

ROBERTS

Sound for Generations



RD-28

DAB digital radio

Gemini 28

DAB

Digital Audio Broadcasting

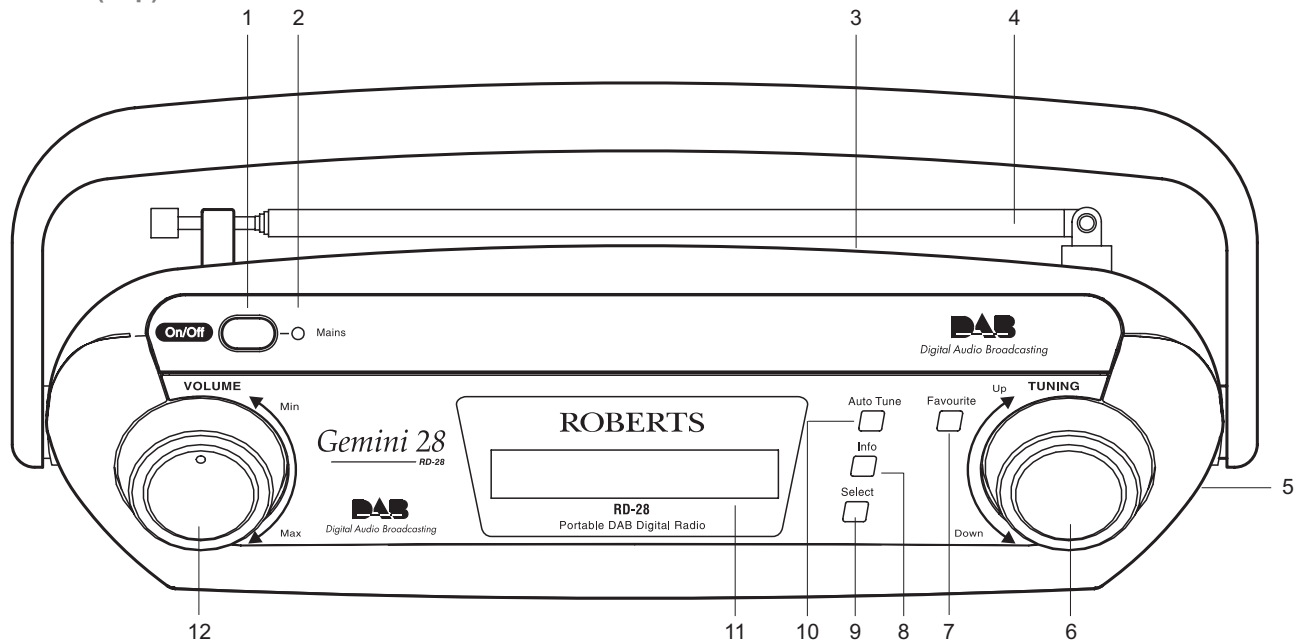
Please read this manual before use

Contents

<i>Controls</i>	2
<i>Battery operation</i>	3
<i>Mains operation</i>	3
<i>Operating your radio</i>	4
<i>Selecting a station</i>	5
<i>Secondary services</i>	6
<i>Display modes</i>	6
<i>Finding new stations</i>	7
<i>Autoselect</i>	7
<i>Manual tuning</i>	8
<i>Signal strength display</i>	8
<i>Favourite button</i>	9
<i>Recalling your favourite station</i>	9
<i>System reset</i>	10
<i>Headphone socket</i>	11
<i>Line out socket</i>	11
<i>Display backlight</i>	11
<i>General</i>	12
<i>Specifications</i>	12
<i>Circuit features</i>	12
<i>Mains Supply</i>	13
<i>Guarantee</i>	14

Controls

(Top)



- | | |
|--------------------------------|----------------------------------|
| 1. On/Off button | 7. Favourite button |
| 2. Mains LED indicator | 8. Info button |
| 3. Line out socket (on rear) | 9. Select button |
| 4. Telescopic aerial (on rear) | 10. Auto Tune button |
| 5. Headphone socket (on end) | 11. Liquid crystal display (LCD) |
| 6. Tuning control | 12. Volume control |

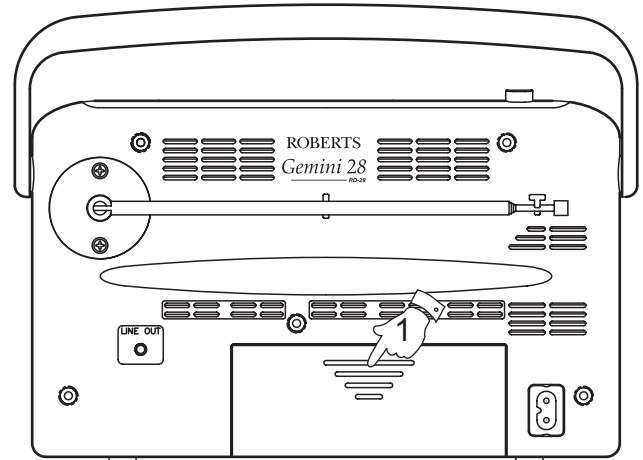
If you need any further advice, please call our Technical Helpline on :-
020 8758 0338 (Mon-Fri)

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.

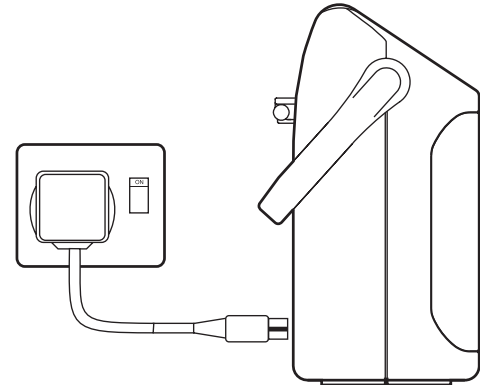
We would recommend for economy that the RD-28 is used on the mains whenever possible with battery operation for occasional or stand-by use only.

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.
 3. 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.
4. When the mains LED is off, it indicates that the radio is completely disconnected from the mains.



Operating your radio

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 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 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 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.



Roberts

Autotune
Quick scan

■■■■■■■■■■■■■■■■■■■■
Searchin9...

■■■■■■■■■■■■■■■■■■■■ 24
Digital1 Network

Classic FM DAB
Digital1 Network

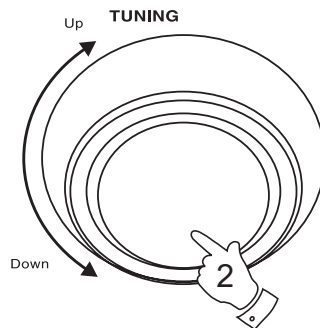
No signal DAB

Selecting a station

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.
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 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.

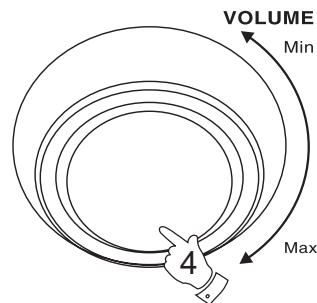
Classic DAB



Select



Classic FM DAB
Tuning...



Secondary services

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 SportX DAB
■■■■■□■■■■
```

Display modes

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. 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. |

a

```
Classic FM   DAB
Just a Minute...
```

b

```
Classic FM   DAB
Classical Music
```

c

```
Classic FM   DAB
Digital 1 Network
```

d

```
Classic FM   DAB
■■■■■□■■■■
```

e

```
Classic FM   DAB
12:02 16-06-2005
```

Finding new stations

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

1. Press and release the **Auto Tune 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 **Auto Tune 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.

Auto Tune



Autotune
Quick scan

■■■■■■■■■■□□□□ 24
Digital 1 Network

Auto Tune

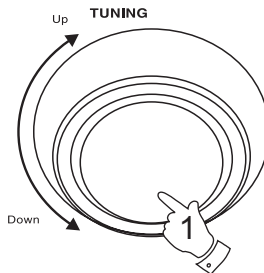


Autotune
Full scan

Autoselect

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** 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

Select



Autoselect OFF

Manual tuning

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** to select the required DAB channel.
3. Press and release the **Select button** 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 **Select button** to return to normal tuning mode.

Select

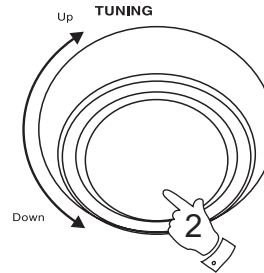


Manual tune

11D 222.064 MHz
Digital 1 Network

Classic FM MAN
Digital 1 Network

Classic FM DAB
Digital 1 Network



Signal strength display

1. Repeatedly press and release the **Info button** until the lower line of the display shows signal strength.
2. Position your radio and 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.

Info



Classic FM DAB
■■■■■□■■■■■

Favourite button

Your radio is fitted with a button which when pressed will automatically tune to your favourite station. This will allow you to store a total of one station from the DAB waveband.

1. To setup your favourite station, tune into the required station.
2. Press and hold down the **Favourite button** (15 sec) until the display shows Favourite stored.

Favourite



Classic FM DAB
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



Classic FM DAB
Just a Minute...

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 down the **Select button** until the display shows *System Reset*.
3. A full reset will be performed and the station list will be erased.
4. A Quick scan will then be performed.

In case of malfunction due to electrostatic discharge, just 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.



System Reset

Autotune
Quick scan

■■■■■■■■■■■■■■■■■■■■
Searchin9...

■■■■■■■■■■■■■■■■■■■■ 24
Digital 1 Network

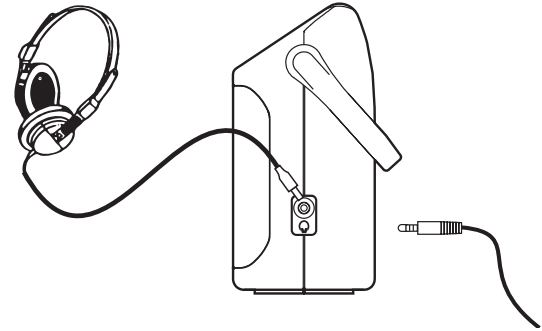
Headphone socket

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.

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

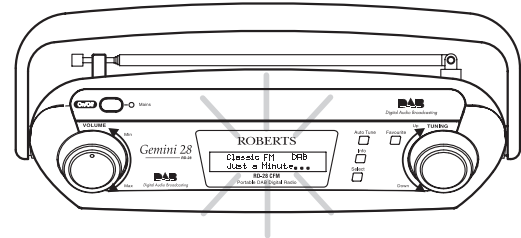
Line out socket

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

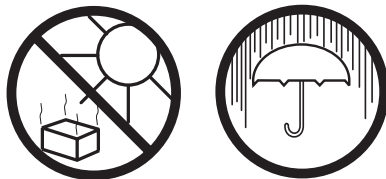
1. The display backlight will be switched on for approximately 12 seconds when any button is pressed if using on batteries.
2. When your radio is powered by AC mains the display backlight will always be switched on.



General

Do not allow this radio to be exposed to dripping or splashing 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.

- The name plate is located on the bottom panel.



- 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, tablecloths, 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.

Specifications

Power Requirements

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

Battery Life

Approx. 17 hours of listening for 4 hours a day at normal volume using alkaline cells.

Frequency Coverage

DAB 174.928 - 239.200MHz

Circuit Features

Loudspeaker	92mm 16ohms
Output Power	3W into 16ohms
Headphone socket	3.5mm dia
Line out socket	3.5mm dia
Aerial System	Telescopic aerial

Mains supply

The RD-28 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.

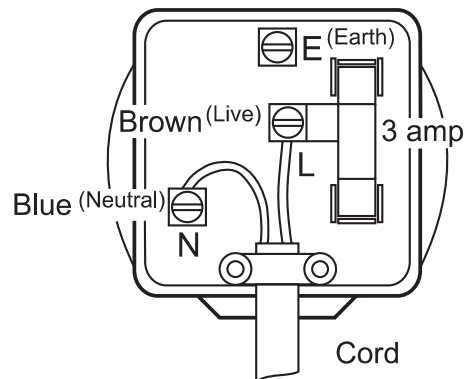
The wires in the mains lead are coloured in accordance with the following codes :-

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.

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



Issue 2

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>

