

DAB+ ALARM CLOCK RADIO



The Gold Technical Support Line: 1902 215 259
Personal Product Support
(Charges will apply at \$2.95 per minute)

BCR31DAB

Introduction and Contents

Thank you for buying this Bush product, which is designed to give you many years of trouble-free service.

You may already be familiar with using a similar unit, but please take time to read these instructions.

They are designed to familiarise you with the unit's many features and to ensure you get the very best from your purchase.

Safety is important

Your safety and the safety of others are important.

Please therefore, ensure you read the "Safety Instructions" **before** you operate this unit.

Warranty

In the unlikely event that your product fails to work normally, please call the below free phone number to discuss the problem with one of our qualified service engineers.

Australia.

Bush Warranty: 1800 509 394

New Zealand

Bush Warranty: 0800 450 259

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Safety Instructions

Ensure that you read all of the safety instructions before using this unit.

Safety Considerations

- n Position the power cable and other connected cables so that they are not likely to be walked on, pinched or where items can be placed on or against them.
- n Do not use the unit in humid or damp conditions.
- n Do not allow the unit to get wet.
- n Never allow children to insert foreign objects into holes or slots on the unit.
- n Do not cover the ventilation with items such as tablecloths, curtains, etc. This may cause overheating.
- n No naked flame sources, such as lit candles, should be placed on or near the unit.
- n Do not expose the unit to dripping or splashing water, and no objects filled with liquids, such as vases, should be placed on or near the apparatus.
- n Do not place the unit in closed cabinet without proper ventilation.

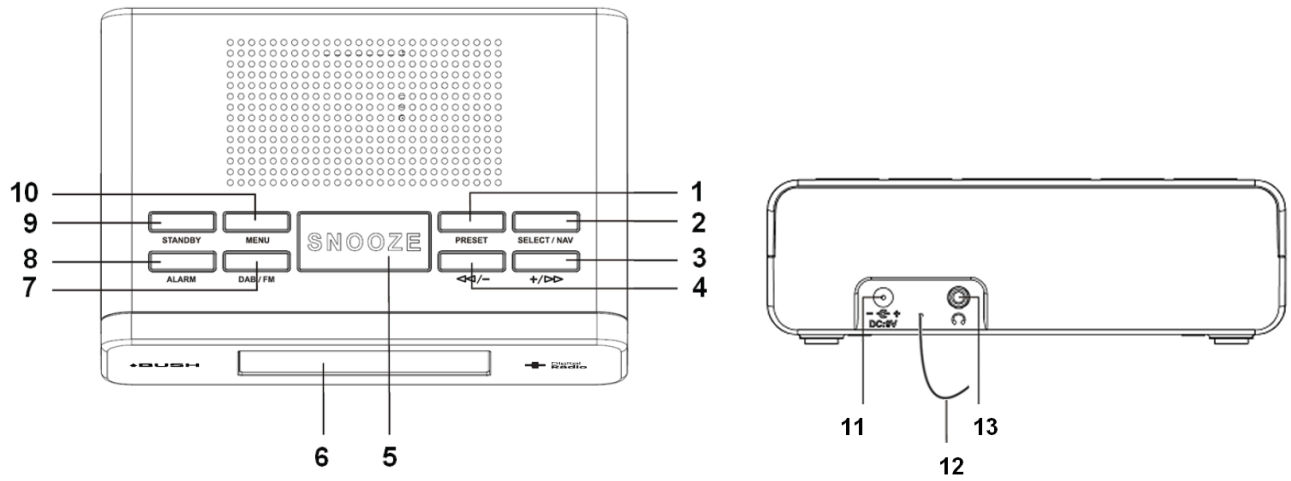
Cleaning

- n Disconnect the unit from the mains supply before cleaning.
- n Do not use any liquids or aerosol cleaners, as this may damage the unit. Use a soft, dust free cloth.

Servicing

- n There are no user serviceable parts in the unit. When servicing, refer to qualified service professional.
- n Consult your retailer if you are ever in doubt about the installation / operation / safety of the product.

Your DAB+ Radio



- | | | |
|----------------------|-------------------|--------------------|
| 1. PRESET Button | 6. LCD Display | 11. DC Jack |
| 2. SELECT/NAV Button | 7. DAB+/FM Button | 12. Aerial |
| 3. +/▶▶ Button | 8. ALARM Button | 13. Headphone Jack |
| 4. ◀◀/- Button | 9. STANDBY Button | |
| 5. SNOOZE Button | 10. MENU Button | |

Control	DAB+ and FM
STANDBY	Press the Standby Button to turn the radio on or off.
MENU	Press the Menu Button to enter the Main Menu or select other menus.
DAB+/FM	Press the DAB+/FM Button to switch between DAB+ and FM modes.
ALARM	Press the Alarm Button once, to set alarm1 and press again to set alarm2.
PRESET	Press and hold the Preset Button to enter the preset options. <i>(Note: for detail please refer page 11)</i>
SELECT/NAV	Press the Select/Nav Button to an option or confirm.
	a. Press to decrease or increase the volume level
	b. In DAB+ mode, press the SELECT/NAV Button then press the ◀◀/- or +/▶▶ Buttons to select different DAB+ stations or options.
	c. In FM mode, press the SELECT/NAV Button, then press the ◀◀/- or +/▶▶ Buttons to adjust the FM frequency, or press and hold the ◀◀/- or +/▶▶ Buttons to auto search FM Stations.
SNOOZE	a. When alarm is activated, press the Snooze Button to delay the alarm for 5 minutes. b. Press the Snooze Button to set the radio sleep time.

What is DAB+

DAB+ was developed in **Europe** by a consortium of broadcasters and manufacturers. **DAB+** uses digital compression techniques to transform the source material, i.e. music and speech, into better quality audio.

Interference free reception

Analogue systems suffer from an effect called “multipath distortion”. This is caused because waves do not behave in an orderly fashion, but bounce and reflect off buildings etc. **DAB+** sees this as an advantage and uses the direct and reflected signals to actually reinforce the end result, allowing for better service more of the time.

No need to re-tune

A single **DAB+** frequency can be used to cover the whole of the **Australia**, so solving many of the problems experienced with the earlier analogue system. **DAB+** scans automatically and tunes-in all of the available stations in your area.

Scrolling text

Broadcasters can transmit text to your radio. This way you can read the name of the DJ, artist, song title or any other information they choose.

DAB+ coverage

Check your local coverage at www.digitalradioplus.com.au, or alternatively text 0409-DRPLUS to receive an SMS confirming whether you reside in a **DAB+** broadcast area.

Getting Started

Carefully remove your **DAB+ Receiver** from the box. You may wish to store the packaging for future use.

In the Box

Inside the box you will find:

- n DAB+ Radio (Main Unit)
- n Power Adapter
- n User Guide

Positioning your DAB+ Radio

Place your **DAB+ Receiver** on a flat / stable surface that is not subject to vibrations.

Avoid the following locations:

- n Where the radio will be exposed to direct sunlight.
- n Where the radio will be close to heat radiating sources.
- n Where the humidity is high and ventilation is poor.
- n Where it is dusty.
- n Where it is damp or there is a possibility of water dripping or splashing onto unit.

Adjusting the Aerial

The aerial should be extended to ensure you receive the best reception possible in both DAB+ and FM radio modes. It may be necessary to alter the position of the **DAB+ RADIO** and /or aerial to achieve the best signal.

Using Headphones

You will require headphones fitted with a 3.5 mm diameter stereo plug. The headphone socket is located on the back of this unit. Headphones are not supplied with this **DAB+ Receiver**.

Turning the Unit On/Off

Connect the power adapter to the DC Jack on the back of the unit. Then insert the power adapter into the wall outlet. Turn the mains power on and then press the **STANDBY** Button to turn on the unit. Press the Standby Button to turn the unit to Standby.



When you turn on your radio for the first time you will be presented with this image.

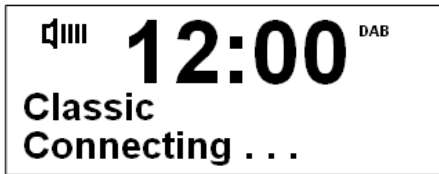
Getting Started

@ Note: When you turn on the radio it will automatically search and store all the available stations. You should conduct an additional Full Scan to ensure all stations are picked up and stored. It is also recommended every few months to run a new scan to pick up any new DAB+ that may have begun broadcasting after purchasing your DAB+ radio.

For initial use, conduct a full scan to auto search and store all DAB+ radio stations. Press the Menu Button and use the <</- or +/>> Buttons to select the Full Scan option. Press the Select/NAV Button to confirm.



The Full Scan may take you 1-2 minutes to complete, after all stations are stored you will see:



@ Note: a. The DAB+ stations will be displayed and stored in alphanumeric order. The first station in the list will begin to play.
b. If no DAB+ signal is found, it may be necessary for you to relocate your radio.

Using DAB+ Radio

To View Station Information in DAB+ Mode

Press the **MENU** Button then press the **SELECT/NAV** Button consecutively to show the different program information.

Program Type (PTY):

This is a description of the type of program provided by the DAB+ station or by the broadcaster.

Signal Strength:

Show a signal bar with the strength of the current station.

Station Name:

This will show the station that is broadcasting the program you are listening to.

Frequency:

This displays the station transmission frequency.

Signal Error:

This displays the signal error rate being received from 0 to 100.

- a. 0 means no error signal has been detected.
- b. While 100 means it is an extremely bad signal.

Signal Information:

This shows the digital bit rate and the signal mode.

Time:

This displays the time provided by the broadcaster.

Date:

This displays the date provided by the broadcaster.

Dynamic Label Segment (DLS)

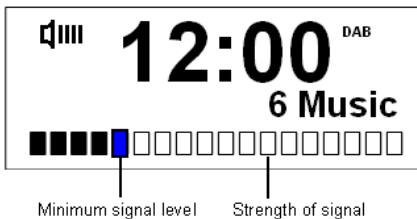
This is scrolling text information supplied by the DAB+ station or by broadcaster.



Using DAB+ Radio

To Show the Signal Strength in DAB+ Mode

1. Press the **MENU** Button during play, and 'Info' will be displayed on the screen. Then press the **SELECT/NAV** Button to confirm.
2. Press the **MENU** Button and the **SELECT/NAV** Button repeatedly until Signal Strength is shown on the display. A signal bar will be displayed as shown below.



The indicator on the signal bar shows the minimum acceptable signal level.

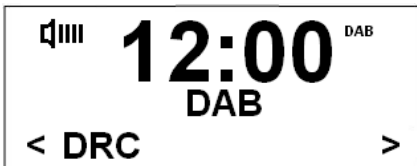
@ **Note:** Stations with signal strength below the minimum signal level will not provide a steady stream of audio.

DRC (Dynamic Range Control)

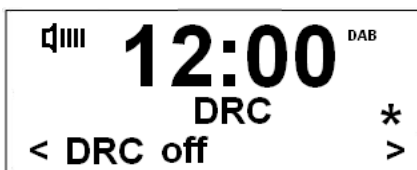
You can set the level of the compression of stations to eliminate the differences in dynamic range or sound level between radio stations.

@ **Note:** Set DRC to **off** indicates no compression, set DRC to **low** indicates little compression, and set DRC to **high** shows maximum compression.

1. Press the **MENU** Button, then press the **<</- or +/>>** Buttons to select the **DRC** menu.



2. Press the **SELECT/NAV** Button to confirm.

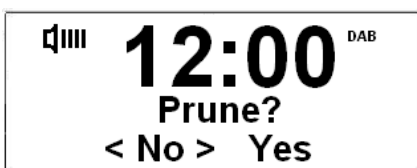


3. Press the **<</- or +/>>** Button to select ideal DRC Mode. Press the **SELECT/NAV** Button to confirm.

Prune Order

@ **Note:** Pruning Radio order will remove inactive stations from the station list.

1. Press the **MENU** button, then press **<</- or +/>>** to select Prune menu.
2. Press the **SELECT/NAV** button to confirm.



3. Press **<</- or +/>>** to select **Yes**, and then press **SELECT/NAV** to confirm.

Using Presets

Setting Station Presets

Your radio can store 10 DAB+ & 10 FM station presets. To store presets:

@ *Note: This is the same for DAB+ and FM Radio stations.*

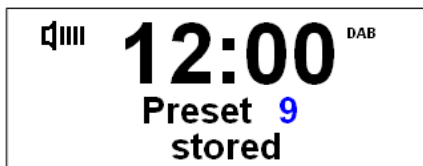
1. Press the DAB+/FM Button to select the mode you wish to set.
2. While playing your favourite station, press and hold the **PRESET** Button.



3. Press the <</- or +/>> Button to cycle through the preset stations store numbers, 1-10.



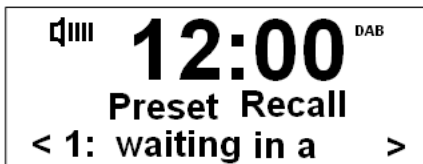
4. Then select your preferred preset station number and press the **SELECT/NAV** Button to confirm.



Playing a Preset Station

To select a stored station:

1. Press the DAB+/FM Button to select the mode you wish to play.
2. Press the **PRESET** Button to enter 'Preset Recall' setting.



3. Press the <</- or +/>> Buttons to select your preset number and then press the **SELECT/NAV** Button to confirm.

Using FM Radio

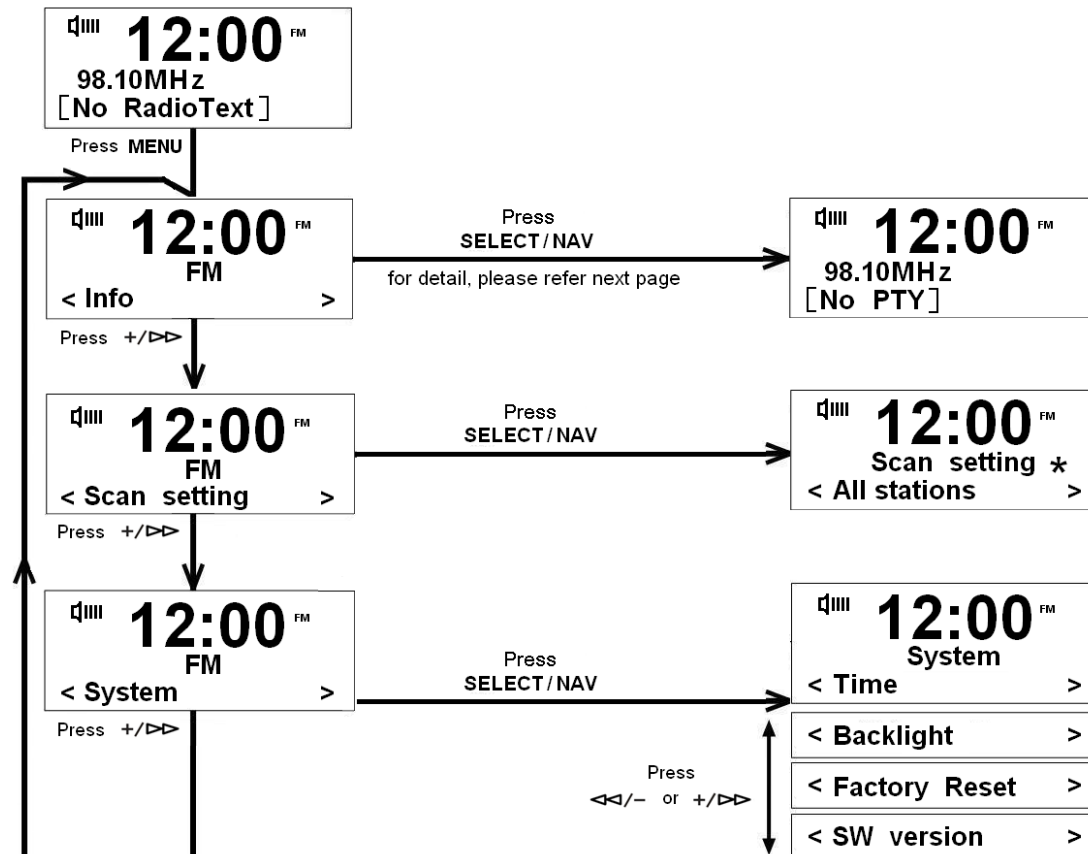
1. Press the **DAB+/FM** Button to switch to FM Mode from DAB+ Mode.
2. Once in FM mode, it will start at the beginning of the FM frequency range (87.50MHz) or it will play the last FM station you were listening to.



3. To manually change the FM frequency, press the **SELECT/NAV** Button and then immediately press the **◀◀/-** or **+/▶▶** to change the frequency by 0.05MHz.
4. To auto-search in FM Mode, press the **SELECT/NAV** Button and then press and hold the **◀◀/-** or **+/▶▶** Buttons and it will skip forwards or backwards to the next available station.

@ Note: 1. The display will show the frequency changing until it stops on the next station.
 2. After it reaches the end of the frequency range, it goes back to the start.

FM Menu Options



Using FM Radio

To View Station Information in FM Mode

Press the **MENU** Button then press the **SELECT/NAV** Button consecutively to show the different program information

Program Type (PTY):

This is a description of the type of program provided by the FM station or by the broadcaster.

Station Name

This displays the transmission (station name) of the station you are listening to.

Audio Type

This will display the audio type of the station you are listening to. It will either be stereo or Mono.

Time:

This displays the time provided by the broadcaster.

Date:

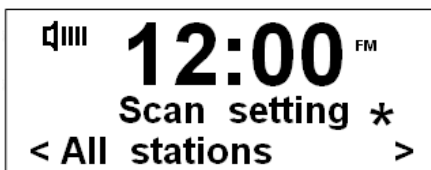
This displays date provided by the broadcaster.

Radio Text

This is scrolling text information supplied by the FM broadcasters. It may comprise of information on music titles or details of the program and is provided by the broadcaster.

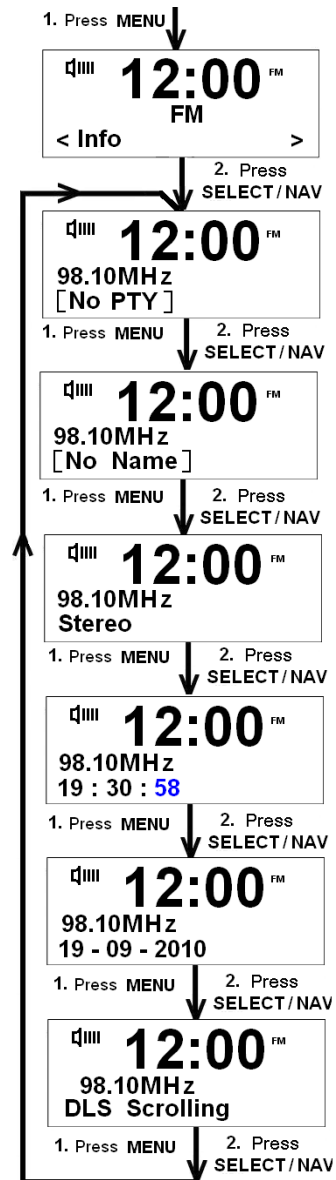
Scan Setting

1. Press the **MENU** Button, and then press **<</- or +/>>** to select **Scan Setting** menu.
2. Press the **SELECT/NAV** Button to confirm.



@ Note: You can choose between **Strong Stations Only** and **All Stations**. If you choose **Strong Stations Only**, the menu will show only the stations with strong signal strength. If you choose **All Stations**, all detected stations will be shown.

3. Press the **<</- or +/>>** to select your preferred option, and then press the **SELECT/NAV** to confirm.



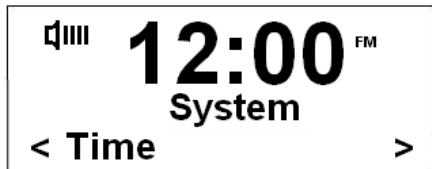
System Setup

How to Enter System Setup

1. Press the **MENU** Button, and then press the **<</-** or **+/>>** to select **System** Menu.



2. Press the **SELECT/NAV** Button to confirm. Once confirmed the below screen will show.

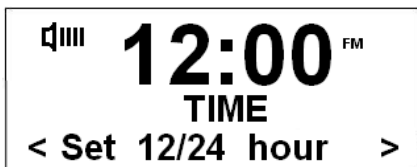


3. Press the **<</-** or **+/>>** to cycle through the System Menu options, including 'Time', 'Backlight', 'Factory Reset' and 'SW version'.

How to Set the Clock

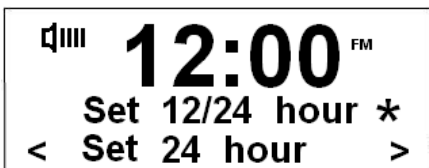
@ Note: You can set the clock two ways - 'Manually' or by 'Auto Update'.

1. Select the System Menu and then select the **Time** Setting. Press the **SELECT/NAV** Button to confirm.



Choose 12/24 Hour Format

1. Once in the Time System Menu, you can select to set the time in either 12 or 24 hour format.



2. Press the **<</-** or **+/>>** Buttons to choose either 12 hour or 24 hour time, then press the **SELECT/NAV** to confirm.

System Setup

Set Time / Date (Manually)

1. In the time menu, press **◀◀/-** or **+/▶▶** to select **Set Time/Date** option, then press the **SELECT/NAV** button to confirm.



2. Press the **◀◀/-** or **+/▶▶** Buttons to change the hours and then press the **SELECT/NAV** Button to confirm.
3. Press the **◀◀/-** or **+/▶▶** Buttons to change the minutes and then press the **SELECT/NAV** Button to confirm. Then you will be asked to set the date.

Set Date Format

1. In the Time System Menu, press the **◀◀/-** or **+/▶▶** Buttons to select the set date option, then press the **SELECT/NAV** Button to confirm.

@ Note: You can choose to set the date as either **'MM-DD-YYYY'** or **'DD-MM-YYYY'**.

2. Press the **◀◀/-** or **+/▶▶** Buttons to select the preferred date format and then press the **SELECT/NAV** Button to confirm.
3. Press the **◀◀/-** or **+/▶▶** to change the month or date and then press the **SELECT/NAV** Button to confirm.
4. Press the **◀◀/-** or **+/▶▶** to change the month or date and then press the **SELECT/NAV** Button to confirm.
5. Press the **◀◀/-** or **+/▶▶** to change the year and then press the **SELECT/NAV** Button to confirm.

Auto Update

1. In the Time System Menu, press the **◀◀/-** or **+/▶▶** to select **Auto Update** option, and then press the **SELECT/NAV** Button to confirm. The Auto Update option will automatically update the date and time based on the information provided by the DAB+ Broadcaster.



@ Note: You can choose **'Auto update from DAB+'** and **'No update'**.

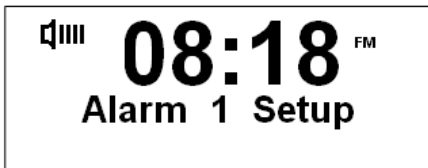
2. Press the **◀◀/-** or **+/▶▶** to select **'Auto update from DAB+'**, then press the **SELECT/NAV** Button to confirm.

System Setup

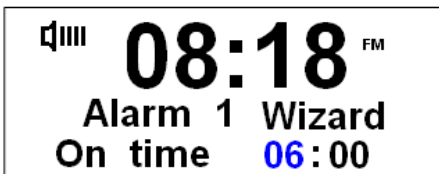
How to Set Alarm

@ **Note:** Ensure that the time is set correctly before you set the Alarm.

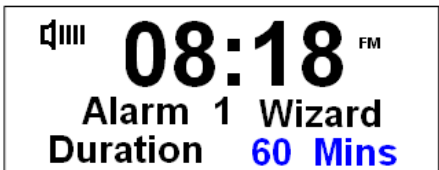
1. Press the **ALARM** Button to select the Alarm Setting and to set alarm1 to set the alarm time you desire. If you wish to set alarm2, press the **ALARM** Button twice.



2. Press the **SELECT/NAV** to confirm to enter either alarm1 or alarm2.
3. Press the **<</-** or **+/>>** to select Alarm option as on or off. Press the **SELECT/NAV** Button to confirm.
4. It will now ask you to set the Alarm time, press the **<</-** or **+/>>** Buttons to alter the hour, and then the **SELECT/NAV** Button to confirm. Use the same method for setting the minutes.

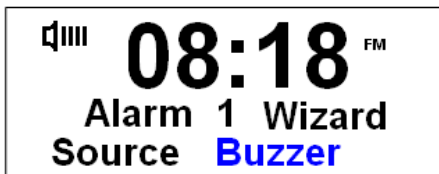


5. Press the **SELECT/NAV** Button to confirm, then press the **<</-** or **+/>>** to set the duration time of the alarm sound. You can select either 15, 30, 45, 60 or 90 minutes.

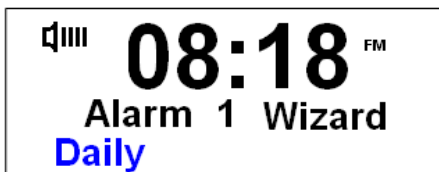


@ **Note:** The alarm will sound until the selected duration time is finished.

6. Press the **SELECT/NAV** Button to confirm. Press the **<</-** or **+/>>** Buttons to set the alarm source, you can choose between *Buzzer*, *DAB+* or *FM* modes.

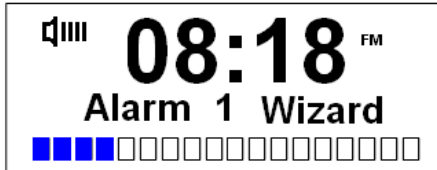


7. Press the **SELECT/NAV** Button to confirm. Press the **<</-** or **+/>>** Buttons to set the frequency of alarm, you can choose between *daily*, *weekdays*, *weekends* or *once*.

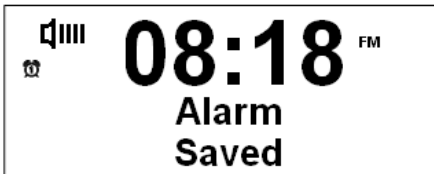


System Setup

8. Press the **SELECT/NAV** Button to confirm. Press the **<</-** or **+/>>** Buttons to set the alarm volume level.

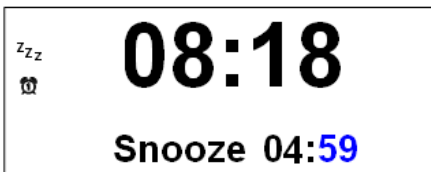


9. Press the **SELECT/NAV** Button to confirm and '**Alarm Saved**' will display on the screen and is now set. You can also set Alarm 2 by following the same steps.



SNOOZE

- When the Alarm sounds and you wish to continue snoozing, press the **SNOOZE** Button to activate the snooze function and postpone alarm for 5 minutes.
- The radio will go into Standby mode and start to count down the 5 minutes unit snooze is over, see below.




- The Alarm will sound again after the snooze time has elapsed, at this time, if you press the **SNOOZE** Button again and it will count down for another 5 minutes.

To Turn Off Alarm

- Press the **ALARM** Button to enter alarm1 or Alarm2 setting.
- Press the **SELECT/NAV** Button to confirm and change the Alarm status from on to off. Press the **SELECT/NAV** Button to confirm. Then follow the steps, until you reach '**Alarm Saved**'.

How to Set Radio Sleep Time

- Press the **SNOOZE** Button during play and the display will show - "**Set sleep time à Sleep Off**", make sure neither alarm is set when setting sleep time.
- Press the **SNOOZE** Button repeatedly to select the Sleep time on and the amount of time before you wish the radio to automatically switch off. You can select - **Sleep Off, 15, 30, 45, 60 or 90 minutes**.
- Press the **SELECT/NAV** Button to confirm, and then sleep icon  will be displayed.
- To view the set sleep time, press the **SELECT/NAV** Button.
- Once set the radio will automatically turn to Standby mode after the set time has elapsed.

System Setup

How to set Backlight

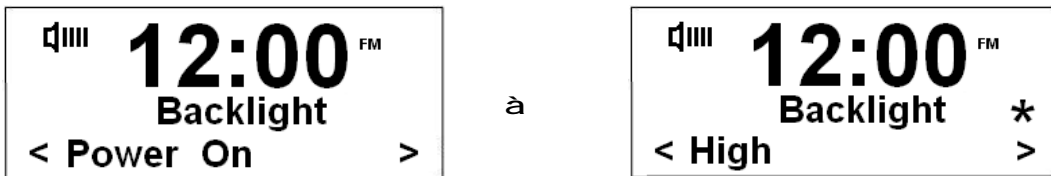
@ **Note:** You can adjust the backlight level to 'High', 'Medium' and 'Low'. High backlight will make the backlight brightest and easy to view. Low backlight will dim the brightness using less power and making it less distracting at night.

Setting Backlight for Power on Mode

1. In System Menu, select the **Backlight** Menu and press the **SELECT/NAV** Button to confirm.



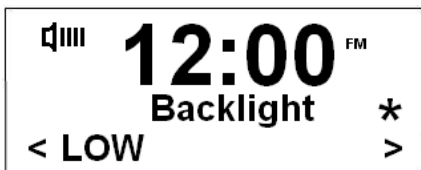
2. In the Backlight Menu, use the **<</-** or **+/>>** to select the **Power On** setting and press the **SELECT/NAV** Button to confirm.



3. Press the **<</-** or **+/>>** Buttons select your ideal backlight option for Power On Mode; '**High**', '**Low**' and '**Medium**'. Then press the **SELECT/NAV** Button to confirm.

Setting the Backlight for Standby Mode

1. In System Menu, select the **Backlight** Menu and press the **SELECT/NAV** Button to confirm.
2. In the Backlight Menu, use the **<</-** or **+/>>** to select the **Standby Mode** setting and press the **SELECT/NAV** Button to confirm.



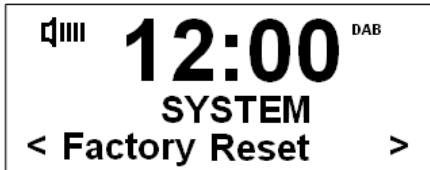
3. Press the **<</-** or **+/>>** Buttons select your ideal backlight option for Power On Mode; '**High**', '**Low**' and '**Medium**'. Then press the **SELECT/NAV** Button to confirm.

System Setup

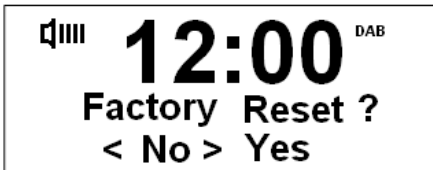
How to Factory Reset

@ **Note:** Doing this will delete all the preset stations, alarms and time settings, and return the radio to its original factory settings.

1. Press the **MENU** Button and then press the **<</- or +/>>** Buttons to select the System Menu. Press the **SELECT/NAV** Button to confirm, and then press the **<</- or +/>>** to **Factory Reset** option.



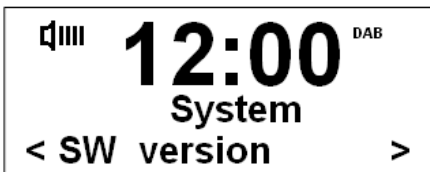
2. Press the **SELECT/NAV** Button to confirm



3. Once selected you will be asked if you want to conduct a Factory Reset. Press the **<</- or +/>>** Buttons to select 'Yes' or 'NO'. Then press the **SELECT/NAV** Button to confirm, and then radio will begin to reset.

How to get SW Version

1. Once in System Menu, press the **<</- or +/>>** to select **SW version** Setting.



2. Press the **SELECT/NAV** to confirm. You will now be able to view the software information of this radio.

Troubleshooting and Technical Specification

Troubleshooting

If a fault occurs, first check the points listed below before taking the set for repair.

If you are unable to remedy a problem by following these hints, consult your retailer or service professional.

WARNING: Under no circumstances should you try to repair the set yourself, as this would invalidate the warranty.

PROBLEM	POSSIBLE CAUSE	REMEDY
No sound	Headphones maybe connected Volume not adjusted Power cord is not correctly connected	Disconnect the headphones Adjust the Volume Connect the power cord properly
Unit Buttons are not working	Electrostatic discharge	Turn off the unit, disconnect the mains plug, and reconnect after a few seconds
Radio poor reception	Weak radio aerial signal. Interference caused by the vicinity of electrical equipment like TVs, Video Recorders, Computer, Thermostats, Fluorescent Lamps (TL) engines etc.	Aim the aerial for best reception, and ensure it is fully extended. Keep the unit away from other electrical equipment

Technical Specification

Specifications	DAB+ and FM radio
Speaker Power.....	1 W
Frequency Range	FM: 87.5-108MHz DAB+: 174 – 240MHz
LCD Display	High resolution display
Power Supply	AC/DC Adaptor: DC 9V, 600mA
Max Power Consumption.....	5W
Dimension	172mm x 122mm x 54mm

Warranty

Please keep your receipt as proof of purchase. This product is warranted for any defect in materials or workmanship for one year after the original date of purchase. This product is for normal domestic and office use only. This warranty does not cover damage from misuse or neglect, accidental damage, vermin infestation, excessive voltages such as lightning or power surges or any alternation that affects the performance or reliability of the product.

In the unlikely event that your product fails to work normally, please contact the **Bush Warranty on 1800 509 394 (Australia) or 0800 450 259 (New Zealand)** and have your receipt of purchase on hand.

This warranty is subject to the following provisions:

- I It is only valid within boundaries of the country of purchase
- I The product must be correctly assembled and operated in accordance with the instructions contained in the manual
- I This product must be used solely for domestic purposes
- I The warranty does not cover accidental damage
- I The warranty will be rendered invalid if the product is resold or has been damaged by inexpert repair
- I The manufacturer disclaims any liability for incidental or consequential damaged

This warranty is in addition to, and does not diminish, your statutory or legal rights.

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