

# ROBERTS

## Opus

DAB / DAB+ / FM RDS / Bluetooth portable digital radio with USB recording and playback



**DAB**  
Digital Audio Broadcasting

**DAB+**

**Digital  
Radio**



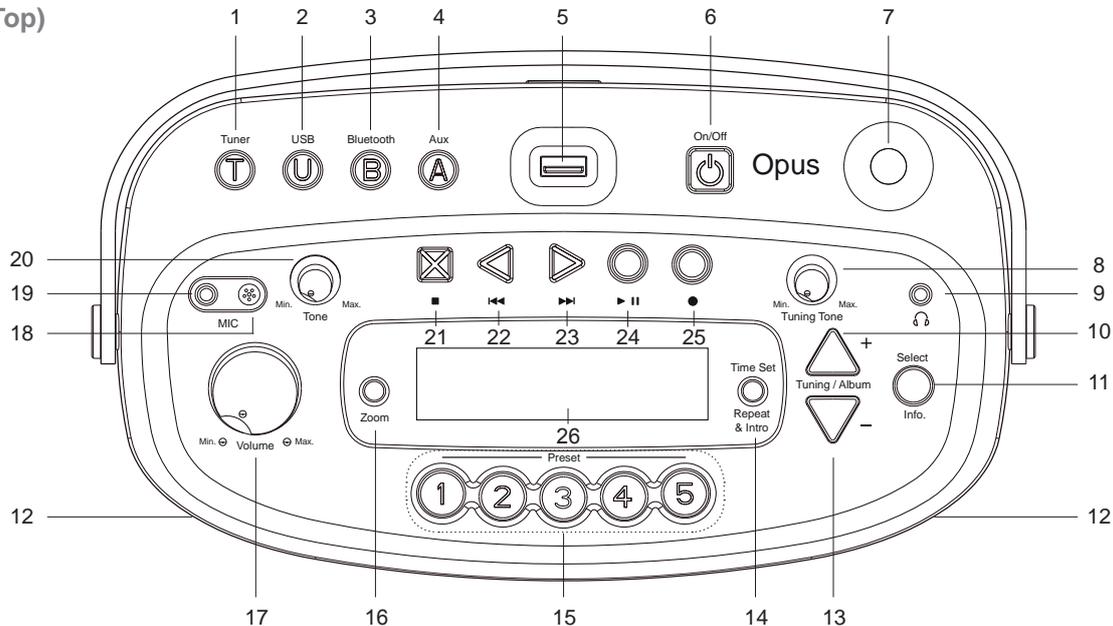
Please read this manual before use

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## Controls (Top)



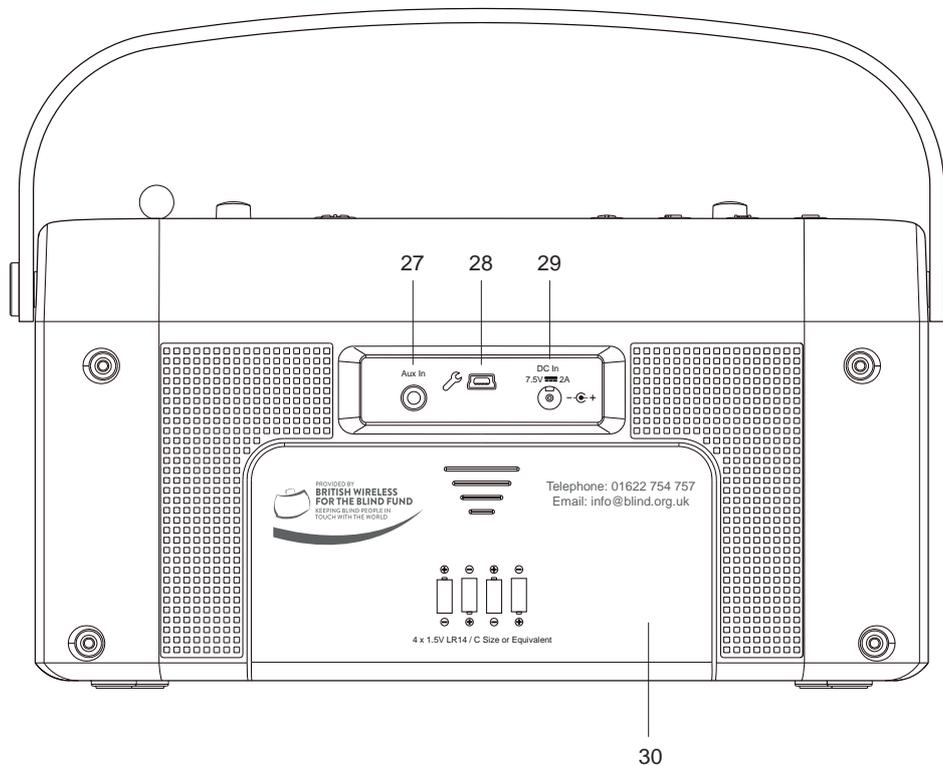
1. Tuner (DAB / FM) button
2. USB button
3. Bluetooth button
4. Auxiliary button
5. USB Playback socket
6. On / Off button
7. Telescopic aerial
8. Tuning tone control
9. Headphone socket

10. Tuning / Album Up button
11. Select / Info button
12. Loudspeakers x 2
13. Tuning / Album Down button
14. Time Set / Repeat / Intro button
15. Preset buttons 1-5
16. Zoom button
17. Volume control
18. Internal microphone

19. Microphone socket
20. Tone control
21. Stop button
22. Previous button
23. Next button
24. Play / Pause button
25. Record button
26. LCD display



## Controls (Rear)



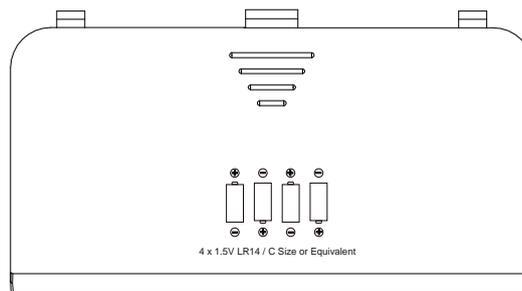
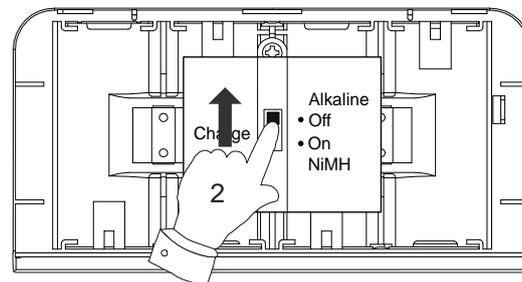
- 27. Auxiliary Input socket
- 28. USB socket (for service use only)
- 29. DC Input socket
- 30. Battery compartment ([see pages 4 and 5](#))



## Battery operation using alkaline batteries

(also see page 28)

1. Remove the battery cover on the back of the unit by sliding the cover towards the base of the radio.
  2. Slide the switch inside the battery compartment to the **Alkaline** position (up). The switch is deliberately recessed to prevent accidental operation.
  3. Insert four LR14 (C size) alkaline batteries into the spaces in the compartment. Take care to ensure all batteries are inserted with the correct polarity as shown on the battery compartment cover. Then replace the battery cover.
  - **Important: when using alkaline batteries the battery switch must be placed in the alkaline position (up). Failure to do so could result in serious damage to the batteries or radio.**
4. The low battery indicator  showing on the display, reduced power, distortion and a 'stuttering' sound are all signs that the batteries may need replacing. When the batteries have full charge the full battery indicator  will be shown on the display.
  - 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 Opus is used via the AC adaptor whenever possible with battery operation for occasional or stand-by use only. If extended listening using batteries is anticipated, then the use of [rechargeable batteries is recommended, see page 5.](#)*



**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.

**Caution:** Replace batteries only with the same or equivalent type. Danger of explosion if the batteries are incorrectly replaced.



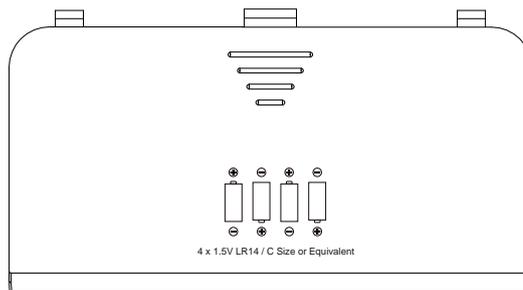
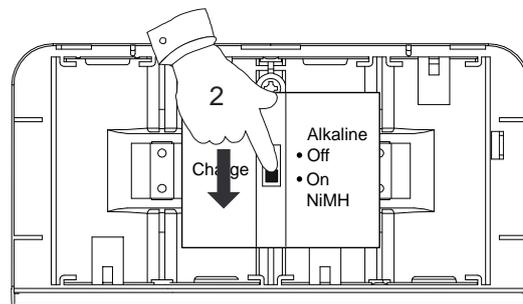
## Battery operation using rechargeable batteries

[\(also see page 28\)](#)

1. Remove the battery cover on the back of the unit by sliding the cover towards the base of the radio.
2. Slide the switch inside the battery compartment to the **NiMH** position (down). The switch is deliberately recessed to prevent accidental operation.
3. Insert four identical Rechargeable LR14 (C size) batteries into the spaces in the compartment. Take care to ensure all batteries are inserted with the correct polarity as shown on the battery compartment cover. Then replace the cover. The radio is designed to be used with Nickel Metal Hydride (NiMH) rechargeable batteries.
4. Plug the mains adaptor into your radio and then plug the adaptor into the mains.
5. The battery indicator  will appear on the display. Part of the indicator will flash to show that the batteries are charging. Batteries will be fully charged in 6 - 10 hours. The battery indicator will show full and stop flashing when the battery charging is complete.

**Note:** You should never attempt deliberately to recharge alkaline batteries in the radio. Attempted recharging of alkaline batteries can be dangerous.

- **Important: when using rechargeable batteries the battery switch must be placed in the NiMH position (down).**
- When the batteries are exhausted, the low battery indicator  will show on the screen for a short while. The radio will then switch itself off. It may not be possible to switch the radio back on until the batteries are recharged, or until the radio is connected to the mains adaptor.



- 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.

**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.

For further details on the use of rechargeable batteries [please see page 28.](#)



## Using the radio for the first time

1. Place your radio on a flat surface.
2. Carefully extend the telescopic aerial. The aerial should be fully extended and positioned vertically for optimum reception.
3. Plug the mains adaptor into the DC input socket located on the rear of your radio (marked 'DC In') ensuring that the plug is pushed fully into the socket.
4. Plug the other end of the mains adaptor into a standard mains socket outlet and switch on the wall socket.
5. The display on the radio will briefly show a start up screen. During this time the radio is scanning to find a DAB radio signal. After a short time the current time and date will appear on the display.
6. If no signal is found, it may be necessary to relocate your radio to a position giving better reception. You should then carry out a scan to find stations, [see 'Finding new stations' on page 8.](#)

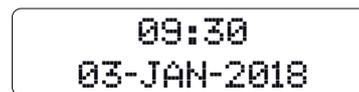
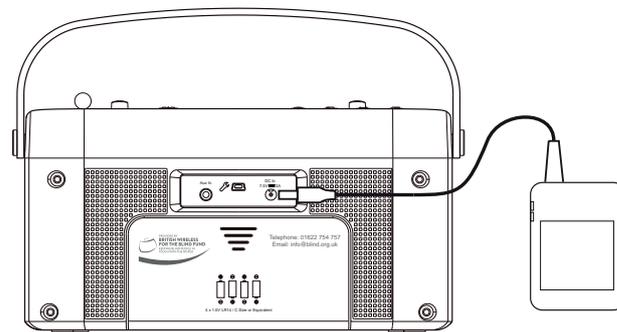
*The AC adaptor should be disconnected from the mains supply and from the radio when not in use.*

**IMPORTANT:** The mains adaptor is used as the means of connecting the product to the mains supply. The mains socket and any multi-way mains block used for the product must remain accessible during normal use. In order to disconnect the product from the mains, the mains adaptor should be removed from the mains socket completely.

Use only the mains adaptor provided with the product, or a genuine replacement provided by Roberts Radio. The use of alternative adaptors will invalidate the guarantee.



ATL model: NDBL25DF-075200 / ATL model: NDCL25DF- 075200  
Input: 230V - 50Hz / Input 230V - 50/60Hz  
Output: 7.5V DC 2A



## Using the buttons

**Note:** In this booklet press always means press and release. If it is required to give a long press on a button this is described as **apply a long press** and the button should be held down for 2 to 3 seconds until the radio has responded.



## Operating your radio - DAB

1. Press the **On/Off** button to switch on your radio. The radio will beep to confirm that it is now switched on.
2. When first switched on, the radio will be in DAB mode. After each use the radio will remember the mode used and then switch on in that mode the next time it is used. If the radio has been used before, the last used station will be selected.

The radio should briefly display 'DAB radio'. If the radio displays 'FM radio' or any other mode then press the **Tuner** button to select DAB mode.

3. If this is the first time the radio has been used a scan of the Band III DAB channels will be carried out (depending on whether scanning was already completed in standby mode). During the scanning process the display will show the progress of the station search. The number on the display is the number of stations that have been found.
4. When the scan is completed the first station (in numeric-alpha order 0...9...A...Z) will be selected. The display will show the station name.
5. If no signals are found then it may be necessary to relocate your radio to a position giving better reception. You should then carry out a scan to find new stations as described [on page 8](#).

On/Off



Tuner



Welcome

DAB radio

Scanning 28



Absolute Rad 90s  
The Uk's only 90



## Selecting a station - DAB

1. Press the **On/Off** button to switch on your radio. The radio will beep to confirm that it is now switched on.
2. If DAB mode was used last then the radio should briefly display 'DAB radio'. If the radio is not in DAB mode then press the **Tuner** button to select DAB mode.
3. Press the **Tuning Up** or **Down** buttons to step through the list of available stations.
4. Press **Select** to select and tune to the desired station.
5. Adjust the **Volume** and **Tone** controls as needed.

**Note:** If after selecting a station the station does not tune, it may be necessary to relocate your radio to a position giving better reception.

## Secondary services - DAB

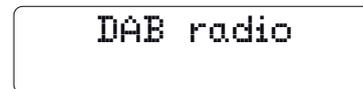
Some radio stations may have one or more additional broadcasts associated with them. If these are available, they will appear immediately after the main station as you press the **Tuning Up** button. To tune to the selected service, press **Select**.

## Finding new stations - DAB

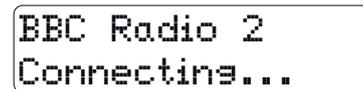
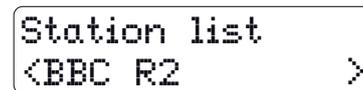
As time passes new stations may become available or you may have moved your radio to a different part of the country. In this case you may need to cause your radio to scan for new stations.

1. Press **On/Off** to switch on the radio.
2. Repeatedly, press the **Tuner** button until the 'DAB' mode is selected.
3. **Apply a long press** on the **Tuning Up** or **Down** buttons until 'Scanning' shows on the display. If the tuning tone volume is not set to minimum a double beep will indicate the start of scanning.
4. Your radio will perform a scan of the Band III DAB channels. As new radio stations are found the station counter on the display will increase and a list of the radio stations found will be stored in the radio.

On/Off



Tuner



Tuning / Album



Select



Info.



## Operating your radio - FM

- Carefully extend the telescopic aerial.
- Press the **On/Off** button to switch on your radio. The radio will beep to confirm that it is now switched on.
- If FM mode was used last then the radio should briefly display 'FM radio'. If the radio is not in FM mode then press the **Tuner** button as needed to select FM mode.
- Apply a long press** on the **Tuning Up** button to commence scan tuning. The tuning tone will increase in pitch. The displayed frequency will increase. Your radio will scan in an upwards direction (low frequency to high frequency) and stop automatically when it finds a station of sufficient strength.
- The display will show the frequency of the signal which has been found. If RDS information is available, after a few seconds the display will show the radio station name. If you only hear hiss or interference, simply **apply a long press** on the **Tuning Up** button to scan further.
- To scan down in frequency, **apply a long press** on the **Tuning Down** button. The tone will decrease in pitch. Your radio will scan the FM band in a downwards direction (high frequency to low frequency) and will stop automatically when it finds a station of sufficient strength.
- The tuning tone volume can be adjusted using the **Tuning Tone** control.
- When the waveband end is reached your radio will recommence tuning from the opposite waveband end.
- Adjust the **Volume** and **Tone** control. To switch off your radio press **On/Off**.

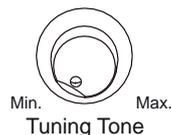
Tuner



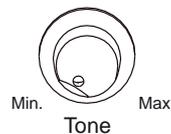
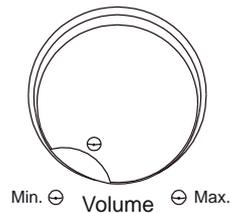
FM radio



87.50MHz St FM  
Scanning



BBC R2 St  
09:30 03-01-2018

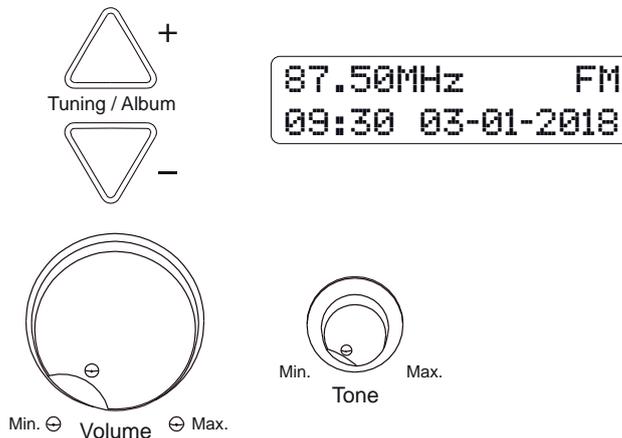


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## Manual tuning - FM

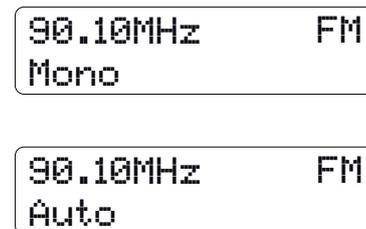
1. Repeatedly, press the **Tuning Up** or **Down** buttons to tune to a station.
2. The frequency will change in steps of 50kHz.
3. Adjust the **Volume** and **Tone** control.



## Stereo / Mono switching - FM

Your radio will play stereo FM broadcasts in stereo provided that the received signal is of adequate strength. However, as a stereo signal becomes weaker the audio signal will become poorer. It may be preferable to force the radio to play the station in mono in order to reduce the level of background hiss.

1. Ensure your radio is in FM mode and tune to the required FM station.
2. To reduce the hiss, **apply a long press** on the **Select/Info** button to switch your Opus radio to mono mode. 'Mono' will show on the display.
3. To return to stereo mode, **apply a long press** on the **Select/Info** button to switch your Opus radio to stereo mode. 'Auto' will show on the display.



## Display options - DAB / FM / Bluetooth / USB

Your radio has a range of display options when in DAB, FM, Bluetooth and USB modes:-

1. Press the **Select/Info** button to cycle through the various options.

### DAB display options

Your radio can display the following in DAB mode:-

Station name, scrolling text, signal strength, preset number, time and date.

For the signal strength for the currently tuned DAB station. The open block in the signal strength graph shows 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.

### FM display options

In FM mode your radio can use the Radio Data System (RDS) to display the radio station name and additional text when provided by the broadcaster and where the radio signal is sufficiently clear.

Your radio can display the following in FM mode:-

Frequency, station name, scrolling text, signal strength, preset number, time and date.

### Bluetooth display options

If your connected device is able to provide information from the track being played, your radio can display the following in Bluetooth mode:-

Title, Album, Artist, connected device name, time and date details.

### USB display options

Your radio can display the following in USB Music Player mode:-

Title, Artist, Album, Folder, File name. Each display also shows the elapsed time for the current track, except for Folder which also shows the current time and date.

Select



Info.

Scrolling text (DAB and FM)

BBC Radio 2  
Home of the beat

Signal strength (DAB and FM)

BBC Radio 2  
■■■■■□■■■■■■■■■■

Time and date (DAB, FM & Bluetooth)

87.50MHz FM  
09:30 03-01-2018

Artist (Bluetooth)

ARTIST: Edgar Fr  
09:30 03-01-2018

Title (USB)

TITLE: The Masic  
▶ 00:00:22



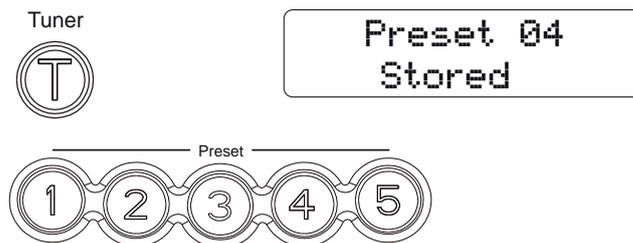
## Presetting stations in DAB and FM modes

You may store your preferred DAB and FM radio stations to the preset station memories. There are 10 memory presets in your radio, 5 for DAB and 5 for FM. Presets are remembered by your radio in the event of a power failure.

The procedure for setting presets and using them to tune stations is the same for FM and DAB modes and is described below.

### Storing a preset using the preset buttons 1 - 5

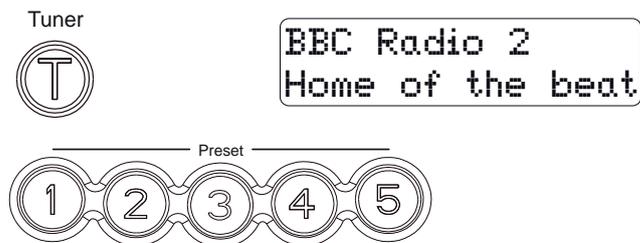
1. Press **On/Off** to switch on your radio.
2. Select either the DAB or FM mode using the **Tuner** button.
3. Tune to the required DAB or FM radio station as previously described.
4. To store the currently playing radio station as a preset, **apply a very long press** (more than 8 seconds) on the required **Preset** button (1-5) until a beep is heard. The station will be stored using the chosen preset button. Repeat this procedure as needed for the remaining presets.
5. Stations that are already stored in the presets may be over-written by following the procedure described above.



**Note:** The radio station presets are retained in memory when the radio is switched off and disconnected from the mains supply.

### Recalling a preset using the preset buttons 1 - 5

1. Press **On/Off** to switch on your radio.
2. Select either the DAB or FM mode using the **Tuner** button.
3. Momentarily press the required **Preset** button (1-5). Your radio will then tune to the station stored in the selected preset memory.  
The display will show 'Preset Empty' if no station has been stored to that preset.



## Bluetooth mode

The Bluetooth mode on your radio allows you to play audio, play sound from video files and stream music from Bluetooth capable devices such as your mobile phone, computer, tablet etc. through your radio's loudspeakers.

- When a Bluetooth enabled device such as your Opus Radio is in a 'discoverable' state other Bluetooth devices can detect, pair with or connect to it.
- 'Bluetooth pairing' occurs when two Bluetooth enabled devices agree to establish a connection and communicate with each other.

## Connecting Bluetooth devices

1. Ensure that the Bluetooth capability on your phone, tablet or PC is enabled. You may need to refer to the user documentation for your device, since the method will vary with each device.
2. Press the **On/Off** button to switch on your radio. The radio will beep to confirm that it is now switched on.
3. Press the **Bluetooth** button on your radio to select the Bluetooth mode. Your radio will show that it is '*discoverable*' and '*Pairing*' will show on the display. If the radio is already connected to another device to cause the radio to become '*discoverable*', **apply a long press** on the **Select/Info** button. Your Opus will become discoverable by other devices and '*Not connected*' will show on the display.
4. Using the Bluetooth settings of your phone, tablet or PC direct it to search for '*discoverable*' devices. After a few seconds, you should see a device named '*Opus*'. Just occasionally it may take longer for the radio to be found by your device.
5. Select '*Opus*' to cause your phone, tablet or PC to pair with your radio and to establish a connection.
6. Once the connection is established '*Connected*' will show on the display. You can now begin playing music from your smart-phone, tablet, etc.

Some Bluetooth devices may require a 'Passkey' (an authentication key) in order to establish a link between devices. A passkey is similar to a password, although you only need to use the passkey once to establish a link. If your device asks for a passkey to be able to pair with your radio then enter a code of 0000 (four zeroes).

On/Off



Bluetooth



Select



Info.

Bluetooth

Pairing

09:30 03-01-2018

Connected

09:30 03-01-2018

Julia's iPod tou

09:30 03-01-2018



## Playing audio files in Bluetooth mode

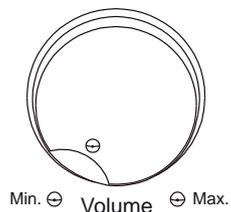
When you have successfully connected your radio with your chosen Bluetooth device you can start to play your music using the controls on the device.

1. Once playing has started adjust the volume to the required setting using the **Volume** control on your radio or the connected Bluetooth device.
2. The volume of your radio in Bluetooth mode is affected by the volume settings on the radio and also on the connected Bluetooth device.

If you adjust the volume control on the radio but you find that the volume from the radio is not sufficient, it may be that the volume setting of the connected device needs to be increased.

3. The audio player in your phone, tablet or PC may be able to respond to the **Play/Pause**, **Next** track or **Previous** track buttons on the radio.

**Note:** Not all player applications or devices may respond to all of these buttons.



Julia's iPod tou  
09:30 03-01-2018

ARTIST: Edsør Fr  
09:30 03-01-2018

## Connecting and reconnecting a Bluetooth device

You can only have one Bluetooth device connected to the radio at any one time although it may be paired with several devices. Once you have a Bluetooth enabled device connected to your radio it cannot be interrupted by another Bluetooth device unless you choose to break the connection.

1. To connect to a different device, **apply a long press** on the **Select/Info** button. 'Not connected' will show on the display.
2. Your Opus radio will become discoverable by other devices.
3. You can now pair the radio with a new device using its Bluetooth settings the radio will be listed as 'Opus'. When the new Bluetooth connection has been established 'Connected' will show on the display. You may then play music from the new device through the radio.
4. If you no longer want your Bluetooth device to be paired with your radio you will need to delete the 'Opus' pairing on the device. Please refer to the device's Bluetooth documentation.



Not connected  
09:30 03-01-2018

Connected  
09:30 03-01-2018

Julia's iPhone  
09:30 03-01-2018



## Bluetooth information

Bluetooth connectivity performance may vary depending on the connected Bluetooth devices. Please refer to the Bluetooth capabilities of your device before connecting to your radio. All features may not be supported on some paired Bluetooth devices.

A Bluetooth connection can provide a link for audio up to a distance of approximately ten metres. When pairing two Bluetooth enabled devices, for convenience, we recommend they should be no more than 2 to 3 metres apart. The presence of other functioning Bluetooth devices during connection may lead to operational difficulties.

Bluetooth is a short-range radio communication system and generally Bluetooth devices can communicate with each other clearly within a regular sized room or office. The reliability of a Bluetooth connection between different rooms will greatly depend upon the construction of the building.

Bluetooth communication range may be substantially reduced if the signal passes through a solid object. Human bodies, brick and concrete walls, heavy furniture or bookcases will all reduce the operational range of your Bluetooth devices to a greater or lesser extent. Glass, dry-wall or wood paneled walls and office partitions may have a less severe but noticeable effect. Metal pipes, foil-lined plasterboard, metal window frames and domestic wiring can also have an effect. You should position your Bluetooth devices closer to each other if you observe communication difficulties.

WiFi networks and cordless phones generally use similar radio frequencies to Bluetooth and may interfere with one another. If any interference is noticed, then try relocating the radio or one of the other devices.

The Bluetooth capabilities of your radio enable it to receive audio from many Bluetooth capable devices including mobile phones, personal computers and tablets. Only one Bluetooth device can be connected to your radio at a time. It supports the following Bluetooth profiles and functionality.

- Your radio supports A2DP (Advanced Audio Distribution Profile) which is a stereo audio connection that streams stereo music from PCs, mobile phones etc. SBC and AAC audio codecs are supported.
- Your radio supports AVRCP (Audio Video Remote Control Profile) which allows your radio to control music playback from the connected device.

**Note:** Some mobile phones may temporarily disconnect from your radio when you make or receive calls. Some devices may temporarily mute their Bluetooth audio streaming when they receive text messages, emails or for other reasons unrelated to audio streaming. Such behaviour is a function of the connected device and does not indicate a fault with your radio.

If your connected device is able to provide information from the track being played you may press the **Select/Info** button on the radio to display the Title, Artist and Album details, [please see page 11](#).

**Note:** If the unit is in the Bluetooth mode and it is not connected to a Bluetooth device for more than 15 minutes it will automatically switch to the standby mode. If powered from batteries the radio will then switch off completely. To use the radio again, simply press the On/Off button to switch it on.



## Using USB memory devices

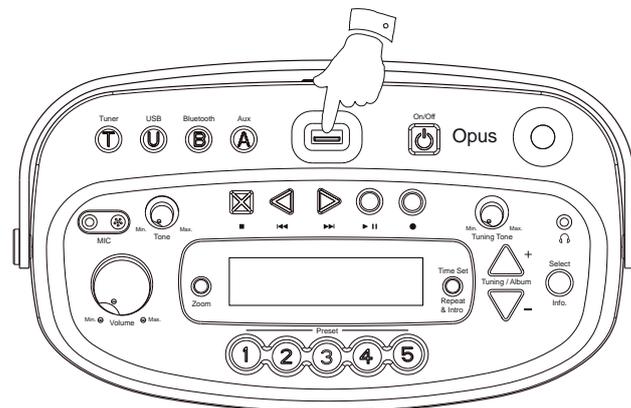
This section describes how to use your radio to access and playback your audio files via USB memory devices. USB memory devices plug into the rectangular slot on the top of the radio.

The Opus radio has been tested with a range of USB memory devices of up to 128GB capacity. USB memory must use the FAT or FAT 32 filing system in order to operate with your radio. Your radio is unable to play from media formatted using the exFAT or NTFS formats. Your radio is only designed to work with USB flash memory devices. It is not intended to be connected to hard disk drives or any other type of USB device.

It is possible to use SD, SDHC or SDXC cards for media storage and playback when held in a suitable USB adaptor. However, due to the wide variation of such adaptors, it is not possible to guarantee that all adaptor / card combinations will work in the radio.

Audio formats supported are AAC, FLAC, MP3, WMA, Ogg Vorbis and WAV.

USB playback does not support files encoded using WMA Lossless, WMA Voice, WMA 10 Professional, nor files of any format which have DRM protection.



### Recommendations:

Unless you have only a few files on the USB memory device, do not place all files in the root folder.

The number of items (files / sub-folders) in any folder should be less than 2000.

Searching and playback will be more responsive if the number of files in any one folder is limited (we suggest not more than 250).

It is recommended that the USB memory is reformatted in your computer before adding your music files.

The maximum depth of folder nesting permitted is 8 folder levels.

### Cautions:

In order to minimise the risk of damage to your radio or your USB memory, please place the unit so that the memory device cannot easily be knocked while it is inserted in the socket.

Remove the USB memory before carrying the unit or if not using the USB feature for a prolonged period.

Place the unit in Standby mode before removing your USB memory device.

The USB connection is intended only for flash memory devices. The use of hard disk storage media is not supported.

Playback via USB of files stored on MP3 players is not guaranteed.



## Playing files from USB memory devices

1. Carefully insert the USB memory device into the USB socket on the top of the radio. To remove the USB memory device, gently pull the device out when the radio is in standby.
2. Press the **On/Off** button to switch on your radio. The radio will beep to confirm that it is now switched on.
3. Press the **USB** button to select the USB mode.
4. The display will show 'USB Reading...'. The radio will now list the content stored on the USB memory device. If there are many files or folders this may take a few seconds.
5. The number of files and folders will be displayed.

Files are played in the order in which they exist in the filing system of the USB memory (they are not sorted by file name or track number).

**Note:** The USB memory device should not be removed during playback or recording as damage or corruption of files may occur.

**Note:** If the unit is in USB mode but stopped for more than 15 minutes then it will automatically enter standby. If powered from batteries the radio will then switch off completely. To use the radio again, simply press the On/Off button to switch it on.

On/Off



USB



USB

USB Reading...

FILE 177  
FOLDER 012



## Controlling playback

1. Press **Play/Pause** to start playback. The display will show the current file information on the upper line and the elapsed play time on the lower line.
2. To pause playback press the **Play/Pause** button. To resume playback, press the **Play/Pause** button again.
3. While the USB device is playing or in stop mode press either the **Next** or **Previous** buttons to change to the desired file. The file number will be updated in the display. If there is more than one folder when all files in the current folder have been played the next folder will be played.
4. To search a file **apply a long press** on the **Next** or **Previous** buttons and release the buttons when the desired part of the current file is reached.

## USB Bookmark

The USB Bookmark feature on your Opus radio allows you to stop the playback of the USB and then to continue playback from the same point at a later time. Even if you change the mode or put the unit into standby the next USB operation will start from the point where playback was previously stopped. **Note:** If the mains power is removed and restored the Bookmark setting will be cancelled and the USB will then play from the beginning.

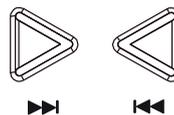
1. To stop playback, press the **Stop** button once. The current file number and 'Resume' will show on the display. You can then select an alternative mode. When you return to USB playback mode, press **Play/Pause** to resume playback from the point that the USB was stopped.
2. If you wish to cancel the Bookmark function press the **Stop** button a second time when the radio is in USB mode.

## To skip to another folder

1. Whether the USB memory device is playing or in stop mode, press the **Tuning/Album Up** or **Down** buttons to skip to the next or previous folder. Press **Play/Pause** button if required. The first file of the next or previous folders on the USB memory will be played.



TITLE: The Music  
▶ 00:00:22



TITLE: The Music  
|| 00:00:22



TITLE: The Music  
▶▶ 00:00:48



FILE 002  
Resume



FILE 035  
FOLDER 004



## USB Repeat function

Your Opus radio has several repeat options when using the USB mode.

1. Whilst the USB is playing, press the **Repeat/Intro** button. The radio will step through the following repeat options.

-  - Repeat the current file
-  - Repeat the current folder
-  - Repeat all files and folders

2. Press the **Repeat/Intro** button again to cancel the repeat function.

## USB Intro function

Your Opus radio has an Intro function when using the USB mode. You may choose to listen to the first 10 seconds of each file to help you find the file that you wish to play.

1. Press the **Stop** button as needed so that the display shows the number of Files and Folders on the USB memory device.
2. Press the **Repeat/Intro** button to play the first 10 seconds of each of the tracks on the USB memory device. 'Int' will show on the display.
3. When the radio plays the required file, press the **Intro** button or the **Play/Pause** button once. This will cancel the Intro function. The radio will then play the rest of the current file and then the remaining files on the USB memory.

## USB playback information

If the file contains Title, Album or Artist information you may press the **Select/Info** button on the radio, [please see page 11](#).

Time Set



Repeat  
& Intro

TITLE: The Magic  
▶ 00:00:22 

TITLE: The Magic  
▶ 00:00:22 

TITLE: The Magic  
▶ 00:00:22 



Time Set



Repeat  
& Intro

FILE 177  
FOLDER 012

TITLE: The Magic  
▶ 00:00:09 Int

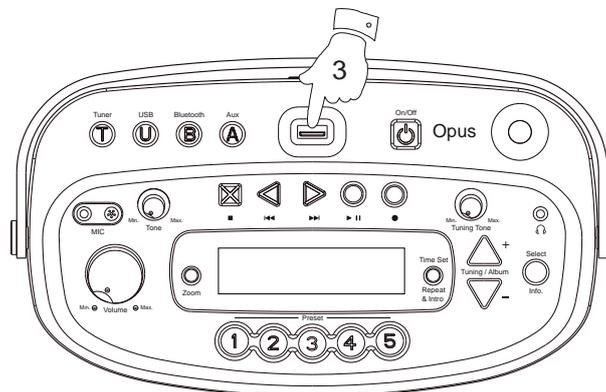


## Recording to USB memory device

Your Opus radio has been designed to allow you to make recordings to USB memory devices. Recordings are made in MP3 format at 320k bits per second.

USB memory media must use the FAT or FAT32 file system in order to operate with the Opus radio. Such media is usually supplied already formatted or can be formatted using a PC with a suitable USB connection.

It is also possible to record onto media which already contains files written by the radio or your computer. The recorded files will be added to those already present on the media.



## Make a recording

1. Select the desired source for the recording (DAB, FM, [Bluetooth](#), [Auxiliary in \(also see page 22\)](#), [internal MIC](#) or [external MIC \(also see page 23\)](#). DAB radio is shown in the illustration.
2. Set the volume to the required listening level (the volume of the recording will not be affected by this).
3. Carefully insert the USB memory device on to which the recording is to be made into the USB socket on the top of the radio.
4. **Apply a long press** on the **Record** button. The display will show 'Record init...' and a double beep will be heard. Recording will start after a few seconds and a second double beep will be heard. While recording is in progress the recording source and elapsed record time will show on the display.
5. To stop the recording press the **Record** button or the **Stop** button. Recording will stop, a long beep will be heard and the recorded file will have been written to the USB memory device.



## Make a recording cont.

Files that have been written to the USB memory device are held in a folder called 'REC'. Recordings are given filenames according to the source used for the recording. The files are named as listed below. Two digits are added to the filename to allow recordings to be numbered from 00 to 99 for each recorded source. The illustration to the right shows the folders as they may appear on a PC running Windows with files in the REC folder.

AUXnn - for recordings from the Auxiliary input

BT\_nn - for recordings from Bluetooth devices

DABnn - for recordings from DAB radio

FM\_nn - for recordings from FM radio

MEXnn - for recordings from external microphone

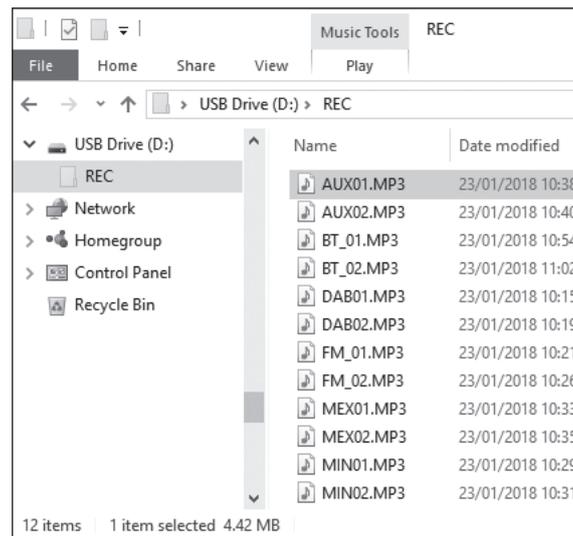
MINnn - for recordings from internal microphone

The filenames are created automatically by the radio when recording. In the event that the filename matches a file already on the USB memory device, then the new file will be named RECnn.mp3 instead to prevent overwriting the existing file.

**Note:** The USB memory device should only be removed when recording is stopped. Removing media while recording is in progress may corrupt data on the USB device leading to the loss of files previously written.

The USB connection is intended to be used to allow the Opus radio to play files from solid-state flash memory devices. The USB connection is not intended to be connected to other USB devices such as computers or hard disk drives.

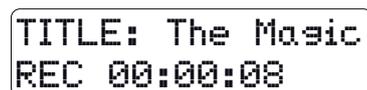
If you wish to make recordings from radio, we recommend recording from DAB radio if possible since it is generally less susceptible to interference than FM radio. If you need to record from FM radio, some interference may be picked up from the memory device unless you have a strong signal.



## Recording from Bluetooth

1. Press **On/Off** to switch on your radio.
2. Press the **Bluetooth** button.
3. Using the Bluetooth settings of your phone, tablet or PC search and connect to your Opus radio. [Also see 'Connecting Bluetooth devices' page 13.](#)
4. Insert a USB memory device into the USB socket on the top of your radio.
5. Adjust the volume control to your required listening level (the volume of the recording will not be affected by this).
6. Press the **Play/Pause** button on the radio or choose to start Bluetooth audio streaming from your device.
7. **Apply a long press** on the **Record** button to start recording from Bluetooth onto the USB memory device. Two double beeps will be heard before recording starts.
8. To stop the recording press the **Record** button or the **Stop** button. Recording will stop, a long beep will be heard and the recorded file will have been written to the USB memory device.

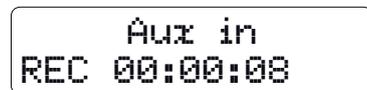
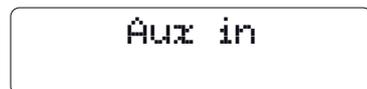
Bluetooth



## Recording from the Auxiliary input

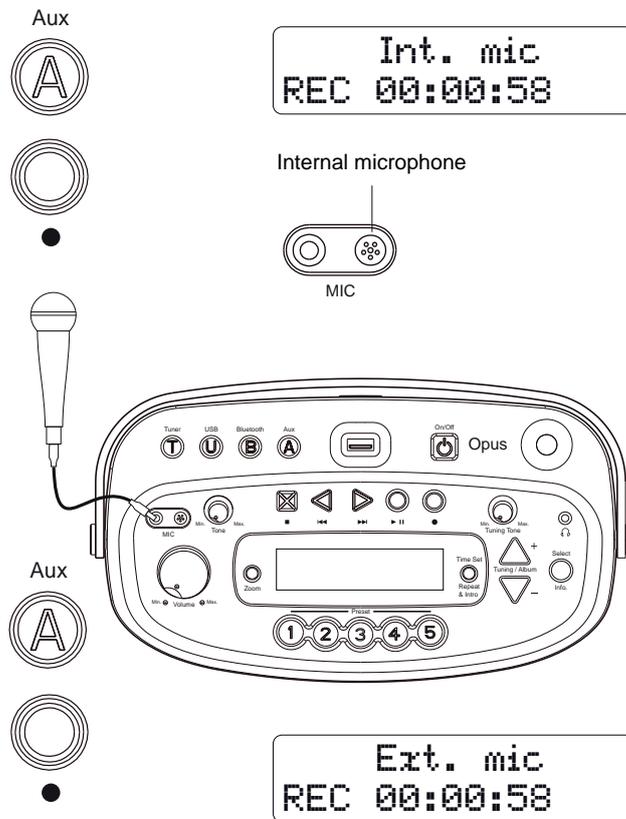
1. Press **On/Off** to switch on your radio.
2. Ensure that nothing is plugged in to the microphone socket.
3. Connect a stereo or mono audio source (e.g. CD player, MP3 player, etc.) to the Auxiliary input socket. [Also see 'Auxiliary input socket' page 25.](#)
4. Press the **Aux** button to enter the Auxiliary in mode.
5. Insert a USB memory device into the USB socket on the top of your radio.
6. Adjust the volume control to your required listening level (the volume of the recording will not be affected by this).
7. **Apply a long press** on the **Record** button to start recording from the Auxiliary input onto the USB memory device. Two double beeps will be heard before recording starts.
8. To stop the recording press the **Record** button or the **Stop** button. Recording will stop, a long beep will be heard and the recorded file will have been written to the USB memory device.

Aux



## Recording from the internal microphone

1. Press **On/Off** to switch on your radio.
2. Ensure that nothing is plugged in to the auxiliary input socket.
3. Press the **Aux** button to enter the Auxiliary in mode.
4. Insert a USB memory device into the USB socket on the top of your radio.
5. **Apply a long press** on the **Record** button to start recording from the internal microphone onto the USB memory device. Two double beeps will be heard before recording starts.
6. To stop the recording press the **Record** button or the **Stop** button. Recording will stop, a long beep will be heard and the recorded file will have been written to the USB memory device.



## Recording from an external microphone (not included)

The recording level is set automatically and is not affected by setting the volume control.

1. Press **On/Off** to switch on your radio.
2. Ensure that nothing is plugged in to the auxiliary input socket.
3. Press the **Aux** button to enter the Auxiliary in mode.
4. Insert a USB memory device into the USB socket on the top of your radio.
5. Plug the external microphone into the **Microphone** socket just above the volume control. The internal microphone will be automatically disconnected.
6. Adjust the **volume** to your required listening level (the volume of the recording will not be affected by this).
7. **Apply a long press** on the **Record** button to start recording from the external microphone onto the USB memory device. Two double beeps will be heard before recording starts.
8. To stop the recording press the **Record** button or the **Stop** button. Recording will stop, a long beep will be heard and the recorded file will have been written to the USB memory device.



## Display backlight

When your radio is powered by the AC mains using the supplied mains adaptor the display backlight will always be on.

When using the radio powered from the batteries, the display backlight will be switched on for approximately 8 seconds when any button is pressed.

## Zoom function

Your Opus radio has a zoom button which can be used to enlarge the size of the fonts on the display.

1. Press the **Zoom** button to enlarge the upper line of the display.
2. Press the **Zoom** button again to enlarge the lower line of the display.
3. Press the **Zoom** button once more to return to the normal display.



Zoom

BBC Radio 2  
Home of the beat

Home of the beat

## Setting the clock

Normally your radio will set its clock automatically using the DAB radio signal. If no DAB signal is available and you need to set the time manually please follow the procedure shown below.

1. Press **On/Off** if needed to switch your radio into standby.
2. **Apply a long press** on the **Time Set** button until the hour digits flash on the display.
3. Press the **Tuning Up** or **Down** buttons to set the desired hour.
4. Press the **Time Set** button to confirm the hour setting. The minute digits will flash.
5. Use the **Tuning Up**, **Tuning Down** and **Time Set** buttons to set the minute, day, month and year as needed.

Time Set

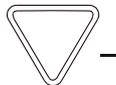


Repeat  
& Intro



+

Tuning / Album



-

~~09:30~~  
03-JAN-2018



## Headphone socket

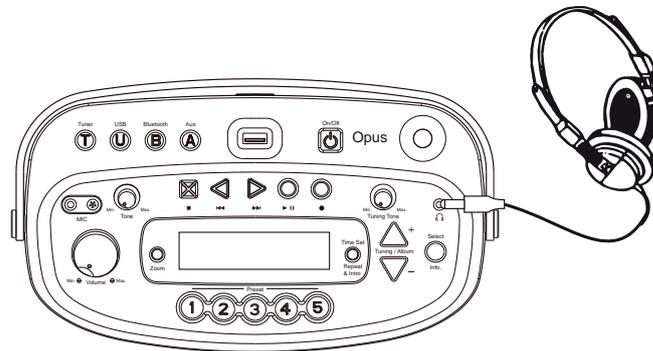
A 3.5mm **Headphone Socket** located on the top of your radio just above the Select/Info button is provided for use with either headphones or an earpiece. Inserting a plug automatically mutes the internal loudspeakers.

Please be aware that the sensitivity of headphones can vary widely. We therefore recommend setting the volume to a low level before connecting headphones to the radio.

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



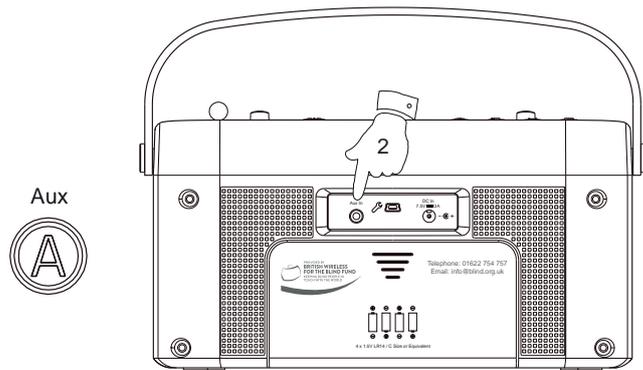
To prevent possible hearing damage, do not listen at high volume levels for long periods.



## Auxiliary input socket

1. Ensure that nothing is plugged in to the microphone socket.
2. Connect a stereo or mono audio source (e.g. CD player, MP3 player, etc.) to the **Auxiliary input** socket located on the back of the radio.
3. Press the **On/Off** button to switch on your radio. The radio will beep to confirm that it is now switched on.
4. Press the **Auxiliary** button. The display will show 'Aux in'.
5. Adjust the **Volume** control on your player and on the radio for comfortable listening.
6. Remove the cable from the **Auxiliary input** socket and change mode to cancel the Auxiliary Input.

**Note:** If the radio is in Auxiliary input mode with no input signal being applied for more than 15 minutes then it will automatically switch to the standby mode. If powered from batteries the radio will then switch off completely. To use the radio again, simply press the On/Off button to switch it on.



## 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. Press the **On/Off** button to switch on your radio. The radio will beep to confirm that it is now switched on.
2. Press the **Tuner** button to select either the DAB or FM mode.
3. **Apply a long press** on the **Time/Set** button (approx. 8 seconds) until 'Restarting...' shows on the display.
4. A full reset will be performed. The station list and presets will be erased. Settings will be set to their default values. After a few seconds a station scan search will be performed automatically. The radio will then restart as when first plugged in ([see also page 6](#)).

## Electro-magnetic compatibility advice

In the event of a malfunction due to electrostatic discharge, mains power supply transients or short interruptions, reset the product as above to resume normal operation. If you are not able to perform the reset operation as above, removal and reconnection of the power supply and batteries may be required.

If the product is used in an environment with any ESD Immunity / Radiated Immunity / Conducted Immunity disturbance, the product may malfunction. It will automatically recover to normal when the ESD Immunity / Radiated Immunity / Conducted Immunity disturbance is stopped.

On/Off



Tuner



Time Set



Repeat  
& Intro

Restarting...

## Product markings

	<p><b>DC Voltage</b> Power input 7.5V / 2A USB output 5V / 180mA</p>
	<p><b>Recycling</b> This product bears the selective sorting symbol for Waste Electrical and Electronic Equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment.</p>
	<p>The user has the choice to give the product to a competent recycling organization or to the retailer when buying a new electrical or electronic equipment.</p>



## Safety advice

Do not allow this radio to be exposed to water, steam or sand. Do not leave your radio where excessive heat could cause damage such as in a parked car where the heat from the sun can build up even though the outside temperature may not seem too high. It is recommended that the DAB band be used wherever possible as better results in terms of quality and freedom from interference will usually be obtained than on the FM band.



The name plate is located underneath the radio.

## Specifications

### Power Requirements

Mains	AC 230 volts, 50/60Hz ~ only (adaptor) <a href="#">(Use only the supplied adaptor. see page 6)</a>
Batteries	4 x LR14 (C Size) Alkaline or NiMH rechargeable (not included)
Battery Life	Typically from 50 to 80 hours using alkaline cells depending upon volume and operating mode.

### Frequency Coverage

FM	87.5-108MHz
DAB	174.928 - 239.200MHz
Bluetooth	2.402 - 2.480GHz

- Your radio and AC/DC adaptor should not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the radio or adaptor.
- 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.
- There are no user serviceable parts inside this product.
- Do not attempt to disassemble any part of the product.
- The radio and AC/DC adaptor must be used in a moderate climate.

Headphone socket (stereo)	3.5mm dia.
Auxiliary input socket (stereo)	3.5mm dia.
Microphone socket (mono)	3.5mm dia.
Aerial System	FM / DAB telescopic aerial
Bluetooth 4.1	Power 4dBm
Bluetooth standards	A2DP, AVRCP
Bluetooth codecs supported	SBC and AAC
Operating temperature range	+5°C to +40°C

*The Company reserves the right to amend the specification without notice*



## A Few Words about Batteries...

Your Roberts Opus radio has been designed to use a choice of power sources. You may plug it into the mains using the supplied adaptor, or for listening away from the mains you may use either alkaline or rechargeable batteries. We do not recommend the use of carbon-zinc or zinc-chloride batteries.

**It is very important that you read the advice and warnings given below.**

- 1) Whichever type of batteries you choose to use, it is very important that the battery selection switch under the cover is set to the correct type.
  - a. If no batteries are fitted, then set the switch to the Alkaline position (up). This position minimises the power consumption when the radio is powered from the mains.
  - b. If Alkaline batteries are fitted, then set the switch to the Alkaline position (up).
  - c. If Rechargeable batteries are fitted, then set the switch to the NiMH position (down). Your radio is designed to use Nickel-Metal-Hydride rechargeable batteries. No other type of rechargeable battery should be used in the radio.
- 2) **NEVER** mix old and new Alkaline batteries. The old batteries may suffer damage and leak which will damage your radio and whatever the radio is standing on.
- 3) **NEVER** mix old and new Rechargeable batteries. This may result in unreliable charging and shortened battery life. Never mix Rechargeable batteries of different types or capacities even if they are new.
- 4) **NEVER** mix Alkaline and Rechargeable batteries. The recharging of Alkaline batteries can be very dangerous.

**Caution:** Replace batteries only with the same or equivalent type. Danger of explosion if the batteries are incorrectly replaced.

## Rechargeable batteries

Your Opus radio uses a range of methods to ensure correct and safe charging of Rechargeable Nickel-Metal-Hydride batteries. These work to protect your batteries from excessive charge and discharge. These protections can only work properly if the advice above is followed. In particular, the radio will not be able to correctly charge batteries if they are a mixture of different brands, or different ages, or different capacities.

We recommend that all the rechargeable batteries used in your radio are bought together as a set. They should always be charged together and discharged together and not “borrowed” from time to time for other applications. This will ensure that they give their optimum performance in your radio.

We recommend that the rechargeable batteries that you use should be from a quality brand, and should be of at least 2500mAh capacity. Batteries of this capacity should be able to power your radio for between 15 and 25 hours depending upon the volume of the radio, operating mode and also depending on the condition of the batteries.

Before you first install a new set of rechargeable batteries into your radio you should first make sure that the battery type switch beneath the battery cover is in the NiMH position (down). Install the batteries arranging them [as shown on page 5](#).

Plug the mains adaptor into a mains socket and then into the radio. The charging indicator will show on the display, [see page 5](#).

The time taken to charge the batteries will depend on how much charging they require. New batteries may be partly charged when first fitted, but it is normal for a set of batteries to take several hours to charge fully. Typically this can be between 6 and 10 hours depending on the battery capacity and their initial state of charge.



If you intend not to use your radio for some months, then we recommend that the batteries are removed and put away, keeping them in a cool place out of reach of children, away from moisture and such that no metal object can contact the battery terminals.

With care, rechargeable batteries can last a long time and can operate for many hundreds of charge and discharge cycles. When your rechargeable batteries can no longer power your radio adequately, please dispose of them thoughtfully.

### To avoid danger and risk of injury, please follow these guide lines

Improper use of batteries may result in leakage of fluid, overheating or explosion. Battery fluid is corrosive and may also be toxic. Battery fluid can cause skin burns, can damage the eyes, and can be harmful if swallowed.

1. Keep batteries out of the reach of children.
2. Do not heat, open, puncture, mutilate or dispose of batteries by burning.
3. Do not mix different battery types or old and new batteries. Always replace all the batteries at the same time.
4. Do not carry or store batteries such that metal objects may contact the end caps.
5. Remove batteries from the radio if they are worn out or if you are storing it for a long time.
6. Remove old or worn out batteries promptly, and recycle or dispose of them according to the regulations applicable to your location.
7. If a battery does leak, remove all batteries from the product, taking care to avoid directly touching the leaked fluid. If the fluid contacts skin or clothes wash with water immediately. Before inserting new batteries, thoroughly clean the battery compartment with a damp paper towel, or follow the battery manufacturer's advice for clean up.



## Audio codecs

Your radio supports a range of audio codecs which allow users to play music directly from USB flash memory devices.

The following table summarises the maximum supported bit-rates for the various audio formats that are playable on your radio. Higher rates may be playable in some cases but performance of the product may be affected.

Codec	Maximum supported data rate
AAC (LC, HE, HE V2)	320 kbits/sec
FLAC <sup>(1)</sup>	1.5 Mbits/sec
MP3	320 kbits/sec
WAV <sup>(2)</sup>	1.536 Mbits/sec
WMA <sup>(3)</sup>	320 kbits/sec
Ogg Vorbis	320 kbits/sec

All codecs support 2-channel (stereo) coded files only.

All codecs support sample rates up to 48 k samples/sec (includes 32 k and 44.1 k samples/sec).

Files which have Digital Rights Management (DRM) protection applied will not be playable on your radio.

(1) 16 bit samples only are supported in FLAC files.

(2) The maximum supported bit-rate is for 48 kHz sampling, 2 channels and 16-bits per sample.

(3) WMA Lossless, WMA Voice, WMA 10 Professional, and files which have DRM protection are not supported.



## Guarantee

This product is guaranteed for twelve months from the date of purchase by 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. Product 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 product 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 product to the company's service department for attention. In the event that it is not possible to return the product to the Roberts dealer from whom it was purchased, please contact Roberts Radio using the contact details on the [www.robertsradio.com](http://www.robertsradio.com) website.

For product repairs falling outside the guarantee period, please refer to the "customer care" tab on the [www.robertsradio.com](http://www.robertsradio.com) website.

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

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Issue 1  
2018-03-15

