



# Panasonic®

## Operating Instructions

### CD Stereo System

Model No. **SC-PMX2DB**

Before connecting, operating or adjusting this product, please read the instructions completely. Please keep this manual for future reference.

**Note:**

"EB" on the packaging indicates the United Kingdom.

Operations in these instructions are described using remote control, but you can do the operations with the main unit if the controls are the same.

Your unit may not look exactly as illustrated.

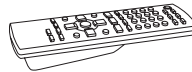
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#### SUPPLIED ACCESSORIES

Please check and identify the supplied accessories. Use numbers indicated in parentheses when asking for replacement parts. (As of February 2007)

1 x Remote control



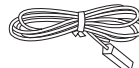
(N2QAYB000081)

1 x AC mains lead



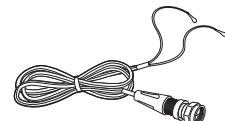
(K2CT3CA000004)

1 x FM indoor antenna



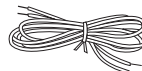
(RSA0007-L1)

1 x DAB "T" antenna



(N1EADY0000001)

2 x Speaker cables



(RFAV0074-1)

1 x Antenna plug adaptor



(K1YZ02000013)

2 x Remote control batteries



**COMPACT**  
**disc**  
DIGITAL AUDIO

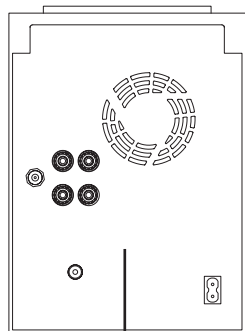
**DAB**  
Digital Audio Broadcasting

## Dear customer

Thank you for purchasing this product.  
For optimum performance and safety, please read these instructions carefully.

These operating instructions are applicable to the following system.

<b>System</b>	<b>SC-PMX2DB</b>
<b>Main unit</b>	<b>SA-PMX2DB</b>
<b>Speakers</b>	<b>SB-PMX2</b>



Back of product



<b>CAUTION</b>	CLASS 1M INVISIBLE LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. JEC0825-1 +A2/ Class 1M
<b>WARNING</b>	KLASS 1M OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRÄKTA EJ STRÅLEN DIREKT GENOM OPTISKT INSTRUMENT.
<b>FORSIGTIG</b>	USYNLIG LASERSTRÅLNING KLASSE 1M, NÄR LÄGET ER ÅBENT. UNDGA AT SE LIGE PÅ MED OPTISKE INSTRUMENTER.
<b>VARO</b>	AVATTAESSA OLET ALTITINA LUOKAN 1M NÄKYMÄTÖNTÄ LASERSÄTELYÄ. ÄLÄ KATSO OPTISELLA LAITTEILLA SUORAAN SÄTEESEEN.
<b>ATTENTION</b>	RAYONNEMENT LASER INVISIBLE, CLASSE 1M, EN CAS D'OUVERTURE. NE PAS REGARDER DIRECTEMENT À L'ŒIL DES INSTRUMENTS D'OPTIQUE.
<b>VORSICHT</b>	UNSICHTBARE LASERSTRAHLUNG KLASSE 1M, WENN ABDECKUNG GEÖFFNET. NICHT DIREKT MIT OPTISCHEN INSTRUMENTEN BETRACHTEN.

Inside of product

### ■ Sales and Support Information (For the United Kingdom and Republic of Ireland)

#### Customer Care Centre

- For UK customers: 08705 357357
- For Republic of Ireland customers: 01 289 8333
- Visit our website for product information
- E-mail: [customer.care@panasonic.co.uk](mailto:customer.care@panasonic.co.uk)

#### Direct Sales at Panasonic UK

- Order accessory and consumable items for your product with ease and confidence by phoning our Customer Care Centre Monday-Friday 9:00am-5:30pm. (Excluding public holidays)
- Or go on line through our Internet Accessory ordering application at [www.panasonic.co.uk](http://www.panasonic.co.uk)
- Most major credit and debit cards accepted.
- All enquiries transactions and distribution facilities are provided directly by Panasonic UK Ltd.
- It couldn't be simpler!
- Also available through our Internet is direct shopping for a wide range of finished products, take a browse on our website for further details.

*Interested in purchasing an extended guarantee?*  
Please call 0870 240 6284 or visit our website  
[www.panasonic.co.uk/guarantee](http://www.panasonic.co.uk/guarantee).

## Safety precautions

### Placement

Set the unit up on an even surface away from direct sunlight, high temperatures, high humidity, and excessive vibration. These conditions can damage the cabinet and other components, thereby shortening the unit's service life.

Place it at least 15 cm away from wall surfaces to avoid distortion and unwanted acoustical effects.

Do not place heavy items on the unit.

### Voltage

Do not use high voltage power sources. This can overload the unit and cause a fire.

Do not use a DC power source. Check the source carefully when setting the unit up on a ship or other place where DC is used.

### AC mains lead protection

Ensure the AC mains lead is connected correctly and not damaged. Poor connection and lead damage can cause fire or electric shock. Do not pull, bend, or place heavy items on the lead.

Grasp the plug firmly when unplugging the lead. Pulling the AC mains lead can cause electric shock.

Do not handle the plug with wet hands. This can cause electric shock.

### Foreign matter

Do not let metal objects fall inside the unit. This can cause electric shock or malfunction.

Do not let liquids get into the unit. This can cause electric shock or malfunction. If this occurs, immediately disconnect the unit from the power supply and contact your dealer.

Do not spray insecticides onto or into the unit. They contain flammable gases which can ignite if sprayed into the unit.

### Service

Do not attempt to repair this unit by yourself. If sound is interrupted, indicators fail to light, smoke appears, or any other problem that is not covered in these instructions occurs, disconnect the AC mains lead and contact your dealer or an authorized service center. Electric shock or damage to the unit can occur if the unit is repaired, disassembled or reconstructed by unqualified persons.

Extend operating life by disconnecting the unit from the power source if it is not to be used for a long time.

## Caution for AC mains lead



### (For United Kingdom) ("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

#### CAUTION!

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as stated below.

If in any doubt please consult a qualified electrician.

#### IMPORTANT


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

Blue: Neutral, Brown: Live.

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

**WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL  OR COLOURED GREEN OR GREEN/YELLOW.**

**THIS PLUG IS NOT WATERPROOF—KEEP DRY.**

#### Before use

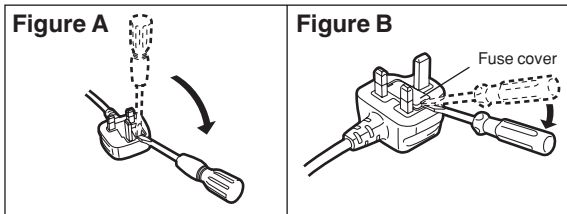
Remove the connector cover.

#### How to replace the fuse

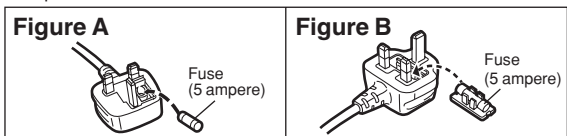
The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.



2. Replace the fuse and close or attach the fuse cover.



– If you see this symbol –

#### Information on Disposal for Users of Waste Electrical & Electronic Equipment (private households)



This symbol on the products and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste.

For proper treatment, recovery and recycling, please take these products to designated collection points, where they will be accepted on a free of charge basis. Alternatively, in some countries you may be able to return your products to your local retailer upon the purchase of an equivalent new product.

Disposing of this product correctly will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling. Please contact your local authority for further details of your nearest designated collection point.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

#### For business users in the European Union

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

#### Information on Disposal in other Countries outside the European Union

This symbol is only valid in the European Union.

If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

## Placement of speakers



Place the speakers so that the tweeter is on the inside.

#### Use only the supplied speakers.

The combination of the main unit and speakers provide the best sound. Using other speakers can damage the unit and sound quality will be negatively affected.

#### Note

- Keep your speakers at least 10 mm away from the system for proper ventilation.
- These speakers do not have magnetic shielding. Do not place them near televisions, personal computers or other devices easily influenced by magnetism.
- To avoid damage to the speakers, do not touch the speaker cones if you have taken the nets off.

#### Caution

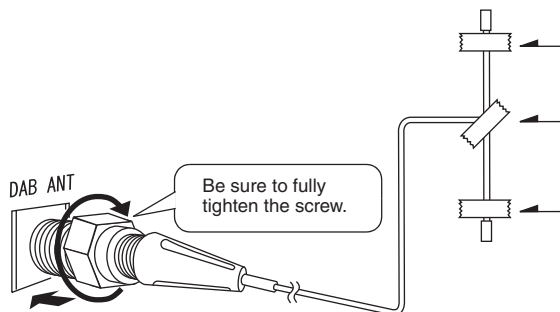
- Use the speakers only with the recommended system. Failure to do so can damage the amplifier and speakers, and can cause fire. Consult a qualified service person if damage occurs or if a sudden change in performance is apparent.
- Do not attach these speakers to walls or ceilings.

### Step 1 - Making the connections

Connect the AC mains lead only after all other connections have been made.

#### 1 Connect the DAB "T" antenna

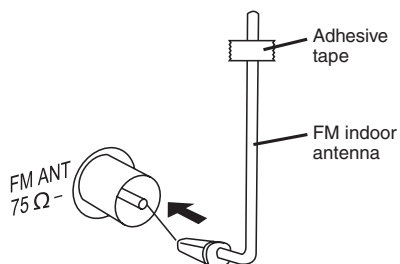
The cross bar of the T should be kept firmly stretched.  
Find a position with good reception.  
There is a function on the unit to check signal quality.



#### For best reception

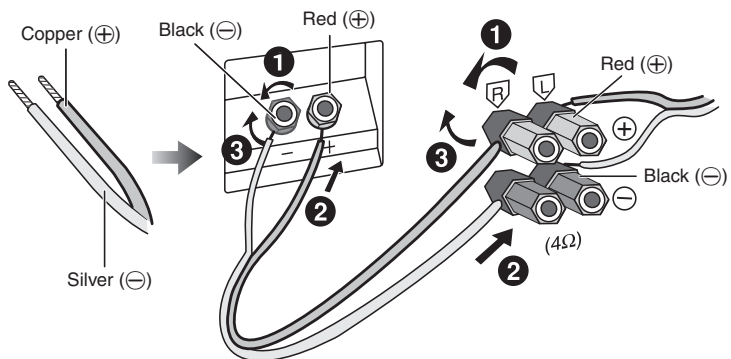
A DAB outdoor antenna is recommended (➔ page 6).

#### 3 Connect the FM indoor antenna.



Tape the antenna to a wall or column, in a position with least amount of interference.

## 2 Connect the speaker cables.



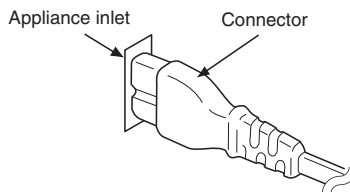
Incorrect connection can damage the unit.

## 4 Connect the AC mains lead.

**READ THE CAUTION FOR THE AC MAINS LEAD ON PAGE 3 BEFORE CONNECTION.**

The included AC mains lead is for use with this unit only. Do not use it with other equipment.

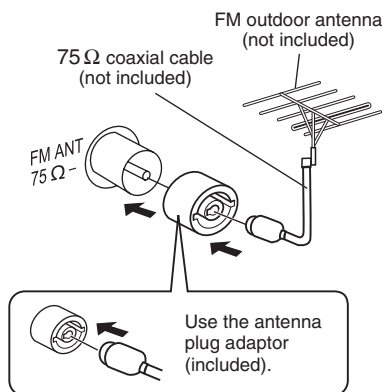
### Insertion of connector



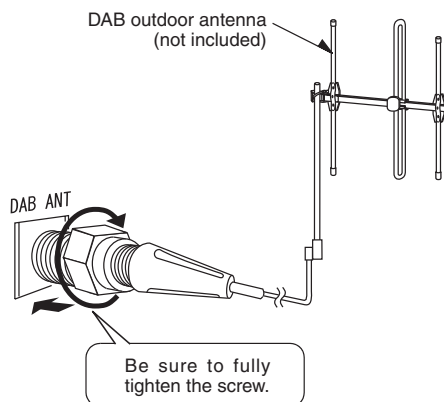
Even when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector may jut out as shown in the drawing. However there is no problem using the unit.

## Optional antenna connections

### FM outdoor antenna

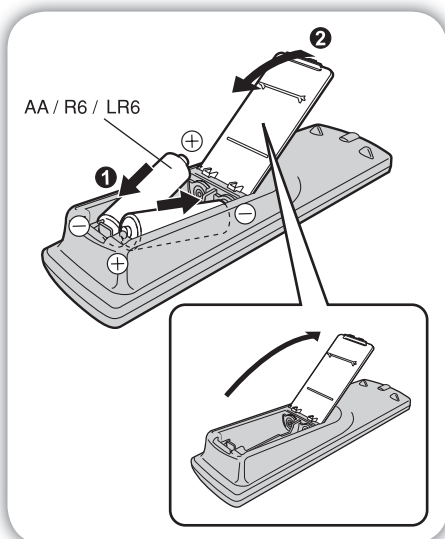


### DAB outdoor antenna



- Never use an outdoor antenna during a lightning storm.
- You can connect the FM outdoor antenna for better reception. Please consult your dealer for installation.
- Disconnect the FM indoor antenna if an FM outdoor antenna is installed.

## Step 2 - Inserting batteries into the remote control



### ■ Batteries

- Insert so the poles (+ and -) match those in the remote control.
- Remove if the remote control is not going to be used for a long period of time. Store in a cool, dark place.
- Do not use rechargeable type batteries.
- Mishandling of batteries in the remote control can cause electrolyte leakage, which may cause a fire.

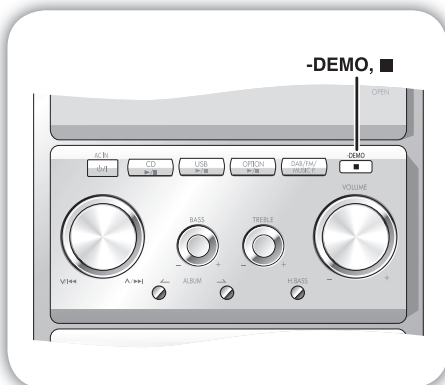
### Do not:

- mix old and new batteries;
- use different types of batteries at the same time;
- heat or expose to flame;
- take apart or short-circuit;
- attempt to recharge alkaline or manganese batteries;
- use batteries if their covering has been peeled off.

### ■ Use

Aim at the remote control sensor, avoiding obstacles, at a maximum range of 7 m directly in front of the unit.  
Refer to page 7 for remote control signal sensor position.

## Step 3 - DEMO function



When the unit is first plugged in, a demonstration of its functions may be shown on the display.  
If the demo setting is off, you can show a demonstration by selecting "DEMO ON".

### Press and hold [-DEMO, ■].

The display changes each time the button is held down.

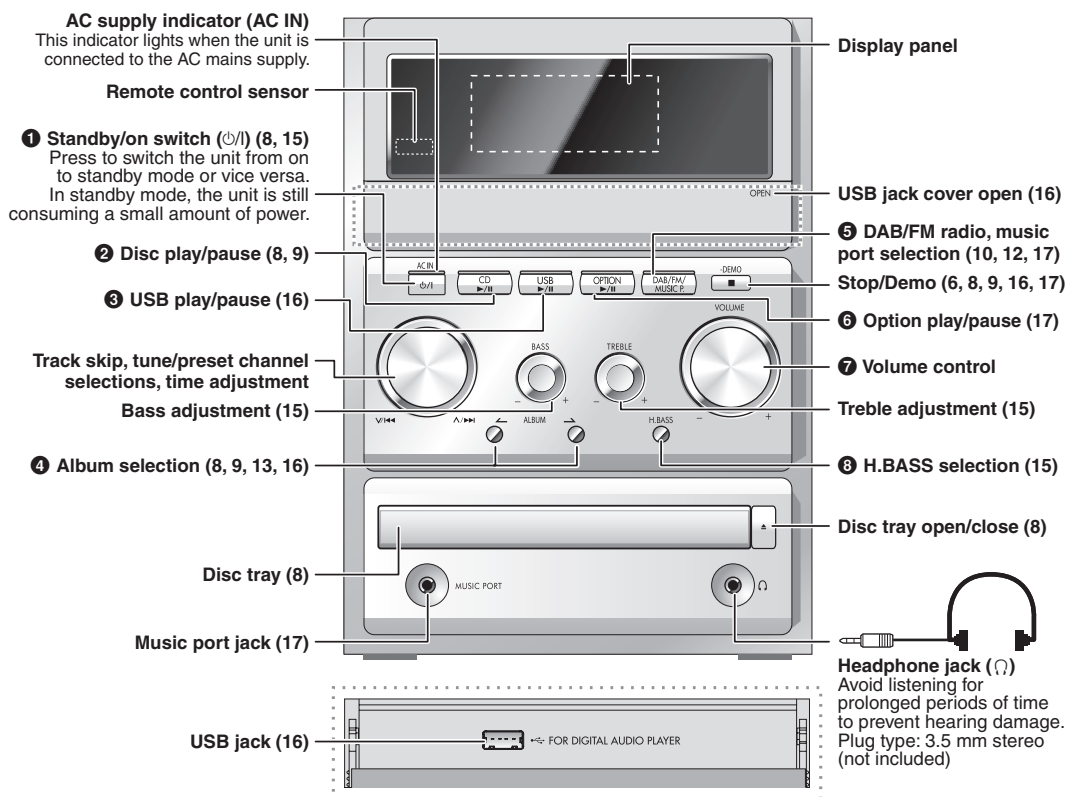
→ DEMO OFF → DEMO ON

While in standby mode, select "DEMO OFF" to reduce power consumption.

# Overview of controls

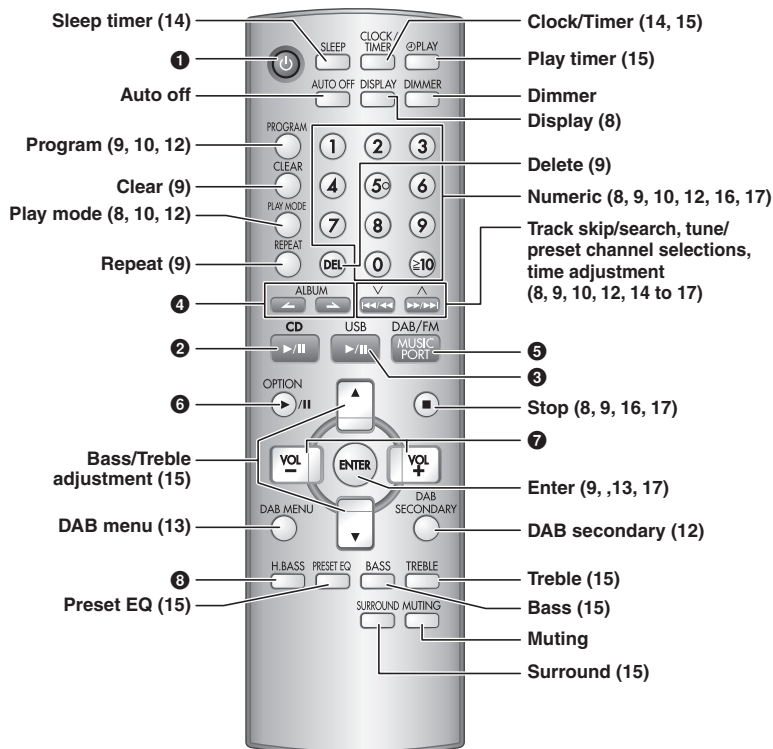
## Main unit

Refer to the numbers in parentheses for page reference.



## Remote control

Buttons such as **1** function the same as the controls on the main unit.



This function allows you to turn off the unit in **disc or USB** mode only after left unused for 10 minutes. The setting is maintained even if the unit is turned off.

**AUTO OFF**

Dims the display panel.

**DIMMER**

Mutes the sound.

**MUTING**

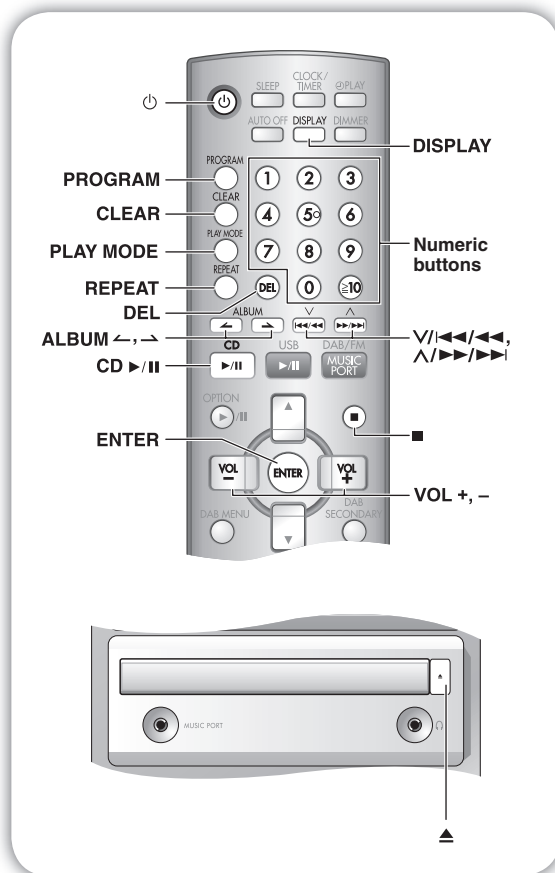
- Press the button to activate.
- Press again to cancel.

This function allows you to scroll the display setting faster than current setting.

**DISPLAY**

- Press and hold [DISPLAY] until the "FAST SCROLLING ON" is displayed.
- To cancel, press and hold [DISPLAY] again unit "FAST SCROLLING OFF" is displayed.



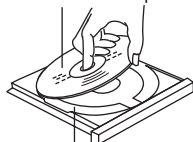


## Basic play

CD MP3

- 1 Press [⏻] to turn the unit on.
- 2 Press [▲] to open the disc tray and then load the disc. Press [▲] again to close the tray.

Label must face upward



Disc tray

- 3 Press [CD ▶/||] to start play.
- 4 Adjust the volume.

To	Action
stop the disc	Press [■].
pause play	Press [CD ▶/  ]. Press again to resume play.
skip tracks	Press [V/◀◀/▶▶] or [^/▶▶/▶▶].
search through tracks	Press and hold [V/◀◀/▶▶] or [^/▶▶/▶▶] during play or pause.
CD	
skip album	Press [ALBUM ◀ or ▶] in the play mode.
MP3	Press [ALBUM ◀ or ▶] once and then the numeric buttons in the stop mode.

## Play Mode function

CD MP3

- 1 Press [CD ▶/||].
- 2 Press [PLAY MODE] to select the desired mode.

Mode	To play
1-TRACK 1TR	one selected track on the disc. Press the numeric buttons to select the track.
1-ALBUM 1ALBUM MP3	one selected album on the disc. Press [ALBUM ◀ or ▶] to select the album.
RANDOM RND	a disc randomly.
1-ALBUM RANDOM 1ALBUM RND MP3	all tracks in one selected album randomly. Press [ALBUM ◀ or ▶] to select the album.

### Note

- During RANDOM or 1-ALBUM RANDOM play, you cannot skip to tracks that have been played.
- The current play mode is cleared when you open the disc tray.

CD

- During RANDOM play, you can search backward or forward only within the current track.

## Display function

This function allows you to display the information of the current track.

Press [DISPLAY] repeatedly during play or pause mode.

CD

→ Elapsed play time → Remaining play time →

MP3

Elapsed play time → Remaining play time → Album name → Track name  
ID3 (Artist) → ID3 (Track) → ID3 (Album) ←

### Note

- Maximum number of displayable characters: approximately 30
- This unit supports ver. 1.0 & 1.1 ID3 tags. Text data that is not supported will not be displayed.
- ID3 is a tag embedded in MP3 tracks to provide information about the track.



## Advanced play

### Repeat play

You can repeat program play or other selected play mode.

CD MP3

**Press [REPEAT] before or during play.**

"CD" is displayed.

**To cancel**

**Press [REPEAT] again.**

"CD" is cleared.

### Program play

This function allows you to program up to 24 tracks.

CD

- 1 Press [CD ▶/II] and then [■].**
- 2 Press [PROGRAM].**
- 3 Press the numeric buttons to select your desired track.**  
Repeat this step to program other tracks.
- 4 Press [CD ▶/II] to start play.**

MP3

- 1 Press [CD ▶/II] and then [■].**
- 2 Press [PROGRAM].**
- 3 Press [ALBUM ◀ or ▶] to select your desired album.**
- 4 Press [↖▶▶/▶▶▶] once and then the numeric buttons to select your desired track.**
- 5 Press [ENTER].**  
Repeat steps 3 to 5 to program other tracks.
- 6 Press [CD ▶/II] to start play.**

For two-digit track, press [≥10] once, and then the two digits.

For three-digit track, press [≥10] twice, and then the three digits.

To	Action
cancel program mode	Press [PROGRAM] in the stop mode.
replay the program	Press [PROGRAM] then [CD ▶/II].
check program contents	Press [↖/◀◀/◀◀] or [↖▶▶/▶▶▶] when "PGM" is displayed in the stop mode. To check while programming, press [PROGRAM] twice after "PGM" appears, then press [↖/◀◀/◀◀] or [↖▶▶/▶▶▶].
add to the program	CD Repeat step 3 in the stop mode. MP3 Repeat steps 3 to 5 in the stop mode.
clear the last track	Press [DEL] in the stop mode.
clear all programmed tracks	Press [CLEAR] in the stop mode. "CLEAR ALL" is displayed.

#### Note

- When you try to program more than 24 tracks "PROGRAM FULL" appears.
- The program memory is cleared when you open the disc tray.

CD

- During program play, you can search backward or forward only within the current track.

#### Note

- This unit can play MP3 files and CD-DA format audio CD-R/RW that have been finalized.
- It may not be able to play some CD-R/RW depending on the condition of the recording.
- Do not use irregularly shaped discs.
- Do not use discs with labels and stickers that are coming off or with adhesive exuding from under labels and stickers.
- Do not attach extra labels or stickers on the disc.
- Do not write anything on the disc.

CD

- This unit can access up to 99 tracks.
- Choose a CD with this mark:

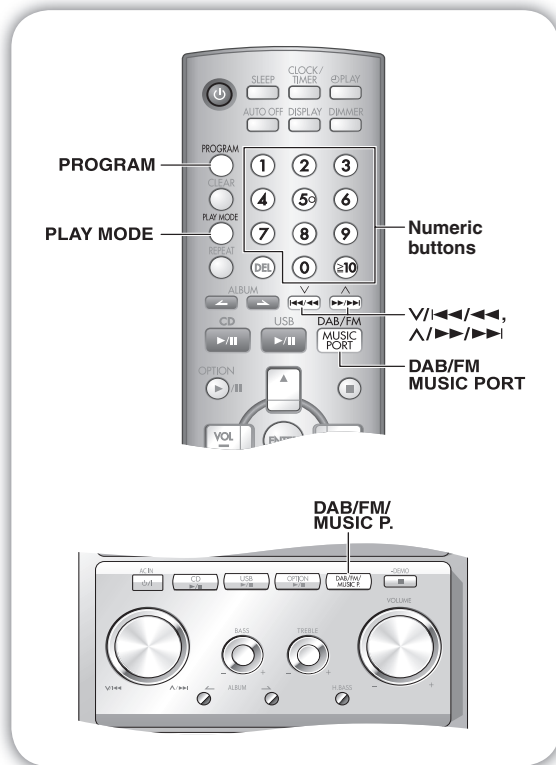


### Using DualDiscs

The "CD" sides of DualDiscs do not meet the CD-DA standard so it may not be possible to play them on this unit.

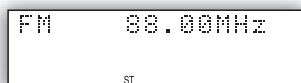
MP3

- Files are treated as tracks and folders are treated as albums.
- This unit can access up to 999 tracks, 255 albums and 20 sessions.
- Files must have the extension: ".MP3" or ".mp3".
- Disc must conform to ISO9660 level 1 or 2 (except for extended formats).
- To play in a certain order, prefix the folder and file names with the 3-digit numbers in the order you want to play them.



## Manual tuning

- 1 Press [DAB/FM/MUSIC PORT] repeatedly to enter FM mode.
- 2 Press [PLAY MODE] to select "MANUAL".
- 3 Press [ $\nabla/\lll/\lll$ ] or [ $\wedge/\ggg/\ggg$ ] to select the frequency of the required station.



"ST" is displayed when a stereo FM broadcast is being received.

### To tune automatically

Press [ $\nabla/\lll/\lll$ ] or [ $\wedge/\ggg/\ggg$ ] for a moment until the frequency starts changing rapidly. The unit begins auto tuning, stopping when it finds a station.

- Auto tuning may not function when there is excessive interference.
- To cancel auto tuning, press [ $\nabla/\lll/\lll$ ] or [ $\wedge/\ggg/\ggg$ ] once again.

### To improve FM sound quality

Press and hold [PLAY MODE] to display "MONO".

#### To cancel

Press and hold [PLAY MODE] again until "MONO" disappears.

- MONO is also cancelled if the frequency is changed.
- Turn off "MONO" for normal listening.

## Memory preset

Up to 20 stations can be set in the FM band.

### Preparation

Press [DAB/FM/MUSIC PORT] repeatedly to select "FM".

### Automatic presetting

Press and hold [PROGRAM] to start presetting.

### Manual presetting

- 1 Press [PLAY MODE] to select "MANUAL".
- 2 Press [ $\nabla/\lll/\lll$ ] or [ $\wedge/\ggg/\ggg$ ] to tune to the required station.
- 3 Press [PROGRAM].
- 4 Press numeric buttons to select a channel.  
The station occupying a channel is erased if another station is preset in that channel.
- 5 Repeat steps 2 to 4 to preset more stations.

### Selecting a preset station

Press numeric buttons to select the channel.

For two-digit channel, press  $\geq 10$ , then the two digits.

OR

- 1 Press [PLAY MODE] to select "PRESET".
- 2 Press [ $\nabla/\lll/\lll$ ] or [ $\wedge/\ggg/\ggg$ ] to select the channel.

DAB stands for digital audio broadcasting. It is a new form of radio that is broadcast digitally. Unlike regular analogue broadcasting, digital radio deteriorates less, and is thus able to provide quality sound close to that of a disc.

## DAB structure

### Bands

There are two types of DAB bands, "BAND III" (Receivable in this unit) and "L BAND"(Not broadcast in the United Kingdom, and not receivable on this unit).

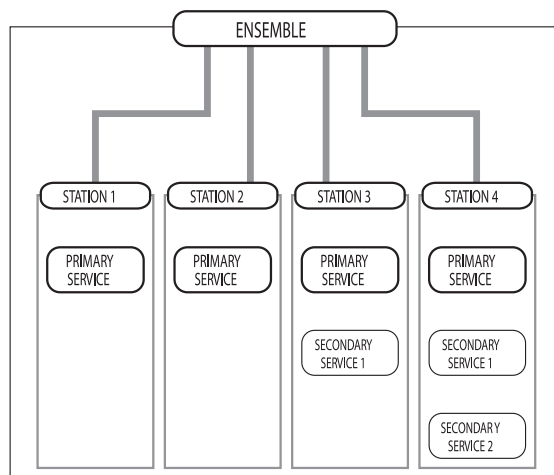
### Frequencies

There are 41 frequencies on BAND III. Among those frequencies, 7 are used in the United Kingdom (current as of February, 2007).

### Ensemble, station and service

The number of stations that make up one frequency differ between DAB and analogue radio. Analogue stations all broadcast on different frequencies, even if it is the same company doing the broadcasting. With DAB however, it is possible to broadcast a number of stations on the same frequency.

In DAB terminology, a group of stations on the same frequency is called an ensemble.



As shown in the diagram, an ensemble consists of a group of stations which have primary services, they can also have secondary services. This means, for example, that commentary on sports events from different areas can all be broadcast at once.

## DAB reception method on this unit

Depending on the region there is a difference between broadcast frequency and stations broadcast along the same frequency. For this reason, a memory of receivable stations should first be created and then select from those memorized stations as the reception method.

### DAB Auto Scan

This function searches for currently receivable stations and inputs them into unit memory.

When DAB is selected for the first time, this function starts automatically.

#### Note

Even if the station is stored into memory, some stations may not broadcast depending on the time of day etc. If this occurs, "NO SERVICE" is displayed.

### Station Memory Updating

When there is a station name change, or a new station begins broadcasting, the unit memory is automatically updated when:

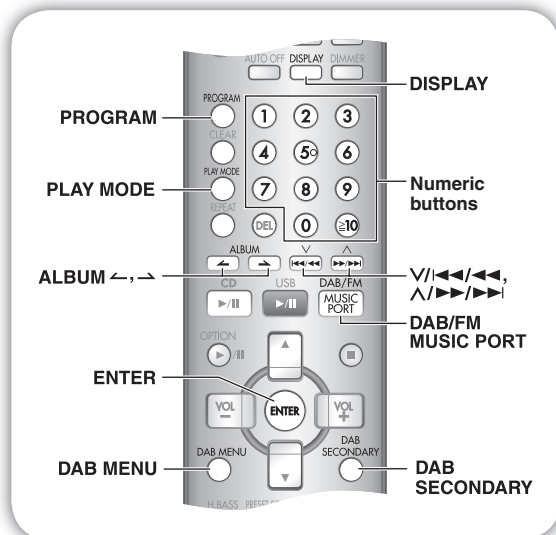
- The previous station name is displayed by selecting "STATION TUNE".
- One of the stations already broadcasting on the same frequency with the new station is displayed by selecting "STATION TUNE".

#### Note

- Deleting stations that are no longer broadcasting is not automatic. If you want to delete a station, perform Auto scan again and the new memory is created.
- When a new frequency begins broadcasting, stations on that new frequency are not automatically added to memory. Perform Auto scan to add them to memory. Also, you may need to change the Auto scan range if the new frequency is outside the factory set Auto scan range (➡ page 13).

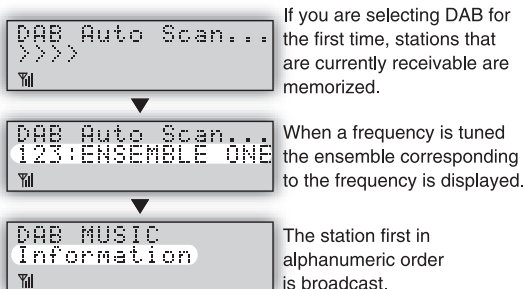
### STATION TUNE

You can select stations from the memory created as shown above in alphanumeric order. You can easily select your favorite stations by using presets (➡ page 12).



## DAB operation

- 1 Press [DAB/FM/MUSIC PORT] repeatedly to enter DAB mode.  
The unit comes on.



### Note

"Scan Failed." appears if no stations are memorized. If this occurs, adjust the antenna and try Auto scanning or change the Auto scan frequency range. (→ page 13)

- 2 Press [PLAY MODE] to select "STATION TUNE".  
Each time you press the button:  
"STATION TUNE" ↔ "PRESET TUNE"
- 3 Press [V/◀/▶] or [V/▶/▶] to select a station.  
The station name changes in alphanumeric order.

## DAB Auto Scan

Press and hold [PLAY MODE] until "DAB Auto Scan" appears.

When a frequency is tuned by Auto scanning on this unit, the ensemble corresponding to the frequency is displayed for approximately 2 seconds.

### Note

- When updating memory with Auto scan, preset stations are not erased or changed.
- When a frequency cannot be received, the previous memory is restored.
- Total stations received is displayed for approximately 2 seconds.

## Presetting

### Presetting channel

Up to 20 channels can be set.

- 1 Press [V/◀/▶] or [V/▶/▶] to select a station.
- 2 Press [PROGRAM].
- 3 Press the numeric buttons to select a channel.
- 4 To preset more stations, press [PLAY MODE] to select "STATION TUNE" and then repeat steps 1 to 3.

### Note

You cannot preset stations when the station is not broadcasting or when you are selecting a secondary service.

### Selecting a preset channel

- 1 Press [PLAY MODE] to select "PRESET TUNE".
- 2 Press [V/◀/▶] or [V/▶/▶] or numeric buttons to select a channel.

## Listening to the secondary service

Press the [DAB SECONDARY] to select the secondary service.

"☒ " is displayed if there is a secondary service broadcast.

The secondary services are selected each time the button is pressed. The primary service is returned to after the last secondary service.

## Display

Press [DISPLAY] to select the display.  
Each time you press the button:

Dynamic label  
(information about the broadcast)

DAB MUSIC  
Information

PTY display  
(program type)

DAB MUSIC  
Pop Music

Ensemble label  
(the name of the ensemble)

DAB MUSIC  
ENSEMBLE ONE

Frequency display

DAB MUSIC  
12B- 225.648MHz

Time display

DAB MUSIC  
CLOCK 12:00

## Turning automatic clock adjustment function on

To adjust the time information during DAB broadcasting and automatic time adjustment.

- 1 Press [DAB MENU] to enter menu mode.
- 2 Within 10 seconds, press [ALBUM ← or →] to select "AUTO CLOCK ADJ." and then press [ENTER].



- 3 Within 10 seconds, press [ALBUM ← or →] to select "ADJUST ON" and then press [ENTER].



Select "ADJUST OFF" to turn the automatic clock adjustment function off.

**To exit**

Press [DAB MENU] again.

## Checking the DAB signal quality

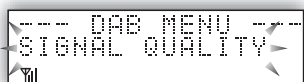
To improve reception by adjusting the antenna while monitoring signal quality on the display.

- 1 Press [DAB MENU] to enter menu mode.

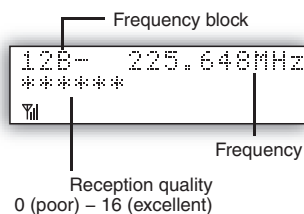
### Note

"Scan Failed." appears if no stations are memorized. If this occurs, adjust the antenna and try Auto scanning or change the Auto scan frequency range.

- 2 Within 10 seconds, press [ALBUM ← or →] to select "SIGNAL QUALITY" and then press [ENTER].



- 3 Press [ALBUM ← or →] to select the frequency.



**To exit**

Press [DAB MENU] again.

### Note

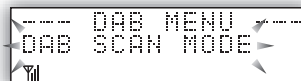
In order to enjoy the new stations after adjusting the antenna, it is necessary to perform Auto scanning to update the station memory.

## Changing the Auto scan frequency range

Only the frequencies currently used in the UK as of February 2007 on BAND III are Auto scanned ("United Kingdom", factory setting).

Select "ALL BAND III" when you want to store stations on other frequencies to memory.

- 1 Press [DAB MENU] to enter menu mode.
- 2 Within 10 seconds, press [ALBUM ← or →] to select "DAB SCAN MODE" and then press [ENTER].



- 3 Within 10 seconds, press [ALBUM ← or →] to select "United Kingdom" or "ALL BAND III" and then press [ENTER].



Auto scan begins automatically after the change has been made.

**To exit**

Press [DAB MENU] again

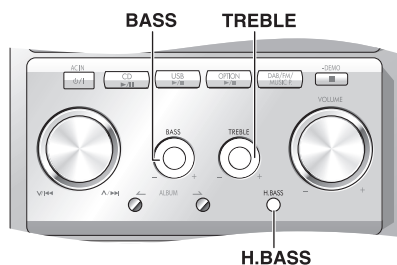
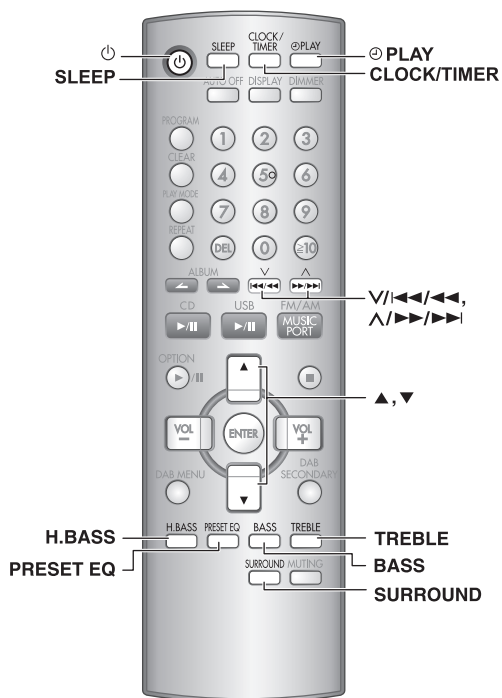
### Note

When the "DAB SCAN MODE" is changed, the DAB preset channels are erased and if the DAB play timer has been set the timer switches to off.

## ALL BAND III Frequency

Frequency block	Frequency (MHz)	Frequency block	Frequency (MHz)
5A	174.928	10N	210.096
5B	176.640	10B	211.648
5C	178.352	10C	213.360
5D	180.064	10D	215.072
6A	181.936	11A	216.928
6B	183.648	11N	217.088
6C	185.360	11B	218.640
6D	187.072	11C	220.352
7A	188.928	11D	222.064
7B	190.640	12A	223.936
7C	192.352	12N	224.096
7D	194.064	12B	225.648
8A	195.936	12C	227.360
8B	197.648	12D	229.072
8C	199.360	13A	230.784
8D	201.072	13B	232.496
9A	202.928	13C	234.208
9B	204.640	13D	235.776
9C	206.352	13E	237.488
9D	208.064	13F	239.200
10A	209.936		

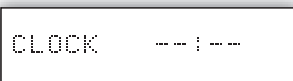
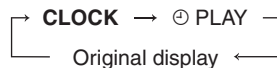
Shaded areas are frequencies used currently as February 2007 in the "United Kingdom".



## Setting the clock

This is a 24-hour clock.

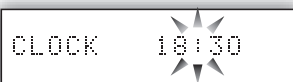
- 1 Press [CLOCK/TIMER] to select "CLOCK".  
Each time you press the button:



- 2 Within 5 seconds, press [VOLUME] or [CLOCK/TIMER] to set the time.



- 3 Press [CLOCK/TIMER] again to confirm.



## Displaying the clock

Press [CLOCK/TIMER] to display the clock for few seconds.

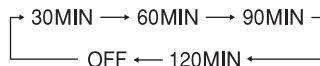
### Note

The clock may lose or gain minutes over a period of time. Readjust as necessary.

## Using the sleep timer

This function enables you to turn off the unit automatically after the set time.

Press [SLEEP] repeatedly to select your desired time.



Sleep timer indicator

## To cancel

Press [SLEEP] to select "OFF".

## Changing the remaining time

Press [SLEEP] to show the remaining time, and press [SLEEP] again to select your desired time.

### Note

- The play and sleep timer can be used together.
- The sleep timer always has priority. Be sure not to overlap timer settings.

## Sound adjustment

### Using the play timer

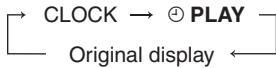
You can set the play timer to come on at a certain time to wake you up.

#### Preparation

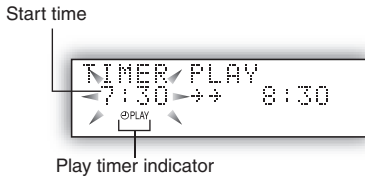
Turn the unit on and set the clock.

Prepare the music source you want to listen to; disc, radio, USB, option port or music port source, and set the volume.

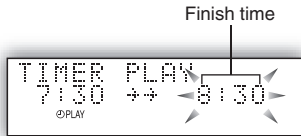
- 1 Press [CLOCK/TIMER] repeatedly to select play timer.



- 2 Within 5 seconds, press [VOLUME DOWN] or [VOLUME UP] to set the starting time.



- 3 Press [CLOCK/TIMER] to confirm.
- 4 Repeat steps 2 and 3 to set the finishing time.



#### To activate the timer

- 5 Press [⏮] to turn on the timer.  
“⏮” is displayed.
- 6 Press [⏭] to turn off the unit.  
The unit must be off for the timer to operate.

To	Action
change the settings	Repeat steps 1 to 4 and 6.
change the source or volume	1) Press [⏮] to clear the timer indicator from the display. 2) Make changes to the source or volume. 3) Perform steps 5 and 6.
check the settings (when the unit is on or in standby mode)	Press [CLOCK/TIMER] repeatedly to select ⏮.
cancel	Press [⏮] to clear the timer indicators from the display.

#### Note

- The play timer will start at the preset time, with the volume increasing gradually to the preset level.
- The timer comes on at the set time every day if the timer is on.
- The unit must be in the standby mode for the timer to function.
- If you turn the unit off and on again while a timer is functioning, the finish time setting will not be activated.
- If MUSIC PORT or OPTION port is selected as the source when the timer comes on, the system turns on and engages MUSIC PORT or OPTION port as the source. If you wish to playback from the portable audio equipment, activate the equipment's play mode and increase the volume. (See the portable audio equipment's instruction manual.)

### Selecting sound effects

You can change the sound effect by selecting Preset EQ or adjusting the bass or treble effect.

#### Preset EQ

Press [PRESET EQ] repeatedly to select your desired setting.

Setting	Effect
HEAVY	Adds punch to rock
CLEAR	Clarifies higher frequencies
SOFT	For background music
VOCAL	Adds gloss to vocal
EQ-OFF	No effect

#### Bass or treble

Enable you to enjoy the lower or higher pitch sound.

- 1 Press [BASS] or [TREBLE] to select your desired setting.

Setting	Effect
BASS	For lower pitch sound
TREBLE	For higher pitch sound

- 2 Press [▲] or [▼] to adjust the level.

#### OR

To adjust bass or treble using the main unit.

Turn [BASS] or [TREBLE] to adjust the level.

#### Note

The tone level can be varied within -4 to +4.

### Enjoying surround sound

Enable you to add natural width and depth to the stereo sound.

#### To activate

Press [SURROUND] to display “■■■■■” indicator.

#### To cancel

Press [SURROUND] again to clear “■■■■■” indicator.

#### Note

- Surround sound is less discernible when listening through headphones.
- If interference in FM stereo reception increases, cancel the surround sound effect.

### Enhancing the bass

Enable you to enjoy the powerful bass effect.

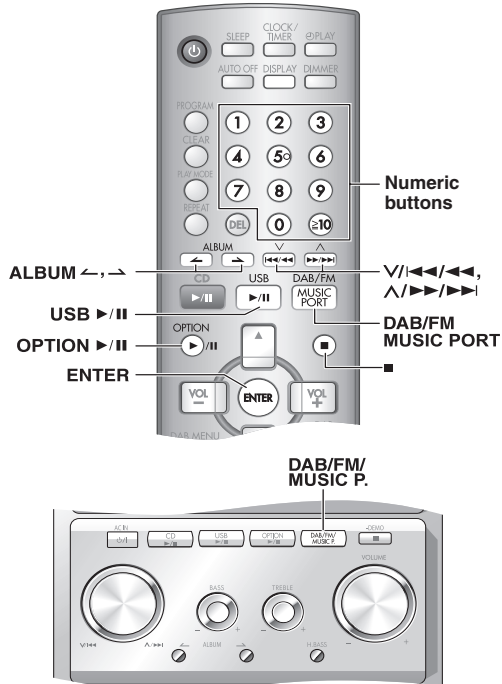
Press [H.BASS] repeatedly to select your desired setting.

LEVEL 1 → LEVEL 2 → OFF

#### Note

The actual effect depends on the disc.





To	Action
pause play	Press [USB ►/II]. Press again to resume play.
stop play	Press [■]. "RESUME" is displayed. The position is memorized. Press [USB ►/II] to resume. Press [■] again to clear the position.
skip track	Press [V/I◀◀/▶▶] or [V/I▶▶/▶▶].
skip album	Press [ALBUM ◀ or ▶] in the play mode. Press [ALBUM ◀ or ▶] once and then the numeric buttons in the stop mode.

For other operating functions, they are similar as those described in "Discs" (➡ page 8 and 9).

## Compatible devices

**Devices which are defined as USB mass storage class:**

- USB devices that support bulk only transfer.
- USB devices that support USB 2.0 full speed.

## Supported format

Files must have the extension ".mp3" or ".MP3".

### Note

- CBI (Control/Bulk/Interrupt) is not supported.
- A device using NTFS file system is not supported [Only FAT 16/32 (File Allocation Table 16/32) file system is supported].
- Depending on the sector size, some files may not work.
- This unit can access up to 255 albums (including blank folders) and 2500 tracks.
- The maximum number of tracks in a folder are 999 tracks.
- Only one memory card will be selected when connecting a multiport USB card reader. Typically the first memory card inserted.
- Do not unplug the USB device during reading or playback.
- Disconnect the USB card reader from the unit when you remove the memory card. Failure to do so may cause malfunction to the device.
- When you connect a compatible digital audio player to the USB jack, charging maybe activated. It will not charge when the unit is switch to standby mode or during option port charging.

## Connecting and playing a USB mass storage class device

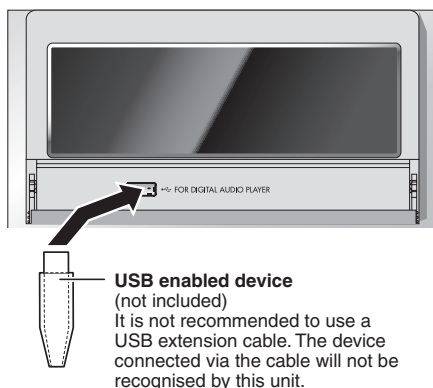
### MP3

The USB connectivity enables you to connect and play MP3 tracks from USB mass storage class. Typically, USB memory devices. (Bulk only transfer)

### Preparation

Before connecting any USB mass storage device to the unit, ensure that the data stored therein has been backed up.

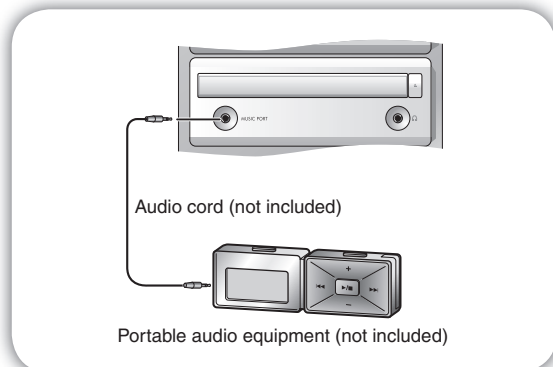
It is not recommended to use a USB extension cable. The USB device is not recognised by this unit.



- 1 Slide open the USB jack cover.
- 2 Reduce the volume and connect the USB mass storage device.
- 3 Press [USB ►/II] to start play.

## Connecting and playing a portable audio equipment

This feature enables you to enjoy music from portable audio equipment.



Switch off the equalizer function (if there is any) of the portable audio equipment before you plug into the MUSIC PORT jack. Otherwise, sound from the speaker may be distorted.

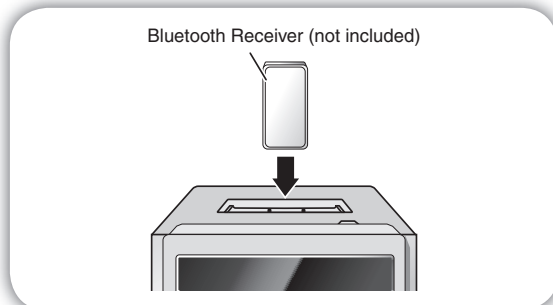
- 1 Plug the audio cord into the MUSIC PORT jack and press [DAB/FM/MUSIC PORT] repeatedly to select MUSIC PORT.
- 2 Play the portable audio equipment. (See the portable audio equipment's instruction manual.)

### Note

All peripheral components and cables are sold separately.

## Connecting and playing a Bluetooth device

By connecting a Bluetooth Receiver (e.g SH-FX570R, sold separately), you can receive and play the audio stored in your Bluetooth audio source device (personal computer, etc).



- 1 Slide open the docking mechanism cover.
- 2 Connect the Bluetooth Receiver into the option port (see the Bluetooth Receiver's instruction manual).
- 3 Press [OPTION ►/II] to select "OPTION" as the source.
- 4 Press [■].
- 5 Pairing and play your Bluetooth audio device (see the device's instruction manual).

To	Action
stop	Press [■].
pause	Press [OPTION ►/II]. Press [OPTION ►/II] to resume.
skip tracks	Press [V/◀◀/▶▶] or [V/▶▶/▶▶].

## Charging and playing an iPod

You can charge and play your iPod by connecting a Universal Dock for iPod (SH-PD10, sold separately) to this unit.

### Connecting and charging the iPod

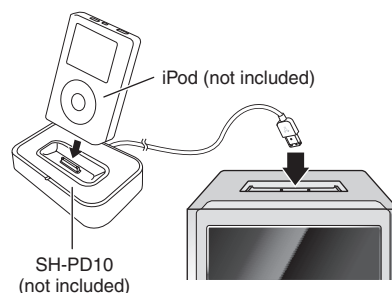
- 1 Connect the Universal Dock for iPod into the Option port.
- 2 Insert the appropriate adapter and place your iPod into the Universal Dock (See the SH-PD10's instruction manual).

### Note

- The iPod is not charging when you are in the USB mode.

### Playing the iPod

- 1 Connect the iPod as described above.



- 2 Press [OPTION ►/II] to select option as the source.

To	Action
stop	Press and hold [OPTION ►/II].
pause	Press [OPTION ►/II] or [■]. Press [OPTION ►/II] to resume.
skip tracks	Press [V/◀◀/▶▶] or [V/▶▶/▶▶].
search within tracks	Press and hold [V/◀◀/▶▶] or [V/▶▶/▶▶].

### Note

Refer to the SH-PD10's instruction manual for the compatible iPod models.

iPod is a trademark of Apple Inc., registered in the U.S. and other countries.

## Changing the remote control code

Change the code if you find the remote control unintentionally also controls other equipments.

### Change the main unit's code

- 1 Press [DAB/FM/MUSIC P.] to select "FM".
- 2 Press and hold [DAB/FM/MUSIC P.] on the main unit and then press and hold [2] (or [1]) on the remote control.  
"REMOTE 2" is displayed.

### Change the remote control's code

Press and hold [ENTER] and [2] (or [1]) on the remote control for at least 2 second.

If the remote control and main unit are using different codes, a message appears on the main unit's display showing the main unit's current code. Follow the above step to change the remote control's code to match it.

## Troubleshooting guide

Before requesting service, make the below checks. If you can't fix the system as described below, or if something not listed here occurs, refer to the enclosed directory to locate an Authorized Service Center convenient to you or contact your dealer.

### Common problems

<b>No sound.</b>	Turn the volume up. The speaker cords may not be connected properly. Turn the unit off, check and correct the connections and turn the unit on (➡ page 5).
<b>Sounds unfixed, reversed or come from one speaker only.</b>	Check the speaker connections (➡ page 5).
<b>Humming heard during play.</b>	An AC mains lead or fluorescent light is near the cables. Keep other appliances and leads away from this unit's cables. If possible in your area, turn the AC mains lead's plug or connector over to reverse the lead's polarity.
<b>"ERROR" is displayed.</b>	Incorrect operation performed. Read the instructions and try again.
<b>"-:-" appears on the display.</b>	You plugged the AC mains lead in for the first time or there was a power failure recently. Set the time (➡ page 14).
<b>"F61" is displayed.</b>	Check and correct the speaker cord connections (➡ page 4). If this does not fix the problem, there is a power supply problem. Consult the dealer.

### Listening to the radio

<b>Noise is heard. The stereo indicator flickers or doesn't light. Sound is distorted.</b>	Use an outdoor antenna (➡ page 6).
<b>A beat sound is heard.</b>	Turn the TV off or separate it from the unit.

### When there is a television set nearby

<b>The picture on the TV disappears or stripes appear on the screen.</b>	The location and direction of the antenna are incorrect. If you are using an indoor antenna, change to an outdoor antenna (➡ page 6). The TV antenna wire is too close to the unit. Separate the antenna wire of the TV set from the unit.
--	---

### Listening to DAB

<b>DAB reception is poor</b>	Keep the antenna away from computers, televisions, other cables and cords. Use an outdoor antennas (➡ page 6).
<b>DATA</b>	Data broadcast being received over the DAB broadcast signal. Cannot be used on this unit.
<b>SCRAMBLED</b>	The broadcast station being received cannot be accessed.
<b>NO SERVICE</b>	The station is currently not broadcasting.
<b>NO SIGNAL</b>	This station cannot be received. Check your antenna (➡ page 6).
<b>Scan Failed</b>	Stations are not receivable. Check your antenna and try Auto scanning (➡ page 6 and 12).
<b>STATION FULL</b>	DAB station memory is full. Use the following method to clear station memory. 1. Press [DAB MENU]. 2. Press [ALBUM ← or →] to select "STATION CLEAR". 3. Press [ENTER]. "OK? Push ENTER" is displayed. 4. Press [ENTER]. Station memory is erased and the unit automatically begins Auto scanning.

### Playing discs

<b>The display is wrong or play won't start.</b>	The disc may be upside down (➡ page 8). Wipe the disc. Replace the disc if it is scratched, warped, or non-standard. Condensation may have formed inside the unit due to a sudden change in temperature. Wait about an hour for it to clear and try again.
--	---

### The remote control

<b>Remote control doesn't work.</b>	Check that the batteries are inserted correctly (➡ page 6). Replace the batteries if they are worn.
-------------------------------------	--

### USB

<b>The USB drive or its contents cannot be read.</b>	The USB drive format or its contents is/are not compatible with the system (➡ page 16). The USB host function of this product may not work with some USB devices. USB devices with storage capacity of more than 8 gigabytes may not work in some instances.
<b>Slow operation of the USB flash drive.</b>	Large file size or high memory USB flash drive takes longer time to read.
<b>"USB OVER CURRENT ERROR"</b>	The USB mass storage device rating exceeds 500mA. Disconnect the USB device. Turn the unit off and then back on.
<b>"NO PLAY"</b>	Check the content. Only MP3 format files can be played.

## Specifications

### AMPLIFIER SECTION

<b>RMS OUTPUT POWER</b> both channel driven simultaneously	80 W per channel (4 Ω)
<b>10 % Total harmonic distortion</b>	
<b>Input impedance</b>	
MUSIC PORT	250 mV 13 kΩ
<b>Output impedance</b>	
HEADPHONE	16 to 32 Ω
<b>Phone jack</b>	
Terminal	Stereo, 3.5 mm
<b>Music Port jack</b>	
Terminal	Stereo, 3.5 mm
<b>Option Port</b>	Version 1

### FM TUNER SECTION

<b>Frequency range</b>	87.50 to 108.00 MHz (50 kHz step)
<b>Sensitivity</b>	10 dBμV (IHF)
S/N 30 dB	10 dBμV
<b>Antenna terminal(s)</b>	75 Ω (unbalanced)
<b>Preset station</b>	FM 20 stations

### DAB SECTION

<b>Frequency Band (Wavelength)</b>	
Band III (UK Only)	11B to 12D (218.640 MHz to 229.072 MHz)
Band III (Europe)	5A to 13F (174.928 MHz to 239.200 MHz)
L Band	LA to LW (1452.960 MHz to 1490.624 MHz)
<b>Intermediate frequency</b>	1st : 38.912MHz, 2nd : 2.048 MHz
<b>Sensitivity *BER 4x10<sup>-2</sup></b>	
MAX. input power	0 dBm
Min requirement	-96 dBm
<b>Selectivity</b>	
Adjacent channel (Band III)	33 dB
Far-Off channel (Band III)	45 dB
<b>DAB memories</b>	20 channels

### CD SECTION

<b>Disc played [8 cm or 12 cm]</b>	
(1) CD-Audio (CD-DA)	
(2) CD-R/RW (CD-DA, MP3 formatted disc)	
(3) MP3	
<b>Sampling frequency</b>	
CD	44.1 kHz
MP3	32 kHz, 44.1 kHz, 48 kHz
<b>Bit rate</b>	
MP3	32 kbps to 384 kbps
<b>Decoding</b>	16/20/24 bit linear
<b>Pickup</b>	
Beam source	Semiconductor laser
Wavelength	785 nm
Laser power	CLASS 1
(For Norge)	
Bølgelengde	785 nm
Laserstyrke	Ingen farlig stråling sendes ut
<b>Audio output (Disc)</b>	
Number of channels	2 channel
<b>Frequency response</b>	20 Hz to 20 kHz (+1, -2 dB)
<b>Wow and flutter</b>	Below measurable limit
<b>Digital filter</b>	8 fs
<b>D/A converter</b>	MASH (1 bit DAC)

### USB SECTION

<b>Playable USB Storage Media</b>	
(1) HDD	
(2) USB MP3 player/Digital audio player	
(3) USB Thumbdrives	
<b>Supported audio file format</b>	
MP3	
<b>USB memory port</b>	
Maximum current	500 mA
<b>Bit rate</b>	
MP3	32 kbps to 320 kbps
<b>Audio output (MP3)</b>	
Number of channels	2 channel
<b>Frequency response (MP3)</b>	20 Hz to 20 kHz

### SPEAKER SECTION

<b>Type</b>	3 way, 3 speaker system
<b>Speaker(s)</b>	
Woofer	14 cm Cone type 4 Ω
Tweeter	2.5 cm Soft dome type 4 Ω
Super Tweeter	1.2 cm Dome type 11 Ω
<b>Impedance</b>	4 Ω
<b>Input power (IEC)</b>	80 W (MAX)
	40 W (RATED)
<b>Output sound pressure</b>	81 dB/W (1.0 m)
<b>Cross over frequency</b>	3.5 kHz, 15 kHz
<b>Frequency range</b>	41 Hz to 100 kHz (-16 dB)
	46 Hz to 90 kHz (-10 dB)
<b>Dimensions (W x H x D)</b>	160 mm x 242 mm x 258 mm
<b>Mass</b>	3.3 kg

### GENERAL

<b>Power supply</b>	AC 230 to 240 V, 50 Hz
<b>Power consumption</b>	80 W
<b>Dimensions (W x H x D)</b>	174 mm x 244 mm x 318 mm
<b>Mass</b>	4.6 kg
<b>Operating temperature range</b>	+5 to +35°C
<b>Operating humidity range</b>	5 to 90 % RH (no condensation)

**Power consumption in standby mode 0.5 W (approx.)**

#### Note

- Specifications are subject to change without notice.
- Mass and dimensions are approximate.
- Total harmonic distortion is measured by the digital spectrum analyzer.

## Maintenance

### If the surfaces are dirty

To clean this unit, wipe with a soft, dry cloth.

- Never use alcohol, paint thinner or benzine to clean this unit.
- Before using chemically treated cloth, read the instructions that came with the cloth carefully.

This product may receive radio interference caused by mobile telephones during use. If such interference is apparent, please increase separation between the product and the mobile telephone.

The socket outlet shall be installed near the equipment and easily accessible.  
The mains plug of the power supply cord shall remain readily operable.  
To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from AC receptacle.

THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

### **WARNING:**

**TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE,**

- DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.
- USE ONLY THE RECOMMENDED ACCESSORIES.
- DO NOT REMOVE THE COVER (OR BACK); THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

### **CAUTION!**

**THIS PRODUCT UTILIZES A LASER.**

**USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.**

**DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.**

### **CAUTION!**

- DO NOT INSTALL OR PLACE THIS UNIT IN A BOOKCASE, BUILT-IN CABINET OR IN ANOTHER CONFINED SPACE. ENSURE THE UNIT IS WELL VENTILATED. TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING, ENSURE THAT CURTAINS AND ANY OTHER MATERIALS DO NOT OBSTRUCT THE VENTILATION VENTS.
- DO NOT OBSTRUCT THE UNIT'S VENTILATION OPENINGS WITH NEWSPAPERS, TABLECLOTHS, CURTAINS, AND SIMILAR ITEMS.
- DO NOT PLACE SOURCES OF NAKED FLAMES, SUCH AS LIGHTED CANDLES, ON THE UNIT.
- DISPOSE OF BATTERIES IN AN ENVIRONMENTALLY FRIENDLY MANNER.