time set button.
- 6. Frequency select button.
- 7. Cancel button.
- 8. Decimal point and zero set button.
- 9. 0 digit, 0 memory and SW metre button.
- 10. FM band, FM ATS and real/dual time button.

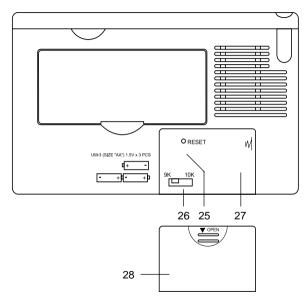
- 11. LW band, LW ATS and radio standby button.
- 12. MW band, MW ATS and HWS standby button.
- 13. SW band, SW metre band and count down timer button.
- 14. Liquid crystal display.
- 15. Light button (on top).
- 16. Tuning indicator.



- 17. Earphone socket.
- 18. DC input socket.
- 19. AM external aerial socket.
- 20. FM Mono/stereo and AM DX/Local switch.
- 21. Telescopic aerial.
- 22. Volume control.
- 23. Lock switch.
- 24. Folding stand.



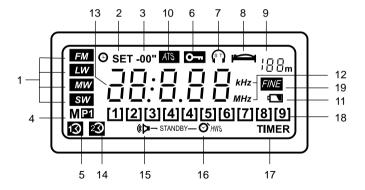
- 25. Reset button.
- 26. 9/10kHz MW step switch.
- 27. Battery compartment.
- 28. Battery cover.



Display information

- 1. Waveband indicators.
- 2. Time set status.
- 3. Zero second set indication.
- 4. Memory indicator.
- 5. SW Memory 10-18 indicator.
- 6. Sleep function indicator.
- 7. Lock switch indicator.
- 8. FM stereo indicator.
- 9. SW metre band indicator.
- 10. Auto Tuning System indicator.
- 11. Low battery indicator.
- 12. Frequency units indicator.
- 13. Frequency and time display
- 14. Dual time indicator.
- 15. Radio standby indicator.
- 16. HWS standby indicator.

- 17. Count down timer indicator.
- 18. Memory preset, battery strength and ATS scanning indicator.
- 19. Fine tune indicator.



This radio can be operated using:-

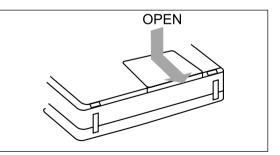
3 Alkaline LR6 (AA size) batteries.

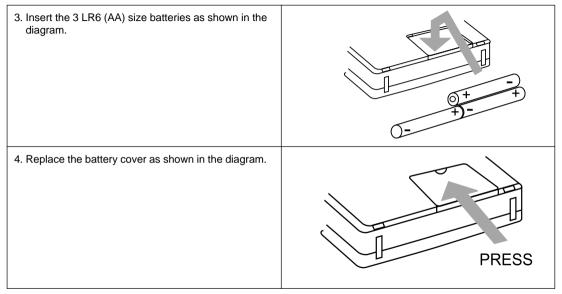
AC adaptor (supplied).

Installing batteries

1. Position the radio face down.

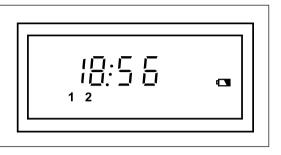
2. Press the catch marked "OPEN" and slide in the direction shown.





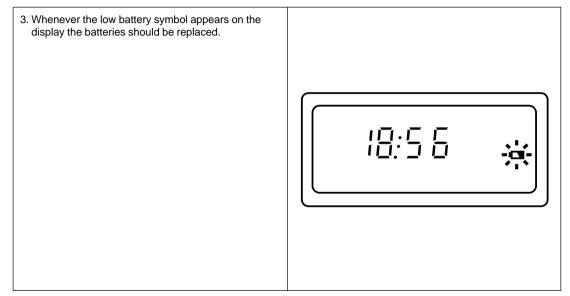
Battery replacement

The battery indicator will display the battery condition for approx. 7 seconds after the radio is switched off. If the indicator falls below "2" 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.



Low battery warnings

 Replace batteries if the battery indicator falls below "2" 	
2. Replace batteries if "E" and the low battery indicator flash in the display.	



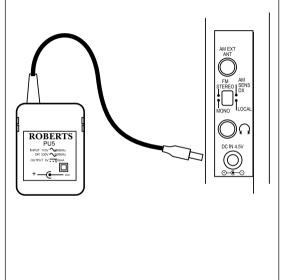
Using the AC adaptor

The AC adaptor supplied with this radio is an auto-switching type and will operate from either a 110volt or 230volt AC supply.

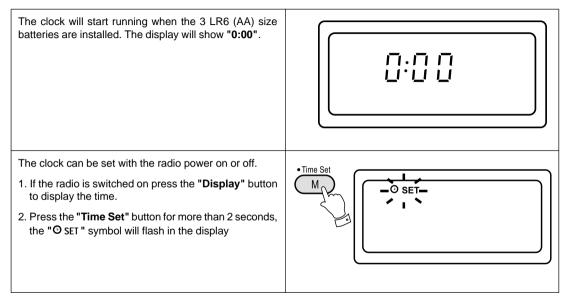
Insert the adaptor plug into the socket marked DC IN 4.5V on the left side of the radio. Plug the adaptor into a standard 13A mains socket outlet. Whenever the adaptor is used the batteries are automatically disconnected.

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

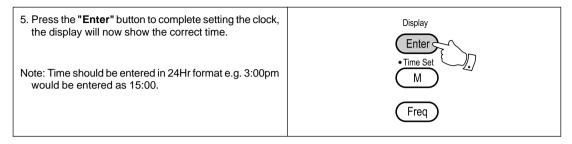
We would recommend for economy that the R876 be used via the AC adaptor wherever possible with battery operation for occasional or stand-by use only.



Setting the clock



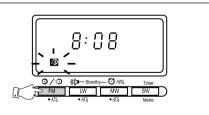
4. If you press the wrong number, press the "C" (cancel) button which will delete one number at a time. 120m 90m 75m 1 2 3 44m 6 6 4 5 6 6 6 31m 25m 9 21m 9 7 8 9 9 1 1 0 • • • • • •	3. Whilst the "O SET " symbol is flashing, set the correct time by pressing the numbered buttons. As you press each button the corresponding number will show on the display.	$ \begin{array}{c} 120m & 90m & 75m \\ 1 & 2 & 3 \\ 60m & 49m & 41m \\ 4 & 5 & 6 \\ 31m & 25m & 21m \\ 7 & 8 & 9 \\ 19m & 0^{\circ} \text{ Set} & 16m & 13m \\ 0 & \bullet & C \\ \end{array} $
	button which will delete one number at a time. Note: Time can only be adjusted whilst the " ^O SET"	$ \begin{array}{c} 1 \\ 60m \\ 49m \\ 49m \\ 4m \\ 60m \\ 49m \\ 41m \\ 4m \\ 6m \\ 4m \\ 6m \\ 4m \\ 4m \\ 6m \\ 4m \\ 4m \\ 6m \\ 4m \\ 4$



Setting dual time

In addition to real time a second time zone can be programmed into this radio.

1. Press the "Real/Dual" button the display will show and flash " \fbox ".



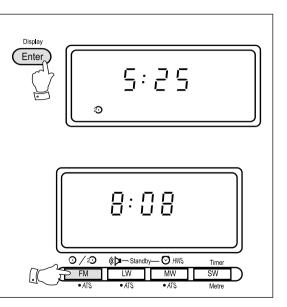
2. Press "Enter " button within 3 seconds, the display will stop flashing.	
 Press and hold down the "Time Set" button for more than 2 seconds, the display "Set" will flash. 	•Time Set

4. While "O SET " symbol is flashing, set the correct time by pressing the numbered buttons. As you press each button the corresponding number will show on the dis- play.	$\begin{array}{c} 120m & 90m & 75m \\ 1 & 2 & 3 \\ 60m & 49m & 41m & Display \\ 4 & 5 & 6 & Enter \\ 31m & 25m & 21m & Time Set \\ 7 & 8 & 9 & M \\ 19m & 0^{''}Set & 16m & 13m \\ 0 & \bullet & C & Freq \end{array}$
5. If you press the wrong number, press the "C" (cancel) button which will delete one number at a time.	$ \begin{array}{c} 31m \\ 7 \\ 19m \\ 0 \\ 0 \\ \bullet \\ \bullet$

- 6. Press the **"Enter"** button to complete setting the dual time, the display will now show the correct dual time.
- 7. Press the " (3 / 2)" button followed by the "Enter" button to return the display to real time.

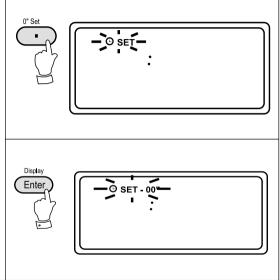
Note:

- a. To temporarily change between real and dual time mode press the " () / 2()" button, the Symbol and dual time will be shown in the display. After approximately 3 seconds the display will return to showing real time.
- b. To permanently change the display to dual time mode press the " ⑦ / 2⑦" button followed by the "Enter" button. The ⊠ symbol in the display indicating dual time mode.
- c. To permanently change the display back to real time mode press the "⊙ /₂⊙" button followed by the "Enter" button. The Symbol will be removed from the display.

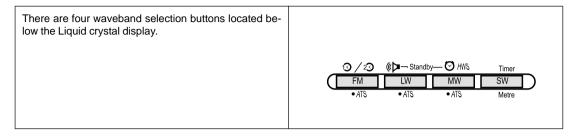


Zero seconds set

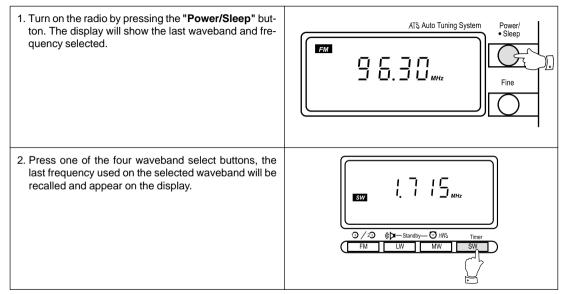
Press the **"Time Set"** button for more than 2 seconds, the **"O** SET" symbol will flash in the display. Press the **"O** set" button, the display will show and flash **"Set-00"**. Press the **"Enter"** button to reset seconds to 0.



Waveband selection

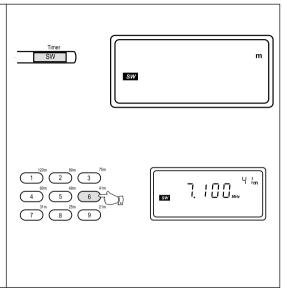


Waveband	Frequency	coverage
FM	87.5-108	MHz
LW	153-513	kHz
MW	522-1710	kHz
SW	1.711-29.999	MHz



Note:

If the SW band is selected pressing the "SW/Metre" button a second time will display a flashing "m" indicating that a SW metre band may now be selected. For example pressing the "6/41m" button will allow direct access to the 41 metre band.



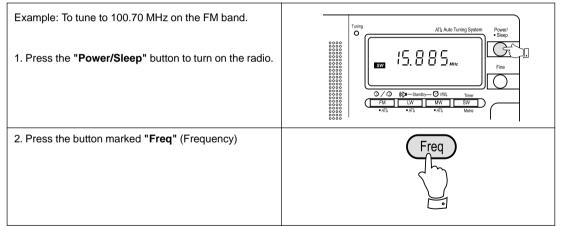
Tuning

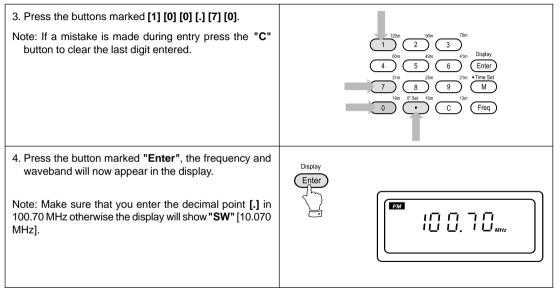
Band	Frequency Range	Aerial Type	Illustration
MW	520-1710kHz	INTERNAL Rotate for best reception	
LW	153-513kHz	INTERNAL Rotate for best reception	

Band	Frequency Range	Aerial Type	Illustration
FM	87.5 - 108MHz	TELESCOPIC Fully extend the aerial, angle and ro- tate for best reception.	
sw	1.711-29.999MHz	TELESCOPIC Fully extend the aerial, for best re- ception	

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

Direct tuning

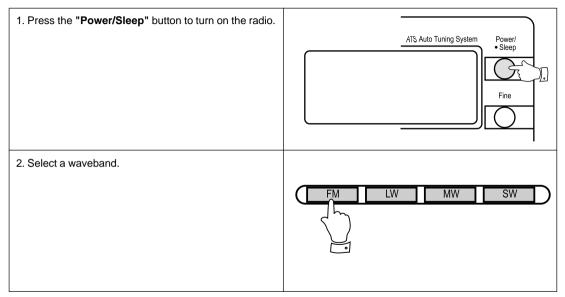




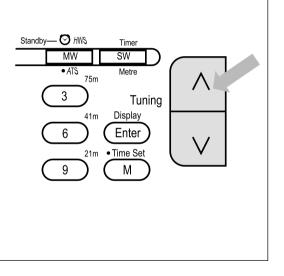
5. Extend the aerial fully and rotate for best FM reception.	
6. Adjust the Volume control for comfortable listening.	VOLLARE VOLLARE VOLLARE VOLLARE

7. When selecting a stereo FM station, and using stereo earphones, make sure that the FM mode switch is in the STEREO position. AM SENS FM TEREO MONO DC IN 4.5V

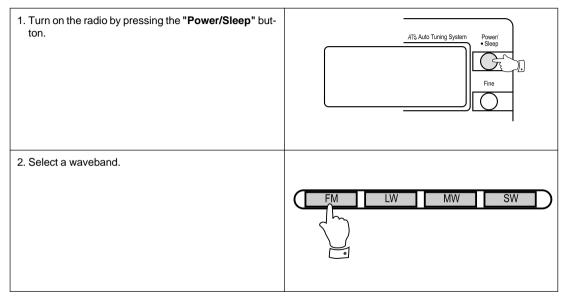
Manual tuning



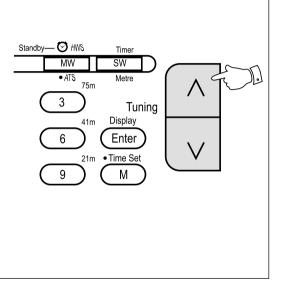
	press on the either the [Λ] or [\vee] down will change the frequency up or down.
	press of the [Λ] or [V] buttons will change ncy in increments of:
FM:	50kHz
LW:	1kHz or 9kHz
MW:	1kHz or 9kHz/10kHz
SW:	1kHz or 5kHz
20	



Scan tuning

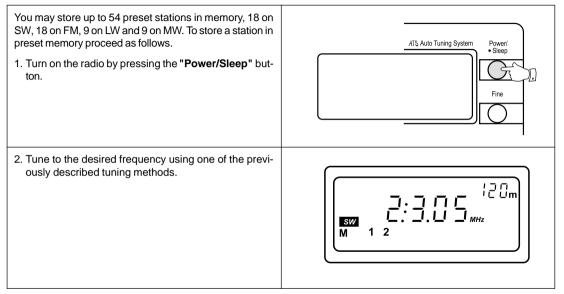


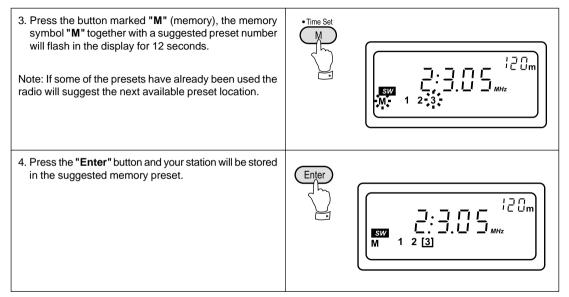
4. Press and hold down either the tuning [A] or [V] buttons for more than half a second to commence scan tuning. The radio will scan all frequencies in the selected band and stop automatically each time it finds an active station.



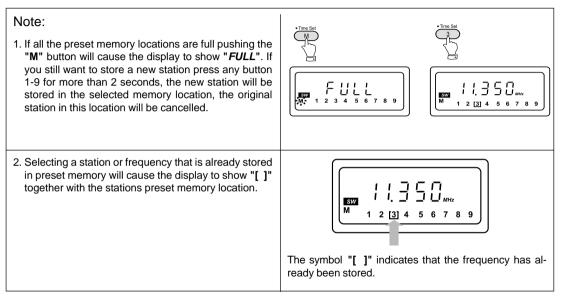
5. Press and hold down either the tuning [∧] or [∨] buttons for more than half a second to resume scan tuning. When the waveband end is reached the radio will beep and continue tuning from the opposite waveband end.	Standby-OHWS Timer MW SW •ATS 75m Metre 3 Tuning 41m Display 6 Enter 21m •Time Set 9 M
6. Adjust the Volume control for comfortable listening.	VOLIME VOLIME

Memory tuning

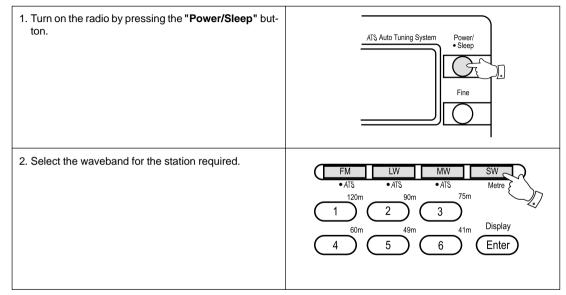




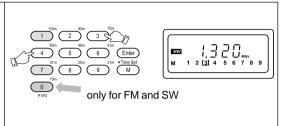
5. Preset stations may be exchanged easily and at any time. Select the preset that is to be changed by pressing the corresponding numbered button, press the "M" button, "M" and current preset location will flash in the display, whilst the display is flashing select the new preset location using one of the numbered buttons.		
6. The FM and SW bands have 18 presets. Presets 1-9 are set in the normal manner. When presets 1-9 are full selecting another station to be preset will cause the display to show "P2" . An additional 9 presets can now be stored.	I I I I I I I I I I I I I I I I I I I	



Recalling a station from preset memory

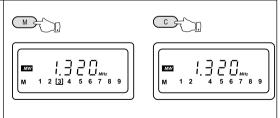


3. Press the button corresponding to the preset memory location for the required station. The radio will instantly tune to the station and the display will show its frequency and memory location. If you wish to select another preset station press any one of the numbered buttons for instant access. For SW presets 01-09, push the "P1/ P2" button until the "P2" symbol appears in the display followed by any one of the numbered buttons.



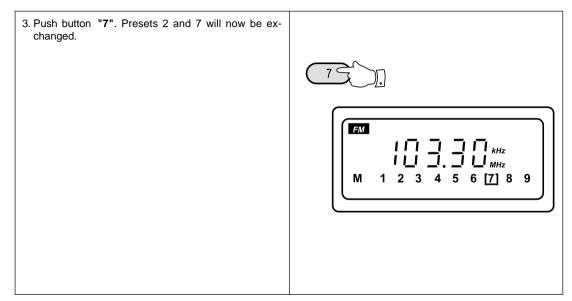
Cancelling a preset station

 Recall the preset station, push the "M" button. The preset location and "M" will flash in the display, push "C" to cancel the preset station.



Changing preset station order

e.g. exchanging preset station 2 with preset station 7. 1. Recall preset 2.	2
 Push the button "M", preset 2 and "M" will flash in the display. 	M I I I I I I KHz I I I I I I MHz M 1 [2] 3 4 5 6 7 8 9



ATS (Auto Tuning System)

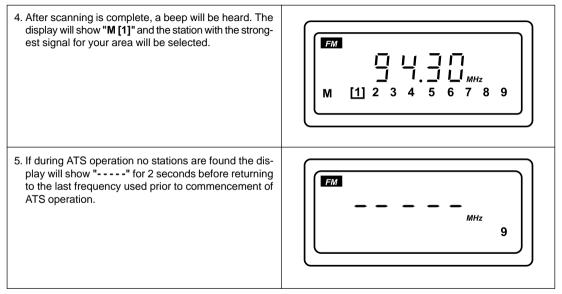
This radio provides an easy to use feature called \mbox{ATS} (Auto Tuning System) which operates on FM, LW and MW bands.

- 1. Turn on the radio by pressing the "Power/Sleep" button.
- Push any one of the FM/LW/MW band buttons for more than 2 seconds. The radio will beep and the display will flash "ATS" indicating the radio is in ATS mode.
- The radio will then scan from the lowest frequency on the selected waveband, automatically storing stations in preset memory 1-9 based on signal strength order. On FM a further 9 stations will be stored in memory page 2. Memory page 2 is selected by pressing the "P1/P2" button until the display shows "P2"



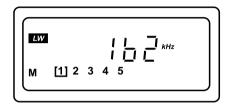






Note:

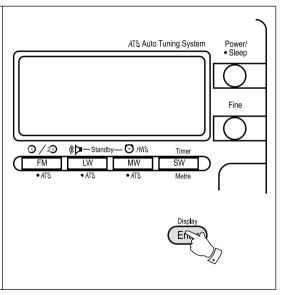
- The maximum number of presets on MW and LW is 9, if during ATS operation more than 9 stations are found only the 9 strongest stations will be stored in the preset memories. On FM the maximum number of presets is 18, if during ATS operation more than 18 stations are found only the 18 strongest stations will be stored in the preset memories.
- 2. If the number of stations found during ATS operation is less than 9 the display will show the actual number of stations found. For example, if only 5 stations are found, the display will show "[1] 2 3 4 5, when scanning is complete.
- 3. The SW band has no ATS function.
- 4. All previously stored preset stations will be erased when ATS operation commences.
- 5. ATS operation can be cancelled by pressing the "Power/ Sleep" button.



Setting the alarm

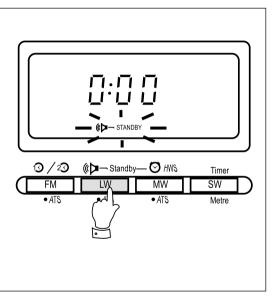
The alarm can be set with the radio power on or off.

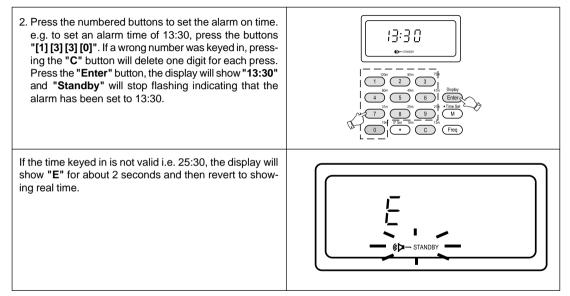
1. If the radio is switched on press the **"Display"** button to display the time.



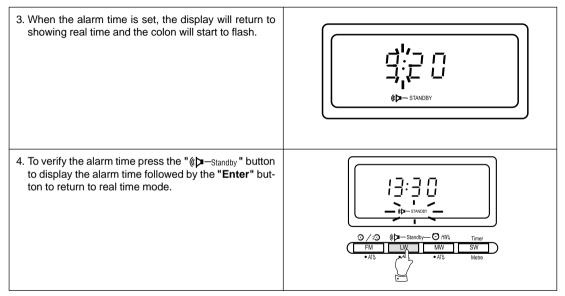
Setting the radio alarm (Standby)

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).





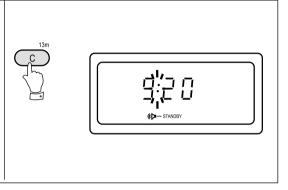
If you need any further advice, please call our Technical Helpline on :-0181 758 0338 (Mon-Fri)



5. To cancel the alarm time, press the "(()→-Standby" button, the display will flash "(()→-Standby", press the "C" button to cancel the alarm time.

Note:

- 1. When the alarm is sounding, press the "Power/Sleep" button to turn off the alarm for 24 hrs.
- 2. The radio alarm will last for one hour if not turned off by pushing the **"Power/Sleep"** button.
- 3. 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 of by pushing the **"Power/Sleep"** button.

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

1. The HWS alarm is set in the same way as the radio alarm except instead of pushing the "(())→-Standby" button the "Standby— ④ ///// ♥ button is used instead.

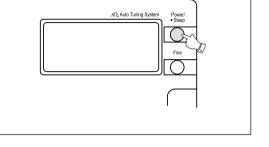
The HWS alarm may be turned off by pressing the **"Power/Sleep"** button.

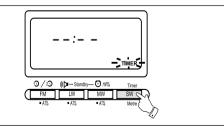
Note: The HWS alarm can be set independently from the buzzer alarm enabling 2 alarm times to be set, one for the radio alarm and one for the HWS alarm.

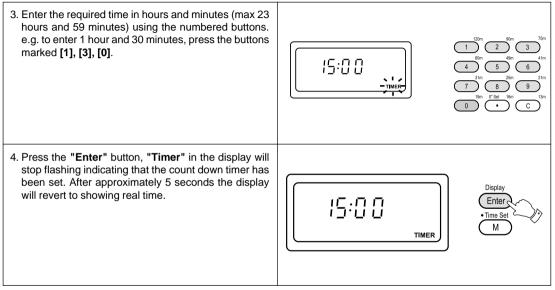
Setting the count down timer

The radio has a count down timer which can be set to beep when the time set has elapsed. The count down timer can be set with the radio power on or off.

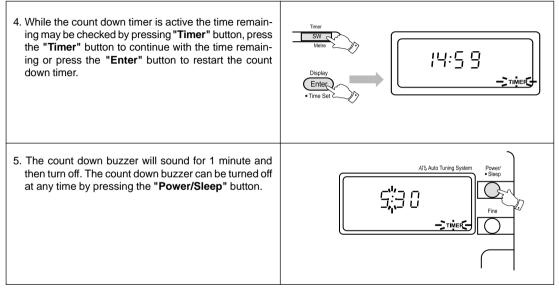
- 1. If the radio is switched on press the "**Display**" button to display the time.
- 2. Press the "Timer" button, the display will flash "Timer".



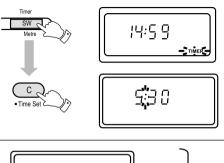




If you need any further advice, please call our Technical Helpline on :-0181 758 0338 (Mon-Fri)

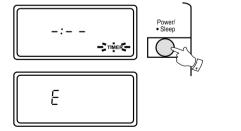


 To cancel the count down timer press the "Timer" button, and then press the "C" button, "Timer" on the display will disappear and the display will revert to showing real time.



Note:

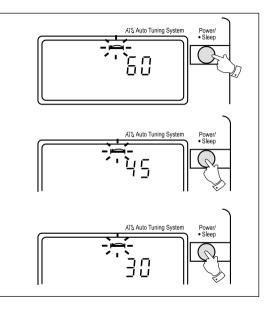
- 1. When the count down alarm is active, press the "**Power/Sleep**" button to turn off the alarm.
- 2. The count down alarm will sound for 1 minute unless turned off by pushing the "Power/Sleep" button.
- 3. If an incorrect time is entered e.g. 25.30 the display will show "**E**" for about 2 seconds before reverting to showing real time.

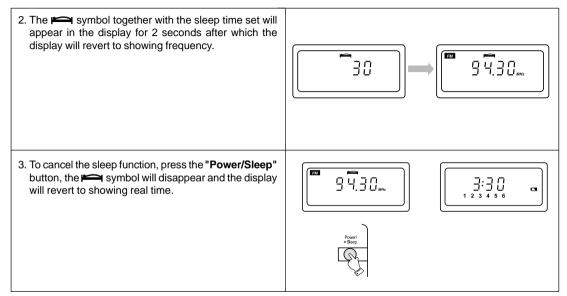


Setting the sleep timer

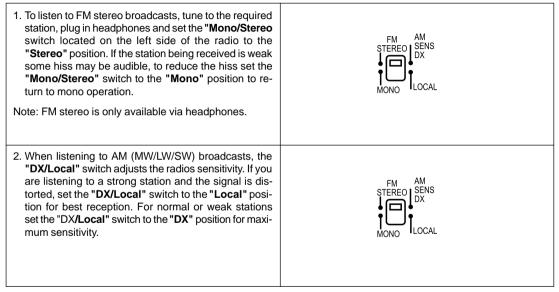
The sleep timer will automatically switch off the radio after a preset time has elapsed.

1. Press and continue to hold down the "**Power/Sleep**" button the display will cycle through the available sleep times in the order 60-45-30-15-60. Release the "**Power/Sleep**" button when the required sleep time appears in the display.



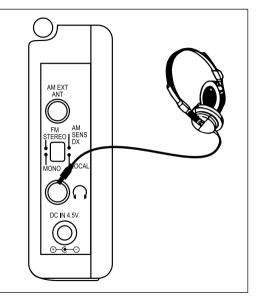


Mono/Stereo and DX/Local switch



Headphones

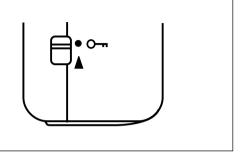
Headphones for use with this radio should be stereo and fitted with a 3.5mm stereo jack plug. Insert the headphone plug into the socket marked on the left side of the radio. When the headphones are plugged in the loudspeaker is automatically disconnected.



Lock switch

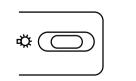
The " $\ensuremath{\text{Lock}}\xspace^{\ensuremath{\text{"Lock}}\xspace}$ switch is use to prevent unintentional operation of the radio.

 Set the "Lock" switch located on the right side of the radio to the up position, the O- symbol will appear in the display. The "Power/Sleep" 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 O- symbol will be removed from the display.



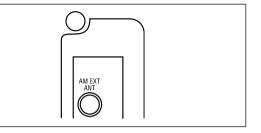
Light

Pressing the light button located on the top of the radio will turn on the light and and illuminate the display for approximately 15 seconds.



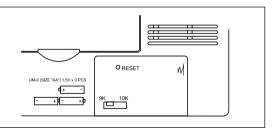
Portable shortwave aerial

 Pull out the jack plug from the aerial reel and plug into the socket marked "AM EXT. ANT" located on the left side of the radio. Uncoil the aerial to a convenient length and attach the reel clip to a suitable support point.



MW step size switch

1. This switch located inside the battery compartment 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.

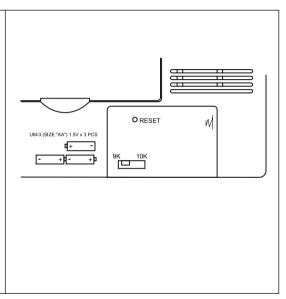


If you need any further advice, please call our Technical Helpline on :-0181 758 0338 (Mon-Fri)

Reset button

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.
- 2. 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 (except SW).



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	r			
FM	87.5 - 108MHz	SW	1.711 - 29.999MHz	
LW	153 - 513kHz		120m 2.300 - 2.495MHz	
			90m 3.200 - 3.400MHz	
MW	520 - 1710 or 522 - 1710kHz		75m 3.900 - 4.000MHz	
(dependent on position of MW step size switch)			60m 4.750 - 5.060MHz	
			49m 5.950 - 6.200MHz	
			41m 7.100 - 7.350MHz	
			31m 9.400 - 9.990MHz	
			25m 11.600 - 12.100MHz	
			21m 13.570 - 13.870MHz	
			19m 15.100 - 15.800MHz	
			16m 17.480 - 17.900MHz	
			13m 21.450 - 21.750MHz	
			11m 25.600 - 26.100MHz	

Specifications cont.

Power requirements 4.5V		Output power:	180mW.	
Batteries	3 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.	
		AM external aerial	3.5mm.	
	teries.	teries.	DC in	4.5volts centre pin negative.
Circuit features			Accessories:	Carrying pouch, Stereo ear-
Semiconductors:	1 LSI, 10 IC's, 8 FET, 24 transis- tors, 25 diodes, 2 LED			phones, AC adaptor, Portable shortwave aerial.
Aerial system	LW	Built in ferrite aerial		
	MW	Built in ferrite aerial		
	SW	Telescopic aerial		
	FM	Telescopic aerial		

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

Notes:

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) Imported by:-ROBERTS RADIO LIMITED PO BOX 130 MEXBOROUGH SOUTH YORKSHIRE S64 8YT

ROBERTS RADIO TECHNICAL SERVICES DEPARTMENT

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