

USER MANUAL

DIGITAL ALARM CLOCK RADIO



DAB+ / FM
Radio



Bluetooth /
NFC Connect



Fast Charge
USB Port

Contents

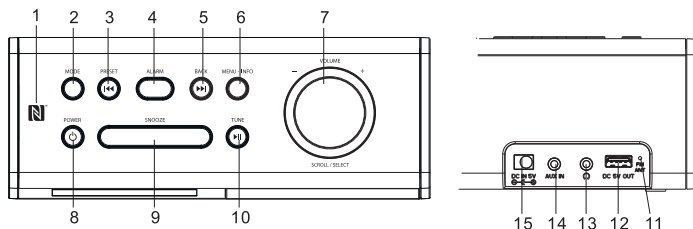
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Thank you for purchasing this BUSH DAB+/FM clock radio. Please read the instructions and warnings carefully before use, to ensure safe and satisfactory operation of this product.

Important Safety Information

- This product is only intended for audio entertainment. Do not use the product for any other purpose than described in this manual in order to avoid any hazardous situation. Improper use is dangerous and will void any warranty claim.
- For household use only. Do not use outdoors.
- **Danger!** Excessive sound pressure from earphones and headphones can cause hearing loss. If you listen to loud music for a long time, your hearing may be impaired. Set to a moderate volume.
- **Danger of suffocation!** Keep all packaging material away from children.
- Only use under normal room temperature and humidity conditions.
- The product is only suitable for use at moderate degrees of latitude. Do not use in the tropics or in particularly humid climates.
- Outdoor antennas should be located away from power lines.
- Do not move the product from cold into warm places and vice versa. Condensation can cause damage to the product and electrical parts.
- Do not use attachments or accessories other than recommended by the manufacturer or sold with this appliance. Install in accordance with this user manual.
- When installing the product, leave sufficient space for ventilation. Do not install in bookcases, built-in cabinets or the like.
- Do not install near any heat sources such as radiators, heat registers, stoves or other appliances (including amplifiers) that produce heat.
- Do not apply excessive force to the front or top, as this could ultimately overturn the product.
- Do not shift or move the product when powered on.
- Do not touch, push or rub the surface of the product with any sharp or hard objects.
- **Danger!** To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.
- The product should not be exposed to dripping or splashing and no objects filled with liquids, such as vases, should be placed on the product.
- No naked flame sources, such as lighted candles, should be placed on the product.
- Before connecting the product to a socket outlet, make sure the voltage indicated on the product corresponds to your local mains.
- Never pull the adaptor power plug by the supply cord or with wet hands.
- Disconnect the adaptor power plug in case of faults during use, during lightning storms, before cleaning and when not using the product for a longer period of time.
- **Danger!** Before cleaning, switch the product off and disconnect the adaptor power plug from the socket.
- When the product has reached the end of its service life, make it defective by disconnecting the adaptor power plug from the socket and cutting the cord in two.

Parts



- | | |
|--|---|
| 1. NFC chip | 9. SNOOZE button |
| 2. MODE button | 10. TUNE button (PLAY/PUASE button in Bluetooth mode) |
| 3. PRESET button (BACKWARD button in Bluetooth mode) | 11. Antenna |
| 4. ALARM button | 12. USB output (5V/2A) |
| 5. BACK button (FORWARD button in Bluetooth mode) | 13. Headphone jack (3.5mm) |
| 6. MENU / INFO button | 14. Audio-IN (AUX IN) |
| 7. VOLUME button / Scroll / SELECT rotary dial | 15. DC input (5V/3A) |
| 8. POWER button | |

Accessories

- 1 x Power adaptor
- 1 x Instruction manual
- 1 x Warranty booklet

STANDBY MODE

When the power is connected for the first time, the radio will enter standby mode. Display will show the 'Time is not set' and the clock will flash '00:00'



TURNING YOUR RADIO ON FOR THE FIRST TIME:

When the radio is switched on for the first time it will automatically go into DAB mode. The radio will display 'Scanning' on the screen and a bar will show the scanning progress. The number on the right of scanning shows how many channels are found.



DAB RADIO MODE

In this mode, the radio receives a digital signal and displays information about the radio station, music title, etc.

1. Press <POWER> to turn on. Then press the <MODE> button to select 'DAB MODE' on the display.



Note: If no DAB reception is currently available, change the position of your device or adjust the aerial. Press and hold the <MENU / INFO> button to enter the menu. Turn the rotary button to select 'Full scan' and press the <SCROLL/SELECT> button to confirm, this will start a new search.



2. In DAB mode, turn the rotary button to navigate through the available DAB channels. First press the 'TUNE' button, and turn the rotary dial to select a channel from the list, press the <SCROLL/SELECT> dial to confirm.

3. Short press the <INFO> button for more information about your DAB station. Information such as:

- DLS (Dynamic Label Segment) – scrolling text
- Signal Strength
- PTY (Programme Type)
- Ensemble
- Frequency
- Signal quality
- Bitrate codec
- Time
- Date

4. For additional settings in DAB radio mode, press and hold the <MENU / INFO> button. Once an option is displayed, let go of the <MENU / INFO> button. Turn the rotary dial to select any of the following choices and press the <SCROLL/SELECT> dial to confirm.

To access these options your radio must be switched “ON”. If your radio is not ON, press the Power button to switch it ON.

- **Full Scan:** Automatic channel search of all available channels.

You can use this function to refresh your channel list or to scan for new available stations.



Press and hold the <MENU / INFO> button, release once an option is available on the screen. Turn the rotary dial to select 'Full scan' and press once to confirm. Your radio will start scanning now.



- **Manual tune:** Frequencies can be manually selected

As well as the normal method of scanning, you can also manually tune to a particular channel/frequency. This can be useful for adjusting your antenna to achieve the best possible reception and scanning a particular channel to update the station list.



Press and hold the <MENU / INFO> button, release once an option is available on the screen. Turn the rotary dial to select 'Manual tune' and press once to confirm. Then turn the rotary dial again to select a particular frequency option and press <SCROLL/SELECT> button to confirm.



- **DRC (Dynamic Range Control):** Adjust and change the dynamic range
This function reduces the difference between the loudest and quietest audio being broadcast. Effectively, this makes quiet sounds comparatively louder and loud sounds comparatively quieter.



Press and hold the <MENU / INFO> button, release once an option is available on the screen. Turn the rotary dial to select 'DRC' and press once to confirm. Then turn the rotary dial again to select <off (default) / high / low> and press <SCROLL/SELECT> dial to confirm.



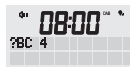
Note: DRC only works if it is enabled by the broadcaster for a specific station.
DRC is embedded in the broadcast.

- **Prune:** Removes all invalid channels from the channel list

This removes all invalid station indicated in the station list with a '?' in front of the station name.



Note: Invalid stations are stations that are either no longer available because you have moved to a new area or the station no longer exists and may have gone out of service.



Press and hold the <MENU / INFO> button, release once an option is available on the screen. Turn the rotary dial to select 'Prune' and press once to confirm. Then turn the rotary button again to select <Yes> and press <SCROLL/SELECT> dial to confirm.



FM RADIO MODE

This allows you to tailor the DAB/FM radio with a variety of options to suit you.

1. Press <POWER> to turn on. And press the <MODE> button to select FM on the display.
2. Press the <TUNE> button and turn the rotary dial to search through the entire frequency band, then press <SCROLL/SELECT> dial to confirm.
Or for an automatic search, press and hold down <SCROLL/SELECT> dial for a short period until the scan starts, then release. The radio will keep on searching and stop on an available station. Repeat to move the next available station.



3. Short press the <INFO> button for more information about your FM station.
Information such as:

- Radio text
- PTY (Programme Type)
- Frequency
- Stereo / Mono
- Time
- Date

4. For additional settings in FM radio mode, press and hold the <MENU / INFO> button, release once an option is available on the screen. Turn the rotary dial to select the following options and press to confirm.

- **Scan setting:** FM scans stop at available station. If choosing scan at all station, this may result in poor quality audio from weak stations.

Press and hold the <MENU / INFO> button, release once an option is available on the screen. Turn the rotary button to select 'Scan setting' and press once to confirm. Then you can select 'Strong station only' (default) / 'All station' and press <SCROLL/SELECT> button to confirm.



- **Audio setting:** By default, all stereo stations are reproduced in stereo. For weak stations, this may result in poor quality audio and static. The audio quality can be improved using mono.

Press and hold the <MENU / INFO> button, release once an option is available on the screen. Turn the rotary button to select 'Audio setting' and press once to confirm. Then select 'Stereo allowed' or 'Forced mono' and press <SCROLL/SELECT> dial to confirm.



OPERATION IN VARIOUS MODES

AUX IN

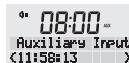
This mode allows you to use the radio as a speaker for an external device (e.g. mobile phone, MP3 player or tablet).

Press the Power button to turn your unit ON.

Press the <MODE> button several times until 'Auxiliary Input' is shown on the display. The device is now in AUX IN mode.

1. Connect your external device to the back socket at the radio.
2. Play a track on your external device to hear sound.
3. Use the volume dial on the radio to adjust the volume accordingly.

Note: You may need to adjust sound on your external device as required.



BLUETOOTH PLAYBACK MODE

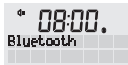
This mode allows you to use the radio as a speaker for an external Bluetooth Compatible device (e.g. mobile phone or MP3 player). The signal is transmitted wirelessly via Bluetooth.



Note: Before playback, you must pair the radio (in this case the Bluetooth receiver) and the device (transmitter).

Press the power button to turn your radio ON.

Press the <MODE> button several times until 'Bluetooth' is shown on the display. The device is now in Bluetooth mode.



1. Turn on Bluetooth on your external device.
2. Pair your external device with '**BCR40DABT**'. The devices will now be connected.
3. Play a track on your external device to hear sound.
4. Use the volume dial on the radio to adjust the volume accordingly.

Note: You may need to adjust sound on your external device as required.

COMPATIBILITY

This product is compatible with Bluetooth enabled mobile phones and music devices. It features Bluetooth version 4.0. It also works with devices featuring other Bluetooth versions that support e.g.

Wireless stereo listening – A2DP (Advanced Audio Distribution Profile)

Wireless music control – AVRCP (Audio/Video Remote Control Profile)

PLAYBACK DEVICES WITH NFC

Your radio has an NFC touch point to enable quick and easy Bluetooth pairing with other NFC enabled devices. In Bluetooth mode, just touch your other NFC enabled device to the NFC logo on the top of your radio to pair.



Press the power button to turn your radio ON.

1. Press the <MODE> button until 'Bluetooth' appears on the display. The device is now in Bluetooth mode.
2. If your playback device has an NFC chip, turn on NFC and Bluetooth on your playback device
3. Place your playback device's NFC chip near the NFC chip on the radio. A Bluetooth connection between both devices will be automatically established.
4. Begin playback.
5. To end the Bluetooth connection, once again place your playback device's NFC chip next to the NFC chip on the radio. The connection and playback through the radio will be suspended.

ALARM SETTINGS

The digital clock radio has 2 alarm functions that can be activated together for 2 different alarm settings (Alarm 1 and Alarm 2) or you may wish to activate one alarm at a time. Once an alarm is activated you will find the alarm icons displayed on the front display. Note that you have approximately 60 seconds between each selection before the alarm is automatically cancelled by the clock radio and you have to start again.

ALARM SET UP

1. Turn ON your digital clock radio.
2. Press the <ALARM> button to select alarm 1 or press the <Alarm> button again to select Alarm 2. Press <SCROLL/SELECT>.
3. Use the rotary dial to select alarm “On” or “Off”, press the <SCROLL/SELECT> dial to confirm your selection.
4. The clock radio will display the time screen and the hour part will flash. Turn the rotary button to set the hour for your alarm, then press <SCROLL/SELECT> to confirm.
5. Next the Minute part will flash. Turn the rotary button to set the minute for the alarm, then press <SCROLL/SELECT> to confirm.



Note: If your time is set to 24hr mode in the menu settings move straight to point 6. However if your time is set to 12hr mode(AM/PM) you will need to turn the rotary button to select the desired preference, then press <SCROLL/SELECT> to confirm.

6. Use the rotary dial to set the duration of how long you would like the alarm to stay on before it automatically turns off. The options are 15/30/45/60/90/120 minutes, then press <SCROLL/SELECT> to confirm.
7. The “source” function allows you to select what sound will be emitted when the alarm is activated. Turn the rotary dial to select between BUZZER/DAB/FM, then press <SCROLL/SELECT> to confirm.



Note: If you select DAB or FM in the source mode radio will display an option of “Last listened” or any preset stations if you have them set. You can wake up to the last listened to radio station if that is what is selected or you can select a preset station to wake up to if you have these previously set.



8. The alarm frequency option allows you to select when you would like the alarm to repeat, options are DAILY/ONCE/WEEKENDS/WEEKDAYS. Use the rotary dial to select the desired frequency, then press <SCROLL/SELECT> to confirm. Note that a “ONCE” selection will prompt you to enter your desired date of when the alarm needs to be activated.



9. The final step will display a bar graph of how loud you would like the alarm to sound when activated. The alarm is incremental and will reach the desired volume set. Use the rotary button to select the desired volume, then press <SCROLL/SELECT> to confirm.



10. The clock radio will display “Alarm Saved” and the icon will be displayed on the front screen.



Note: During the process of the alarm setting, pressing the alarm button once will exit the alarm setup. You may also press the <BACK> button to move back through the settings if a change needs to be made.

TURNING THE ALARM/S ON/OFF

This function allows you to turn off/on individual alarms with a simple press of a button.

1. Press the <POWER> button to switch off the clock radio – **Standby mode**
2. Press the <ALARMS> button. With each press you can select between (Alarm 1:On & Alarm 2:On) / (Alarm 1:Off & Alarm 2:Off) / (Alarm 1:On & Alarm 2:Off) / (Alarm 1:Off & Alarm 2:On)
3. Select your desired function and then press <SCROLL/SELECT> to confirm.

STOP THE ALARM

You can stop the alarm by pressing the <ALARM> or <POWER> button. The screen will show “ALARM OFF”. The radio will go to standby mode.

SNOOZE FUNCTION

Press the <SNOOZE> button when the alarm has sounded. This will display the snooze time. The snooze time can be set to 5, 10, 15 or 30 minutes, with each press of the snooze button. The alarm icon will continue to flash. The screen will show a countdown.

When the radio alarm starts sounding again, you can press the <ALARM> or the <POWER> button to stop it or you can press the <SNOOZE> button to set the snooze time again.

HOW TO SET PRESET IN DAB OR FM

Your radio can store up to 10 DAB+ and 10 FM radio stations in its preset memory for instant access to your favorite stations.

Note: When you store DAB+ preset stations, these do not overwrite your FM station presets.

1. Tune the radio to the station you want to store. Press and hold the <PRESET> button. Once “Preset Store” is displayed, release the button.
2. Turn the rotary dial to select the number where you want to save the station to (1-10).
3. Press the <SCROLL/SELECT> dial to lock in the selection.



RECALL A STATION FROM THE PRESET LIST

1. Press the <PRESET> button to retrieve the preset list.
2. Turn the rotary dial until you have found the preset number you are looking for.
3. Press <SCROLL/SELECT> to retune the radio to the selected radio station.



Note: If you choose a preset that has not been stored, “(Empty)” will be shown on the LCD display.

SYSTEM SETTINGS

For additional system setting in DAB and FM radio mode, whilst the unit is “ON” you can press and hold the <MENU / INFO> button. Turn the rotary button to select the following choices and press the <SCROLL/SELECT> button to confirm.



EQUALISER

The sound settings can be accessed in each mode.

1. Press and hold the <MENU / INFO> button, release once an option is available. Using the rotary dial go to ‘System’ in the display and press <SCROLL/SELECT>.
2. Scroll through the ‘System’ menu and turn the rotary dial until you reach ‘Equalizer’ and confirm by pressing the <SCROLL/SELECT> button.



Available equalizer settings are:

- i) Normal, Classic, Jazz, Pop, Rock, Speech
 - a) Select the desired equalizer setting using the rotary dia.
 - b) Press the <SCROLL/SELECT> dial to lock in your setting.

ii) 'My EQ...': here you can individually adjust the treble and bass and loudness to your personal liking. Then press <SCROLL/SELECT> to confirm your selection.

- a) To adjust treble, turn the rotary dial to select from '-7' to '+7', press select to lock in your treble setting.
- b) To adjust bass, turn the rotary dial to select '-7' to '+7', press select to lock in your treble setting.
- c) To adjust loudness, turn the rotary dial to select 'Yes' or 'No', press the <SCROLL/SELECT> dial to lock in your setting.



3. Once you are finished, press the <BACK> button several times to exit settings mode.

TIME

In this section you can set the time and date manually.

Press the power button to turn your radio ON.

1. Press and hold the <MENU / INFO> button, release once an option is available on the display. Using the rotary button switch to 'System' in the display and confirm by pressing the <SCROLL/SELECT> button.



2. Using the rotary dial, scroll through the 'System' menu until you reach 'Time' and confirm by pressing the <SCROLL/SELECT> button.



3. Choose the required sub-menu and confirm by pressing the <SCROLL/SELECT> button.



- **Set 12/24 hour mode:** Use this menu to change the clock from 12 to 24 hours display.

Select 'Set 12/24 hours' and press the <SCROLL/SELECT> dial to open the menu. Use the <SCROLL/SELECT> dial to select from 'Set 12 hour' or 'Set 24 hour' [using the rotary dial, press the dial in to confirm]

- **Auto update:** Use this menu to select the source the time will automatically be updated from.

Select 'Auto update' and press the <SCROLL/SELECT> dial to open the menu. Use the <SCROLL/SELECT> dial to select from **Update from any / Update from DAB+ / Update from FM / No update**. Use the rotary dial to select the setting you want to use then press the dial in to confirm.



- **Set date format:** Use this menu to change the layout of the date format.

Select date format and press the <SCROLL/SELECT> dial to open the menu. Use the <SCROLL/SELECT> dial to select from **DD-MM YYYY** or **MM-DD-YYYY** using the rotary dial, press the dial in to confirm.



- **Set Time/Date:** Select 'Set Time/Date' and press the <SCROLL/SELECT> dial to open the menu. Use the rotary dial to set the hour then press the dial in to confirm. Repeat the process for the minutes, day, month and finally the year. Once "year" has been entered, press the <SCROLL/SELECT> dial. The radio will display the time and date you have entered on the front display.



4. Press the <BACK> button multiple times to exit settings mode.

BACKLIGHT

Set the brightness at the screen in 'Standby' mode or 'ON' mode.

NOTE: While using the buttons and the dial on your radio the screen brightness will be on maximum. Once no buttons are pressed and after the set "Timeout" the radio will revert to your preferred backlight level.

Press the power button to turn your radio ON.

1. Press and hold the <MENU / INFO> button, release once an option is available on the display. Turn the rotary dial until 'System' appears in the display and confirm by pressing <SCROLL/SELECT>.
2. Scroll through the 'System' menu and turn the rotary button until you reach 'Backlight' and confirm by pressing the <SCROLL/SELECT> button.
3. You can set settings for 'Timeout', 'On level', 'Dim level'



Timeout: This is the time after which your screen will change brightness.

Turn the rotary dial, choose from below options and confirm by pressing the <SCROLL/SELECT> button. **Timeout options: On, 10, 20, 30, 45, 60, 90, 120, 180 sec**



On level: This is the brightness level that will be displayed when the radio is "ON".

There are five brightness options to the display, from '1' (lowest) to '5' (strongest). Using rotary dial, choose between '1' to '5' and confirm by pressing the <SCROLL/SELECT> button.



Dim level: This is the brightness level that will be displayed when the radio is "OFF" or in Standby.

There are five brightness options to the display, from '1' (lowest) to '5' (strongest). Using rotary button, choose between '1' to '5' and confirm by pressing the <SCROLL/SELECT> button.



4. Press the <BACK> button multiple times to exit settings mode.

FACTORY RESET

This section allows you to restore your radio to all original factory settings.

Press the power button to turn your radio ON.

1. Press and hold the <MENU / INFO> button, release once an option is available on the display. Turning the rotary dial until 'System' appears in the display and confirm by pressing <SCROLL/SELECT>.
2. Scroll through the menu using the rotary dial until you reach 'Factory Reset' and confirm by pressing <SCROLL/SELECT>.
3. Using the rotary button, choose <Yes> and confirm by pressing <SCROLL/SELECT> to enter 'Restarting ...'. After which the radio will perform a reset and restart.

Note: Factory reset will erase all station lists, setting and station presets previously stored.



SOFTWARE VERSION

You can check the current software version here.

Press the power button to turn your radio ON.

1. Press and hold the <MENU / INFO> button, release once an option is available on the display. Turning the rotary dial until 'System' appears in the display and confirm by pressing <SCROLL/SELECT>.
2. Scroll through the menu using the rotary dial until you reach 'SW version' and confirm by pressing <SCROLL/SELECT>.

This will display the correct version of software on your product.

Note: This software version is only used by Bush customer service and repair workshops.



TROUBLE SHOOTING

Problem	Cause	Solution
FM: Hiss	Low signal strength	Check/move antenna
DAB+: Burbling/intermittent cut-out		Move radio Rescan local (high-strength) stations only
DAB+: 'No station available' message		Check/move antenna Move radio Rescan local (high-strength) stations only Visit www.digitalradioplus.com.au to see if your area receives "good" DAB coverage.
Unable to pair with a Bluetooth device		- Check that your radio is in Bluetooth mode, check that 'Bluetooth' is displayed and also ensure that the device you are trying to pair has Bluetooth switched on. - Ensure that you are within range of the radio for Bluetooth functionality (less than 10 meters, line of sight). - Ensure that any previously 'paired' devices have been disconnected. - If possible, turn off other nearby Bluetooth devices or disable their Bluetooth functionality.
No Sound		- Adjust the volume using the rotary control. - You may have headphones connected. Either use the headphones to listen to your radio or unplug the headphones. - Check that the mains power lead is connected at the back of the radio and the mains power wall socket is switched on. - You may need to re-scan if the station you last listened to is no longer available.

ERROR MESSAGES

Message	Description
DAB mode	
OFF AIR	No DAB+ reception
ERR	The DAB+ signal has been interrupted
NO DAB	The listed station cannot be found
NO NAME	The current station does not broadcast an identity name
NO STATIONS FOUND	No DAB+ stations are available – check aerial
FM mode	
NO TEXT	No RDS text information is available on this station
NO PTY	No RDS program type information is available
NO NAME	No RDS station name is being broadcast
General messages	
?	LIST_INVALID

TECHNICAL SPECIFICATION

ITEMS	SPECIFICATIONS
Description:	DAB/FM/Bluetooth/NFC Digital alarm clock radio
Audio Output:	1W RMS
Frequency ranges:	FM: 87.5-108MHz; DAB: 174-240MHz
Bluetooth	Version 4.0 (A2DP/AVRCP)
LCD display:	High resolution display
Power Supply:	Power input: DC5V / 3A AC adapter power input: 100-240V, 50-60Hz, 0.5A max. Only use the provided adaptor
*USB- power output	DC5V/2A
Dimension (LxWxH):	210mm x 80mm x 85mm

*USB port is used for device charging. This port will NOT support external multimedia files or software updates.

CLEANING AND CARE

- Unplug the adaptor from the power socket before cleaning the unit.
- Do not let water penetrate into the unit.
- Clean the housing using a lightly dampened cloth.
- Do not use sharp, scouring or aggressive cleaners.
- Do not use chemicals (such as gasoline or alcohol) to clean the housing.



**For Customer Service and to
register your Warranty visit:
www.bushaustralia.com.au**

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.