

ROBERTS

Blutune T2

DAB / DAB+ / FM RDS / Bluetooth portable
digital radio with clock and alarms



DAB
Digital Audio Broadcasting

DAB+

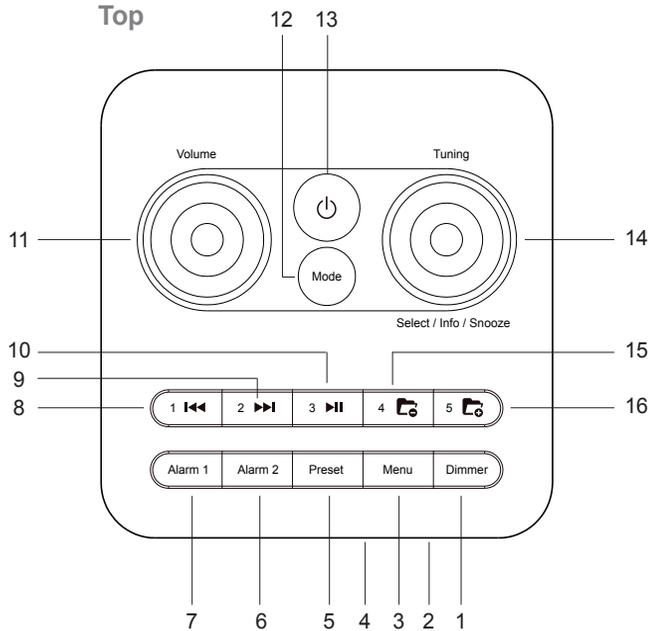
+ Digital
Radio

Please read this manual before use

Contents

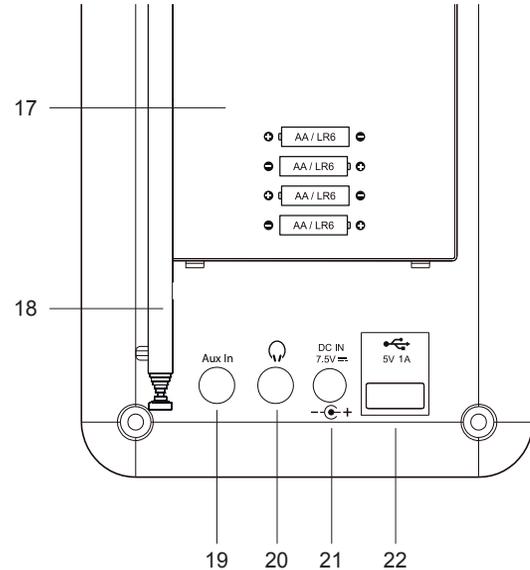
<i>Controls</i>	2	<i>Using USB memory devices</i>	19
<i>Battery operation</i>	3-4	<i>Playing files from USB memory devices</i>	20-21
<i>Navigation controls</i>	5	<i>Automatically updating the clock</i>	22
<i>Using the radio for the first time</i>	6	<i>Setting the clock format & setting the clock manually</i>	22
<i>Operating your radio - DAB</i>	7	<i>Setting the alarm clock</i>	23-24
<i>Selecting a station - DAB</i>	8	<i>Cancelling alarms</i>	24
<i>Secondary services - DAB</i>	8	<i>Snooze timer</i>	25
<i>Finding new stations - DAB</i>	8	<i>Disabling alarms</i>	25
<i>Manual tuning - DAB</i>	9	<i>Sleep timer & clock style</i>	26
<i>Dynamic range control - DAB</i>	9	<i>Software version</i>	26
<i>Station order - DAB</i>	9	<i>Display backlight dimmer</i>	27
<i>Prune stations - DAB</i>	10	<i>Language function</i>	27
<i>Operating your radio - FM</i>	10	<i>Headphone & Auxilliary input sockets</i>	28
<i>Manual tuning - FM</i>	11	<i>USB socket for smartphone or tablet charging</i>	28
<i>Scan sensitivity setting - FM</i>	11	<i>System reset</i>	29
<i>Stereo / Mono switching - FM</i>	11	<i>Electro-magnetic compatibility advice</i>	29
<i>Display options - DAB / FM / Bluetooth / USB Music Player</i>	12	<i>Product markings</i>	29
<i>Presetting stations</i>	13-14	<i>Safety advice</i>	30
<i>Connecting Bluetooth devices</i>	15	<i>Specifications</i>	30
<i>Playing audio files in Bluetooth mode</i>	16	<i>A few words about batteries</i>	31-32
<i>Connecting and reconnecting a Bluetooth device</i>	16	<i>Audio codecs</i>	33
<i>Bluetooth information</i>	17-18	<i>Guarantee</i>	34

Controls



- | | |
|-------------------------------|---|
| 1. Dimmer button | 9. Preset 2 / Next button |
| 2. LCD display | 10. Preset 3 / Play / Pause button |
| 3. Menu button | 11. Volume control |
| 4. Loudspeaker | 12. Mode button |
| 5. Preset button | 13. On / Standby / Sleep button |
| 6. Alarm 2 button | 14. Tuning / Select / Info / Snooze control |
| 7. Alarm 1 button | 15. Preset 4 / Previous Folder button |
| 8. Preset 1 / Previous button | 16. Preset 5 / Next Folder button |

Rear



- | |
|---|
| 17. Battery compartment (see pages 3-4) |
| 18. Telescopic aerial |
| 19. Auxiliary Input socket |
| 20. Headphone socket |
| 21. DC Input socket |
| 22. USB Playback / Charging socket |

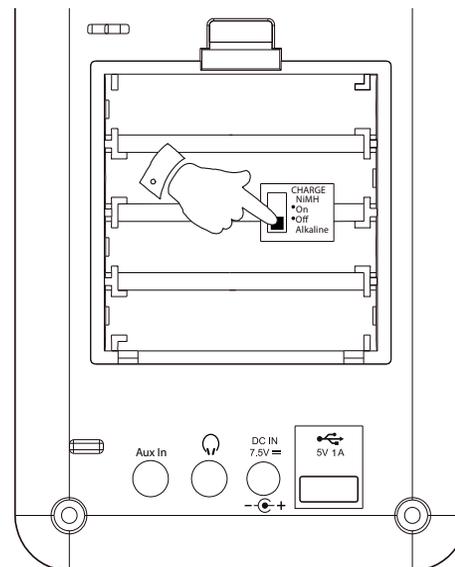
Battery operation using alkaline batteries

(also see page 31)

1. Remove the battery cover on the back of the unit by pushing the catch down and lifting the cover off.
 2. Slide the switch inside the battery compartment to the **Alkaline** position.
 3. Insert four LR6 (AAsize) 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. 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.
 5. The alarm clock function may be used when the radio is powered from batteries (see page 23).
- 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 Blutune T2 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 4.*

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.

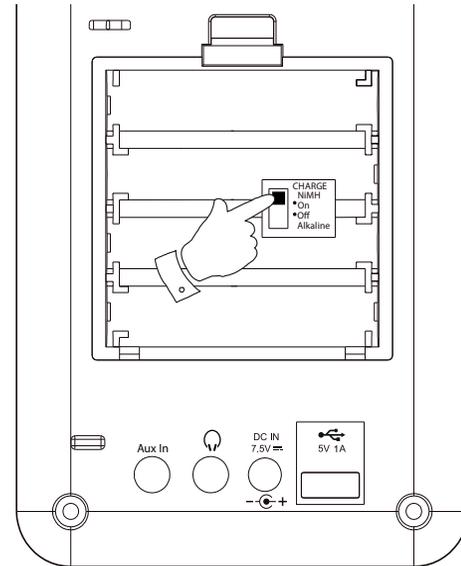


Battery operation using rechargeable batteries (also see page 31)

1. Remove the battery cover on the back of the unit by pushing the catch down and lifting the cover off.
2. Slide the switch inside the battery compartment to the **NiMH** position.
3. Insert four identical Rechargeable LR6 (AA 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. 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 showing that batteries are charging. Batteries will be fully charged between 5 - 7 hours. The battery indicator will disappear when the battery charging is complete.
6. Under some conditions the charging indicator may switch off after a short delay. This may happen if the batteries are already freshly charged, or if the radio detects that you may be attempting to recharge alkaline batteries. In these cases the charging will be stopped.

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.**
- 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 31.

Navigation controls

This page describes the basic means of controlling your Blutune T2 radio. Detailed instructions for each operating mode are given in the later sections of this book.

1. Pressing and releasing the **On/Standby** button brings your radio out of the Standby mode if running from the mains or switches it on if using batteries.

Pressing and releasing the **On/Standby** button while the radio is in use will cause it to return to the Standby mode with the clock display when running from the mains, or will switch it off after a short delay when running on batteries.

2. Pressing the **Mode** button gives you access to each of the operating modes in turn: DAB radio, FM radio, Auxiliary Input, Bluetooth and Music Player.

Alternatively, press the **Mode** button and then turn the **Tuning/Select** control clockwise or anti-clockwise to highlight the desired menu item then press the control to select that item.

3. Pressing the **Menu** button will access the menu system.

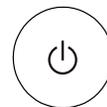
4. Many operations require the user to make a selection from the menu. This is done using the **Tuning/Select** control. Turn the control clockwise or anti-clockwise to highlight the desired menu item then press the control to select that item.

If there are more than six items in a menu, then the display will automatically scroll up or down so that the additional items become visible.

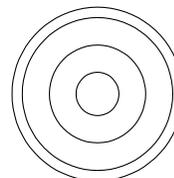
If there are many items in a menu, then the radio allows the menu to 'wrap around' in either direction. This can make it easier to reach items at the end of a long menu, such as a list of DAB radio stations.

5. If an error is made when navigating the menus, it is generally possible to go back to a higher level menu by pressing the **Menu** button.
6. Pressing the **Tuning/Select** control allows the display of information relating to the radio station or music file being played.

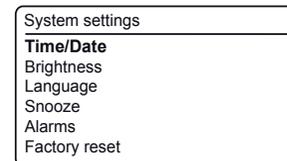
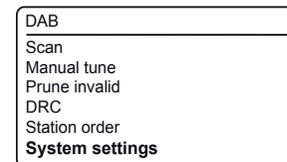
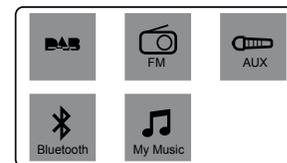
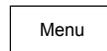
Note: In this booklet press always means press and release. If it is required to give a long press on a button this is described as **apply a long press** and the button should be held down for 2 to 3 seconds until the radio has responded.



Tuning



Select / Info / Snooze



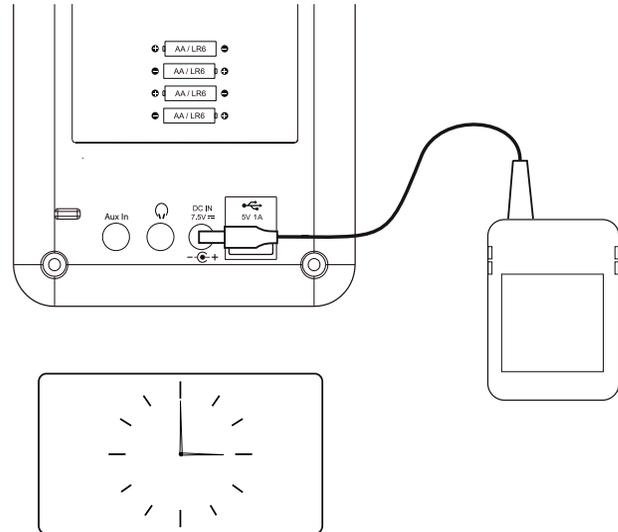
Using the radio for the first time

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 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.

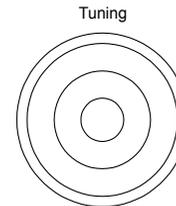
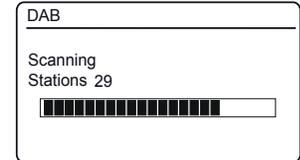
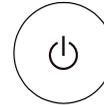
IMPORTANT: The mains adaptor is used as the means of connecting the product to the mains supply. The mains socket and any multi-way mains block used for the product must remain accessible during normal use. In order to disconnect the product from the mains, the mains adaptor should be removed from the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



Operating your radio - DAB

1. Press the **On/Standby** button to switch on your radio.
 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.
 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 first station in the list of stations found during scanning will be highlighted. Rotate **Tuning** to step through the list of available stations. Press **Tuning** to select and tune to the desired station. 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.
- Your radio has an indicator  on the display to indicate the strength of the DAB radio signal being received.



Select / Info / Snooze



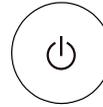
Note: When first switched on, the radio will set the volume to a moderately high level, in case the broadcast is very quiet. After you have set the volume, the radio will remember the setting that you have applied for the next time that it is used.

Selecting a station - DAB

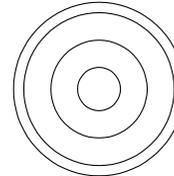
1. Press **On/Standby** to switch on the radio.
2. Press **Mode** until the 'DAB' mode is selected.
3. Rotate **Tuning** to step through the list of available stations.
4. Press **Tuning** to select and tune to the desired station.
5. Adjust the **Volume**.

Alternatively to access the station list using the DAB menu, press the **Menu** button and then choose 'Station list'.

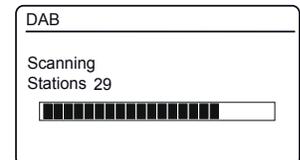
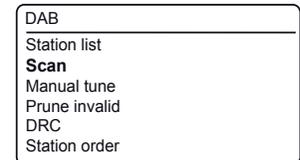
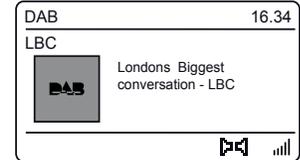
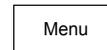
Note: If after selecting a station the station does not tune, it may be necessary to relocate your radio to a position giving better reception.



Tuning



Select / Info / Snooze



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 rotate the **Tuning** control clockwise. To tune to the selected service, press **Tuning**.

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/Standby** to switch on the radio.
2. Press **Mode** until the 'DAB' mode is selected.
3. Press **Menu**.
4. Choose 'Scan'.
5. Press **Tuning**. 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 the radio stations will be added to the list stored in the radio.

Manual tuning - DAB

Manual tuning allows you to tune your radio to a particular DAB frequency in Band III. Any new stations found will be added to the station list. This function can also be used to assist the positioning of the telescopic aerial or the radio to optimise reception for a specific channel or frequency.

1. When in DAB mode, press **Menu**.
2. Choose 'Manual tune' and then select the desired DAB channel.
3. Press **Tuning** to tune to the chosen frequency. When the radio has tuned, the display shows the channel number, frequency, and the name of the DAB multiplex found (if any). A bar graph shows the signal strength and is useful if you need to reposition the radio or its telescopic aerial. The minimum signal marker 'I' which separates the left and right parts of the signal graph shows the minimum signal level required for satisfactory reception. Any new radio stations found on the tuned DAB multiplex will be added to the list stored in the radio.
4. Press **Menu** to choose a different frequency or return to the normal playing mode.

Dynamic Range Control (DRC) settings - DAB

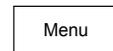
The DRC facility can make quieter sounds easier to hear when your radio is used in a noisy environment.

1. When in DAB mode, press **Menu**.
2. Choose 'DRC' and then choose the required DRC setting (default is Off).
DRC Off - DRC is switched off, Broadcast DRC will be ignored. DRC Low - DRC level is set to 1/2 that sent by broadcaster. DRC High - DRC is set as sent by broadcaster.
3. Press **Tuning** to confirm the setting. **Note:** Not all DAB broadcasts use the DRC function. If the broadcast does not provide DRC information, then the DRC setting in the radio will have no effect.

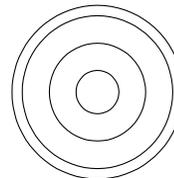
Station order - DAB

Your radio has 3 station order settings from which you can choose. The station order settings are alphanumeric, ensemble and valid (default is alphanumeric).

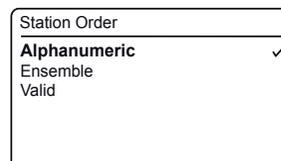
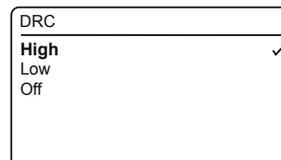
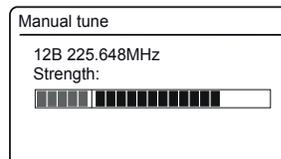
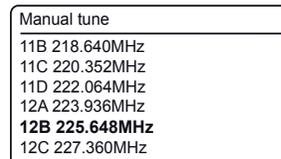
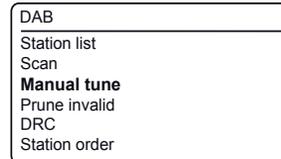
1. When in DAB mode, press **Menu**.
2. Choose 'Station order' and then choose the required station order setting. Press **Tuning**.
Alphanumeric - sorts alphabetically, Ensemble - sorts by multiplex, Valid shows only stations with a signal.



Tuning



Select / Info / Snooze



Prune stations - DAB

If you move to a different part of the country, some of the stations which were listed may no longer be available. Also, from time to time, some DAB services may stop broadcasting, or may change location or frequency. Stations which cannot be found, or which have not been received for a very long time are shown in the station list with a question mark.

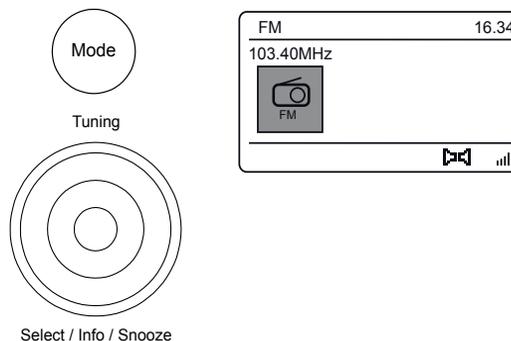
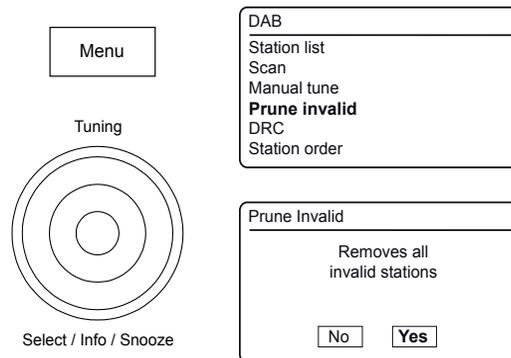
The Prune stations function will delete the marked DAB stations from your station list.

1. When in DAB mode, press **Menu**.
2. Choose *'Prune invalid'* and then choose *'Yes'* to cause the invalid station names to be removed from the station list.
3. If you do not wish to prune stations choose *'No'* in step 2 above.

Note: If you have moved your radio to a different part of the country you should also carry out a search for new stations (please see the section *'Finding new stations'* on page 8).

Operating your radio - FM

1. Carefully extend the telescopic aerial. Press **On/Standby** to switch on the radio.
2. Press **Mode** until the *'FM'* mode is selected.
3. Rotate the **Tuning** control clockwise. The displayed frequency will increase. **Apply a long press** on the **Tuning** control to carry out an auto-tune. Your radio will scan in an upwards direction (low frequency to high frequency) and stop automatically when it finds a station of sufficient strength.
4. 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 control to scan further.
5. To scan down in frequency, rotate the **Tuning** control anti-clockwise and then **apply a long press** on the control. Your radio will scan the FM band in a downwards direction (high frequency to low frequency).
6. When the waveband end is reached your radio will recommence tuning from the opposite waveband end. Adjust the **Volume**.
7. To switch off your radio press **On/Standby**.



Manual tuning - FM

1. Rotate the **Tuning** control to tune to a station. The frequency will change in steps of 50kHz. Adjust the **Volume**.

Scan sensitivity setting - FM

Your radio will normally scan for FM broadcasts which are strong enough to give good reception. However, you may wish the Auto-scan function to also be able to find weaker signals, possibly from more distant radio transmitters. Your radio includes a local / distant option for the Auto-scan function.

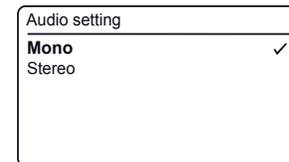
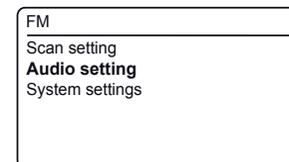
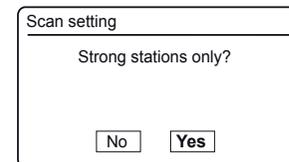
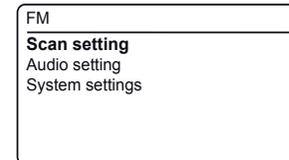
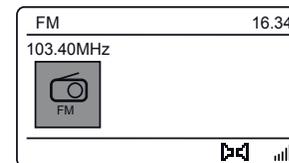
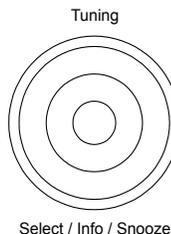
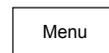
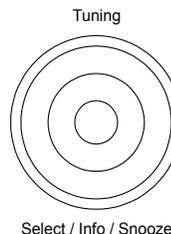
1. When in FM mode, press **Menu**.
2. Choose 'Scan setting'.
3. To set your radio so that only the stations with the strongest signals are found during scanning choose 'Yes'. (Normally this will restrict scanning to local transmissions).
4. Alternatively, to set your radio so that all available stations are found during scanning (local and distant transmissions) choose 'No'.

Note: The initial setting (out of the box, or after a System Reset) causes the radio to ignore weaker (or more distant) signals.

Stereo / Mono switching - FM (headphones only)

Your radio will play stereo FM broadcasts in stereo (via headphones only) 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 change the audio setting, press **Menu**.
3. Choose 'Audio setting'. The current audio setting is indicated with a tick. To switch to mono in order to reduce the hiss from a weak FM signal choose 'Mono' or choose 'Stereo' to return to the normal automatic 'stereo or mono' setting.



Display options - DAB / FM / Bluetooth / USB Music Player

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

1. Press the **Tuning / Info** control to cycle through the various options.

DAB display options

Your radio can display the following in DAB mode:-

Station name, scrolling text, program type, multiplex name, channel & frequency, signal strength / error rate, bit rate, audio type and date.

For the signal strength/error rate a low error number indicates a better quality of DAB radio signal. The minimum signal marker 'I' which separates the left and right parts of the signal graph shows the minimum signal level required for satisfactory reception.

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:-

Station name, scrolling text, frequency, program type and date.

Bluetooth display options

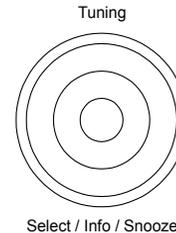
If your connected device is able to provide information from the track being played, your radio can display the following in Bluetooth mode:-

Title, Album and Artist details.

USB Music Player display options

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

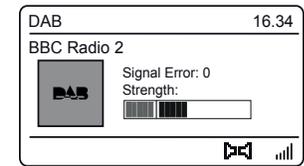
Title, Album, Artist, File name, directory and date details.



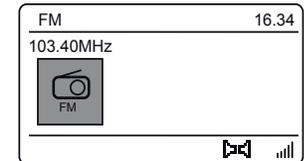
Scrolling text (DAB and FM)



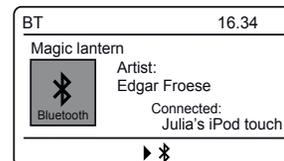
Signal strength (DAB only)



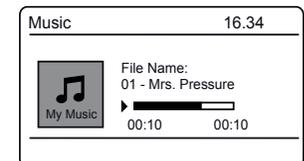
Frequency (DAB and FM)



Title (Bluetooth)



File name (USB Music player)



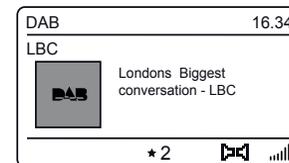
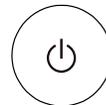
Presetting stations in DAB and FM modes

You may store your preferred DAB and FM radio stations to the preset station memories. There are 60 memory presets in your radio, 30 for DAB and 30 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

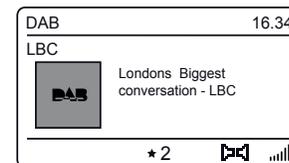
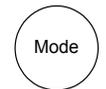
1. Press **On/Standby** to switch on your radio.
2. Tune to the required DAB or FM radio station as previously described.
3. To store the currently playing radio station as a preset, **apply a long press** on the required **Preset** button (1-5). The station will be stored using the chosen preset button. The preset number is shown at the bottom of the display screen. Repeat this procedure as needed for the remaining presets.
4. 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/Standby** to switch on your radio.
2. Select either the DAB or FM mode using the **Mode** button.
3. Momentarily press the required **Preset** button (1-5). Your radio will then tune to the station stored in the selected preset memory.
4. The preset used will be shown at the bottom of the display screen.

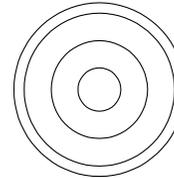


Storing a preset using the menu (presets 1 - 30)

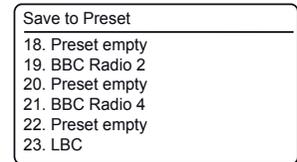
1. Press **On/Standby** to switch on the radio.
2. Select either the DAB or FM mode using the **Mode** button.
3. Tune to the required station as previously described.
4. **Apply a long press** on the **Preset** button. The display shows a 'Save to Preset' menu. The display will show, for example, '01. Preset empty' if no station has been stored to that preset.
5. Rotate the **Tuning** control to scroll through the preset list until you reach an unused preset or a preset that you wish to change.
6. Press the **Tuning** control to store the preset. The station will be stored under the chosen preset. The preset number will be shown at the bottom of the display screen.
7. Repeat this procedure as needed for the remaining presets. Stations which are already stored in the presets may be overwritten by following the above procedure.



Tuning

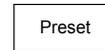


Select / Info / Snooze

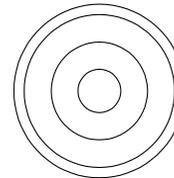


Recalling a preset using the menu (presets 1 - 30)

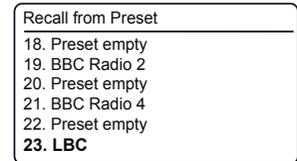
1. Select either the DAB or FM mode using the **Mode** button.
2. Press the **Preset** button to display the 'Recall from Preset' menu.
3. Rotate the **Tuning** control to highlight the desired preset station.
If a preset has been stored, then the display will show either the station name (for DAB stations) or the frequency (for FM stations).
4. Press the **Tuning** control.
5. Your radio will then tune to the station stored in the selected preset memory. The preset indicator will show on the bottom of the display screen.



Tuning



Select / Info / Snooze



Bluetooth mode

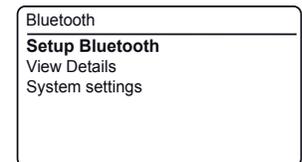
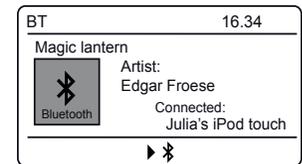
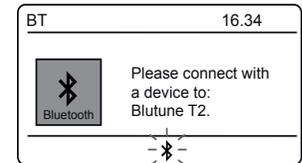
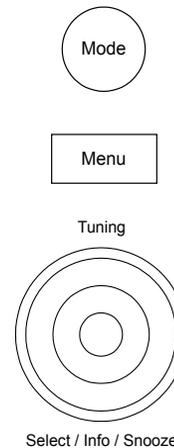
The Bluetooth mode on your radio allows you to play audio, play sound from video files and stream music from Bluetooth capable devices such as your mobile phone, computer, tablet etc. through your radio's loudspeaker.

- When a Bluetooth enabled device such as your Blutune T2 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. Ensure your radio is switched on.
3. Press the **Mode** button on your radio until the Bluetooth mode is selected. Your radio will show that it is 'discoverable' and the **Bluetooth indicator** will flash blue on the display. If the indicator is blue and not flashing, then the radio is already connected to another device. To cause the radio to become 'discoverable', press **Menu** and then choose 'Setup Bluetooth'. Press **Tuning**. Your Blutune T2 will become discoverable by other devices.
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 'Blutune T2'. Just occasionally it may take longer for the radio to be found by your device.
5. Select 'Blutune T2' to cause your phone, tablet or PC to pair with your radio and to establish a connection.
6. Once the connection is established the Bluetooth indicator will remain steady. 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).



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.

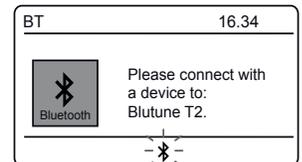
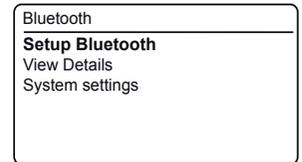
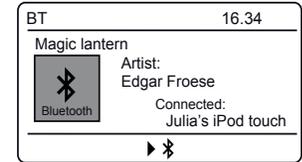
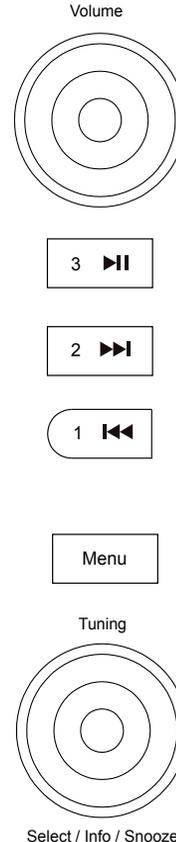
3. The audio player in your phone, tablet or PC may be able to respond to the **Play/Pause**, **Next** track, **Previous** track buttons on the radio.

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

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, press **Menu** and then choose 'Setup Bluetooth'. Press **Tuning**. The **Bluetooth indicator** flashes blue.
2. Your Blutune T2 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 'Blutune T2'. When the new Bluetooth connection has been established the **Bluetooth indicator** will remain steady. 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 'Blutune T2' pairing on the device. Please refer to the device's Bluetooth documentation.



View Bluetooth information

1. To view the Bluetooth information of the currently connected Bluetooth device, press **Menu** and then choose 'View Details' and then 'Bluetooth Info'.

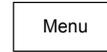
The Bluetooth information including Bluetooth status and friendly name will be displayed.

View Bluetooth connection details

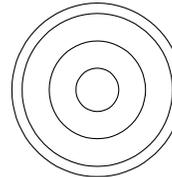
1. To view the details of the currently connected Bluetooth device, press **Menu** and then choose 'View Details' and then 'Connected Device'.

View Paired Device list

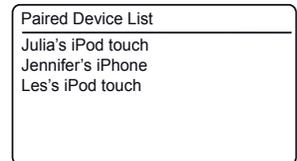
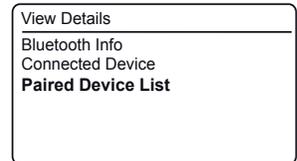
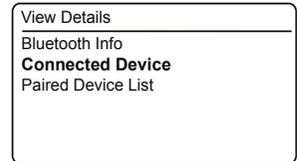
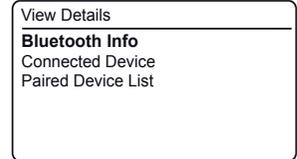
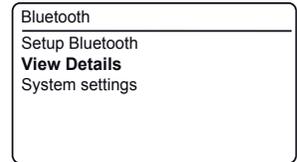
1. To view the paired device list, press **Menu** and then choose 'View Details' and then 'Paired Device List'.
2. The radio will display a list of up to 8 previously connected devices.



Tuning



Select / Info / Snooze



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.

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. The LCD will revert to the standby mode clock display. To use the radio again, simply press the On/Standby 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 back of the radio.

Note: USB playback is not guaranteed when the radio is powered from the batteries.

The Bluetooth T2 radio has been tested with a range of USB memory devices of up to 256GB 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 and WAV.

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.

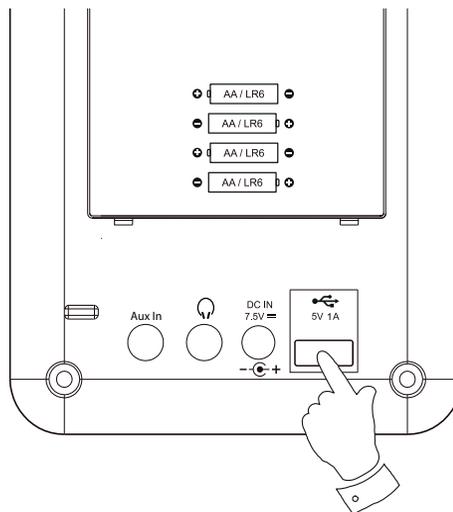
Searching and playback will be more responsive if the number of files in any one folder is limited (we suggest not more than 250).

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 (but playback is only from the currently selected level).

The shuffle function is limited to 500 tracks.

Album art within music files should not be larger than 500 x 500 pixels.



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 at the back of the radio.
2. Press **On/Standby** to switch on the radio.
3. To select the USB playback mode press **Mode** as needed until the USB *Music Player* mode is selected.
4. Press **Menu**. Choose 'USB Playback'.

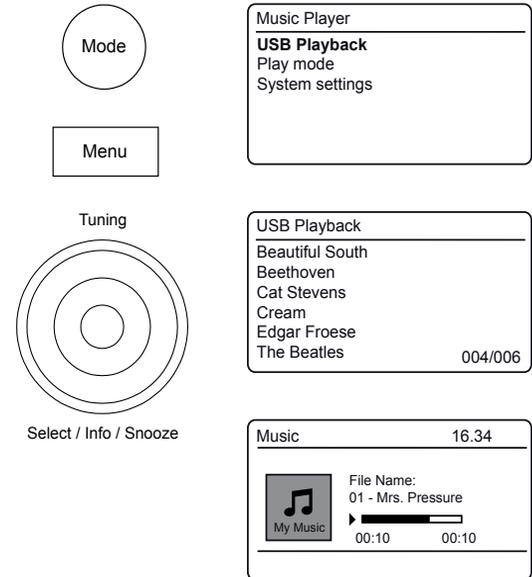
When using the Music Player, pressing Menu will generally display the current folder on the USB device. Pressing Menu again will access the previous folder level. At the top folder level on the USB device pressing Menu again will display the main Music Player menu.

5. 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.
6. Choose the required folder. The list of files or folders will be displayed.
If you have nested folders (such as album folders within an artist folder) then you will simply step to the next folder level.
7. Choose the desired track. All files in the current folder following the selected file will then be played in turn.

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).

Controlling playback

1. To control playback of your music files press the **Play/Pause**, **Next** track and **Previous** track buttons on the radio.
2. 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.
This function is not available for FLAC files.



Repeat and shuffle functions

In the music player menu you may choose to repeat the current album or track or to play the files in random order.

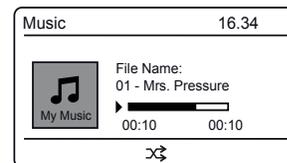
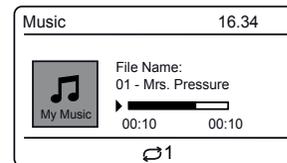
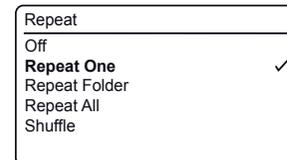
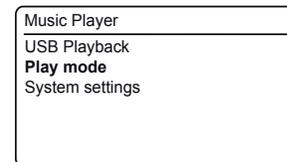
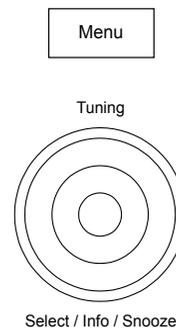
1. When in the USB Music Player mode, press **Menu** as needed.
2. Choose 'Play Mode'.
3. Choose the required repeat option. The current option will be marked with a tick.

Off	- Repeat and shuffle will be disabled
↻1 Repeat One	- Repeat a single file
↻F Repeat Folder	- Repeat a folder
↻ Repeat All	- Repeat all files
↻ Shuffle	- Play files in random order

4. Choosing the 'Off' option will disable repeat and shuffle options.
5. To enable the shuffle option choose 'Shuffle'.

To skip to another folder

1. When the USB memory device is playing, press either the **Next** or **Previous Folder** buttons. The first file of the next or previous folder on the memory will be played.



Clock and Alarms

Automatically updating the clock

Your radio will usually set the clock time using the DAB signal. You may specify that the radio sets its clock using signals from the DAB or FM waveband or none. If you choose none you will need to set the clock manually.

1. With your radio switched on, press **Menu**.
2. Choose '*System settings*', '*Time/Date*', '*Auto Update*' and then choose an update option from '*Update from DAB*', '*Update from FM*' or '*No Update*' as required.

If a signal is not found you should then either position the radio or its aerial so that a signal can be received, or revert to manual clock mode below.

Setting the clock format

The clock display used in Standby mode and on the playing mode screens can be set to 12 or 24 hour format. The selected format is then also used when setting the alarms.

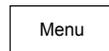
1. With your radio switched on, press **Menu**.
2. Choose '*System settings*', '*Time/Date*', '*Set Format*' and then select 12 or 24 hour. The current clock display format is marked with a tick.

If the 12 hour clock format is chosen, the radio will then use the 12 hour clock for the setting of alarms, and will display a 12 hour clock with an AM or PM indicator when in Standby mode.

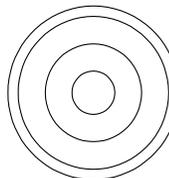
Setting the clock manually

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.

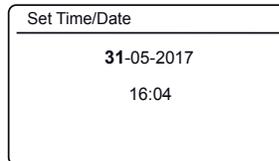
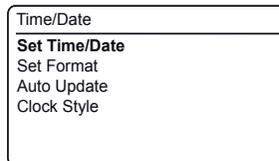
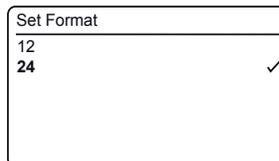
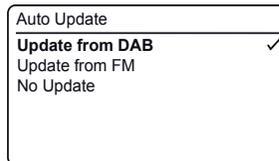
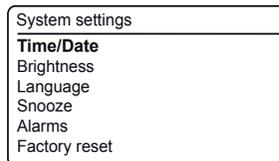
1. With your radio switched on, press **Menu**.
2. Choose '*System settings*', '*Time/Date*', '*Set Time/Date*' and then select the desired day, month, year, hour and minute setting.
3. Press **Tuning** to confirm the time setting.



Tuning



Select / Info / Snooze



Setting the alarm clock

Your radio has two alarms which can be set to wake you to DAB, FM radio or buzzer alarm. Each alarm can be set to sound once, daily, on weekdays or at weekends. In the event of a power interruption your radio has a built in memory that will retain your alarm settings. Ensure that the time is set correctly before setting the alarms.

Alarms can be set while the radio is in Standby mode or switched on. You may set the alarm duration to sound for 30, 60, 90 or 120 minutes. Please see 'To set the alarm duration' page 25.

Alarms may be used whether the radio is powered from the mains or from batteries. If the radio is switched off when powered from batteries, the clock will continue to run so that alarms can be used. However the clock display will be switched off to extend battery life.

You may use the **Tuning** control to select or modify any particular setting using the control to enter the modification. If no buttons are pressed for 10 seconds, your radio will exit the alarm setup.

1. To change the On / Off states of the alarms while the radio is in Standby or switched on, press either the **Alarm 1** or **Alarm 2** button. The display will cycle through No Alarm or Alarm enabled.
2. To change the detailed alarm settings while the radio is in Standby or switched on, **apply a long press** on the **Alarm 1** or **Alarm 2** button. This will cause the Alarms menu to be displayed.
3. Choose 'Alarm Time' to adjust the alarm time.
4. Choose the alarm hour and then the minute. The display will then return to the alarm setting menu.
5. Choose 'Alarm Mode'. The display will show the alarm mode options. The alarm mode options are as follows:

'Off' - the alarm will be disabled

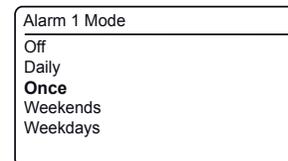
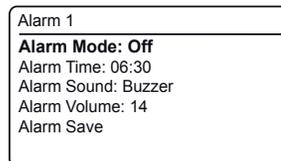
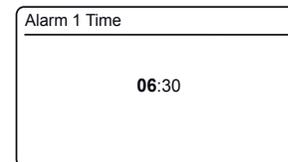
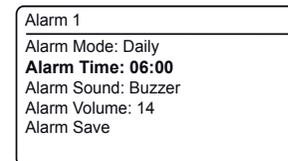
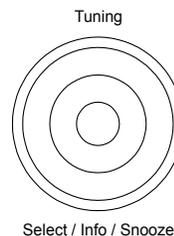
'Daily' - the alarm will sound everyday

'Once' - the alarm will sound once

'Weekends' - the alarm will sound only at weekends

'Weekdays' - the alarm will sound on weekdays only

Choose the required alarm mode option. Choosing Off will disable the alarm.



Setting the alarm clock - cont.

- The alarm can be set to buzzer, DAB radio or FM radio. For whichever radio mode is selected, the radio alarm may be set to any of the stations which have been stored as presets or to the station most recently listened to.

Choose the '*Alarm Sound*' option for the alarm then select either '*Buzzer*' or the required radio mode.

- If setting the alarm to the radio option, choose the '*Preset*' option then choose either the radio station '*Last Listened*' to, or from presets 1- 30.

Note: You can only set the alarm to use a preset which has already been stored.

- Choose the '*Volume*' option. The radio uses the saved volume setting for each alarm when it sounds. Use the **Tuning** control to set the required volume.
- In order to store the alarm settings rotate **Tuning** until '*Alarm Save*' is highlighted. Press **Tuning** to store the alarm settings. Your radio will show '*Alarm Saved*'.

Active alarms are shown using small alarm indicators   and the corresponding alarm number at the bottom of the playing displays and on the clock display when in Standby.

Note: If you make a mistake at any point while setting the alarms, it is generally possible to go back to the previous screen using the **Menu** button.

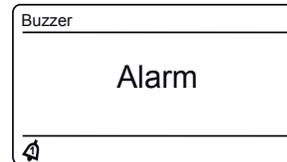
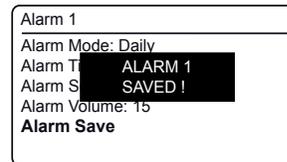
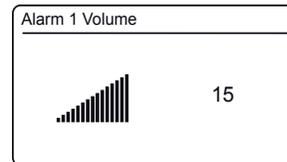
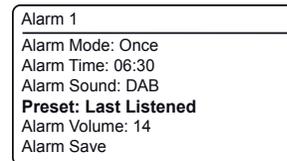
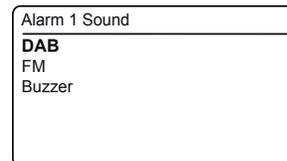
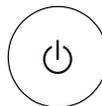
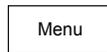
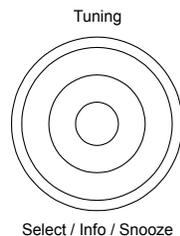
When the alarm sounds

The alarm will sound at the selected times for up to 120 minutes unless cancelled. The volume used for the alarm will be specified during the alarm setting procedure. When your radio is set to wake by the radio alarm, your radio will switch to the selected radio station. If the radio cannot receive the specified DAB radio station, the buzzer will be used instead. **Note:** If the radio is switched on because of a radio alarm you can control basic functions such as the volume control.

When the alarm activates it will start softly and gradually increase in level. The alarm icon will flash on the screen and the radio will automatically switch back to standby mode when the selected alarm duration has elapsed.

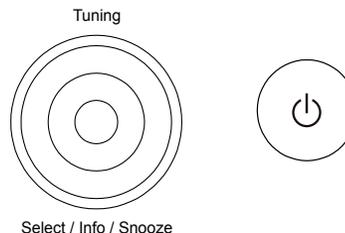
Cancelling alarms

- Whilst an alarm is sounding, press **On/Standby** to cancel the alarm.
- If the snooze feature is not required, then setting the snooze option to '*OFF*' will allow other controls also to be used to cancel an alarm (see page 25).



Snooze timer

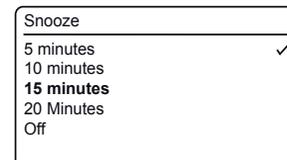
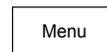
1. The snooze timer can be used to silence the alarm for 5, 10, 15 or 20 minutes before it will sound again. When the alarm sounds the snooze timer is activated by pressing the **Tuning/Select/Snooze** control or any of the two rows of buttons.
2. While the snooze timer is active, the alarm icon will flash on the clock display. When the alarm sounds again, the snooze function can be repeated as required.
3. In order to cancel the snooze timer while the alarm is suspended, press and release the **On/Standby** button.
4. If the snooze timer option is set to 'OFF', then pressing the **Tuning/Select/Snooze** control or any of the two rows of buttons will cancel the alarm immediately.



To set snooze time

The snooze duration can only be set while the radio is playing.

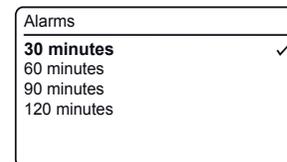
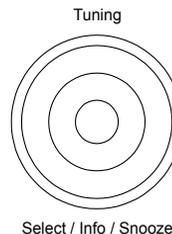
1. With your radio switched on, press **Menu**.
2. Choose 'System settings' and then 'Snooze'.
3. Choose 5, 10, 15, 20 or to Off.



To set the alarm duration

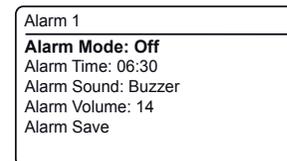
The alarm duration is adjustable and can only be set while the radio is playing (default duration is 30 minutes).

1. With your radio switched on, press **Menu**.
2. Choose 'System settings' and then 'Alarms'.
3. Choose 30, 60, 90, or 120 minutes.



Disabling alarms

1. To disable an alarm while the radio is in Standby or switched on, press the **Alarm 1** or **2** buttons to cycle through the alarm on-off options (see page 23, step 1).
2. Alternatively, to disable an alarm enter the alarm setup menu (see page 23 step 2) and choose 'Alarm Mode' option.
3. Select 'Off' mode option and 'Alarm Save'. The chosen alarm will now be disabled.



Sleep timer

Your radio can be set to turn off after a preset time has elapsed. The sleep timer setting can be adjusted between 5 and 120 minutes in 5 minute increments.

1. Press **On/Standby** to switch on your radio.
2. **Apply a long press** on the **On/Standby** button to access the sleep timer. Select the required sleep time. The sleep timer can be set to between 5 and 120 minutes, or to Off which will cancel the sleep function. Press **Tuning** to confirm your desired sleep time.
3. An active sleep timer will be shown using a small timer indicator at the bottom of the playing displays. Your radio will switch off after the preset sleep time has elapsed.
4. To cancel the sleep time before the preset time has elapsed and to turn off the radio, press **On/Standby** to turn the unit off manually.
To cancel the sleep timer and leave the radio playing, go back into the sleep timer settings (steps 1 to 2 above) and select the Off option in step 2.

Clock style

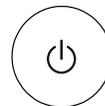
Your radio's standby display can be set to the analogue or digital clock style.

1. With your radio switched on, press **Menu**.
2. Choose 'System settings', 'Time/Date' and then 'Clock Style'.
3. To select the digital clock style choose 'Yes' or to select the analogue clock style choose 'No'. The current style will become visible when the radio is put into standby.

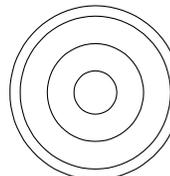
Software version

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

1. Press **On/Standby** to switch on the radio.
2. Press **Menu**.
3. Choose 'System settings' and then 'Info'. The software version will be displayed. Press **Menu** as needed to exit.

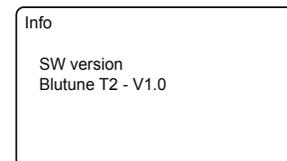
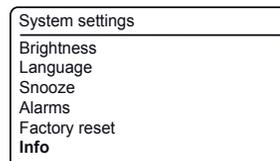
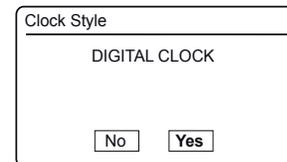
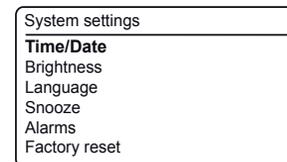
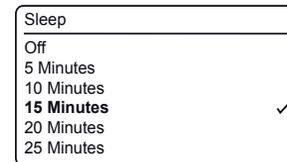


Tuning



Select / Info / Snooze

Menu



Display backlight dimmer

The brightness of the display can be adjusted for when the radio is in standby or when in use. If you use the unit in the bedroom, you may prefer a lower standby brightness level than the standard setting. There are six standby brightness levels and six levels for when the radio is in use.

To change the current brightness setting please follow these steps.

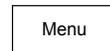
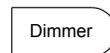
1. If your radio is in the standby mode or playing, press the **Dimmer** button to choose the High, Medium High, Medium, Medium Low, Low or Off dimmer setting.
2. Alternatively to adjust the brightness using the menu, press **Menu**.
3. Choose 'System settings' and then 'Brightness'.
4. To adjust the display brightness when the radio is switched on select 'Normal'.
To adjust the display brightness when the radio is in Standby select 'Standby'.
Press **Tuning** to enter the selected brightness adjustment mode.
5. Choose the High, Medium High, Medium, Medium Low, Low or Off dimmer setting.
Note that the backlight is almost completely off at the Off setting.
6. Press **Tuning** to set the level. Press **Menu** as needed to exit.

When the radio is in standby and powered from the mains pressing any button (except the Dimmer button) or the rotary controls will cause the radio to switch to the 'High' brightness level for a few seconds. This is so that if the standby brightness level is set to Low or Off, it is still possible to see the time when needed.

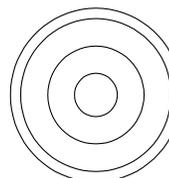
Language function

Your radio's menus can be configured to a different language.

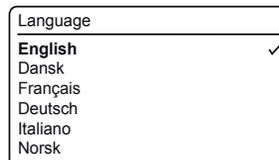
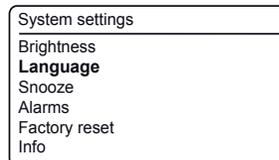
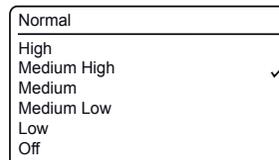
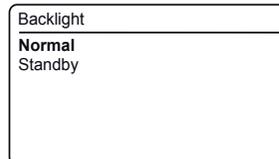
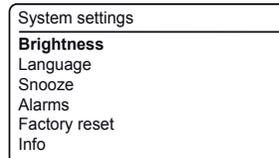
1. Press **On/Standby** to switch on your radio.
2. Press **Menu**. Choose 'System settings' and then 'Language'. The current language is indicated with a tick.
3. Choose your desired language. The display will change to the chosen language.
4. Press **Menu** as needed to exit.



Tuning



Select / Info / Snooze



Headphone socket

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

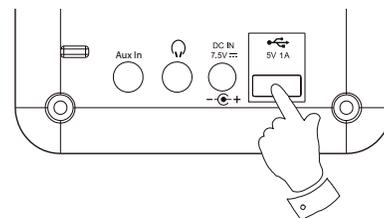
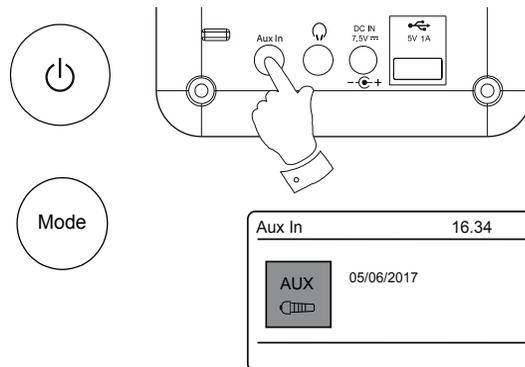
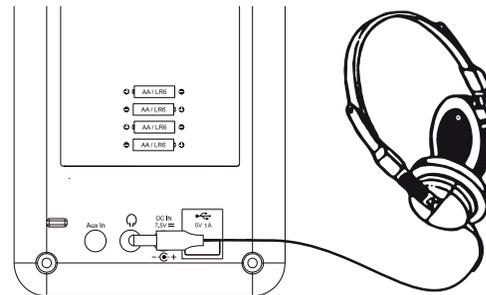
1. Connect a stereo or mono audio source (i.e. CD player, MP3 player, etc.) to the **Auxiliary input** socket.
2. Press **On/Standby** to switch on the radio.
3. Press **Mode** until the display shows 'Aux In'.
4. Adjust the **Volume** control on your player and on the radio for comfortable listening.
5. Remove the cable from the **Auxiliary input** socket or press **Mode** to cancel Auxiliary Input mode. Note that audio played via the auxiliary input will be played in mono through the speaker and in stereo through stereo headphones.

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. The LCD will revert to the standby mode clock display. To use the radio again, simply press the On/Standby button to switch it on.

USB socket for smartphone or tablet charging

Your radio has a USB socket which can be used for charging a smartphone, tablet or other similar devices. Charge time may vary and in some cases may take longer to charge than when using the manufacturers charging unit supplied with the device.

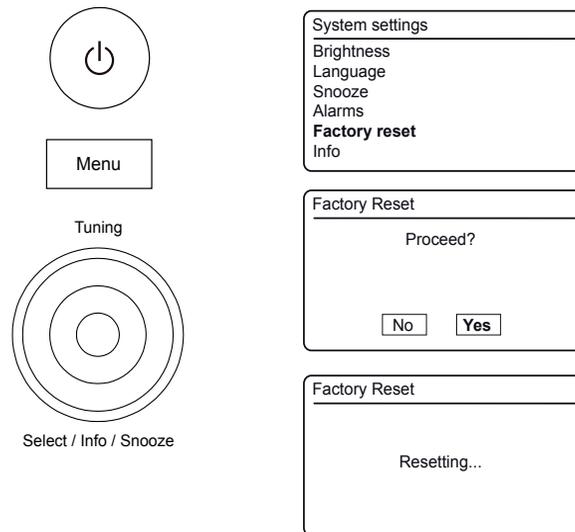
1. Ensure your radio is plugged in and powered from the mains.
2. Connect your device to the USB charging socket at the rear of your radio.
3. Your device will begin to charge. Once your device has charged remove the USB lead.



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 **On/Standby** to switch on the radio. Press **Menu**.
2. Choose 'System settings' and then 'Factory reset'.
3. Select 'Yes'. If you do not wish to carry out a system reset, select 'No'. The display will revert to the previous display.
4. With 'Yes' selected, press **Tuning**. A full reset will be performed. The station list and presets will be erased. Alarms will be cancelled and settings will be set to their default values. The display will show 'Resetting' and then 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 7).



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.

Product markings

	DC Voltage 7.5V / 2A
	Recycling 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. 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.

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 on the rear of the radio.

Specifications

Power Requirements

Mains	AC 230 volts, 50Hz ~ only (adaptor) (Use only the supplied adaptor)
Batteries	4 x LR6 (AA Size) Alkaline or NiMH rechargeable (not included)
Battery Life	Up to 25 hours using alkaline cells depending upon volume, display brightness 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 product must be used in a moderate climate.

Headphone socket (stereo) 3.5mm dia.

Auxiliary input socket (stereo) 3.5mm dia.

Aerial System FM / DAB telescopic aerial

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 Blutune T2 radio has been designed to use a choice of power sources. You may plug it into the mains using the supplied high-efficiency 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 (in the down position). 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 (in the down position).
 - c. If Rechargeable batteries are fitted, then set the switch to the NiMH position (in the up position). 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 Blutune T2 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 2000mAh 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. Install the batteries arranging them as shown on page 4.

Plug the mains adaptor into a mains socket and then into the radio. The charging indicator will show on the display, see page 4.

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 (this can be between 5 and 7 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	1.5 Mbits/sec
MP3	320 kbits/sec
WAV	1.536 Mbits/sec

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

All codecs support sample rates up to 48 k samples/sec (includes 32k and 44.1k samples/sec), at 16 bits per sample.

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

Guarantee

This product is guaranteed for twenty four 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 website.

For product repairs falling outside the guarantee period, please refer to the "customer care" tab on the www.robertsradio.com website.

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



Issue 1
2017-08-24

ROBERTS RADIO LIMITED

PO Box 130
Mexborough
South Yorkshire
S64 8YT

Website: <http://www.robertsradio.com>

© 2017 Roberts Radio Limited

