

ROBERTS

Sound for Generations

RD-50

FM RDS/DAB digital radio

with *PAUSEplus*



Reveal

Please read this manual before use

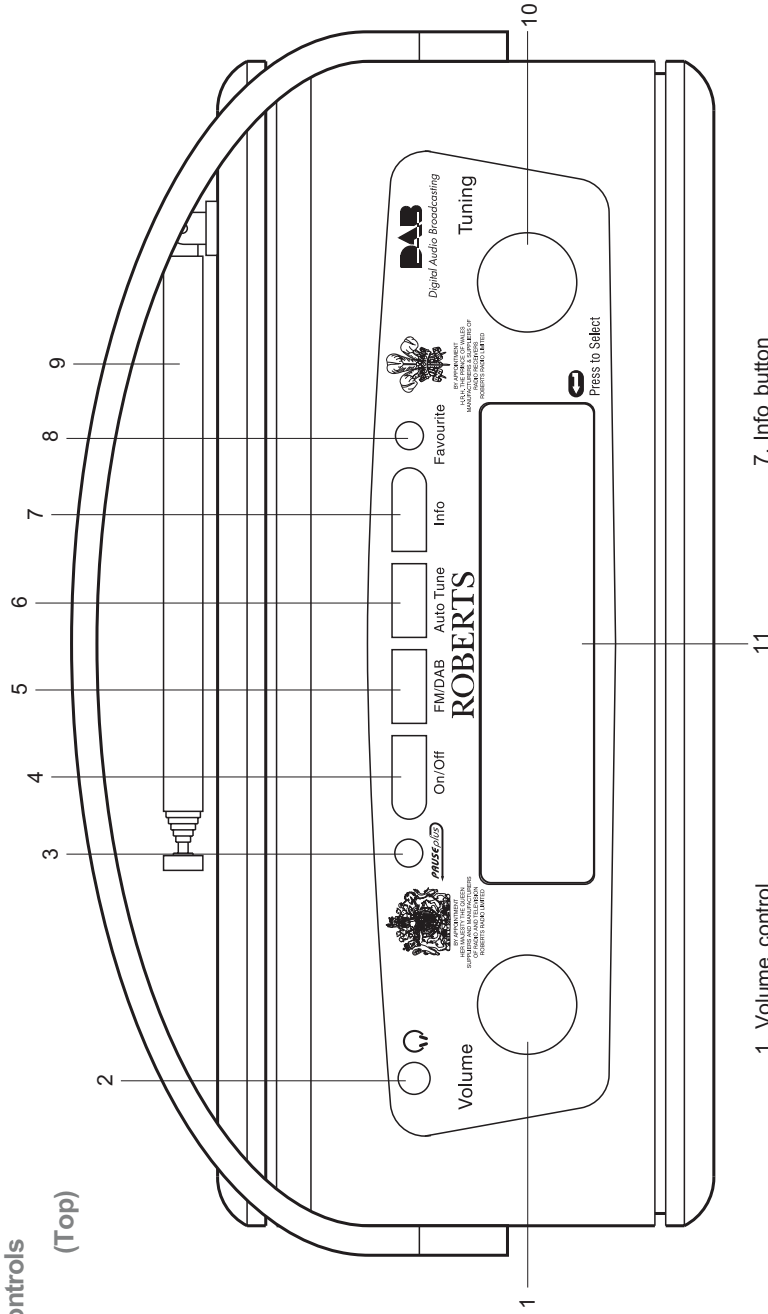


Contents

Controls	2-3	General	17
Battery operation	4	Specifications	17
Using the AC adaptor	4	Circuit features	17
Operating your radio - DAB	5	Guarantee	18
Selecting a station - DAB	6		
Secondary services - DAB	7		
Display modes - DAB	7		
Finding new stations - DAB	8		
Autoselect - DAB	8		
Manual tuning - DAB	9		
Signal strength display - DAB	9		
Using your radio's Pause Plus feature	10-11		
Favourite button	11		
Recalling your favourite station	11		
Classic FM button	11		
Operating your radio - FM	12		
Manual tuning - FM	13		
Display modes - FM	14		
FM stereo/mono	14		
System reset	15		
Headphone socket	16		
Display backlight	16		



Controls (Top)

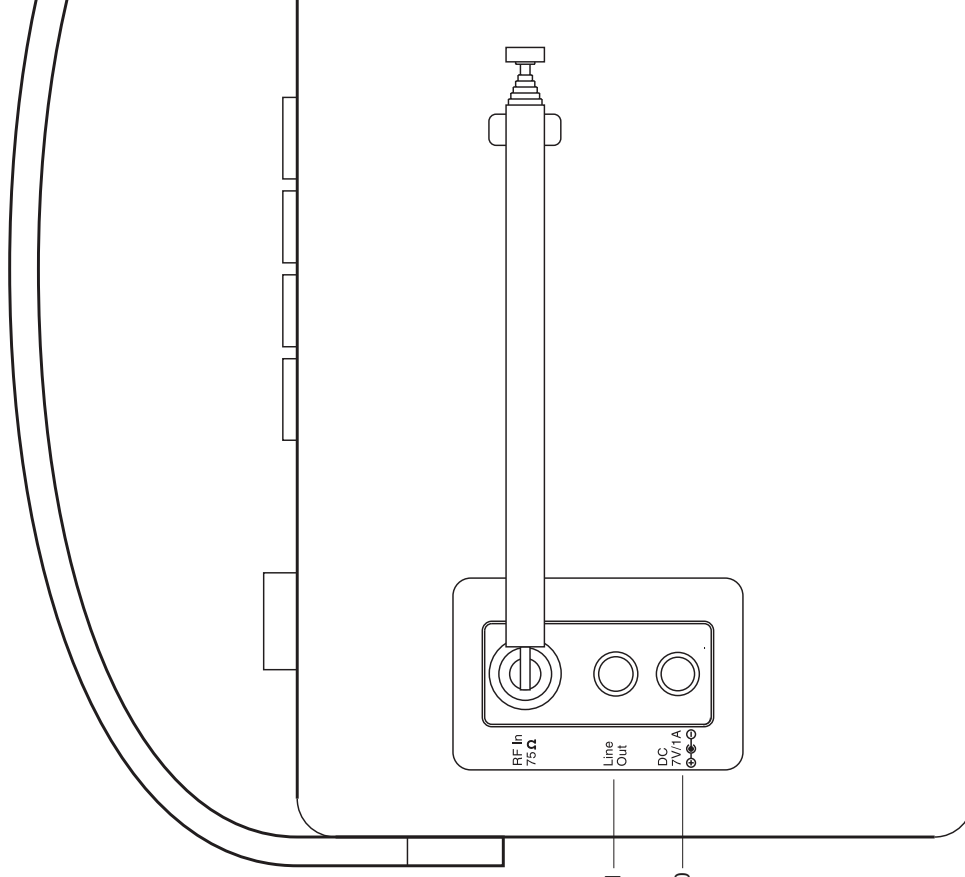


- 1. Volume control
- 2. Headphone socket
- 3. Pause Plus button
- 4. Power button
- 5. Band button
- 6. Auto Tune button
- 7. Info button
- 8. Favourite button
- 9. Telescopic aerial
- 10. Tuning control
- 11. LCD display

If you need any further advice, please call our Technical Helpline on :-
020 8758 0338 (Mon-Fri)



Controls

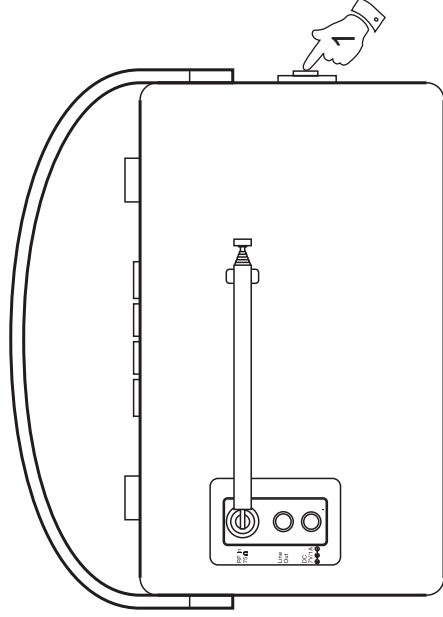


- 10. DC in socket
- 11. Line output socket



Battery operation

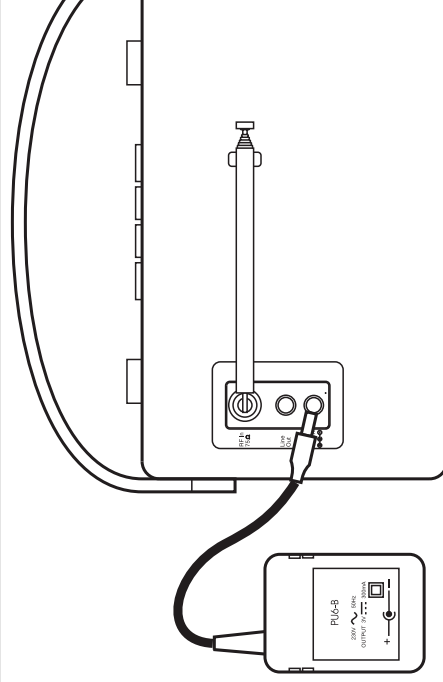
1. Release the catch securing the rear door of your radio.
2. Insert four LR20 (D size) batteries into the spaces in the compartment. Take care to ensure all batteries are inserted with the correct polarity as shown inside the battery compartment. Close the rear door and secure the catch.
3. Reduced power, distortion and a 'stuttering' sound are all signs that the batteries may need replacing.
4. If the radio is not to be used for any extended period of time it is recommended that the batteries are removed from the radio.
We would recommend for economy that the RD-50 is used via the AC adaptor whenever possible with battery operation for occasional or stand-by use only.



Using the AC adaptor

1. Insert the adaptor plug into the DC in socket on the rear of your radio.
2. 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 and the radio when not in use.



*If you need any further advice, please call our Technical Helpline on :-
020 8758 0338 (Mon-Fri)*

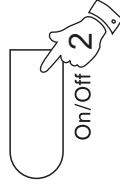




Operating your radio - DAB

1. Carefully extend the telescopic aerial.
2. Press the **On/Off button** to switch on your radio. The display will show "Roberts DAB digital radio" for a few seconds.
3. If this is the first time the radio is used a quick scan of UK Band III DAB channels will be carried out. The display will show "Autotune Quick scan". If the radio has been used before the last used station will be selected.
4. During Autotune as each group of stations is detected the bottom line of the display will show its name and the station count will be updated. The top line of the display shows a bargraph indicating progress of the Autotune.
5. When the Autotune is completed the first station (in numeric-alpha order 0...9..A...Z) will be selected.
6. If the station list is still empty after the Autotune your radio will display "No Signal".
7. If no signals are found it may be necessary to relocate your radio to a position giving better reception.

5



Roberts

Autotune
Quick scan



BBC National DAB 24

1Xtra DAB
BBC National DAB

No signal DAB

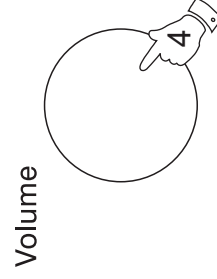
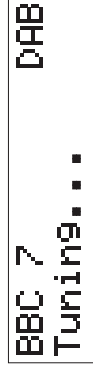
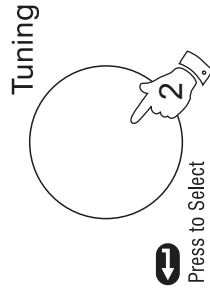




Selecting a station - DAB

1. The top line of the display shows the name of the station currently selected.
2. Rotate the **Tuning control** to scroll through the list of available stations. Stop rotating the Tuning control when you find the station that you wish to hear.
3. Press and release the **Tuning control** to select the station. The display may show "Tuning" while your radio finds the new station.
4. Adjust the **Volume control** to the required setting.

Note: If after selecting a station the display shows "Not Available" it may be necessary to relocate your radio to a position giving better reception.



If you need any further advice, please call our Technical Helpline on :-
020 8758 0338 (Mon-Fri)



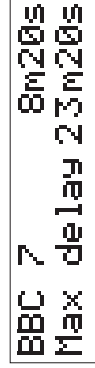
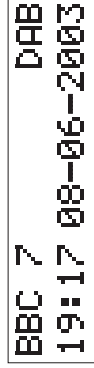
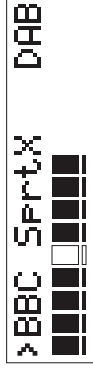
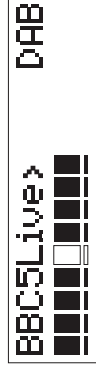
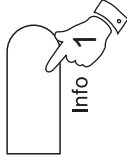
Secondary services - DAB

1. Certain radio stations have one or more secondary services associated with them. If a station has a secondary service associated with it the display will show ">" next to the station name on the station list. The secondary service will then appear immediately after the primary service as you rotate the tuning control clockwise.

Display modes - DAB

Your radio has six display modes:-

1. Press the **Info button** to cycle through the various modes.
 - a. Scrolling text
Displays scrolling text messages such as artist/track name, phone in number, etc.
 - b. Programme type
Displays type of station being listened to e.g. Pop, Classic, News, etc.
 - c. Multiplex Name
Displays name of multiplex to which current station belongs.
 - d. Signal strength
Displays signal strength for station being listened to.
 - e. Time and date
Displays current time and date.
 - f. Maximum delay
Displays maximum *PAUSEplus* delay for current station (see page 11).



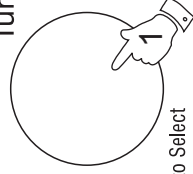


Manual Tuning - DAB

Manual tuning allows you to tune directly to the various DAB Band III channels. UK DAB stations located in the range 11B to 12D.

1. Press and hold in the **Tuning control** until the display shows "Manual tune".
2. Rotate the **Tuning control** to select the required DAB channel.
3. Press and release the **Tuning control** to select the channel.
4. Rotate the **Tuning control** to select the stations contained within the Multiplex (group of stations) for the selected DAB channel.
5. Press and release the **Tuning control** to return to normal tuning mode.

Tuning



Press to Select

Manual tune

12B 225.648 MHz
BBC National DAB

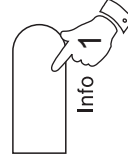
BBC 7 MAN
BBC National DAB

BBC 7 DAB
BBC National DAB



Signal strength display - DAB

1. Repeatedly press and release the **Info button** until the lower line of the display shows signal strength.
2. Position your radio and carefully angle the telescopic aerial for best reception using the signal strength display as a guide. Move your radio around and position so as to give maximum number of black rectangles on signal strength display.
3. The clear unfilled rectangle indicates minimum signal level required for satisfactory reception.



BBC 7 DAB





Using your radio's Pause Plus feature

How many times has your favourite radio station been interrupted by that phone call from a double glazing firm or someone selling that must have item? Sound familiar? Now with a single press of the **PAUSEplus** button you can put your favourite station on hold while you answer that important call. After the call or other important task is finished simply press the **PAUSEplus** button to return to your favourite station exactly where you left off so that you never miss a single word.

Radio stations can effectively be put on hold for typically 20 minutes but can be up to 35 minutes depending on the station you are listening to.

Note the **PAUSEplus feature only operates on the DAB waveband.**

1. To place your radio in **PAUSEplus** mode simply press the **PAUSEplus** button, the sound from the loudspeaker will be muted. The display will alternate between PAUSE and the time which the radio station has been on Pause.
2. To return to the radio station that you were listening to simply press the **PAUSEplus** button and your radio will continue playing from where you left off. The display will alternate between DELAY and the amount by which you are behind real time.
3. When using your radio's **PAUSEplus** feature the lower line of display automatically switches to show the Maximum delay time for the station you are listening to.
4. To return to real time press in and release the **Tuning control**, the display will return to show DAB in right hand corner.



PAUSEplus

BBC 7 PAUSE
Just a Minute...

BBC 7 5m20s
Just a Minute...

BBC 7 DELAY
Just a Minute...

BBC 7 8m20s
Just a Minute...

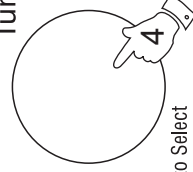


PAUSEplus



BBC 7 8m20s
Max delay 23m20s

Tuning



Press to Select

BBC 7 DAB
Just a Minute...

If you need any further advice, please call our Technical Helpline on :-
020 8758 0338 (Mon-Fri)



Pause Plus continued

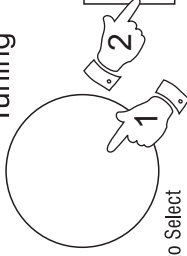
1. As soon as you switch on your radio the **PAUSEplus** feature is working silently in the background so, say for example, you want to hear a news item again press the **PAUSEplus** twice and rotate the tuning control anti-clockwise to scroll back to the item you wish to listen. The display will show the amount of time you have scrolled back.

Note the **PAUSEplus memory only starts when your radio is switched on.**

2. When using your radio's **PAUSEplus** feature the lower line of display automatically switches to show the Maximum delay time for the station you are listening to.



Tuning



Press to Select

Favourite button

Your radio is fitted with a button which when pressed will automatically select the required waveband and tune to your Favourite station. This will allow you to store a total of one station from either the FM or DAB waveband.



Favourite



1. To setup your favourite station, tune into the required station.

2. Press and hold down the **Favourite button** (10 sec) until the display shows Favourite stored.

Recalling your favourite station

1. Press the **On/Off button** to switch on the radio.
2. Momentarily press the **Favourite button**, your radio will tune to the station stored in favourite memory.



Favourite

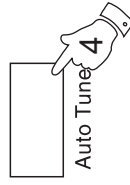
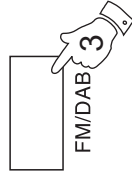
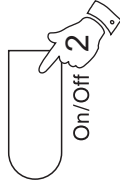




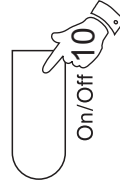
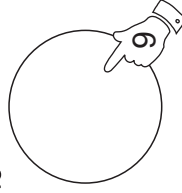
Operating your radio - FM

- Carefully extend the telescopic aerial.
- Press the **On/Off button** to switch on your radio. The display will show "Roberts DAB digital radio" for a few seconds.
- Press the **Band button** to select the FM band.
- Press and immediately release the **Auto Tune button**, your radio will scan in an upwards direction (low frequency to high frequency) and stop automatically when it finds a station of sufficient strength.
- After a few seconds the display will update and show station name.
- To find other stations press and release the **AutoTune button** as before.
- To scan the FM band in a downwards direction (high frequency to low frequency) press and hold down the **Auto Tune button** for 0.5 seconds and then release.
- When the waveband end is reached your radio will recommence tuning from the opposite waveband end.
- Adjust the **Volume control** to the required setting.
- To switch off your radio press the **On/Off button**.

If you need any further advice, please call our Technical Helpline on :-
020 8758 0338 (Mon-Fri)



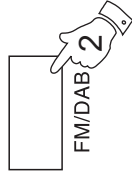
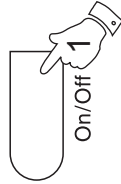
Volume



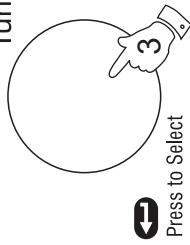


Manual tuning - FM

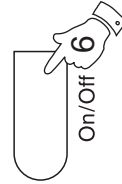
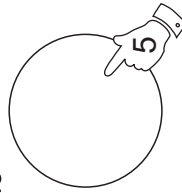
1. Press the **On/Off button** to switch on your radio.
2. Press the **Band button** to select the FM band. Fully extend the **Telescopic aerial**.
3. Rotate the **Tuning control** to tune to a station. The frequency will change in steps of 50kHz.
4. When the waveband end is reached the radio will recommence tuning from the opposite waveband end.
5. Set the **Volume control** to the required setting.
6. To switch off your radio press the **On/Off button**.



Tuning



Volume

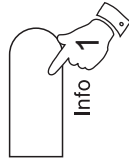




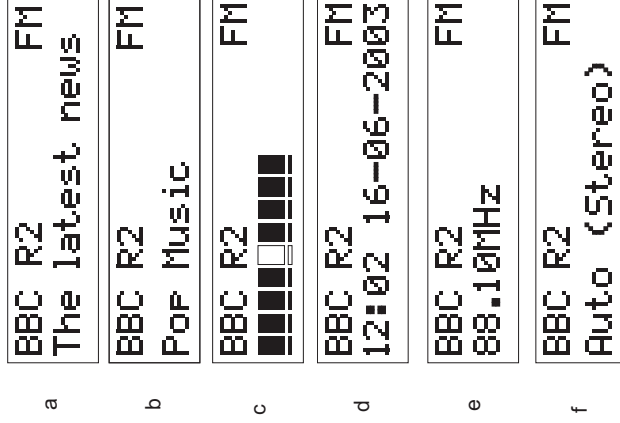
Display modes - FM

On FM the bottom line of the display can be set to any of the following modes:-

1. Press the **Info button** to cycle through the various modes.



- | | |
|--------------------|--|
| a. Scrolling text | Displays scrolling text messages such as artist/track name, phone in number etc. |
| b. Program Type | Displays type of station being listened to e.g. Pop, Classic, News, etc. |
| c. Signal strength | Displays signal strength for station being listened to. |
| d. Time and date | Displays current time and date. |
| e. Frequency | Displays frequency of the station being listened to. |
| f. Audio mode | Display shows Auto (stereo) or mono. |



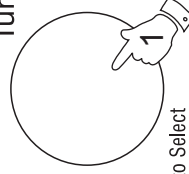
FM Stereo/Mono

1. If a station being received is weak some hiss may be audible. To reduce the hiss press and hold in the **Tuning control** until the display shows "Audio mode: Mono". Your radio will switch to mono mode.

2. To return to stereo mode press and hold in the **Tuning control** until the display shows "Audio mode: Auto". Your radio will switch to stereo mode.

Note: FM stereo is only available when listening via earphone/headphones

Tuning



Press to Select



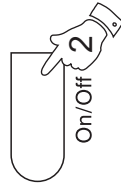
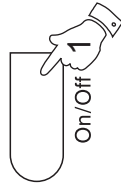
If you need any further advice, please call our Technical Helpline on :-
020 8758 0338 (Mon-Fri)



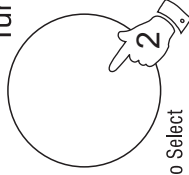
System reset

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

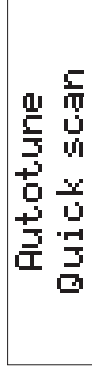
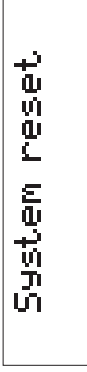
1. Switch off your radio.
2. Switch on your radio - before the screen shows "Roberts DAB digital radio" press and hold in the Tuning control until the display shows "System Reset".
3. A full reset will be performed. All presets and station lists will be erased.
4. If DAB was used last then a "Quick scan" of the DAB band will be performed, otherwise a "Quick scan" will be carried out the next time the DAB band is selected.



Tuning



Press to Select



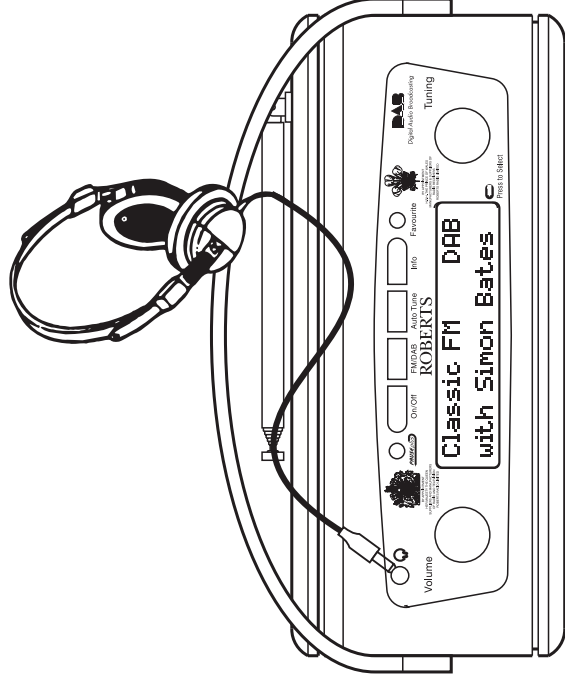


Headphone socket

A 3.5mm **Headphone Socket** located on the top left hand corner of your radio is provided for use with either headphones or an earpiece. Inserting a plug automatically mutes the internal loudspeaker.

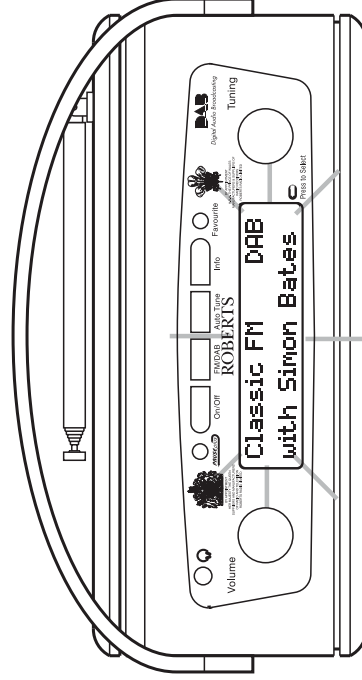
Line out socket

A 3.5mm **Line out socket** located on the rear of your radio is provided for connecting the audio signal to an external amplifier. Inserting a line out audio cable will not mute the internal loudspeaker. Set the volume control to minimum if desired.



Display backlight

1. The display backlight will be switched on for approximately 12 seconds when any button is pressed.
2. When your radio is powered by AC mains the display backlight will always be switched on.



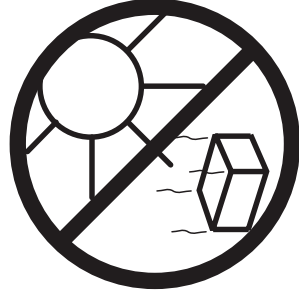
*If you need any further advice, please call our Technical Helpline on :-
020 8758 0338 (Mon-Fri)*





General

Do not allow this radio to be exposed to water, steam or sand. Do not leave your 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. It is recommended that the DAB band be used wherever possible as better results in terms of quality and freedom from interference will usually be obtained than on the FM band.



The name plate is located on the inside of the rear door on your radio.

Specifications

Power Requirements

Mains AC 230 volts, 50Hz  only (adaptor)
Batteries 4 x LR20 (D size)

Battery Life

Approx. 30 hours of listening for 4 hours a day at normal volume using alkaline cells.

Circuit Features

Loudspeaker 75mm full range
Output Power 1.0 Watt

Frequency Coverage

FM	87.5-108MHz	Headphone socket	3.5mm dia
DAB	174.928 - 239.200MHz	Aerial System	FM Telescopic aerial
		DAB	Telescopic aerial



Guarantee

This instrument 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 Technical Services at the address shown on the rear of this manual.

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

*If you need any further advice, please call our Technical Helpline on :-
020 8758 0338 (Mon-Fri)*



ROBERTS RADIO TECHNICAL SERVICES

97-99 Worton Road
Isleworth Middlesex

TW7 6EG

Technical Helpline :- 020 8758 0338 (Mon-Fri during office hours)



Issue 1

