Sound for Generations

ecologic 4

FM RDS/DAB digital radio



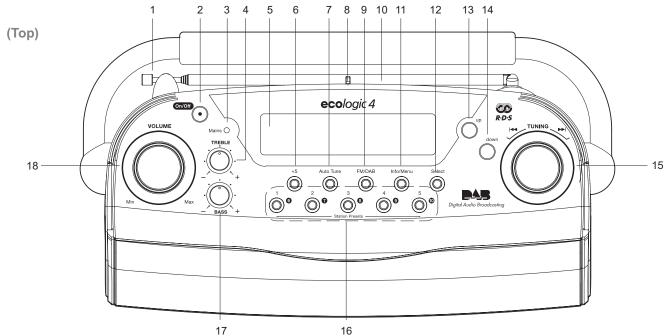


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Controls



- 1. Telescopic aerial (on rear)
- 2. On/Off button
- 3. Mains LED indicator
- 4. Treble control
- 5. Liquid crystal display (LCD)
- 6. + 5 button

- 7. Auto Tune button
- 8. Headphone socket
- 9. FM/DAB button
- 10. Line out socket
- 11. Info/Menu button
- 12. Select button

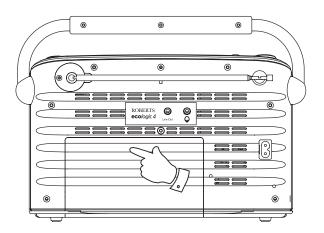
- 13. Tuning Up button
- 14. Tuning Down button
- 15. Tuning control
- 16. Station presets
- 17. Bass control
- 18. Volume control

Battery operation

- Remove the *Battery cover* on the rear of the unit by pushing the battery door in and downwards.
- Insert six 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. 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 ecologic 4 is used on the mains whenever possible with battery operation for occasional or stand-by use only.

IMPORTANT: The batteries should not be exposed to excessive heat such as sunshine, fire or the like. After use, disposable batteries should if possible be taken to a suitable recycling centre. On no account should batteries be disposed of by incineration.

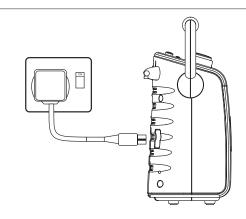


Mains operation

- 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.
- Plug the other end of the mains lead into a wall socket and switch on the wall socket.

IMPORTANT: The mains plug is used as the means of connecting the radio to the mains supply. The mains socket used for the radio must remain accessible during normal use. In order to disconnect the radio from the mains completely, the mains plug should be removed from the mains socket outlet completely.

When the mains LED is on, it indicates that the radio is connected to and powered from the mains supply.



Operating your radio - DAB

- 1. Fully extend the telescopic aerial.
- Press the *On/Off button* to switch on your radio. The display will show "Welcome to DAB" for a few seconds.
- 3. If this is the first time the radio is used a quick scan of the UK band III DAB channels will be carried out
- During Autotune as each group of stations is detected the bottom line of the display will show a bargraph indicating progress of the Autotune.
- 5. When the Autotune is complete the first station (in numeric-alpha order 0...9...A....Z) will be selected.
- If the station list is still empty after the Autotune you radio will display "No stations available".
- If no signals are found it may be necessary to relocate your radio to a position giving better reception.



Welcome to DAB

CAPITAL Now tunin9...

CAPITAL Di9ital Network

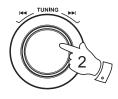
No stations available

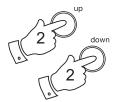
Selecting a station - DAB

- 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 "Now Tuning" while your radio finds the new station.
- 4. Adjust the **Volume** and **Tone controls** to the required settings.

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

Classic

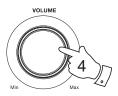


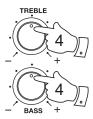


Select



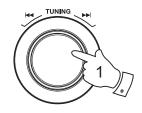
Classic FM Now tunin9...

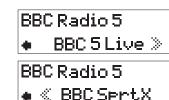




Secondary services - DAB

- 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*.
- 2. To tune to the secondary service, press and release the **Select button**. Most secondary services do not broadcast continually and if the selected service is not available, the radio will retune to the associated primary service.







Select

Display modes - DAB

Your radio has seven display modes:-

1.	Press the	Info/Menu	button	to cycle	through	the	various modes	۶.
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a. Scrolling text Displays scrolling text messages such as artist/track name, phone in number etc.

Info/Menu 1

BBC RADIO 7 Jane Jones pres

b. Program Type Displays the type of station being listened

to e.g. Pop, Classic, News etc.

c. Multiplex Name Displays the name of DAB multiplex to

which the current station belongs.

d. Time and date Displays current the time and date.

BBC RADIO 7 Varied Speech

BBC RADIO 7

BBC National

BBC RADIO 7

12:02 16-06-2007

e. Frequency

Displays the frequency of the DAB multiplex for the station listened to.

BBC RADIO 7 12B 225.64MHz

f. Bit rate & audio type

Displays the digital bit rate & audio type for the station being listened to.

BBC RADIO 7 160kbps Stereo

g. Signal Error

Displays the signal error for the station being listend to.

BBC RADIO 7 Signal error 2

g

Finding new stations - DAB

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

- Press and release the AutoTune button, the display will show "Scanning". 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
- To carry out a full scan of the entire DAB band (band III) press and hold down the *AutoTune button* for more than 2 seconds and then release. The display will show "Scanning". 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









Signal strength display - DAB

- 1. Press and release the **Select button** to switch between the current information display and the signal strength indication.
- 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. The clear unfilled rectangle indicates the minimum signal level required for satisfactory reception.





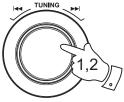
Manual Tuning - DAB

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.

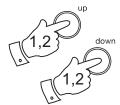
- 1. Press and hold down the *Info/Menu button* and rotate the *Tuning* control or press the Up or Down buttons until the display shows "Manual Tune". Press and release the Select button.
- 2. Rotate the *Tuning control* or press the *Up* or *Down buttons* to select the required DAB channel.
- 3. Press and release the **Select button.** The open block in the signal strength graph shows you the minimum signal strength needed for good DAB reception. The signal blocks will go up and down showing the changing signal strength as you adjust the telescopic aerial or the radio position.
- 4. Press and release the **Select button** to return to normal tuning mode.





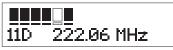
















Dynamic Range Control (DRC) settings - DAB

The DRC facility can make quieter sounds easier to hear when your radio is used in a noisy environment.

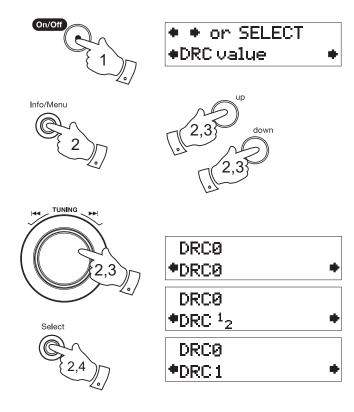
- 1. Press the *On/Off button* to switch on your radio.
- Press and hold down the *Info/Menu button* and rotate the *Tuning control* or press the *Up* or *Down buttons* until the display shows "DRC value". Press and release the *Select button* to enter adjustment mode.
- 3. Rotate the *Tuning control* or press the *Up* or *Down buttons* to select the required DRC setting (default is 0).

DRC 0 DRC is switched off, Broadcast DRC will be ignored. DRC 1/2 DRC level is set to 1/2 that sent by broadcaster.

DRC 1 DRC is set as sent by broadcaster.

 Press and release the **Select button** to confirm the setting. The display will return to normal tuning mode.

Note: Not all DAB broadcasts are able to use the DRC function. If the broadcast does not support DRC, then the DRC setting in the radio will have no effect.



Station order setup - DAB

This function enables you to choose how the stations are arranged when selecting a station. There are four options available - favourite station, alphanumeric, active station and prune stations.

Note: Your radio default station order is numeric-alpha order.

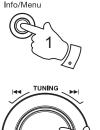
- Press and hold in the *Info/Menu button* and rotate the *Tuning control*or press the *Up* or *Down buttons* until "Station order" appears on the
 display.
- Press and release the Select button.
- Rotate the *Tuning control* or press the *Up* or *Down buttons* to choose between favourite station, alphanumeric, active station and prune stations.
- Press and release the **Select button** to select the station order setting required.

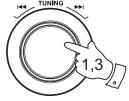
Favourite stations

When this setting is switched on, after a period of time the most listened to stations will move to the top of the station list and will be marked with the heart symbol .

Alphanumeric

Rotate the **Tuning control** until "Alphanumeric" appears on the display. Your radio will now select stations in alphanumeric order (0....9....Z).













Alphanumeric •Alphanumeric

Active station

When this setting is switched on the display will show only those that a signal can be found for.

Prune stations

Some DAB services may stop broadcasting or you may not be able to receive a station. Prune stations will delete the DAB stations from your station list that can no longer be received.

When this feature is selected your radio will delete the stations that are not currently being received.

Alphanumeric •Active station •

Alphanumeric

Prune station •

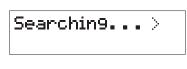
Operating your radio - FM

- 1. Carefully extend the telescopic aerial
- Press the *On/Off button* to switch on your radio. The radio will tune to the last selected radio station.
- 3. Press the **FM/DAB button** to select the FM band.
- Press and release the *Up button* then press the *Auto Tune button*.
 Your radio will search in an upwards direction (low frequency to high frequency) and stop automatically when it finds a station of sufficient strength.
- If RDS information is being received, then after a few seconds the display will update and show the radio station name.
- 6. To find other stations press the *Auto Tune button* as before.
- If you press and release the *Down button* then press the *Auto Tune button*, your radio will search in a downwards direction (high frequency to low frequency) and stop automatically when it finds a station of sufficient strength.
- 8. When the end of the waveband is reached your radio will recommence tuning from the opposite end of the waveband.
- 9. Adjust the Volume and Tone controls to the required settings.
- 10. To switch off your radio press the *On/Off button*.

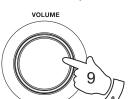






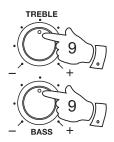






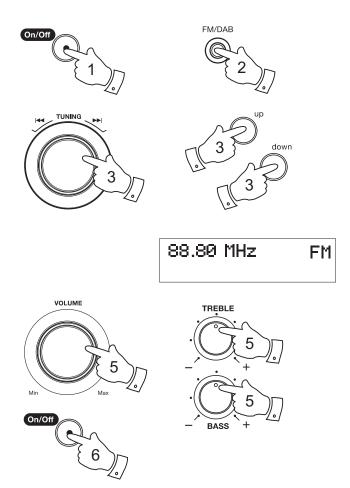






Manual tuning - FM

- 1. Press the *On/Off button* to switch on your radio.
- Press and release 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 end of the waveband is reached the radio will recommence tuning from the opposite end of the waveband.
- 5. Set the *Volume control* and *Tone controls* to the desired settings.
- 6. To switch off your radio press the *On/Off button*.



Display modes - FM

When listening in FM mode the bottom line of the display can be set to any of the following modes:-

1. Press the *Info/Menu 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.

Displays current time and date. c. Time and date

d. Frequency Displays frequency of the station being

listened to.

Info/Menu

BBC R2 RDS. The latest news

h

d

BBC R2 RDS. Poe Music

RDS. 12:02 16-06-2007

BBC R2 RDS 88.10MHz FΜ

FM Stereo/Mono

- 1. If the FM radio station being received is weak some hiss may be audible. To reduce the hiss press and release in the **Select button** until the display shows "Mono", your radio will switch to mono mode.
- 2. To return to stereo mode press and release in the **Select button** until the display shows "Auto", your radio will switch to stereo mode.



BBC R2	St	RDS
Mono		

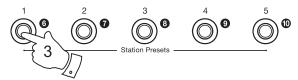
BBC R2	St RDS
Auto	

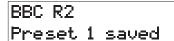
Presetting stations - DAB and FM

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

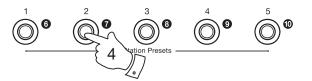
- 1. Press the **On/Off button** switch on the radio.
- 2. Tune to the required station as previously described.
- Press and hold down the required *Preset button* until the display shows e.g. Preset 1 saved. The station will be stored under the chosen preset button. Repeat this procedure for the remaining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







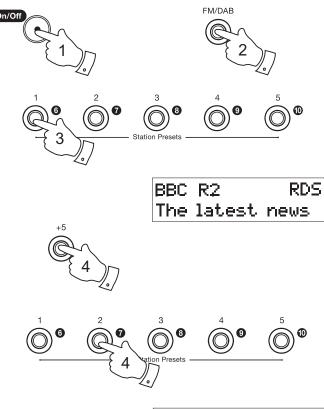




BBC R2 Preset 7 saved

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 *FM/DAB 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 and holding +5 button and Preset button 1 to 5. e.g preset 7 can be recalled by pressing and holding +5 button followed by pressing Preset button 2.



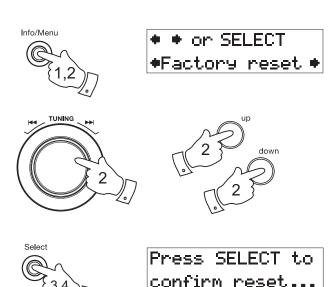
BBC RADIO 7 Jane Jones pres

System reset

If your radio fails to operate correctly, or some digits on the display are missing or incomplete, if running on batteries first check that the batteries are not exhausted. If you still suspect a problem with your radio please carry out the following procedure.

- In FM mode, press and hold down the *Info/Menu button* for 2 seconds.
 The display will show "SELECT Factory reset".
- In DAB mode, press and hold down the *Info/Menu button* and rotate the *Tuning control* or press the *Up* or *Down buttons* until the display shows "Select Factory reset".
- Press and release the **Select button** until the display shows "Press SELECT to confirm reset".
- 4. Press **Select button** again to confirm system reset.
- A full reset will be performed all presets and station lists will be erased.
- After a system reset a scan of the DAB band will be performed.
 In case of malfunction due to electrostatic discharge, reset the product (reconnection of power source may be required) to resume normal operation.

If a problem persists our technical staff would be pleased to help offer any assistance on operating the radio. Our technical helpline number is 020 8758 0338.



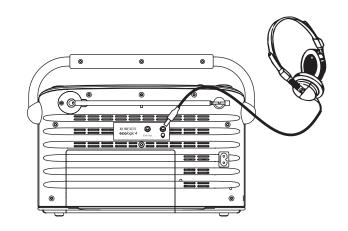
Headphone socket

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

IMPORTANT: Excessive sound pressure from earphones and headphones can cause hearing loss.

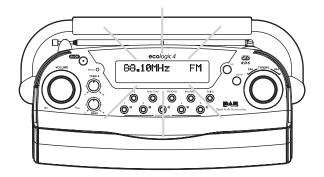
Line out socket

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

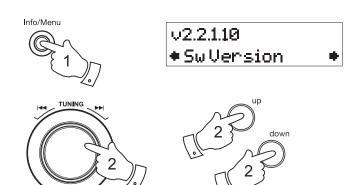
- When your radio is powered by batteries the display backlight will be switched on for approximately 8 seconds when any button is pressed.
- 2. When your radio is powered by AC mains the display backlight will always be switched on when the radio is switched to on.



Software version

The software display cannot be altered and is just for your reference.

- To view which software version your radio has press and hold in the Info/Menu button.
- Rotate the *Tuning control* or the *Up* and *Down* buttons until the software version shows on the display.



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 radio should not be exposed to dripping or splashing and that no objects filled with liquids such as vases, shall be placed on the radio.
- It is recommended to operate the product such that there is a minimum distance (10cm recommended) to adjacent objects in order to ensure good ventilation.
- The ventilation of the product should not be restricted by covering it or its ventilation openings with items such as newspapers, table-cloths, curtains etc.
- No naked flame sources such as lighted candles should be placed on the product.
- It is recommended to avoid using or storing the product at extremes of temperature. Avoid leaving the unit in cars, on window sills in direct sunlight etc.
- The nameplate is located on the underside of your radio.

Specifications			Circuit Features			
Power Requirements						
Mains	AC 230	volts, 50Hz 🔷 only	Loudspeaker	2 x 79n	nm	
Batteries	6 x LR2	20 (D size)				
			Output Power	3W		
Battery Life						
	Up to 150 hours of listening for 4 hours a day at normal volume using alkaline cells.		Headphone socket	3.5mm	3.5mm dia	
			Line out socket	3.5mm dia		
Frequency Coverage			Aerial System	FM	Telescopic aerial	
	FM	87.5-108MHz		DAR	Toloscopie aerial	

174.928 - 239.200MHz

DAB

DAB

Telescopic aerial

Mains supply

The radio 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 $\frac{1}{-}$ or coloured Green or Green-and-yellow.

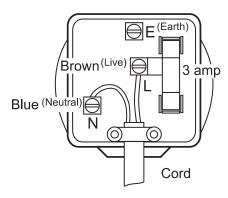
The wires in the mains lead are coloured in accordance with the following codes:-

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 3AASTA 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.

Notes

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.

ROBERTS RADIO TECHNICAL SERVICES

97-99 Worton Road

Isleworth Middlesex

TW7 6EG

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

Website: http://www.robertsradio.co.uk

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