



# ROBERTS

Sound for Generations



## RD-3

FM RDS/DAB digital radio



Please read this manual before use



rd-3 instruction book.pmd

1



7/9/2003, 11:06 AM

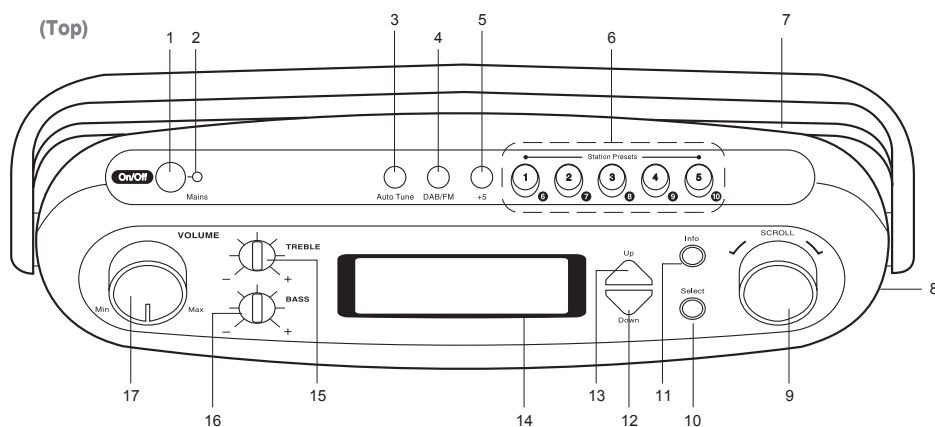


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## Controls

(Top)



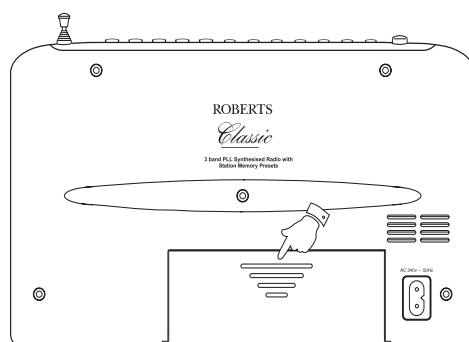
- |                        |                                |                                  |
|------------------------|--------------------------------|----------------------------------|
| 1. On/Off button       | 7. Telescopic aerial (on rear) | 13. Tuning up button             |
| 2. Mains LED indicator | 8. Headphone socket (on end)   | 14. Liquid crystal display (LCD) |
| 3. Auto Tune button    | 9. Tuning control              | 15. Treble control               |
| 4. DAB/FM button       | 10. Select button              | 16. Bass control                 |
| 5. +5 button           | 11. Info button                | 17. Volume control               |
| 6. Station presets     | 12. Tuning down button         |                                  |

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

### Battery operation

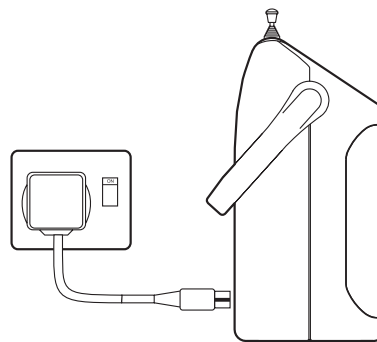
1. Remove the **Battery cover** on the rear of the unit by pushing the battery door in and downwards. .
2. Insert six LR14 (C size) batteries into the spaces in the compartment. Take care to ensure all batteries are inserted with the correct polarity as shown inside the battery compartment. Replace the battery cover.
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-3 is used on the mains whenever possible with battery operation for occasional or stand-by use only.*



### Mains operation

1. Place your radio on a flat surface.
2. Plug the mains lead into the **Socket** located on the rear of your radio ensuring that the plug is pushed fully into the socket.
3. Plug the other end of the mains lead into a wall socket and switch on the wall socket.



### Operating you radio - DAB

1. Fully 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 full scan of all band III DAB channels will be carried out. The display will show "Autotune Full 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 Auto tune is complete 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 you radio will display "No Signal".



Roberts

Autotune  
Full scan

Searching...

24  
BBC National DAB

1Xtra DAB  
BBC National DAB

No signal DAB

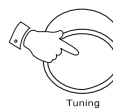
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### Selecting a station - DAB

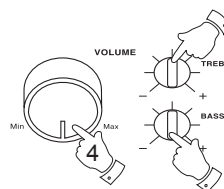
1. The top line of the display shows the name of the station currently selected.
2. Rotate the **Tuning control** or press the **Up** or **Down buttons** to scroll through the list of available stations.
3. Press and release the **Select button** to select the station. The display may show "Tuning" while your radio finds the new station.
4. Adjust the **Volume and Tone controls** to the required settings.

Note certain stations that appear on the station list may be data only services - these stations do not broadcast any audio information e.g. Digizone.

Classic DAB



BBC 7 DAB  
Tuning...



### 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 turn the tuning control.

BBC5Live> DAB  
■■■■■

>BBC SertX DAB  
■■■■■

### Display modes - DAB

Your radio has five 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. Program 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.  |

a BBC 7 DAB  
Just a Minute...

b BBC 7 DAB  
Culture

c BBC 7 DAB  
BBC National DAB

d BBC 7 DAB  
■■■■■

e BBC 7 DAB  
19:17 08-06-2003

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### Finding new stations - DAB

As time passes new stations may become available. To find new stations proceed as follows:-

1. Press and release the **AutoTune button**, the display will show Autotune Quick scan. Your radio will perform a scan of the UK DAB frequencies. As new stations are found the station counter on the right-hand side of the display will increase and stations will be added to the list
2. To carry out a full scan of the entire DAB band III frequencies press and hold down the **AutoTune button** for more than 2 seconds and then release. The display will show Autotune Full scan. As new stations are found the station counter on the right-hand side of the display will increase and stations will be added to the list



Autotune  
Quick scan

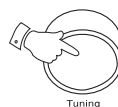


Autotune  
Full scan

### Autoselect - DAB

As an alternative to pressing the **Select button** to select a station your radio can be set so as to automatically select a station.

1. Rotate the **Tuning control** a few clicks in either direction, immediately press and hold down the **Select button** until the display shows Autoselect ON.
2. Rotate the **Tuning control** or press the **Up** or **Down buttons** until the station you require is visible on the display. After a few seconds your radio will automatically select the station shown on the display.
3. To switch off autoselect rotate the **Tuning control** a few clicks in either direction, immediately press and hold down the **Select button** until the display shows Autoselect OFF.



Autoselect ON



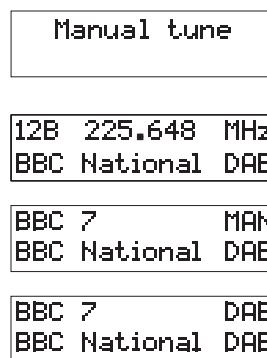
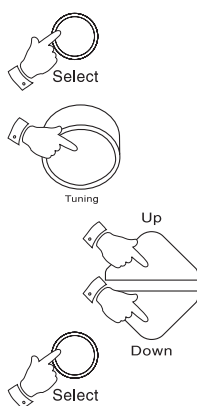
Autoselect OFF



### Manual Tuning - DAB

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

1. Press and hold down the **Select button** until the display shows Manual tune. Release the **Select button**.
2. Rotate the **Tuning control** or press the **Up** or **Down buttons** to select the required DAB channel.
3. Press and release the **Select button** to select the channel.
4. Rotate the **Tuning control** or press the **Up** or **Down buttons** to select the stations contained within the Multiplex (group of stations) for the selected DAB channel.
5. Press and release the **Select button** to return to normal tuning mode.



### Signal strength display - DAB

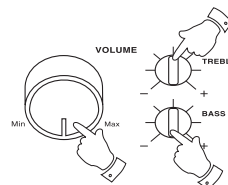
1. Repeatedly press and release the **Info button** until the lower line of the display shows signal strength.
2. Your radio can now be positioned for best reception using the signal strength display as guide. Move your radio around and position your radio so as to give maximum number of black rectangles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



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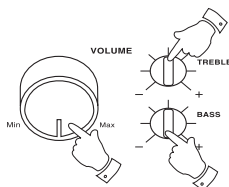
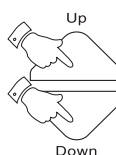
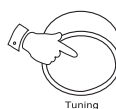
## Operating your radio - FM

1. Fully 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. Press the **DAB/FM button** to select the FM band.
4. 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.
5. After a few seconds the display will update and show station name.
6. To find other stations press and release the **AutoTune button** as before.
7. To scan the FM band in a downwards direction (high frequency to low frequency) press and hold down the **Auto Tune button** for 2 seconds and then release.
8. When the waveband end is reached your radio will recommence tuning from the opposite waveband end.
9. Adjust the **Volume and Tone controls** to the required settings.
10. To switch off your radio press the **On/Off button**.



### Manual tuning - FM

1. Press the **On/Off button** to switch on your radio.
2. Press the **FM/DAB button** to select the FM band. Fully extend the **Telescopic aerial**.
3. Rotate the **Tuning control** or press the **Up** or **Down buttons** 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** and **Tone controls** to the desired settings.
6. To switch off your radio press the **On/Off button**.



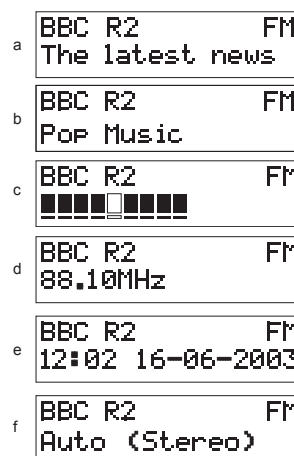
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### Display modes - FM

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.

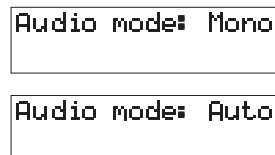
- |                    |   |
|--------------------|---|
| a. Scrolling text  | Displays scrolling text messages such as artist/ track name, phone in number etc. |
| b. Program Type    | Displays type of station being listened to e.g. Pop, Classic, News etc.           |
| c. Signal strength | Displays 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 **Select button** 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 **Select button** until the display shows Audio mode :Auto, your radio will switch to stereo mode.

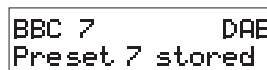
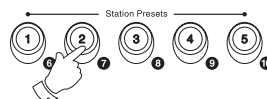
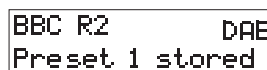
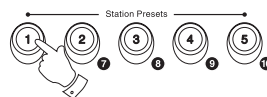
Note: FM stereo is only available when using earphone/headphones



### Presetting stations - DAB and FM

There are 10 memory presets for each of the 2 wavebands.

1. Press the **On/Off button** switch on the radio.
2. Tune to the required station as previously described.
3. Press and hold down the required **Preset button** until the display shows e.g. Preset 1 stored. The station will be stored under the chosen preset button. Repeat this procedure for the remaining presets.
4. Presets 6 to 10 are obtained by pressing **+5** followed by **Preset button 1 to 5**. e.g preset 7 can be set by pressing **+5** followed by holding down **Preset button 2** until the display shows Preset 7 stored.
5. Stations stored in preset memories may be overwritten by following the above procedure.

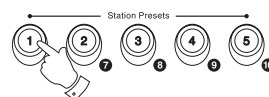


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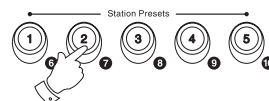
### Recalling a preset station - DAB and FM

1. Press the **On/Off button** to switch on the radio.
2. Select the required waveband by pressing the **Band** button.
3. Momentarily press the required **Preset button**, your radio will tune to the station stored in preset memory.

Presets 6 to 10 are obtained by pressing **+5** and **Preset button 1 to 5**. e.g preset 7 can be recalled by pressing **+5** followed by **Preset button 2**



BBC R2 DAB  
Preset 1 stored



BBC 7 DAB  
Preset 7 stored

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

- 



System reset

Autotune  
Full scan

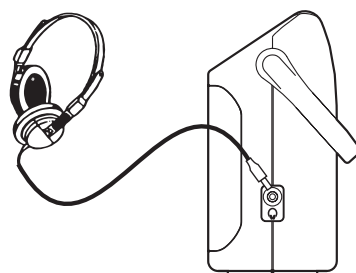
Searching...


 24  
 BBC National DAB

14

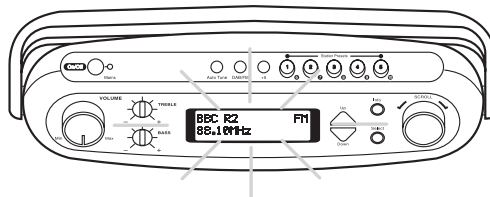
### Headphone socket

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



### Display backlight

1. The display backlight will be switched on for 8 seconds when any button is pressed.

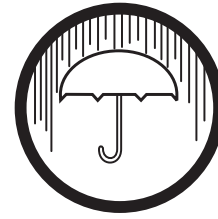
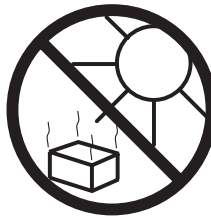







### General

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.



### Specifications

#### Power Requirements

Mains AC 230 volts, 50Hz  only  
Batteries 6 x LR14 (C size)

#### Battery Life

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

#### Frequency Coverage

FM 87.5-108MHz  
DAB 174.928 - 239.200MHz

### Circuit Features

Loudspeaker	92mm 4ohms
Output Power	1W into 4ohms
Headphone socket	3.5mm dia
Aerial System	FM Telescopic aerial
	DAB Telescopic aerial



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020 8758 0338 (Mon-Fri)

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### Mains supply

The RD-3 will operate from a supply of AC 230 volts, 50Hz  $\sim$  only.

**DO NOT cut off the mains plug from this equipment.** If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or adaptor. If in doubt consult your dealer.

If nonetheless the mains plug is cut off, remove the fuse and dispose of the plug immediately to avoid a possible shock hazard by inadvertent connection to the mains supply.

If this product is not supplied with a mains plug, or one has to be fitted, then follow the instructions given below:

**IMPORTANT. DO NOT** make any connection to the larger terminal which is marked with the letter E or by the safety earth symbol  $\perp$  or coloured Green or Green-and-yellow.

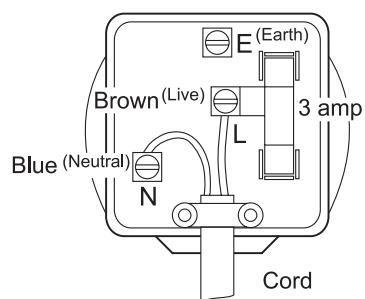
The wires in the mains lead are coloured in accordance with the following codes :-

BLUE - NEUTRAL

BROWN - LIVE

The wire coloured BLUE must be connected to the terminal marked N or coloured BLACK.

The wire coloured BROWN must be connected to the terminal marked L or coloured RED.



### Fuse

When replacing the fuse only a 3A ASTA approved to BS1362 type should be used and be sure to re-fit the fuse cover.

IF IN DOUBT - CONSULT A QUALIFIED ELECTRICIAN.

Replacement fuse holders are available from Roberts Radio Technical Services at the address shown on the rear of this manual.



## 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.



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

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# ROBERTS RADIO TECHNICAL SERVICES

97-99 Worton Road  
Isleworth Middlesex  
TW7 6EG

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



Issue 1



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