BUSH

Instruction Manual

Stereo DAB/FM Radio

Stereo DAB/FM Radio

Contents

⚠Important safety information

Your Radio should be treated with care. The information below has been provided in the interest of safety and will help you to enjoy this product and the benefits it brings for many years.

- Keep the product and all its parts out of reach of small children.
- This product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.
- Keep it dry. Avoid exposure to precipitation, humidity and liquids which could all affect the product circuitry.
- Do NOT leave it in high temperatures as electronic devices and plastic parts may warp in heat.
- Do NOT leave it in low temperatures as moisture can form inside the product, which may damage the circuit board.
- Do NOT block or cover slots, holes or openings on the product by placing on soft furnishings such as carpets, rugs or beds as these are provided for functionality and/or ventilation to ensure safe operation of the product
- Do NOT store in dusty or dirty areas.
- Disconnect your Radio from the mains power supply during thunderstorms.
- Always check that you have completely switched off your Radio, before you change or disconnect the power supply.
- Only use the power supply that came with the product. Using an unauthorised power supply will invalidate your guarantee and may irrecoverably damage the product.
- Where the mains power plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
- Do NOT attempt to open the product. This product does not contain any user serviceable parts. Unauthorised handling of the device may damage it and will void your warranty.
- Do NOT use your Radio near emergency/intensive care medical equipment; if you have a pacemaker fitted or during an electrical storm.
- Do NOT use harsh chemicals, cleaning solvents or detergents to clean the product. Wipe with a damp (not wet) soft cloth to clean.
- If the Radio will not be used for a long period of time, make sure that all of the batteries are removed from the battery compartment and the mains power is unplugged.
- Only use recommended batteries or those of the same equivalent type.

- Do not mix old and new batteries or batteries of different types.
- Batteries are to be inserted with the correct polarity.
- The supply terminals are not to be short-circuited.
- Remove the batteries from the Radio if they will not be used for an extended period of time.
- Do not attempt to recharge non-rechargeable batteries.
- Dispose of old batteries carefully.
- Never throw batteries in a fire or attempt to open the outer casing.
- Batteries are harmful if swallowed, so keep away from young children.
- CAUTION: Danger of explosion if batteries are incorrectly replaced. Replace only with the same or equivalent type.

WARNING:

To prevent possible hearing damage, do not listen to this radio at high volume levels for long periods of time.

Product Set Up

Check the package contents

The package contains:

- 1 x Stereo DAB/FM Radio
- 1 x mains lead and plug
- 1 x instruction manual

Where to put your Radio

It is important that you consider carefully in advance where your Radio will be situated and make sure that it is:

- on a flat and stable surface
- Note: Never place your Radio directly onto antique or polished surfaces.
- within 1.4 metres of a power socket (if using mains power).   Please ensure that the mains power lead is not a trip hazard.
- at least 1 metre away from other electrical appliances to avoid interference
- where you can fully extend the telescopic aerial
- away from bright sunlight or heat sources, such as a radiator
- not in a humid or very damp place such as a bathroom

Setting up

1. Connect the mains power lead into the socket on the back of the Radio and fully extend the radio aerial in a vertical position to obtain the maximum signal strength.
2. Plug the power adaptor into the mains power wall socket and switch on.
3. The display will light up and 'Welcome to Digital Radio' will be displayed.
4. Press and releases the 'Power' button on the front of the radio. The first time you switch your radio on it will automatically begin to scan for DAB radio stations. A progress bar will show the progress of the scan and the number of stations found during the scan will also be displayed.

   When the scan is complete your radio will select the first available station and begin to play. Stations are listed in numerical and then alphabetical order by default.

   Note: The DAB radio station list is stored in the memory and so the next time you switch your radio on, the station search does not take place. It is possible to scan manually for stations. Please see page 9.
5. Inserting the batteries (optional). Before installing the batteries (not included) please ensure that the Radio is switched off and is unplugged from the mains power supply.

6. On the back of the Radio, push down the two tabs to release and remove the battery compartment cover. Insert 4 x 1.5V C-size (also known as LR-14) batteries, making sure to note the '+' and '-' markings and position the batteries the correct way around. Replace the battery cover, making sure it 'clicks' shut.

If used continuously on battery power, your Radio has an approximate battery life of 5 hours when using good quality alkaline batteries. When the battery power is low, please switch off the Radio and replace the batteries.

For battery operation, please switch off the mains adaptor and remove the mains power plug from the back of the Radio.

Time and date

The first time you listen to DAB radio, the time and date of your product will be synchronised automatically to that broadcast by the DAB service in 24 hour mode; which is in line with daylight saving, so there is no need to set the time and date manually.

If you do wish to set the time and date manually, please see page 18 .

Your Stereo DAB/FM Radio

Carry handle   Colour display   Rotary tune control Push to select   Telescopic aerial (at rear)

Scan

Power

Menu

DAB/FM mode

Speaker

Speaker

Info   Alarm   Rotary volume control   Sleep/Snooze   Preset

Mains power socket (at rear)   Battery compartment (at rear)
for 4 x 1.5V C size (LR-14)
batteries (not supplied)
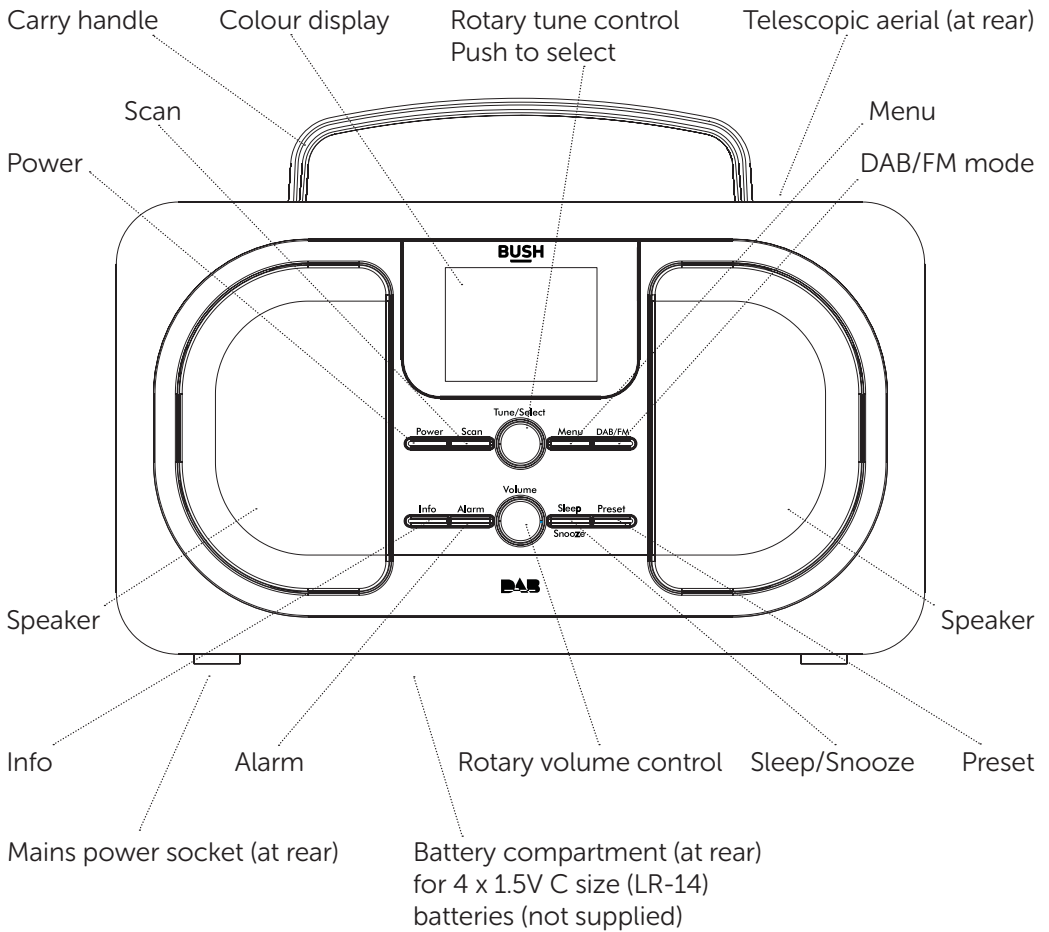
Using your Stereo DAB/FM Radio

Switch on

Press and release the 'Power' button on the front of the radio. The display will fully switch on and your Radio will return to the mode that it was last used in (DAB or FM). If you were listening to a radio station when you turned the radio off, then this station will be automatically selected.

Note: Always make sure that the aerial is fully extended, to ensure the maximum signal strength and the best possible sound quality.

Switch off

Press and release the 'Power' button. The Radio will go into Standby mode and the time will be displayed.

To completely switch off the Radio and the display, switch off the mains power at the wall socket.

Change the mode

Briefly press and release the 'DAB/FM' button to change modes. DAB and FM radio are available. Please check the display, which will confirm the mode.

Adjusting the volume

Turn the rotary volume control on the front of the radio, anti-clockwise to decrease the volume and clockwise to increase the volume.

Using the DAB radio

Telescopic aerial

Please make sure that the aerial on the top of the Radio is fully extended and adjusted before you attempt to tune to a DAB radio station (a vertical position is recommended). This will ensure that the maximum signal strength is available when the Radio begins to scan. Extending the aerial also ensures the best possible sound quality.

DAB radio mode

Check that your Radio is in DAB radio mode. If you are not already in DAB mode, briefly press and release the 'DAB/FM' button until you are in DAB mode (check the display). The DAB/FM button can be found on the front of the radio, underneath and to the right of the display.

The first time you use the Radio or if the station list is empty, your radio will automatically begin to scan for DAB radio stations. A progress bar will show the progress of the scan and the number of stations found during the scan will also be displayed.

When the scan is complete your radio will select the first available station and begin to play. Stations are listed in numerical and then alphabetical order by default.

Changing DAB stations

In DAB mode:

1. Turn the rotary 'Tune/Select' control on the front of the radio to scroll through the available stations.
2. When the station that you would like to listen to is displayed press to 'Select'. There will be a short delay whilst your DAB radio tunes to your selected station.

Scanning for DAB stations

With DAB radio, additional stations and services regularly become available so it's a good idea to carry out a manual scan every now and then to make sure that you have the most up to date station listing stored within the memory of your Radio. If you have moved your Radio to another location,

e.g.: if you go on holiday, then it's also a good idea to carry out a manual scan.

In DAB mode:

1. Press and release the 'Scan' button to begin a search for stations. The display will change to 'Scanning...'. A progress bar will show the progress of the scan and the number of stations found during the scan will also be displayed.

Prune DAB stations

You can remove the DAB stations in the station list that cannot be received in your area. These are listed with a '?' prefix.

1. Press and release the 'Menu' button and use the 'Tune/Select' rotary control to scroll to '<Prune>'. Press and release the rotary control to 'Select'.

2. 'Prune? <No> Yes' is displayed.   Use the rotary control to scroll to 'Yes'.   Press the rotary control to 'Select' and prune the station list. Stations with a '?' prefix will now no longer be displayed. Press and release the 'Menu' button to return to the station display.

Storing a DAB station preset

Your Radio can store up to 30 DAB radio stations in its preset memories for instant access to your favourite stations.

1. Tune the Radio to the DAB radio station that you wish to preset.

2. Press and hold the 'Preset' button for approximately 2 seconds until 'Preset store' is displayed.

3. Use the 'Tune/Select' rotary control button to scroll to the preset location that you would like to store the radio station to (1-30).

4. Press the rotary control to 'Select', the display will confirm 'Preset X stored', where 'X' is the number of the preset (1-30).

    Note: If there is already an existing DAB station stored under a preset, it will be over written when you store the new station.

Tune to a DAB station preset

In DAB mode:

1. Press and release the 'Preset' button. 'Preset Recall' is displayed together with the number of the current preset location.

2. Use the 'Tune/Select' rotary control to scroll to the Preset location and station that you would like to listen to (1-30). Press the rotary control to 'Select.' The radio will instantly tune to that station and begin to play.

Note: If no DAB station has been stored under the preset button, 'Preset Empty' will be displayed, then the radio will revert to the previously selected radio station after a few seconds.

DAB display information

When listening to a DAB station you can change the information that will appear on the display. There are several different types of information that are sent by the broadcaster.

- Dynamic Label Segment (DLS)

    This is scrolling text information supplied by the broadcaster. Information could be the name of an artist or music title, DJ's name, contact details for the radio station etc.

- Signal Strength

    An empty □ will appear on the display to indicate the minimum signal strength for acceptable listening. The row of solid rectangles indicate the actual signal strength that you are receiving. The stronger the signal, the further to the right the row of solid rectangles
    will be.

- Program Type (PTY)

    Such as 'Rock', 'Pop', Talk' or 'News'

- Multiplex Name

    Displays the broadcasting area and collection of radio stations on this frequency e.g.: BBC National DAB, Digital 1 Network.

- Channel and Frequency

    e.g.: 12B 225.648 MHz

- Signal error

    This is displayed as a number between 0-99. It would not be possible to satisfactorily listen to a ratio station with a signal error rate of 30 or above. Try adjusting the aerial or relocating your radio to improve reception.

- Signal information

    The data rate at which the signal is being transmitted.

- Time and date

    Supplied by the broadcaster.

1. Repeatedly press and release the 'Info' button on the front of the Radio to cycle through the different information options.

Dynamic range control (DRC)

In DAB mode:

The dynamic range for each radio programme is set by the broadcaster for each radio station and may be different for the types of programme broadcast, such as pop or classical music or a chat show. The dynamic range control signal is transmitted in parallel with the audio signal for each programme and with your radio you can use this control signal to expand or compress the dynamic range (the difference between the loudest and quietest sounds) of the reproduced audio signal. Changing the dynamic range can affect the 'loudness' and/or 'quality of sound' of the programme that you hear so that it will be more suited to your listening conditions and your own personal listening requirements. e.g. in a noisy environment, where quiet sounds might be swamped, setting the compression to maximum will 'boost' the quiet sounds, whilst keeping the loudest sounds at their original level.

There are 3 levels of compression:

- DRC off: no compression. This is the default setting.
- DRC low: medium compression.
- DRC high: maximum compression.

1. Press and release the 'Menu' button, and use the 'Tune/Select' rotary control to scroll to '<DRC>'.
2. Press the rotary control to 'Select'. The current DRC setting will have an '*' next to it.
3. Use the rotary control to scroll through the options and press the rotary control to confirm.
4. Press and release the 'Menu' button to return to the station display.

Using the FM radio

Telescopic aerial

Please make sure that the aerial on the top of the Radio is fully extended before you attempt to tune to an FM station. This will ensure that the maximum signal strength is available when the Radio begins to scan. Extending the aerial also ensures the best possible sound quality.

FM Radio mode

Check that your Radio is in FM radio mode. If you are not already in FM mode, briefly press and release the 'DAB/FM' button until you are in FM mode (check the display). The DAB/FM button can be found on the front of the radio, underneath and to the right of the display.

When your radio is in FM mode it can receive Radio Data System or 'RDS' information if this is being transmitted by the broadcaster. RDS information will often include the station name, detail about the programme and the current time.

If you were listening to an FM station when you switched the Radio off then this station will be automatically selected when you switch the Radio back on.

Tuning to an FM station

In FM mode:

1. Press and release the 'Scan' button on the front of the radio to scan up the frequency band. Your Radio will search for the next available station and then stop on that station.

2. Use the 'Tune/Select' rotary control to fine tune each frequency in 0.05MHz steps, if necessary.

    Note: If reception is still poor check that the aerial is fully extended or try moving the Radio to another location.

Changing the scan setting

In FM mode:

1. Press and release the 'Menu' button. '<Scan setting>' is displayed. Press the 'Tune/Select' rotary control to 'Select'. There are now two different options to choose from and the current setting will have an '*' next to it.

•   Strong stations

    The scan will only stop when a strong signal strength is received which should also result in a better audio quality.

    It is possible that the station you are scanning for may be missed using this option.

- All stations

  The scan will stop for every station it receives, even if the signal strength is poor.

2. Use the 'Tune/Select' rotary control to scroll and choose from the two options available and press to 'Select'.

3. Press and release the 'Menu' button to return to the station display.

Audio mode

The radio will automatically switch between Stereo and Mono, depending on the quality of the signal being received but you can override this function and manually switch between 'Stereo' and 'Mono'.

1. Press and release the 'Menu' button and use the 'Tune/Select' rotary control to scroll to '<Audio setting>'. Press the rotary control to 'Select'.

2. There are now two different options of 'Forced mono' and 'Stereo allowed' and the current setting will have an '*' next to it.

3. Use the 'Tune/Select' rotary control to scroll and choose from the two options available and press to 'Select'.

4. Press and release the 'Menu' button to return to the station display

Storing an FM station preset

Your Radio can store up to 30 FM radio stations in its preset memories for instant access to your favourite stations.

1. Tune the Radio to the FM radio station that you wish to preset.

2. Press and hold the 'Preset' button for approximately 2 seconds until 'Preset store' is displayed.

3. Use the 'Tune/Select' rotary control button to scroll to the preset location that you would like to store the radio station to (1-30).

4. Press the rotary control to 'Select', the display will confirm 'Preset X stored', where 'X' is the number of the preset (1-30).

   Note: If there is already an existing FM station stored under a preset, it will be over written when you store the new station.

Tune to an FM station preset

In FM mode:

1. Press and release the 'Preset' button. 'Preset Recall' is displayed together with the number of the current preset location.

2. Use the 'Tune/Select' rotary control to scroll to the Preset location and station that you would like to listen to (1-30). Press the rotary control to 'Select.' The radio will tune to that station and begin to play.

Note: If no FM station has been stored under the preset button, 'Preset Empty' will be displayed, then the radio will revert to the previously selected radio station after a few seconds.

FM display information

When listening to an FM station you can change the information that will appear on the second line of the display. There are several different types of information that are sent by the broadcaster.

- Radiotext (RT)

  This is scrolling text information supplied by the broadcaster. Information could be the name of an artist or music title, DJ's name, contact details for the radio station etc.

- Program Type (PTY)

  Such as 'Rock', 'Pop', Talk' or 'News'

- Station name or frequency

  Such as BBC R4 or 93.30MHz

- Audio mode

  The radio will automatically switch between Stereo and Mono, depending on the quality of the signal being received but you can override this function and manually switch between 'Stereo' and 'Mono'. Please refer to 'Audio Mode' on page 14.

- Time and date

  Supplied by the broadcaster.

1. Repeatedly press and release the 'Info' button on the front of the Radio to cycle through the different information options.

Using the Alarm

Setting an alarm

Note: Check that the radio has the correct time and date before you set an alarm.

There are 2 alarm settings available.

1. Press and release the 'Alarm' button, 'Select Alarm <1> 2' is displayed. Use the 'Tune/Select' rotary control to scroll to Alarm 1 or Alarm 2 and press to 'Select'.

2. 'Alarm status ON <OFF>' is displayed. Use the 'Tune/Select' rotary control to scroll to ON or OFF and press to 'Select'.

3. 'Alarm on hour' is displayed and the hour digits for the alarm will flash. Use the rotary control to scroll to the hour for the alarm. Press the rotary control to 'Select'.

4. 'Alarm on minutes' is displayed and the minutes for the alarm will flash. Use the rotary control to scroll to the minutes for the alarm. Press the rotary control to 'Select'.

5. 'Alarm duration ' is displayed. Use the rotary control to scroll to the duration for the alarm. You can choose from 15, 30, 45, 60 and 90 minutes. Press the rotary control to 'Select'.

6. Use the rotary control to scroll to the frequency for the alarm. You can choose from Once, Daily, Weekdays and Weekends. Press the rotary control to 'Select'.

7. Use the rotary control to scroll to the sound source for the alarm. You can choose from BUZZER, DAB or FM. Press the rotary control to 'Select'.

8. 'Alarm Set OK' is displayed and a clock icon together with the digit '1' or '2' will appear in the bottom left of the display to confirm that an alarm has been set.

    Note: The alarm volume will increase progressively until it reaches the same volume that you have set for the radio.

Stop the alarm

When the alarm sounds press and release the 'Power' button. Alternatively, you can press and release the 'Snooze' button to 'Snooze' (see Snooze function below).

Note: If you press the 'Power' button to stop the alarm, the alarm symbol will remain in the display and the alarm will sound again at the same time the next day unless it was set for 'Once' only.

Snooze

When the alarm sounds press and release the 'Snooze' button to Snooze. The radio will return to standby mode and 'Snooze' will flash in the bottom left of the display. The alarm will sound again in approximately 9 minutes.

Turn off the alarm

Follow the steps for 'Setting an Alarm' on page 16 and select 'OFF' in step 2.

Sleep timer

You can set your Radio to turn off automatically using the sleep timer. You can choose from 90, 80, 70, 60, 50. 40, 30, 20 and 10 minutes or Sleep OFF.

With your Radio on:

1. Repeatedly press and release the 'Sleep' button on the front of the Radio, until the sleep time you would like is displayed.
2. 'SXX' is displayed in the bottom left of the radio display, where XX is the sleep time that you have selected, and will count down the minutes until your radio switches off.

Cancel the Sleep timer

1. Press and release the 'Sleep' button on the front of the Radio until 'OFF' is displayed.

Menu system settings

Manually set the time

In Standby mode:

1. Press and release the 'Menu' button to enter the settings menu.

2. You will see '<Set the time>' at the top of the list. Press and release the rotary 'Tune/Select' control to select.

3. 'Set the time' is displayed and underneath this the hour digits will flash. Use the rotary 'Tune/Select' control to scroll to the correct hour. Press to 'Select'.

4. The minutes will now flash. Use the rotary 'Tune/Select' control to scroll to the correct minutes. Press to 'Select'.

5. The settings menu will now be displayed again. Press and release the 'Menu' button to return to the standby clock display.

Manually set the date

In Standby mode:

1. Press and release the 'Menu' button to enter the settings menu.

2. Use the 'Tune/Select' rotary control to scroll to '<Set the date>'. Press and release the rotary 'Tune/Select' control to select.

3. 'Set the date' is displayed and underneath this the day digits will flash. Use the rotary 'Tune/Select' control to scroll to the correct day. Press to 'Select'.

4. The month digits will now flash. Use the rotary 'Tune/Select' control to scroll to the correct month. Press to 'Select'.

5. The year digits will now flash. Use the rotary 'Tune/Select' control to scroll to the correct year. Press to 'Select'.

6. The settings menu will now be displayed again. Press and release the 'Menu' button to return to the standby clock display.

Contrast control

You can adjust the display contrast, there are 5 options available.

In Standby mode:

1. Press and release the 'Menu' button to enter the settings menu.

2. Use the 'Tune/Select' rotary control to scroll to '<Contrast control>'. Press and release the rotary 'Tune/Select' control to select.

3. 'Contrast control' and underneath this, the current setting (1-5) is displayed. Use the rotary 'Tune/Select' control to adjust the contrast. Press to 'Select'.

4. The settings menu will now be displayed again. Press and release the 'Menu' button to return to the standby clock display.

Software version

In Standby mode:

1. Press and release the 'Menu' button to enter the settings menu.

2. Use the 'Tune/Select' rotary control to scroll to '<MCU SW Version>'. Press and release the rotary 'Tune/Select' control to display the software version.

3. Press and release the 'Menu' button to return to the standby clock display.

Display language

You can change the display language of your radio, there are 4 options available; English, French, German and Italian. The current setting will have an '*' in the top right of the display.

Your radio must be switched on (not in Standby mode) when you change the display language.

1. Press and release the 'Menu' button.

2. Use the 'Tune/Select' rotary control to scroll to '<System>'. Press the rotary control to 'Select'.

3. Use the 'Tune/Select' rotary control to scroll to '<Language>'. Press the rotary control to 'Select'.

4. Use the rotary control to scroll to the display language you would like. Press the rotary control to 'Select'.

5. Note: As soon as you select a different display language, all of the display information will be in this new language.

6. Press and release the 'Menu' button to return to the station display.

Factory reset

You can reset your radio and restore all of the original factory settings.

Note: If you reset your radio all of your DAB and FM station presets will be deleted.

1. Press and release the 'Menu' button.

2. Use the 'Tune/Select' rotary control to scroll to '<System>'. Press the rotary control to 'Select'.

3. Use the 'Tune/Select' rotary control to scroll to '<Factory Reset>'. Press the rotary control to 'Select'.

4. 'Factory Reset? <No> Yes' will be displayed. Use the rotary control to scroll to '<Yes>'. Press and release the rotary control to confirm.

5. There will be a short delay and then 'Scanning...' will be displayed whilst your radio automatically scans for DAB stations.

A progress bar will show the progress of the scan and the number of stations found during the scan will also be displayed.

When the scan is complete your radio will select the first available station and begin to play. Stations are listed in numerical and then alphabetical order by default.

Troubleshooting

If you are experiencing problems with your Radio, there are some quick and easy checks that you can do, which may help to solve the problem.

Problem	Solution
No sound / power:	• Adjust the volume using the rotary control. • If you have batteries fitted, they may be exhausted and need to be replaced. Please use only good quality C size batteries. • Check that the mains power lead is connected at the back of the radio and the mains power wall socket is switched on. • Check that the Radio is not in Standby mode. Press and release the 'Power' button to power on the Radio. • You may need to re-scan if the station you last listened to is no longer available.
Radio reception is poor:	• Fully extend the aerial to get the best reception and sound quality. • Retune for radio stations, see pages 9 and 13. • Try moving your Radio to another location to see if reception improves. • Check that you do not have other electrical equipment too close to your Radio, causing interference. • Visit www.digitalradionow.com for information about DAB reception in your area.

Problem	Solution

The function buttons do not respond:

- Check that the mains power lead is connected at the back of the radio and the mains power wall socket is switched on.
- Check that the Radio is not in Standby mode.   Press and release the 'Power' button to power on the Radio.
- Check that you are trying to use the function buttons for the mode that you are in.
- If you are using batteries, they may be exhausted and need to be replaced.
- Unplug the mains power and remove the batteries. Leave the Radio for 3 minutes and then reconnect the power.
- Try a reset to factory defaults. See page 19.

    Note: All of your settings, including the radio station list and any presets will be deleted when you reset the Radio.

General information

This symbol ⬚ indicates that this product should not be treated as normal household waste and it should be recycled. Please take it to your nearest collection facility or for further details contact your local council or visit www.recycle-more.co.uk

Batteries contain substances that may be harmful to the environment and human health. Keep out of the reach of children and seek immediate medical help if swallowed.

This symbol ⬚ indicates that batteries should not be disposed of in the normal household waste but taken to appropriate local recycling facilities, where and when these are available.

Never throw batteries in a fire or attempt to open the outer casing

BUSH

PRODUCT GUARANTEE

This product is guaranteed against manufacturing defects for a period of

1

Year

This product is guaranteed for twelve months from the date of original purchase.

Any defect that arises due to faulty materials or workmanship will either be replaced, refunded or repaired free of charge where possible during this period by the dealer from whom you purchased the unit.

The guarantee is subject to the following provisions:

- The guarantee does not cover accidental damage, misuse, cabinet parts, knobs or consumable items.
- The product must be correctly installed and operated in accordance with the instructions contained in this manual.
- It must be solely for domestic purpose.
- The guarantee will be rendered invalid if the product is re-sold or has been damaged by inexpert repair.
- Specifications are subject to change without notice.
- The manufacturer disclaims any liability for the incidental or consequential damages.

The guarantee is in addition to and does not diminish your statutory or legal rights.

Guarantor: Argos Ltd.,

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Central Milton Keynes

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