ROBERTS
Sound for Generations

RD-7

FM RDS/DAB digital radio

with *PAUSEplus*
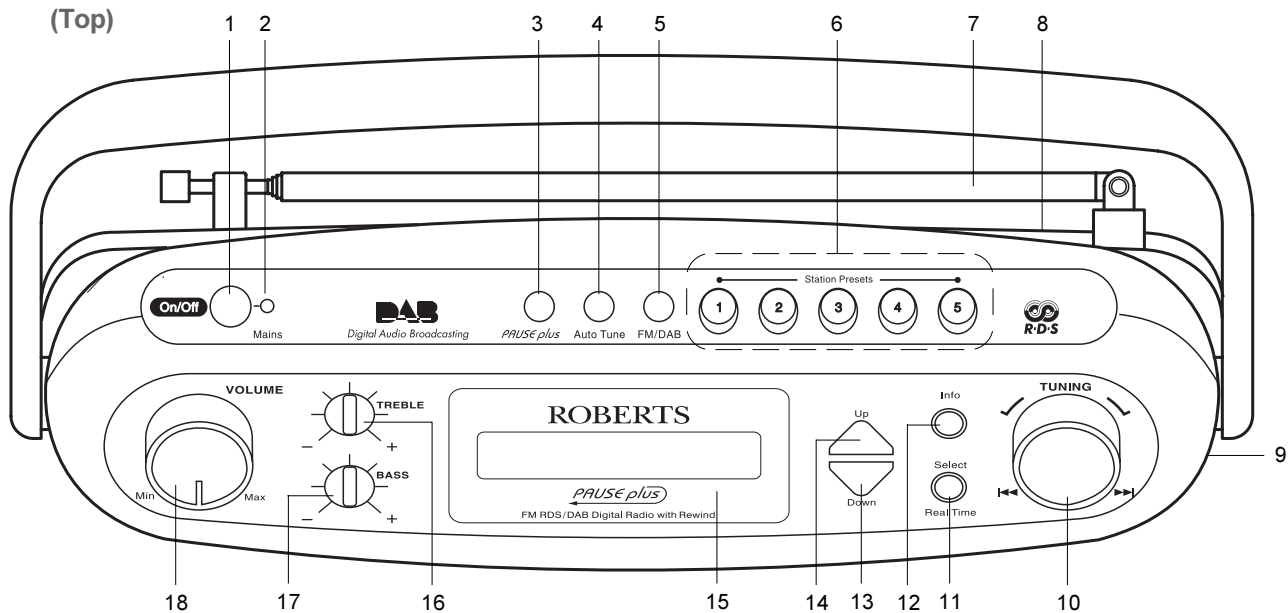

Gemini 7

DAB
Digital Audio Broadcasting

Please read this manual before use

Contents

Controls

(Top)

1. On/Off button
2. Mains LED indicator
3. *PAUSEplus* button
4. Auto Tune button
5. FM/DAB button
6. Station presets

7. Telescopic aerial (on rear)
8. Line out socket (on rear)
9. Headphone socket (on end)
10. Tuning control
11. Select & Real Time button
12. Info button

13. Tuning down button
14. Tuning up button
15. Liquid crystal display (LCD)
16. Treble control
17. Bass control
18. Volume control

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

2

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-7 is used on the mains whenever possible with battery operation for occasional or stand-by use only.
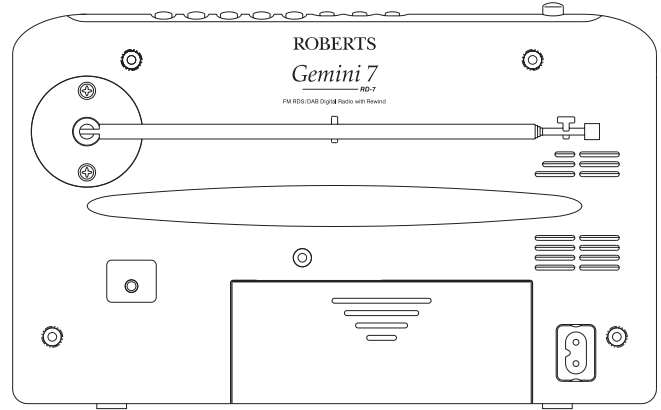
Mains operation

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.

* The unit remains connected to the mains even when it is switched off. The unit is only isolated from the mains if the mains plug is removed from the wall socket.
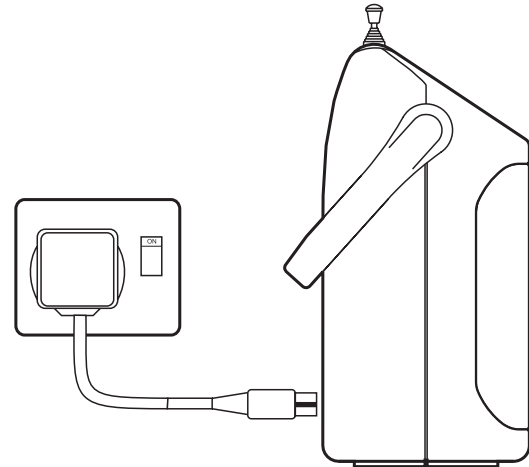
Operating your radio - DAB

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.

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

On/Off

2

Roberts

Autotune
Quick scan

Searching...

24
BBC National DAB

1Xtra   DAB
BBC National DAB

No signal   DAB

Selecting a station - DAB

```
Classic        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.

TUNING

Up

Down

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

Select

Real Time

```
BBC 7          DAB
Tuning...
```

VOLUME

Min   Max

TREBLE

BASS
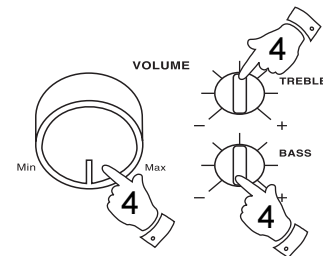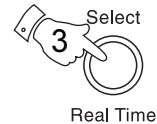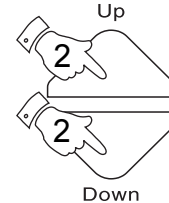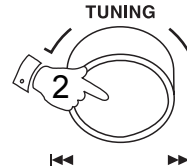
Secondary services - DAB

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 SprtX    DAB
■■■■□■■■■
```

Display modes - DAB

Your radio has five display modes:-

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

    1
    Info

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).

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
```

f
```
BBC 7       8m20s
Max delay 23m20s
```

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

Finding new stations - DAB

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



```
    Autotune
    Quick scan
```

```
■■■■■■■□□□   24
BBC National DAB
```



```
    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.
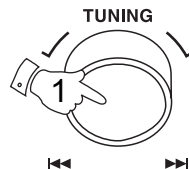

```
Autoselect ON
```
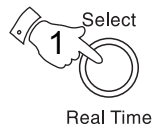


```
Autoselect OFF
```

## 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.

Select

Real Time   **TUNING**

|◄◄   ►►|

Up

Down   Select

Real Time
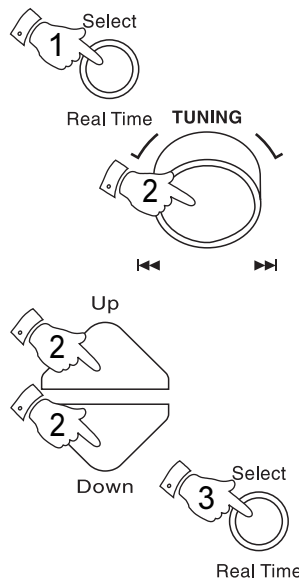
```
Manual tune
```

```
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 guide. Move your radio around and position 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

```
BBC 7         DAB
▪▪▪▪□▪▪▪▪
```

If you need any further advice, please call our Technical Helpline on :-

020 8758 0338 (Mon-Fri)

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 *PAUSE plus* 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 *PAUSE plus* 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 15 minutes but can be up to 35 minutes depending on the station you are listening to.

Note the *PAUSE plus* feature only operates on the DAB waveband.

1. To place your radio in *PAUSE plus* mode simply press the *PAUSE plus* 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 *PAUSE plus* 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 *PAUSE plus* 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 and release the **Select button**; the display will return to show DAB in right hand corner.

1

PAUSE plus

```
BBC 7        PAUSE
Just a Minute...
```

```
BBC 7        5m20s
Just a Minute...
```

2

PAUSE plus

```
BBC 7        DELAY
Just a Minute...
```

```
BBC 7        8m20s
Just a Minute...
```

3

```
BBC 7        8m20s
Max delay 23m20s
```

4

Select

Real Time
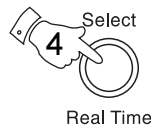
```
BBC 7          DAB
Just a Minute...
```

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 radios *PAUSEplus* feature the lower line of display automatically switches to show the Maximum delay time for the station you are listening to.

```
BBC 7      8m20s
Just a Minute...
```

TUNING
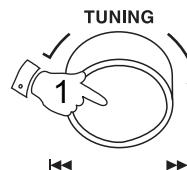
```
BBC 7      8m20s
Max delay 23m20s
```

Pause Plus memory length

By default the *PAUSEplus* memory is set to a fixed length of 10 minutes; this is to allow for reconfiguration of a station from say speech to music. The *PAUSEplus* memory will always follow the station reconfiguration correctly. If you are listening to a news, play or other speech program then the *PAUSEplus* memory can be set to variable length so that you may be able to pause a station for up to 35 minutes depending on the station you are listening to.

1. To change the *PAUSEplus* memory to variable length press and hold down the *PAUSEplus* button until the display shows VARIABLE Rewind Memory.

2. To change the *PAUSEplus* memory back to fixed length press and hold down the *PAUSEplus* button until the display shows FIXED Rewind Memory.

Note the PAUSEplus memory is cleared when changing stations, changing from fixed to variable PAUSEplus memory or switching off your radio

```
VARIABLE
    Rewind Memory
```

```
FIXED
    Rewind Memory
```

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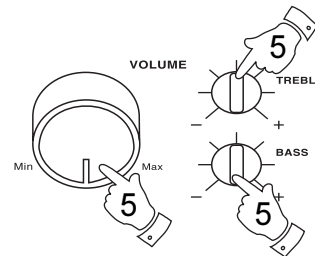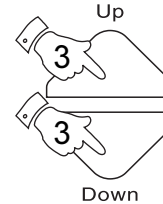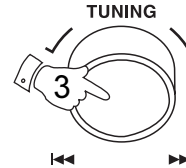*020 8758 0338 (Mon-Fri)*

Operating your radio - FM

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. Press the *FM/DAB button* to select the FM band.

4. Press and hold down either the *Up or Down buttons* until the frequency in the display begins to change rapidly. Release the button. Your radio will scan the FM waveband, stopping each time 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 hold down the *Up or Down button* as before.

7. When the waveband end is reached your radio will recommence tuning from the opposite waveband end.

8. Adjust the *Volume and Tone controls* to the required settings.

9. To switch off your radio press the *On/Off button*.

On/Off

2

88.10MHz   FM

3
FM/DAB

Up
4
4
Down

BBC R2   FM

VOLUME
TREBLE
8
Min   Max
BASS
8   8
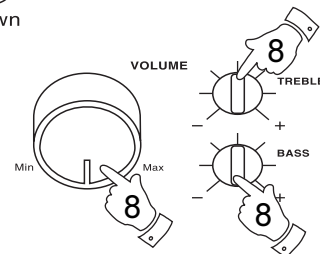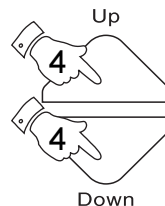
On/Off
9

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* and *Tone controls* to the desired settings.

6. To switch off your radio press the *On/Off button*.

On/Off

1

2

FM/DAB

TUNING

3

Up

3

3

Down

88.10MHz   FM

VOLUME

Min   Max

5

5

TREBLE

−   +

BASS

−   +

5

6

On/Off

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. Programme 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.

a
```
BBC R2           FM
The latest news
```

b
```
BBC R2           FM
Pop Music
```

c
```
BBC R2           FM
■■■■□■■■■
```

d
```
BBC R2           FM
12:02 16-06-2003
```

e
```
BBC R2           FM
88.10MHz
```

f
```
BBC R2           FM
Auto (Stereo)
```

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

```
Audio mode: Mono
```

```
Audio mode: Auto
```

Presetting stations - DAB and FM

There are 5 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. Stations stored in preset memories may be overwritten by following the above procedure.

On/Off

Station Presets

1   2   3   4   5

```
BBC R2          DAB
Preset 1 stored
```
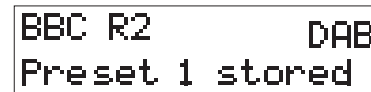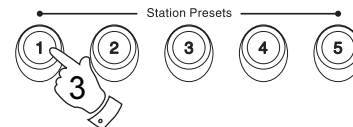
Recalling a preset station - DAB and FM

1. Press the **On/Off button** to switch on the radio.

2. Select the required waveband by pressing the **FM/BAB button**.

3. Momentarily press the required **Preset button**, your radio will tune to the station stored in preset memory.

On/Off

FM/DAB

Station Presets

1   2   3   4   5

```
1Xtra          DAB
BBC National   DAB
```
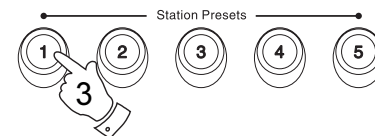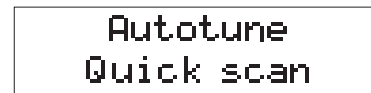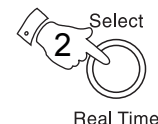
System reset

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 all presets and station lists will be erased.

4. If DAB was used last then a Quick scan will be performed, otherwise a Quick scan will be carried out the next time the DAB band is selected.

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

On/Off 1

On/Off 2

Select
2
Real Time

```
System reset
```

```
Autotune
Quick scan
```

```
■■■□□□□□□□□□
Searching...
```

```
■■■■■■■□□□    24
BBC National DAB
```

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

Headphone socket

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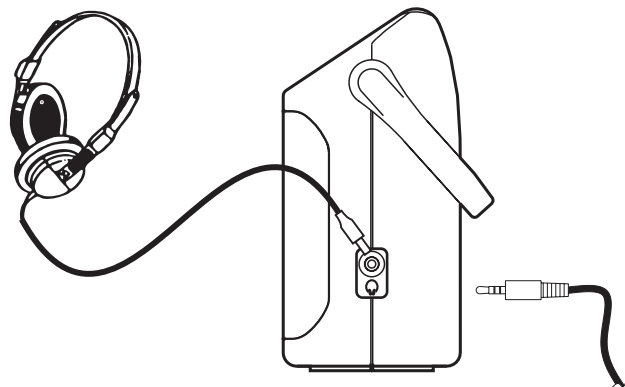
Line out socket

A 3.5mm **Line out socket** located on the rear of you 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.
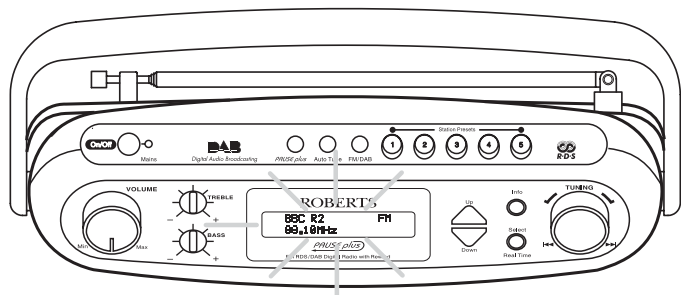
General

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.
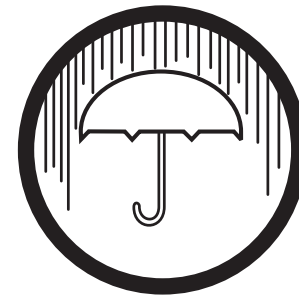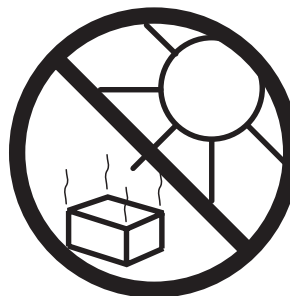
*   The nameplate is located on the bottom panel.

Specifications

Power Requirements

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

Battery Life

Approx. 13 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 8ohms
Output Power	2.5W into 4ohms
Headphone socket	3.5mm dia
Lineout socket	3.5mm dia
Aerial System FM	Telescopic aerial
DAB	Telescopic aerial

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

Mains supply

The RD-7 will operate from a supply of AC 230 volts, 50Hz ∿ 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 ⏚ or coloured Green or Green-and-yellow.
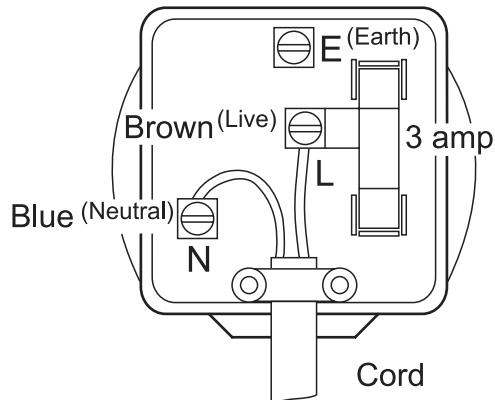
The wires in the mains lead are coloured in accordance with the following codes :-

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.

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)*

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