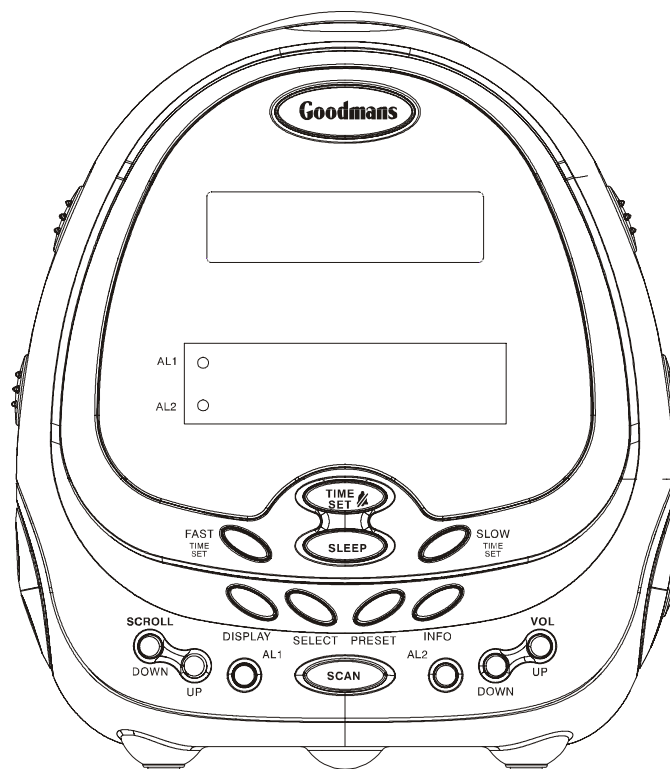


Goodmans

DAB Clock Radio

GCR1930DAB



Instruction Manual

**Before operating this unit,
Please read this instruction manual carefully**

Goodmans Product Information Helpline 0870 873 0080

Introduction

Congratulations on your purchase of this latest “state of the art “ Digital Audio Broadcast Radio. Please read through the following pages to get the most out of this GCR1930DAB.

What’s in the box

On unpacking the unit the following should be located within the packaging

1 x GCR1930DAB Main unit

1 x Instruction Manual

1 x Quick start Guide

Please retain all packaging materials for use in the event of the product needing transportation or in the unlikely event of the product requiring repair.

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IMPORTANT NOTES

Your hearing is very important to you and to us so please take care when operating this equipment. It is strongly recommended that you follow the listed guidelines in order to prevent possible damage or loss of hearing:

ESTABLISH A SAFE SOUND LEVEL

- Over time your hearing will adapt to continuous loud sounds and will give the impression that the volume has in fact been reduced. What seems normal to you may in fact be harmful. To guard against this **BEFORE YOUR HEARING ADAPTS** set the volume at a low level.
- Slowly increase the level until you can hear comfortably and clearly and without distortion.
- Damage to your hearing is accumulative and is irreversible.
- Any ringing or discomfort in the ears indicates that the volume is too loud.

Once you have established a comfortable listening level, DO NOT INCREASE THE SOUND LEVEL FURTHER.

The following list of typical sound levels may assist you in recognising just how loud you have set the volume level.

DECIBEL

Level dB Example

30dB	Quiet library, soft whisper.
40	Living room, fridge freezer bedroom away from traffic.
50	Normal conversation, quiet office, light traffic.
60	Electric sewing machine,
70	Vacuum cleaner, hair dryer, noisy restaurant

THE FOLLOWING NOISE CAN BE HARMFUL UNDER CONSTANT EXPOSURE

80dB	Average city traffic, alarm clock buzzer at 2 feet, food mixer.
90dB	Motorcycle, heavy goods vehicle, petrol lawn mower.
100	Pneumatic drill, chain saw, garbage truck, discotec / nightclub.
120	Rock band concert, thunderclap.

PERMANENT LOSS OF HEARING

140	THRESHOLD OF PAIN Gunshot 2 feet away.
180	Rocket Launching pad.

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IMPORTANT NOTES

PRE FITTED MAINS PLUGS

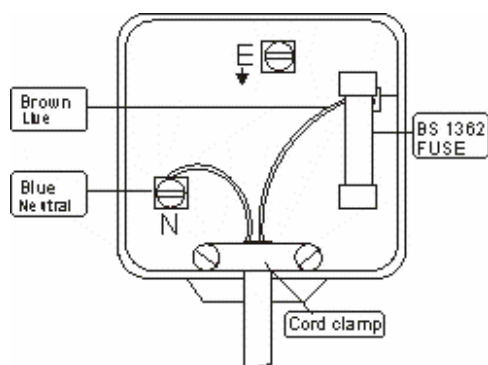
For your convenience a mains plug has been fitted to this appliance. For your safety please observe the following information

1. Should the fuse in the plug fail remove the plug from the wall socket and replace the fuse with a 3 Amp ASTA approved to BS 1362 fuse.
2. Never use the plug without the fuse cover fitted. Replacement fuse covers are available from your dealer or most electrical retail outlets.
3. If the mains plug is cut off from the cable, rewire the replacement plug in accordance with instruction given in this manual.
4. CAUTION: Under no circumstances should the discarded plug be inserted mains socket. To prevent a shock hazard carefully dispose of the discarded plug. Do not leave the plug lying around where children might see it.

WARNING: To prevent fire or shock hazard do not expose this unit to rain or moisture.

CAUTION: DANGEROUS VOLTAGES EXIST INSIDE THIS UNIT, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. DISCONNECT FROM MAINS SUPPLY WHEN NOT IN USE.

PLUG WIRING DETAILS



The wires in this mains lead are coloured in accordance with the following wiring codes:

Blue Neutral

Brown Live

The wires in this mains lead must be connected to the terminals in the plugs as follows:

Blue Wire.....N or Black

Brown Wire L or Red

Only a 3 Amp fuse should be fitted in the plug or a 5 Amp fuse at the distribution board.

WARNING: UNDER NO CIRCUMSTANCES MUST THE LIVE OR NEUTRAL WIRES BE CONNECTED TO THE EARTH TERMINAL IN A 3-PIN MAINS PLUG.



This symbol means that this unit is double insulated. An earth connection is not required.

IMPORTANT NOTES (Contd.)

SOME DO'S AND DONT'S ON THE SAFE USE OF EQUIPMENT

WARNING:

This equipment has been designed and manufactured to meet European safety standards but like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

Do read the operating instructions before you attempt to use the equipment.

Do ensure that all electrical connections (Including the mains plug, extension leads and interconnections between pieces of equipment) are properly made in accordance with the manufacturer's instructions. Switch off and withdraw the mains plug when making or changing connections.

Do consult your dealer if you are ever in doubt of the installation, operating, or safety of your equipment.

Don't continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged in any way- switch off, withdraw the mains plug and consult your dealer.

Don't remove any fixed covers as this may expose dangerous voltages.

Don't leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a standby mode. Switch off using the switch on the equipment and make sure that your family knows how to do this. Special arrangements may need to be made for infirm or handicapped people.

Don't listen to headphones at high volume, as such use can permanently damage your hearing.

Don't obstruct the ventilation of the equipment, for example with curtains or soft furnishings.

Overheating will cause damage and shorten the life of the equipment.

Don't allow electrical equipment to be exposed to rain or moisture.

Above all

Never let anyone, especially children, push anything into holes, slots or any other opening as this could result in a fatal electric shock.

Never guess or take chances with electrical equipment of any kind.

It is better to be safe than sorry!

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE, DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE, DO NOT OPEN THE CABINET, REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

Getting Started

Power Sources

The GCR1930DAB can be powered from the household 230V AC mains Supply via the supplied lead.

- **AC MAINS**

Insert the 3 pin plug into a switched household AC supply socket, ensure the wall outlet socket is switched ON. The display will now illuminate indicating power is reaching the unit. Slide the switch to DAB ON to switch the unit on.

- **Battery Operation** (only for back up of time and alarm setting)

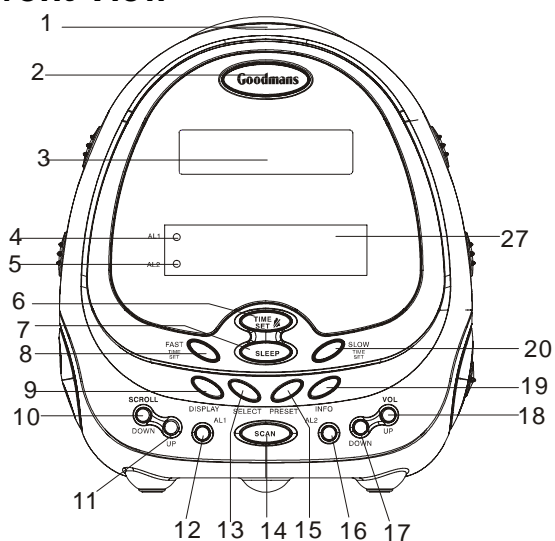
Remove the Battery Compartment cover and insert 9V (9V Size Alkaline batteries), observing the correct polarity replace the cover.

NOTE: Old batteries may swell and leak. To avoid damage to the unit, remove the batteries.

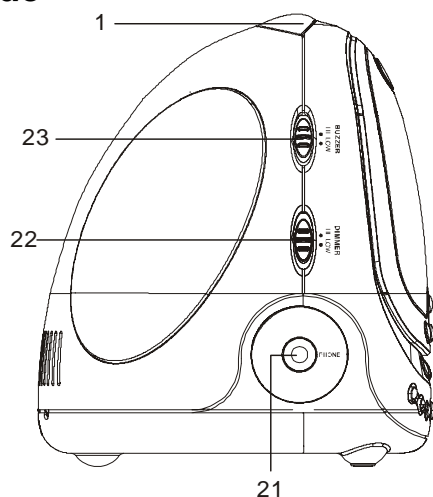
When the unit is to be stored for long periods of time, or if the batteries become exhausted.

Location of controls

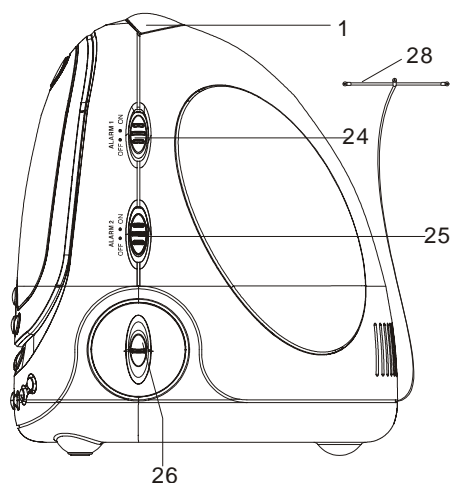
Front View



Left Side



Right Side



1. SNOOZE /SLEEP OFF BUTTON
2. LOGO
3. DAB LCD
4. ALARM 1 INDICATOR
5. ALARM 2 INDICATOR
6. TIME SET / ALARM OFF BUTTON
7. SLEEP BUTTON
8. FAST /TIME SET BUTTON
9. DISPLAY BUTTON
10. SCROLL DOWN BUTTON
11. SCROLL UP BUTTON
12. ALARM 1 BUTTON
13. SELECT BUTTON
14. SCAN BUTTON
15. PRESET BUTTON
16. ALARM 2 BUTTON
17. VOLUME DOWN BUTTON
18. VOLUME UP BUTTON
19. INFO BUTTON
20. SLOW BACK/TIME SET BUTTON
21. PHONE JACK
22. DIMMER HIGH/LOW SWITCH
23. BUZZER HIGH/LOW SWITCH
24. ALARM 1 ON/OFF SWITCH
25. ALARM 2 ON/OFF SWITCH
26. DAB ON/OFF/ALARM BY DAB/BUZZ SW.
27. LED CLOCK DISPLAY
28. "T" aerial

Note: Important for best reception unravel and spread the DAB "T" aerial as shown.

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General operation

DAB or Digital Audio Broadcasting represents a new age in broadcasting technology and as with all new technologies it is significantly different to traditional Analogue FM/AM broadcast methods. The new system no longer relies on tuning to a given frequency but instead allows the DAB receiver to provide an active Station List of all available radio programmes/stations at the touch of one button. Station Lists are described in more detail in the DAB Operation section of this manual.

Before selecting the DAB function make sure that the wire “T” aerial is fully extended and forms a “T” shape.

1. Connect the unit to the household mains supply.
2. Slide the switch to DAB ON on the left side of unit.
3. The unit will automatically start a scan of the DAB services and after 15 to 20 seconds the first station in the Station List will begin to playback

NOTE: At this stage it is possible that the display may show “No DAB service” on the first line of the display and “Check Aerial?” on the second line of the display. This indicates the unit has been unable to locate any available DAB stations during the search process.

This may be due to :-

- a. No DAB stations in the local area Check with the DRDB at www.DRDB.org or call the reception Helpline on 08707 747474
 - b. The radio needs relocating to a better location in order to get adequate reception. The signal strength indication (See Display button operation) can be used to assist this process.
4. Assuming there is now a Station List available the other stations on the list can be located . Use the Scroll Up/Scroll Down buttons then press the select button
 5. Use the Volume control to increase or decrease the sound output level as required.

Important Reminder for DAB Reception

Please be reminded that this unit is specifically designed for reception of UK only DAB stations restricted to Band 3 (11B to 12D) only it will therefore **NOT** receive DAB stations in European areas that broadcast on L band

Power Off

To switch the radio OFF slide the DAB switch to DAB OFF.

Note: in this state it will still show the clock in the lower display and draw a small amount of power from the AC mains supply.

Headphones

A stereo headphone socket is provided for private listening. Connect a pair of low impedance (8-16 ohm) headphones or earphones (not supplied) with a 3.5mm stereo jack plug. When headphones are connected the main speakers are automatically disconnected.

Clock Operation

Setting the Clock

Before any alarm functions can be used on your alarm clock radio you must first set the clock to the correct time.

1. Place the unit on a flat surface. Plug the main plug into the wall socket and switch on the wall socket.
2. The clock LED display will flash.
3. Press and hold the **TIME SET** button and simultaneously press or hold down the **FAST** forward button or the **SLOW** backward button. The LED clock display will fast forward or reverse the minutes and hour segments. Release all buttons when the correct time is set. The clock is a 24 hours clock.

Display Dimmer Switch

The clock display and DAB radio display backlight has two brightness levels, high (**HI**) and low (**LO**). The level is set by the **DIMMER** slide switch located on the left side of the clock radio.

Using the Alarms

The alarm function can be set to operate on the following function: wake up to two different alarm times which you can choose to use independently or simultaneously. AL1 or AL2 or AL1+AL2. They operate in the same way and can be set to either sound a buzzer or switch on the radio.

Set the Alarms

Press and hold down the alarm button, either **ALARM 1** or **ALARM 2**, and press the **FAST** forward and **SLOW** backward buttons to select the time you wish the alarm to sound.

Noted: This clock is in 24 hours format.

Once the time is set release the alarm button.

Set the **FUNCTION** slide switch on the right side of the clock radio to either **AL. BUZ** or **AL. DAB** depending on whether you wish the alarm to sound the buzzer or switch on the radio.

Set the relevant alarm on/off slide switch on the right side of the clock radio to the **ON** position.

Silencing the Alarms

When the alarm sounds it can be cancelled by pressing the **TIME SET** / Alarm Off button. The alarm will sound again the next day.

Alternatively the alarm can be cancelled by setting the relevant alarm slide switch on the right side of the clock radio to the **OFF** position. In this case the alarm will not sound the next day.

Snooze

To temporarily silence the alarm when it sounds, press the **SNOOZE** button. This silences then alarm for approximately 7 minutes that it will sound again.

Clock Operation (contd.)

Buzzer Lever

There has 2 buzzer levels, high (**HI**) and low (**LO**). It can be set by **BUZZER** slide switch at the left side of the clock radio.

Using the Sleep Function

The sleep function enables you to set the radio to play for a period of up to 59 minutes, then automatically switch off.

Tune to the desired radio station.

Set the **FUNCTION** slide switch to the **DAB OFF, AL. DAB** or **AL. BUZ** position.

Press and hold down the **SLEEP** button. The clock display will start to count down from “**0:59**” minutes and the radio will come on.

Continue to hold the **SLEEP** button down until the sleep period you require is displayed then release the **SLEEP** button.

If you wish to increase the period hold down the **SLEEP** button and press either then **FAST** forward or **SLOW** backward button. The time increase up to a maximum of 59 minutes.

To cancel the sleep function press the **SNOOZE/Sleep Off** button. The radio will switch off immediately.

DAB operation

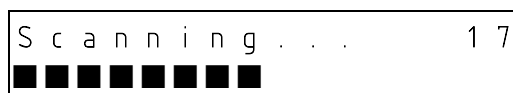
Using the DAB Radio

Initial DAB Station Search

Set the **FUNCTION** slide switch on the right side of the clock radio, to the **DAB ON** position.

Press the **SCAN** button at the front of the clock radio. The clock radio will commence the station search process.

During the search process the display indicates the progress and stations found, for examples:



The symbols on the second line of the display are a bar graph that indicates the progress of the scan. The number on the first line indicates the number of stations found and will increase as the scan progresses.

It is possible to manually search for stations.

If there is no stations found check that adequate DAB coverage exists in your area.

Once the search has completed the DAB radio will tune to the first station in the list. Stations are listed in numerical then alphabetical order.

The station list is retained in memory so the next time you switch the tuner on, the station search does not take place.

Changing DAB stations

Press either the **SCROLL UP** or **SCROLL DOWN** buttons to scroll through the available stations. The stations will appear on the second line of the display.

When the station you require is displayed press the **SELECT** button. The radio will now tune to that station.

Scanning for DAB Stations

Due to the nature of DAB radio, additional stations and services regularly become available. If you wish to see if there is any new DAB stations introduced in your area, you can initiate a search.

Press the **SCAN** button to activate a local search for stations on band 3 in the UK. This will take approximately 10 seconds. If you are using your DAB clock radio outside UK, then a wider search can be initiated by pressing and holding down the **SCAN** button for approximately two seconds. In this case a full scan is performed which will take approximately 20 seconds.

Station Display Symbols

You can see some symbols displayed alongside the station names. These are defined as follows:

- ♥ This indicates that the station is one of you ten most favourite stations and can be used when selecting the station order.
- ? This is displayed before the station name if the station is no available or not active.

DAB operation (contd.)

- >> Chevrons displayed after the station name indicate that this is a primary station with secondary services.
- << Chevrons displayed before the station name indicate that this is a secondary station.

Volume Control

Adjust the sound level by pressing the **VOL UP** or **DOWN** buttons.

Setting DAB Presets

You can preset up to 20 DAB stations as follows.

Tune to the station you wish to preset.

Press and hold the **PRESET** button on the front of the clock radio. '**Empty preset 1**' will be flashing on the second line of the display.

Note: once you have saved any presets these will be displayed instead of the '**Empty preset**' message.

Use the **SCROLL UP** or **DOWN** buttons to select the desired preset number you wish to use for this station.

Press the **SELECT** button, '**Press #saved**' is displayed, where # is the preset number selected.

Selecting a Preset DAB Station

To select a preset station, press the **PRESET** button.

Use the **SCROLL UP** or **DOWN** buttons to select the desired preset number and press the **SELECT** button.

Re-setting the DAB Preset Station

DAB presets cannot be deleted individually but they can be overwritten. For example if you wish to change a preset from one station to another:

Tune to the new station and press and hold the **PRESET** button.

Use the **SCROLL UP** or **DOWN** buttons to select the desired preset number then press the **SELECT** button until the '**Preset #saved**' message is displayed.

Reset

To delete all of the preset stations and return the clock radio to its factory setting, press and hold down the **INFO** button for approximately 2 seconds, and then press the **SELECT** button.

DAB operation (contd.)

Changing the DAB Station Information

It is possible to change the information that is displayed on the second line of the display when listening to a DAB station. There are seven types of information available as listed below with examples to the right. To change the information displayed press the DISPLAY button.

- **Dynamic Label Segment (DLS):** This is scrolling text information supplied by the DAB station. It may comprise information on music titles or details of the programme and is provided by the broadcaster.
- **Program Type (PTY):** This is a description of the type of programme provided by the DAB station and is provided by the broadcaster.
- **Multiplex Name:** This will show the multiplex that is broadcasting the programme you are listening to.
- **Date:** This displays the date and is provided by the broadcaster so will be accurate.
- **Channel and Frequency:** This displays the channel number and the transmission frequency.
- **Signal Information:** This show the digital bit rate and the signal mode.
- **Signal Error Rate:** If the transmission signal contains errors the system can apply a correction. The amount of signal correction can be displayed as a numerical value between 0 and 9. As a guide any value up to 50 is acceptable. For values above this, try to adjust the position of the antenna.

Press **DISPLAY**

B B C	R a d i o	5	L i v e
D L S	S c r o l l i n g		

Press **DISPLAY**

B B C	R a d i o	5	L i v e
N e w s			

Press **DISPLAY**

B B C	R a d i o	5	L i v e
B B C	N a t i o n a l	D A B	

Press **DISPLAY**

B B C	R a d i o	5	L i v e	
0 7	-	0 8	-	2 0 0 3

Press **DISPLAY**

B B C	R a d i o	5	L i v e	
1 2 8	2 2 5	.	6 4	M H z

Press **DISPLAY**

B B C	R a d i o	5	L i v e	
8 0	k b p s			M o n o

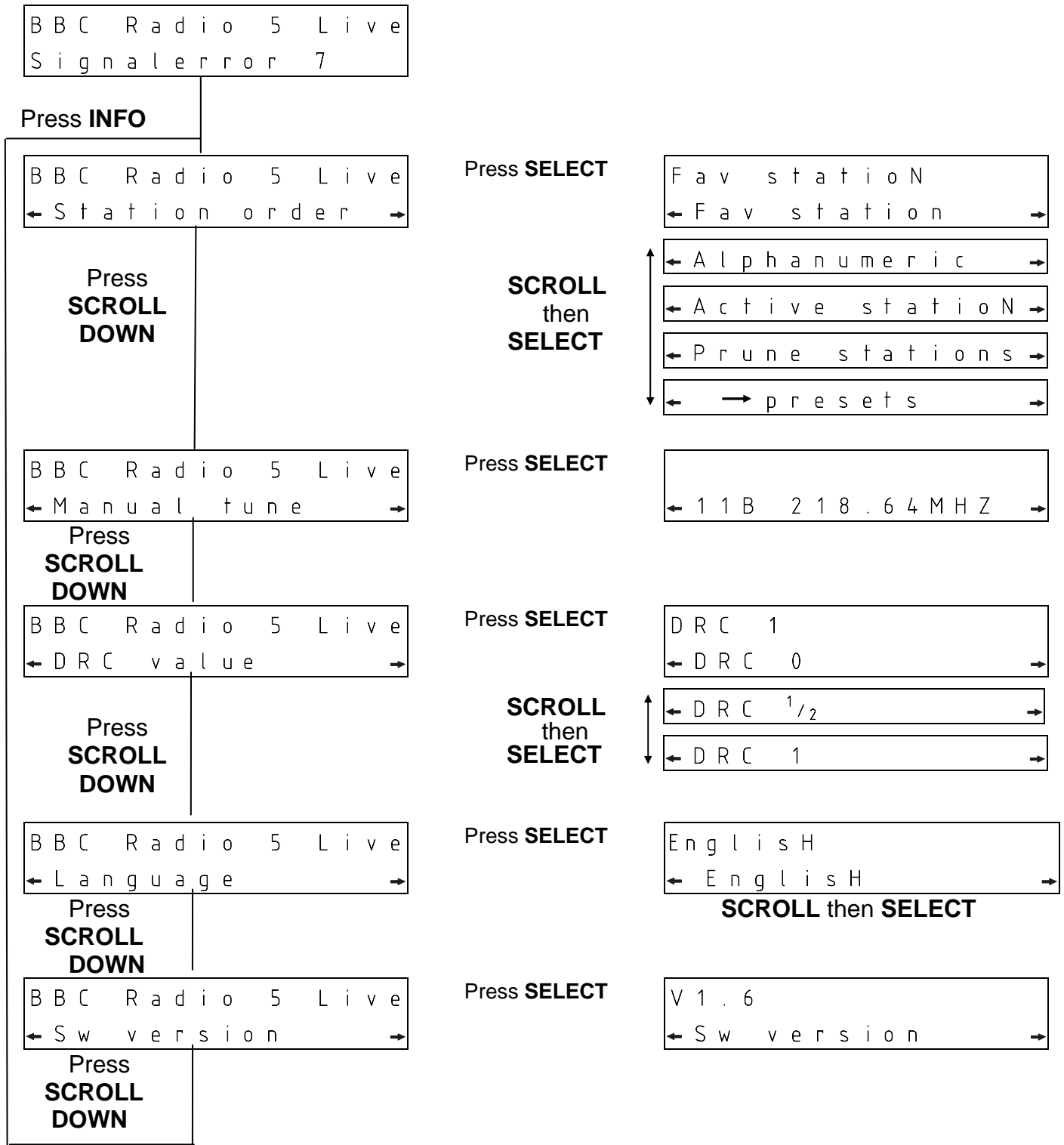
Press **DISPLAY**

B B C	R a d i o	5	L i v e	
S i g n a l	e r r o r	7		

DAB operation (contd.)

Using the INFO Control

The **INFO** control enables you to configure some of the system options of the DAB radio. These options are arranged in a menu structure as shown below.



Pressing the **INFO** button will enter the menu structure. The options are described in the following paragraphs.

DAB operation (contd.)

Station Order

This function enables you to define how the stations are arranged when scrolling the stations list.

To select an option press the **INFO** button, 'Station order' will be displayed.

Press the **SELECT** button and use the **SCROLL** buttons to display the desired option. There are five options available as described below.

- **Favourite Station (Fav station))**

The DAB tuner monitors the stations that you listen to and will build a list of the ten most listened to stations. When this option is selected the station list is re-ordered so that these stations appear at the top of the list. When you scroll through the list you will see that your favourite stations will have a heart shaped symbol.

- **Alphanumeric**

This is the default setting. The stations are arranged in numerical then alphabetical order.

- **Active Stations**

This option will re-order the list with those stations that can be received in your area at the top of the list and those that cannot at the bottom of the list.

- **Prune Stations**

This option will remove any stations that have no service in your area from the list.

- **Presets (♥ → presets)**

This option will re-order the list so that your preset stations appear first.

Press the **SELECT** button.

Manual Tune

It is possible to manually tune to a specific channel/frequency and add this to the station list.

This function can be used to assist the positioning the antenna to obtain the optimum reception for a specific channel/frequency.

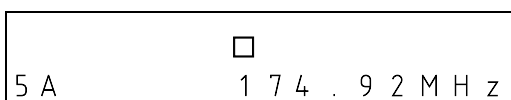
Press the **INFO** button. 'Station order' will be displayed.

Press the **SCROLL DOWN** button to display 'Manual tune'.

Press the **SELECT** button.

Use the **SCROLL** buttons to select the channel/frequency.

Press the **SELECT** button. A rectangle will be displayed on first line of the display. The position of this rectangle indicates the signal strength, i.e the further towards the right the greater the signal strength.



Adjust the position of the antenna to obtain the optimum signal strength.

Press the **SELECT** button to return to normal service.

DAB operation (contd.)

Dynamic Range Control (DRC)

DRC adds or removes a degree of compression to compensate for the differences in the dynamic range between radio stations. For example, a station broadcasting popular music may have a high level of compression applied since the emphasis is on a constant high listening level, whereas a station broadcasting classical music will have little or no compression as the listener requires all of the highs and lows in the music to define the detail.

There are three levels of compression:

- DRC 0 No compression applied.
- DRC 1 Maximum compression applied (this is the default).
- DRC 1/2 Medium compression applied.

Press the **INFO** button. 'Station order' will be displayed.

Press one of the **SCROLL** buttons until 'DRC value' is displayed.

Press the **SELECT** button. The current DRC level will be displayed on line 1.

Press the **SCROLL** buttons to select between the three values on line 2 of the display.

When the required value is displayed press the **SELECT** button.

Language

There is only one option presented –**English**.

Software Version

This is provided as a reference when servicing is required.

Press the **INFO** button. 'Station order' will be displayed.

Press one of the **SCROLL** buttons until '**Sw version**' is displayed. The version number will appear in line 1.

Troubleshooting guide

Every effort has been made to ensure this product provides optimum performance in all conditions, however we appreciate that sometimes difficulties may arise and the following table summarises some common problems.

Problem	Possible cause	Remedy
General No Sound	No power to unit	<ul style="list-style-type: none"> ▪ Check AC supply is connected and switched on ▪ Check the unit is switched on
	Volume control at Minimum	<ul style="list-style-type: none"> ▪ Press volume up until volume level is more than 20.
	Headphones connected to headphone socket	<ul style="list-style-type: none"> ▪ Remove headphones
No DAB stations found	Aerial not extended	<ul style="list-style-type: none"> ▪ Check Aerial and unit position ▪ Use the signal meter on the unit to check for signal
	Outside broadcast area	<ul style="list-style-type: none"> ▪ Check location reception details at www.drdb.org or call 08707 74 74 74
Erroneous information in the display	Temporary memory problem	<ul style="list-style-type: none"> ▪ Switch the unit off then back ON this will clear the problem

If the problem experienced is not listed above or if after checking the remedies the problem still exists, please call our product information helpline on

0870 873 0080

For further assistance

Goodmans Product Information Helpline 0870 873 0080

Specifications

AC Supply Voltage: 230VAC, 50Hz

DC Supply Voltage: 9V size batteries (Not Supplied)

Battery Life: up to 20 hours when AC failed with long life alkaline battery up to 4 Months when AC is available.

Receiver Bands: DAB Band III: 174.928 MHz (5A) – 239.200MHz (13F)
DAB Modes I, II, III and IV

Tuning Range - 11B to 12D local scan, 5A to 13F full scan

DAB sensitivity: -98dBm or better

DAB Adjacent Channel Rejection: -30dB or better

DAB audio decode: 64kbps - 384kbps

Aerials: In built T aerial

Power Output (at 10% THD): 2 x 0.3W RMS

Headphones Socket: 3.5mm diameter.

Speakers: 2 x 3"

Specifications are subject to change and improvement at any time without notice.