

Goodmans



GPS186DAB

FM/DAB Radio CD Cassette Recorder

User Guide

Introduction

Thank you for purchasing this GOODMAN'S FM/DAB Radio CD Cassette Recorder, hereinafter referred to as CD Player which has been designed and manufactured to give you many years of trouble-free service.

You may already be familiar with using a similar product but please take time to read these instructions which have been written to ensure you get the very best from your purchase.

Safety is Important

To ensure your safety and the safety of others, please read the Safety precautions **before** you operate this product.

Keep this information in a safe place for future reference.



WARNING! THIS PRODUCT UTILISES A CLASS 1 LASER. USE OF CONTROLS, ADJUSTMENTS OR PROCEDURES NOT LISTED IN THIS USER GUIDE MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

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Safety Precautions



WARNING! ENSURE THAT YOU READ ALL OF THE SAFETY INSTRUCTIONS BEFORE USING YOUR CD PLAYER.

Power Source

- The CD Player is supplied from either:
230V 50Hz mains supply.
12V (8 x C size (LR14) batteries).
CR2025 (3V Lithium battery for Remote Control)

Safety Considerations

- Position the power lead and other connected leads so that they are not likely to be walked on, pinched or where items can be placed on or against them.
- Do not use the CD Player in humid or damp conditions.
- Do not place water filled items, such as a vase, on top of the CD Player.
- Ensure that naked flame sources, such as candles are not placed on top of the CD Player.

Cleaning

- Ensure that the mains supply is disconnected before the CD Player is cleaned.
- Do not use any liquids or aerosol cleaners, as this may damage the CD Player.
- The CD Player should be cleaned with a soft, damp cloth.

Ventilation

- Do not cover any ventilation slots on the CD Player, as this may cause it to overheat.
- Never allow children to insert foreign objects into holes or slots on the CD Player.

Servicing

- There are no user serviceable parts in the CD Player.
- When servicing, refer to qualified service personnel.
- Consult your dealer if you are ever in doubt about the installation, operation, or safety of your CD Player.

How do I dispose of this product?



When your CD Player has reached the end of its life, contact your local council regarding available recycling or disposal options. Do not dispose of electrical products in the general waste.

Please ensure that used batteries are disposed of safely.

Laser Safety



WARNING! THIS CD PLAYER USES A CLASS 1 LASER. ONLY QUALIFIED SERVICE PERSONNEL SHOULD ATTEMPT REPAIR.

EXPOSURE TO THE LASER BEAM CAN DAMAGE YOUR EYESIGHT. UNDER NORMAL WORKING CONDITIONS THE CD PLAYER IS SAFE. IF, HOWEVER, THE CD LID INTERLOCK IS BROKEN OR DEFEATED IN SOME WAY OR IF THE ENCLOSURE IS REMOVED, THERE IS A DANGER OF INVISIBLE LASER RADIATION. IN THESE CIRCUMSTANCES, AVOID DIRECT EXPOSURE TO THE BEAM AND RETURN THE UNIT FOR REPAIR BY QUALIFIED PERSONNEL.

Getting Started

Remove the CD Player carefully from the box. You may wish to store the packaging for future use.

Read these instructions before use.

In the Box

You should have the following items in the box:

- CD Player
- Mains Lead
- Remote Control
- User Guide

If any of these items is missing, please contact Product Support:

Internet: www.goodmans.co.uk/support

Power Supplies

You can operate the CD Player from two power sources:

- Mains lead
- Batteries

Mains Lead

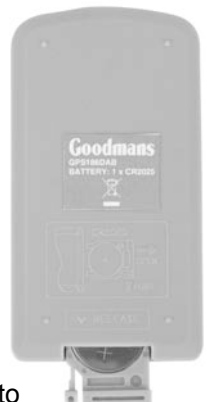
To operate from the mains supply, plug the mains lead into the socket on the rear of the CD Player and insert the mains plug into a mains supply socket.

Replacing the Remote Battery

- Pull the Battery Holder out in the direction as shown.
- Remove the old battery.
- Insert a CR2025 3V Lithium battery into the battery holder with the “+” side facing up.

Notes:- To activate the remote control, remove the little tag sticking out of the battery compartment by pulling on it. Once the tag is removed the remote will be ready for use.

The remote control has magnetic pads attached to back of it. This allows you to attach it to any flat metal surface such as a refrigerator or metal cabinet.



Inserting the CD Player Batteries

To insert the batteries:

- Turn the CD Player upside down.
- Push the battery cover retaining clips in the direction of the arrows as shown below and remove the cover.



- Insert eight 'C' (LR14) size batteries ensuring you follow the polarity as shown below.



- Refit the battery compartment cover.
- We recommend the use of Ever Ready Energizer Batteries.



Function Selector

- Set the **FUNCTION** selector to **CD**, the CD LED display will flash ‘- -’ for about 20 seconds then display ‘**No**’ to indicate no disc loaded.
- Set the **FUNCTION** Selector to **Tuner**, the Radio LCD display will illuminate and play the previously set station (FM or DAB).
- Press the **FM/DAB** button to select FM or DAB Radio broadcasts.
- Set the **FUNCTION** Selector to **Tape** to enable the cassette recorder or to turn the CD Player OFF.



NOTE: *When not in use, disconnect the mains plug from the mains power supply.*

Adjusting the Sound

Turn the rotary **VOLUME** control knob counterclockwise to increase the volume and clockwise to decrease the volume.

Headphones

A pair of headphones with a 3.5mm diameter stereo plug and 8-32 ohm impedance, is required. Plug the headphones into the headphone socket on the top of the CD Player.

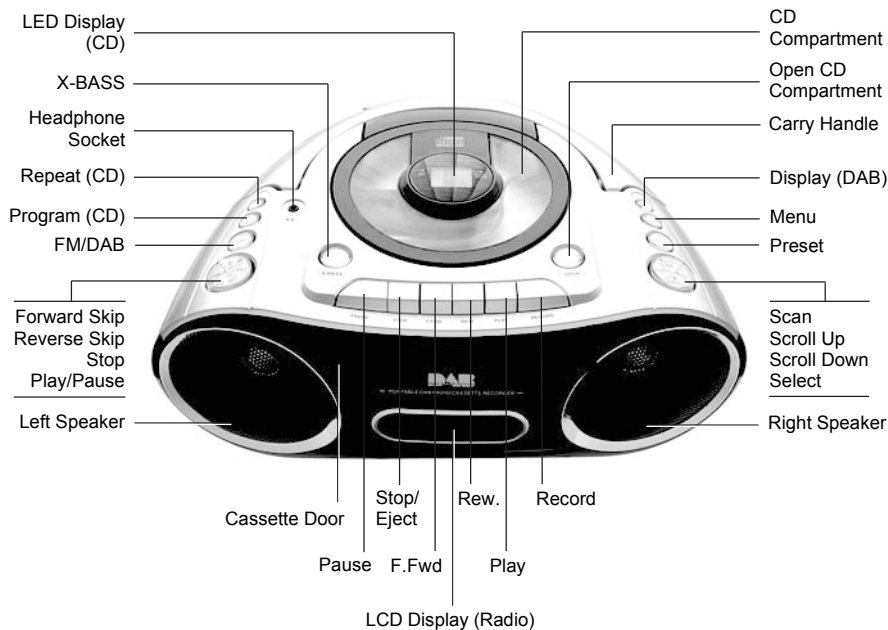
When headphones are connected, the speakers are automatically disconnected.

Bass Boost

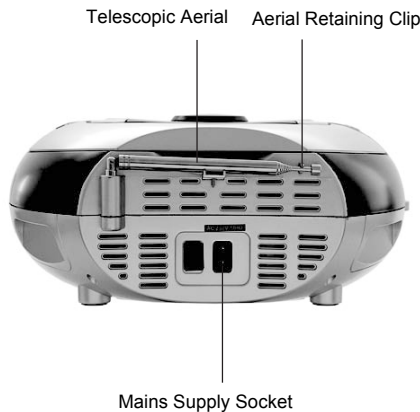
To increase the bass heard from the CD Player, press the **X-BASS** button. To return to normal bass, press the **X-BASS** button again.

Identification of Controls

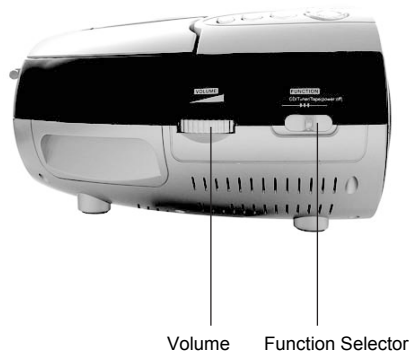
Front View



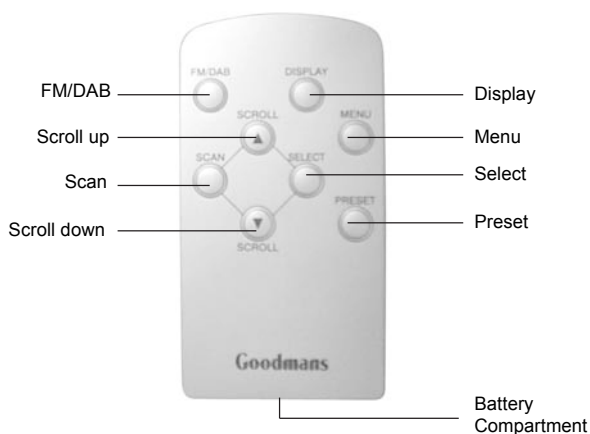
Rear View



Side View

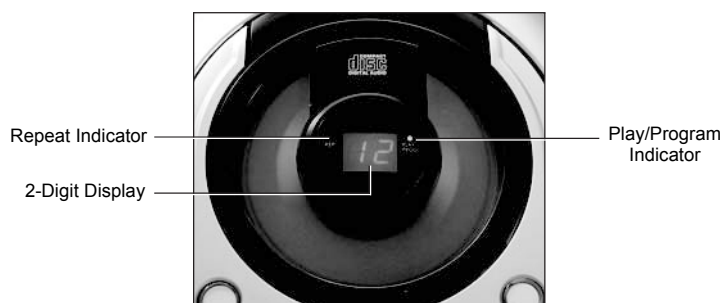


Remote Control



Display Screens

LED Display (CD)



LCD Display (Radio)



What is Digital Radio

DAB (Digital Audio Broadcasting) is the next generation of radio.

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 digital code before it is transmitted. The code consists of electronic 'ones and zeros' called binary digits or bits. The binary code is then multiplexed or grouped together to create a superior signal, when compared with the older analogue system, with the following key benefits:

- **Near CD quality sound**

Because DAB is binary coded, the receiving equipment is only expecting to receive a series of ones and zeros, so any other interference is ignored, resulting in very high quality audio.

- **Interference free reception**

Analogue systems suffer from an effect called 'multipath distortion'. This is caused because radio 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.

- **No need to re-tune**

A single DAB frequency can be used to cover the whole of the UK, so solving many of the problems experienced with the earlier analogue system. DAB radios can automatically tune-in all of the available stations in your area.

Playing the DAB Radio

Switching On for the First Time

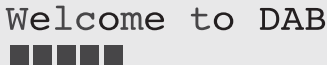
Set the **FUNCTION** switch to **Tuner** and press the **FM/DAB** button to select **DAB**.

When the DAB radio is switched on for the first time, the radio searches for all available digital channels.



NOTE: If you are using batteries to power the unit and the DAB radio fails to initiate when it is switched on, (display remains blank) check that the batteries are not exhausted.

The LCD display shows the screen below.

A rectangular LCD display showing the text 'Welcome to DAB' in a monospaced font. Below the text is a bar graph consisting of five small squares.

Welcome to DAB
■■■■■

The bar graph indicates the progress of the search. As the search progresses the number of stations found will increase.

Once the scan is complete, the radio will then select the first available station. All other stations are listed in numerical then alphabetical order.

The station list is retained in the memory so the next time you select the DAB radio, the station search does not take place. The radio will simply tune to the last station played. While this is happening the LCD display shows the screen below.

A rectangular LCD display showing the text 'Now tuning...' in a monospaced font.

Now tuning...



NOTE: If there are no stations found, check that the aerial is extended and that adequate DAB coverage exists in your area.

Changing DAB Stations

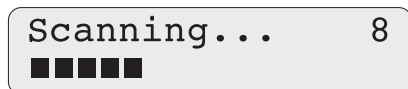
Press the **SCROLL** ▲ or ▼ button to scroll up or down through the available stations. The station names will appear on the LCD display.

When the desired station is displayed, press the **SELECT** button. The DAB radio will automatically 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 have been any new DAB stations introduced in your area you can initiate a search.

Press the **SCAN** button to activate a local search for stations. This will take approximately 10 seconds. The screen below will be shown in the LCD display.



Once complete, the station list will be updated.

If you are using your DAB radio outside of the 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 one minute.

Secondary Services

Occasionally, you may see a '>' symbol after the station name. This indicates that there are secondary services available. These services allow broadcasters to create 'part-time' channels, which are available when they are transmitting their main signal. To access a secondary service, you must tune in when a station is actually broadcasting, this allows your DAB radio to store the station in its memory.

At the time of writing, not many secondary services are available in the UK. This situation will change as more DAB stations start broadcasting.

Storing DAB Presets

You can preset up to 10 DAB stations for easy access.

Tune to the station you wish to preset.

Press the **PRESET** button, the display shows the station name in the second line or **EMPTY PRESET #**, where # is the preset number.

Use the **SCROLL ▲** or **▼** button to scroll through the presets. When the desired preset is shown, press and hold the **PRESET** button until the display shows **PRESET # SAVED**.



NOTE: *If you have already saved a FM station in a preset location, it will be overwritten with the new station.*

Selecting a Preset DAB Station

To play a preset station previously saved:

Press the **PRESET** button, the display shows the station name in the second line or **EMPTY PRESET #**, where # is the preset number.

Use the **SCROLL ▲** or **▼** button to scroll through the presets. When the desired station name is shown, press the **SELECT** button to listen to the station.

System Reset

In the unlikely event that your CD Player locks-up, you can delete all of the preset stations and return it to its factory settings as follows.

Press and hold the **MENU** button until the following screen is displayed. Release the **MENU** button.

Press **SELECT** to
confirm reset

To confirm the system reset, press the **SELECT** button. The LCD display will show **WELCOME TO DAB** and will start to scan for available DAB stations. Once the scan is complete, the DAB radio will automatically tune to the first available station.

Changing the DAB Station Information

It is possible to change the information that is displayed on the second line of the LCD display when listening to a DAB station. There are seven different types of information that can be displayed. These are:

Programme Type

This is a description of the type of programme provided by the DAB station and is provided by the broadcaster.

Network Information

This displays the name of the network that is transmitting the DAB signal.

Time and Date

This displays the time and date and is provided by the broadcaster, so it will be accurate.

Channel Information

This displays the DAB Channel and its frequency.

Transmission Rate and Audio Type

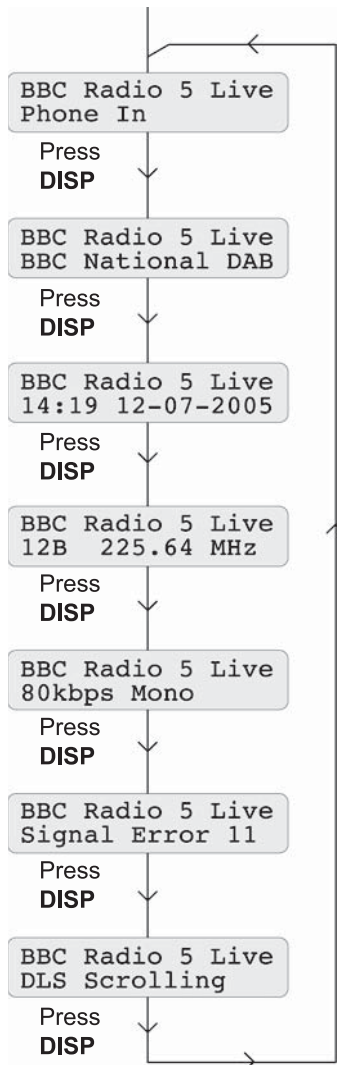
This displays the transmission bit rate and audio stream type ie mono or stereo.

Signal Error

This displays the amount of errors in the signal. It can be used as a gauge of signal quality. The the amount of errors, the higher the quality of the signal.

Scrolling Information

This displays programme information, provided by the broadcaster, which scrolls across the display.



Signal Strength

It is possible to use the LCD display to show the signal strength for the selected station.

Press the **SELECT** button. The second line of the LCD display changes from the selected information display type to show a signal bar graph as shown below.



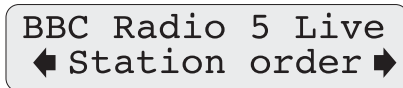
The clear box on the bar graph represents the minimum point at which a clean signal can be heard. Additional bars to the right of the clear box are an incremental improvement in signal. The more bars displayed the better the signal.

To revert to the selected information display type, press the **SELECT** button.

Station Order

It is possible to change the order in which the stations are displayed.

To change the station order, press the **MENU** button. The LCD display changes as shown below.



Use the **SCROLL ▲** or **▼** buttons to scroll through the available menu items. Once **STATION ORDER** is shown in the LCD display, press the **SELECT** button.

On the first line of the LCD display, the current station order is displayed while the second line displays the available options. To scroll through the available options, press the **SCROLL ▲** or **▼** button.

The available options are:

Fav Station

This displays the favourite stations first. During operation, the DAB radio monitors the stations that you listen to and builds a list of the ten

most listened to stations. These are identified by a heart shaped symbol.

Alphanumeric

This displays the stations in numerical then alphabetic order.

Active Station

This displays the stations which can be received in your area first, followed by the stations which cannot be received.

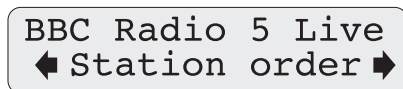
Prune Stations

This displays only the stations which can be received in your area. Stations which have no service in your area have a ? prefix. These stations are removed from the station list.

Manual Tune

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

To manually add a specific channel / frequency to the station list, press the **MENU** button. The LCD display changes as shown below.



Use the **SCROLL ▲** or **▼** button to scroll through the available menu items. Once **MANUAL TUNE** is shown in the LCD display, press the **SELECT** button.

The first line of the LCD display is blank, while the second line shows the channel and frequency information.

Use the **SCROLL ▲** or **▼** button to scroll through the available channels. When the desired channel and frequency are shown, press the **SELECT** button. The LCD display changes as shown below.



The first line of the LCD display shows the signal strength bar graph while the second line displays the channel name and DAB network.

If adequate signal strength is shown (See Signal Strength), press the **SELECT** button. This selects the station and exits the manual mode.

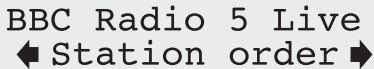
Alternatively, select a preset to exit the manual mode.

Dynamic Range Compression

The DAB radio is fitted with Dynamic Range Compression (DRC). This function is used to listen to stations at volumes while maintaining subtle effects and keeping the dialogue audible.

There are three levels of DRC that can be applied. These are 0, 1/2 and 1. Applying a DRC value of 0 will have no effect on the output. Applying either 1/2 or 1 will apply compressions of 50% and 100% respectively.

To apply a DRC value, press the **MENU** button. The LCD display changes as shown below.



BBC Radio 5 Live
◀ Station order ▶

Use the **SCROLL ▲** or **▼** button to scroll through the available menu items. Once **DRC VALUE** is shown in the LCD display, press the **SELECT** button.

On the first line of the LCD display, the current DRC value is displayed while the second line displays the available options.

Use the **SCROLL ▲** or **▼** button to scroll through the available menu items. Once the desired DRC value is shown, press the **SELECT** button. The DRC value is applied and the menu exited.

Software Version

It is possible to view the software version used by the CD Player.

To view the software version, press the **MENU** button. The LCD display changes as shown below.

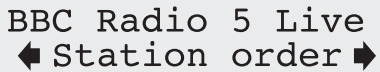


BBC Radio 5 Live
◀ Station order ▶

Use the **SCROLL ▲** or **▼** button to scroll through the available menu items. Once **SW VERSION** is shown in the LCD display, the current software version can be viewed on the first line of the LCD display.

Language Type

To view the language type, press the **MENU** button. The LCD display changes as shown below.



BBC Radio 5 Live
◀ Station order ▶

Use the **SCROLL ▲** or **▼** button to scroll through the available menu items. Once **LANGUAGE** is shown in the LCD display, the current language can be viewed on the first line of the LCD display.

To Turn the Radio Off

Set the **FUNCTION** switch to **POWER OFF**.

Playing the FM Radio

To Turn the Radio On

Set the **FUNCTION** switch to **Tuner**.

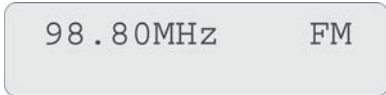
Press the **FM/DAB** button to select **FM**, the display will show the previously set FM frequency.

Manual Tune

To manually tune to a station press the **SCROLL ▲** or **▼** button.

Each press of a **SCROLL** button will increase or decrease the frequency by 0.05MHz.

An example display is shown below.



Auto Tune

To automatically tune to the next available station press the **SCAN** button to begin the search.



The station found will play, the display will show it's frequency.

An example display is shown below.



To force a **SCAN** to start searching up or down the frequency band press the **SCROLL ▲** or **▼** button respectively prior to pressing the **SCAN** button.

Storing FM Presets

You can preset up to 10 FM stations for easy access.

Tune to the station you wish to preset.

Press the **PRESET** button, the display shows **EMPTY PRESET #**, in the second line, where # is the preset number.

Use the **SCROLL ▲** or **▼** button to scroll through the presets. When the desired preset is shown, press and hold the **PRESET** button until the display shows **PRESET # SAVED**.



NOTE: *If you have already saved a FM station in a preset location, it will be overwritten with the new station.*

Playing FM Presets

To play a preset station previously saved:

Press the **PRESET** button, the display shows the station frequency in the second line or **EMPTY PRESET #**, where # is the preset number.

Use the **SCROLL ▲** or **▼** button to scroll through the presets. When the desired station frequency is shown, press the **SELECT** button to listen to the station.

To Turn the Radio Off

Set the **FUNCTION** switch to **POWER OFF**.

Aerial

For best FM reception, extend the telescopic aerial located at the rear of the CD Player. Move it around until you get the best reception.

Playing CDs

Loading CDs

Set the **FUNCTION** switch to **CD**.

To open the CD compartment lid press the **OPEN** button.

Place the CD in the compartment with the label side facing upwards.

Close the compartment lid. When fully closed, the CD Player starts to spin the disc. The display shows the total number of tracks on the CD.

You can open the CD compartment at any time.

Only remove the CD when it has stopped spinning.

Error Compensation

The CD Player has built in error compensation circuits which enable it to keep playing despite any minor defects in the tracks. However if the defects are too great, the CD Player may skip some tracks during play.

Playing

Once you have loaded a CD, press the **PLAY/PAUSE ►►** button to start the CD playing.

To stop play, press the **STOP ■** button.

Skip Forward or Reverse Through Tracks

To select the next track, press the **FORWARD SKIP ►►** button. If you are on the last track of the disc, the player moves to track 1.

To go back to the beginning of the current track press the **REVERSE SKIP ◄◄** button once.

To go back to the previous track, press the **REVERSE SKIP ◄◄** button twice.

To play a particular track, load the CD in the CD Player and press and hold the **FORWARD SKIP ►►** button until the track number you want is shown on the LED display. Press the **PLAY/PAUSE ►►** button to start playing.

Pause

To stop a track temporarily, press the **PLAY/PAUSE ►||** button. The disc pauses at the current play position. The current track flashes and the PLAY indicator turns off.

To resume play, press the **PLAY/PAUSE ►||** button again.

Programmed Track Selection

You can set your CD Player to play a selection of tracks from the CD.

To Select Specific Tracks

Make sure nothing is playing.

Press the **PROG** button. The **PROG** indicator flashes and the sequence number of the track within the program.

Press the **REVERSE SKIP ◀◀** button or the **FORWARD SKIP ▶▶** button to display the track number you want.

Press the **PROG** button to select the track.

Press the **REVERSE SKIP ◀◀** button or the **FORWARD SKIP ▶▶** button to display the next track number you want.

Press the **PROG** button to select the track.

Repeat these steps until all the tracks you want are stored. You can select a track more than once.



NOTE: *You can select up to a maximum of 20 tracks.*

Press the **PLAY/PAUSE ►||** button. The first programmed track is displayed, your selection starts playing and the **PROG** indicator flashes.

After the programmed tracks have played, the CD Player stops automatically and your programmed tracks are cleared.



NOTE: *If, during track selection, you press the **PLAY/PAUSE ►||** button before pressing the **PROG** button the track is not stored in the program memory and the disc starts playing from the first selected track.*

Repeat Disc Play

You can set the CD Player to repeat play a single track or the programmed track selection.

To Repeat a Single Track

Press the **REVERSE SKIP** ◀◀ button or the **FORWARD SKIP** ▶▶ button to select a track.

Press the **REP** button repeatedly until the REP indicator display flashes to indicate the track repeat is on.

Press the **PLAY/PAUSE** ▶|| button. The selected track plays continuously until you press the **STOP** ■ button or press the **REP** button until REP indicator turns off.

To Repeat the Whole Disc

Press the **REP** button repeatedly until the REP indicator shows constantly. This indicates that repeat whole disc is on

Press the **PLAY/PAUSE** ▶|| button. The entire disc plays continuously until you press the **STOP** ■ button or press the **REP** button until REP indicator turns off.

To Repeat a Programmed Selection

Select your tracks as shown in programmed track selection on page 24.

Press the **REP** button until the REP indicator shows constantly.

Press the **PLAY/PAUSE** ▶|| button. The programmed tracks play continuously until you press the **STOP** ■ button or press the **REP** button until the REP indicator turns off.

Using the Cassette Recorder

Inserting a Cassette Tape.

Press the **STOP/EJ** button to open the cassette door.

Insert your cassette tape into the compartment with the exposed section of the tape facing upwards. The side that you wish to listen to or record onto should be facing towards you. Push the cassette door until it locks in place.

To remove your cassette tape, press the **STOP/EJ** button to open the cassette door, then lift the cassette out.

Playing a Cassette Tape

Move the **FUNCTION** selector to **Tape**.

Insert the cassette tape with the side that you want to listen to facing you, close the cassette door and press the **PLAY** button.

When the end of the tape is reached, the mechanism will stop automatically. If you wish to play the other side of the tape, remove the cassette, turn it round so that the other side is facing you, insert and press the **PLAY** button.

Press the **F.FWD** button to wind forwards through the tape.

Press the **REW** button to wind backwards through the tape.

Press the **STOP/EJ** button when you have finished.

To avoid damage to the cassette mechanism and your tapes, always press the **STOP/EJ** button between each operation.

Recording

The Cassette Player incorporates an 'Automatic Level Control' which sets the recording level for optimum performance.

Recording from the Radio

Move the **FUNCTION** selector to **Tuner**, press the **FM/DAB** button to select **FM** or **DAB** and tune to a desired station.

Insert a blank cassette tape with the side that you want to record onto facing you.

To start the recording press the **RECORD** button (the **PLAY** button will engage automatically).

To stop recording, press the **STOP/EJ** button.



NOTE: *You will not be able to press **RECORD** unless there is a cassette tape in the recorder. Similarly you will not be able to press the **RECORD** button if a pre-recorded cassette tape that has had its tab removed, is inserted. See “Preventing Accidental Erasure” on page 32.*

Recording from CD



NOTE: *Copyright laws may apply to the music you are intending to record. Infringement of these laws may result in prosecution. If in doubt, seek advice before making your recording.*

Move the **FUNCTION** selector to **CD**.

Insert the CD you wish to record from. The CD LED display will show the total number of tracks on the CD.

Insert a blank cassette tape with the side that you want to record onto facing you.

To commence recording press the **RECORD** button (the **PLAY** button will engage automatically).

To copy the entire CD, wait a few seconds then press the **PLAY/PAUSE** button. The CD LED display shows the track currently playing and the **PLAY** indicator.

The duration of the CD may exceed the time available on one side of your tape (usually 30 or 45 minutes). When the end of the tape is reached the recording will stop automatically. If this happens press the CD **PLAY/PAUSE** **▶||** button to pause the CD. Remove the cassette, turn it round so that the other side is facing you and insert it.

Press **RECORD**, wait a few seconds then press the CD **PLAY/PAUSE** **▶||** button to release the CD pause. You will then continue recording the remainder of the CD onto the other side of the cassette.

Remember to skip back to the previous track on the CD to avoid missing any of the music.

Press the **STOP** button to stop recording at any time.

To listen to your recording:

Move the **FUNCTION** selector to **Tape** and press the **PLAY** button.

Help and Advice

The CD Player Does Not Power Up

1. If using the mains supply, ensure that the plug is connected to the mains socket and the fuse is not blown.
2. If using batteries, make sure the batteries are not discharged.

The DAB Radio Does Not Initiate (display remains blank)

1. This may occur if you are using batteries to power the unit and they are exhausted.

CD Does Not Play

1. Check that the CD has been correctly loaded, with the label facing upwards.
2. Check the format of the disc is supported.
3. Make sure the CD is not dirty or scratched. If it is dirty, clean the CD. See "Handling and Cleaning CDs" on page 30.
4. There may be condensation on the optical lens. Wait 30 minutes and try again.

CD Skips

1. If the CD skips, it may be dirty or the CD Player maybe subject to excessive vibration.
2. Clean the CD lens. See "Cleaning the Optical Lens" on page 31.

No Sound

1. Ensure that headphones are not plugged in.
2. Ensure the volume on the CD Player is set to an audible level.

Poor Radio Reception

1. Make sure the aerial is positioned for the best signal.
2. Adjust the tuning to improve reception.
3. You are getting interference from electrical appliances or a TV nearby. Reposition the CD Player to reduce interference.



NOTE: *If none of the above suggestions seem to work, try switching your CD Player off and then on again.*

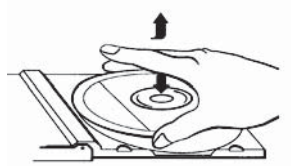


WARNING! IF THIS DOES NOT WORK, CONTACT EITHER YOUR SUPPLIER OR A QUALIFIED REPAIR TECHNICIAN. NEVER ATTEMPT TO REPAIR A CD PLAYER YOURSELF.

Internet: www.goodmans.co.uk

Care and Maintenance

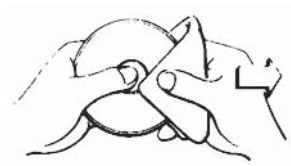
Handling and Cleaning CDs



To remove a CD from its storage case, press down on the centre of the case and lift the CD out.



Hold the CD by the edges, to avoid touching the recorded side of the CD.



Fingerprints and dust should be carefully wiped from the CD's surface with a soft cloth. CDs have no grooves to collect dust and microscopic debris so gently wiping with a soft cloth should remove most particles. Wipe in a straight line from the inside to the outside of the CD. Small dust particles and light stains should have no effect on reproduction quality.

Never use chemicals such as record sprays, antistatic sprays, benzene, or thinners to clean the CDs. These chemicals can irreparably damage the CD's surface.

CDs should be returned to their cases after use. This avoids serious scratches that could cause the laser pickup to skip.

Do not expose CDs to direct sunlight, high humidity, or high temperatures for extended periods. Exposure to high temperatures can warp the CD.

Do not stick paper or write anything with a ball point pen on the label side of the CD.

Cleaning the CD Player

Wipe with a soft cloth. If the CD Player is very dirty, dampen the cloth with a weak solution of neutral detergent and water and then wipe clean.

Dry thoroughly.

Cleaning the Optical Lens

Using a camera lens brush/blower, blow on the lens a couple of times, then wipe it lightly with the brush to remove any dust. Then blow on the lens once more.



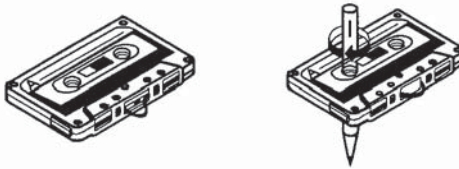
Cassette Tape Care

You can help avoid two of the most common problems of cassette usage.

- Jamming - which causes uneven playback speed.
- Tangling - where the tape wraps itself around the mechanism.

To reduce the possibility of these problems occurring, the following precautions should be observed.

- Check that there are no loose layers of tape visible through the window in the cassette.



- Use a pencil or hexagonal shaped ballpoint pen to wind along any loose layers before inserting the cassette into your machine.

If the cassette feels 'tight' when winding the tape with a pencil or pen, the tape may be jamming due to ridges formed in the winding of the tape. You can see these through the cassette window. In most cases, you can remove these ridges by fast forwarding the tape from one end to the other in your cassette player.

- Use only good quality ferric cassettes (IEC Type 1) for making recordings. Avoid C-120 cassettes as the tape material deteriorates much quicker.
- Always avoid exposing cassettes to direct sunlight, dust or oil.
- Do not place your cassette near a magnetic field such as a television or loudspeaker. Magnetic fields may reduce the tape sensitivity resulting in increased noise or damage to your recording.
- Do not touch the surface of the tape.

Preventing Accidental Erasure

To Prevent accidental erasure, break off the tab on the rear of the tape as shown below.



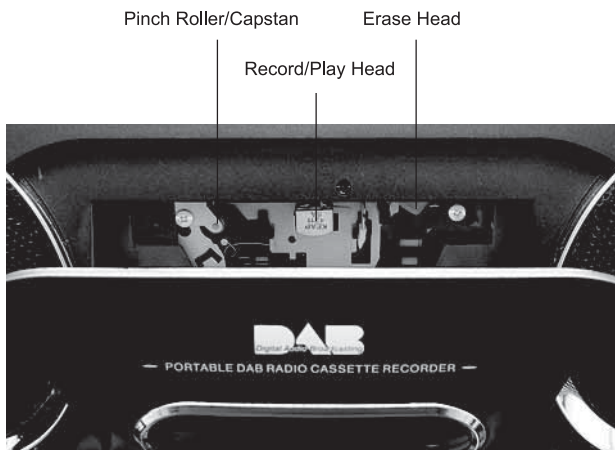
Recording on the side of the tape is no longer possible. You can make recording possible again by covering the hole with a piece of adhesive tape as shown above right.

Cleaning the Tape Heads

The tape heads and capstan require occasional cleaning to remove particles of metal oxide coating that wear off cassette tapes.

Unplug the mains supply.

- Press the **STOP/EJ** button to open the cassette door, then gently clean the Erase Head, Record/Play Head and Pinch Roller/Capstan with a soft cloth or cotton bud, dampened in isopropyl alcohol or proprietary tape head cleaner.



Guarantee

This product is guaranteed for 12 months from the date of original purchase. If any defect arises due to faulty materials or workmanship, the unit will either be replaced, a refund given 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 is only valid within the boundaries of the country of purchase.
- The product must be correctly assembled and operated in accordance with the instructions contained in this booklet.
- The guarantee does not cover accidental damage, misuse, or consumable items.
- The guarantee will be rendered invalid if the product is resold or has been damaged by inexperienced repair.
- The manufacturer disclaims any liability for incidental or consequential damages.

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

Technical Specifications

Power Supply:	AC: 230-240V 50Hz DC: 12V (8 x C size batteries) CR2025 3V Lithium Battery for Remote Control
Power Consumption:	12 Watts
Radio Frequency Coverage:	FM: 87.5 to 108 MHz DAB: Band III 174 MHz to 240 MHz
CD Disc Type:	CD, CD-R and CD-RW
Cassette Tape Speed:	4.75 CM/SEC
Headphones:	3.5mm stereo jack plug, 8-32 ohms

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