



Panasonic®

Operating Instructions CD Stereo System

Model No. **SC-PMX1**

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 May 2006).

1 x Remote control



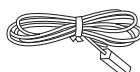
(N2QAYB000030)

1 x AC mains lead



(For the United Kingdom:
K2CT3CA00004)

1 x FM indoor antenna

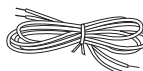


(RSA0007-L)



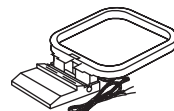
(For others:
K2CQ2CA00002)

2 x Speaker cables



(RFAV0074)

1 x AM loop antenna



(N1DAAA000002)

1 x Antenna plug adaptor



(For the United Kingdom:
K1YZ02000013)

2 x Remote control batteries

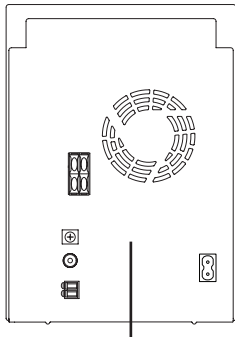


Dear customer

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.

| | |
|------------------|----------------|
| System | SC-PMX1 |
| Main unit | SA-PMX1 |
| Speakers | SB-PMX1 |



Back of product



LUOKAN 1 LASERLAITE KLASS 1 LASER APPARAT

| | |
|------------------|---|
| CAUTION | CLASS 1M INVISIBLE LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1 A2/ Class 1M |
| WARNING | KLASS 1M OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRÄKTA EJ STRÅLEN DIREKT GENOM OPTISKT INSTRUMENT. |
| FORSIGTIG | USYNLIG LASERSTRÅLNING KLASSE 1M. NÄR LÅGET ER ÅBENT. UNDGÅ AT SE LIGE PÅ MED OPTISKE INSTRUMENTER. |
| VARO | AVATTAESSA OLET ALTIIN LUOKAN 1M NÄKYMÄTÖNTÄ LASERSÄTELYÄ. ÄLÄ KATSO OPTISELLA LAITTEELLA SUORAAN SÄTEESEEN. |
| ATTENTION | RAYONNEMENT LASER INVISIBLE, CLASSE 1M. EN CAS D'OUVERTURE, NE PAS REGARDER DIRECTEMENT À L'AIDE D'INSTRUMENTS D'OPTIQUE. |
| VORSICHT | UNSICHTBARE LASERSTRAHLUNG KLASSE 1M, WENN ABDECKUNG GEÖFFNET. NICHT DIREKT MIT OPTISCHEN INSTRUMENTEN BETRACHTEN. RQLV0035 |

Inside of product
Tuotteen sisällä
Produktets inside

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 or the mains plug or an appliance coupler shall remain readily operable.

Laite tulee asettaa lähelle verkkopistorasiaa ja pistokkeen täytyy olla sellaisessa asennossa, että siihen on helppo tarttua ongelman sattuessa.

Utstyret bør plasseres i nærheten av AC-stikkontakten, og støpslet må være lett tilgjengelig hvis det skulle oppstå problemer.

THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

TÄMÄ LAITE ON TARKOITETTU KÄYTETTÄVÄKSI LEUDOSSA ILMASTOSSA.

DETTE APPARATET ER BEREGNET TIL BRUK UNDER MODERATE KLIMAFORHOLD.

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.

■ 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

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
- 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.

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.

Figure A

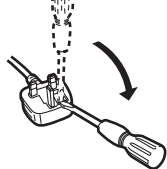
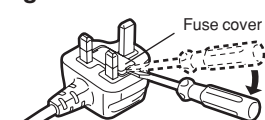


Figure B



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

Figure A

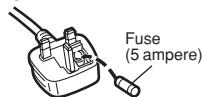
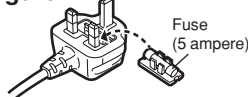


Figure B



– 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

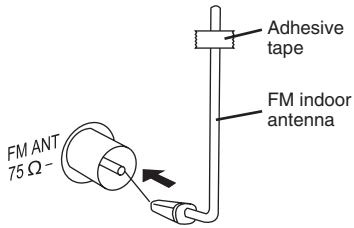
- Use the speakers only with the recommended system. Failure to do so can damage the amplifier and speakers, and can cause fire. Consult a qualified service person if damage occurs or if a sudden change in performance is apparent.
- Do not attach these speakers to walls or ceilings.

Getting started

Step 1 - Making the connections

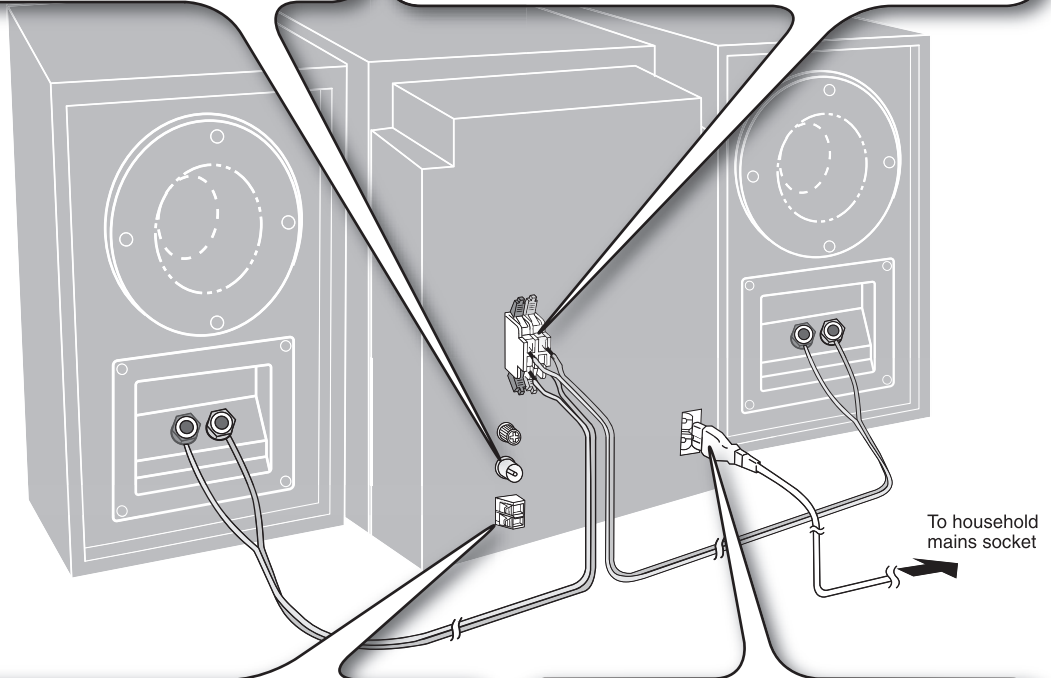
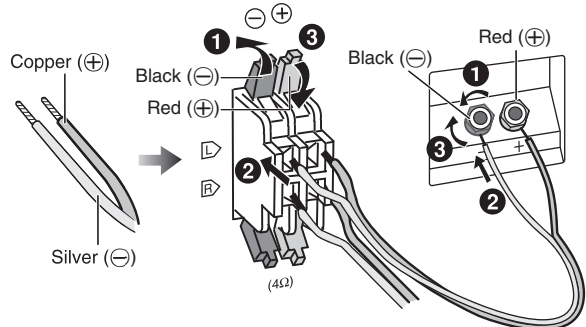
Connect the AC mains lead only after all other connections have been made.

1 Connect the FM indoor antenna.

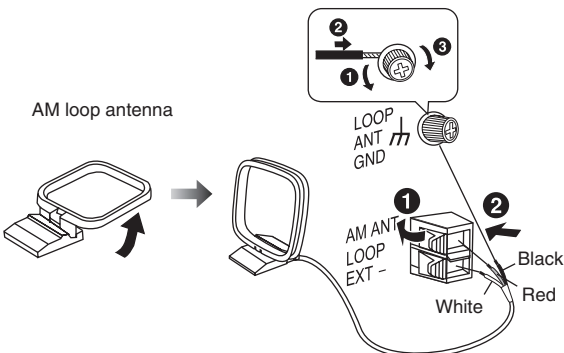


Tape the antenna to a wall or column, in a position with least amount of interference.

2 Connect the speaker cables.



3 Connect the AM loop antenna.



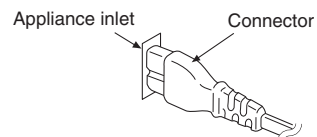
Stand the antenna up on its base. Keep the loose antenna cord away from other wires and cords.

4 Connect the AC mains lead.

**FOR THE UNITED KINGDOM ONLY
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.

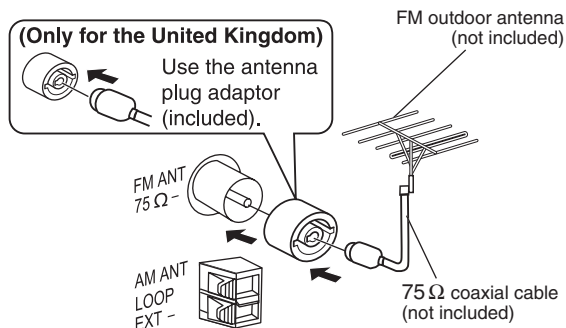
Insertion of connector



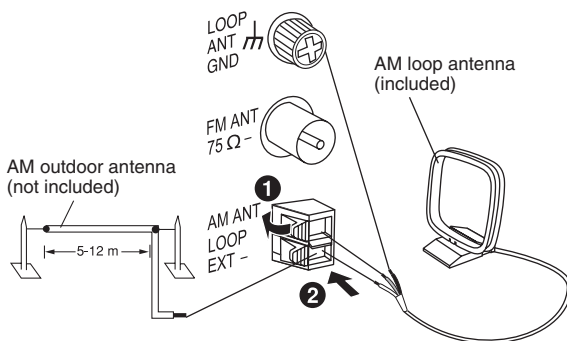
Even when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector may jut out as shown in the drawing. However there is no problem using the unit.

Optional antenna connections

FM outdoor antenna

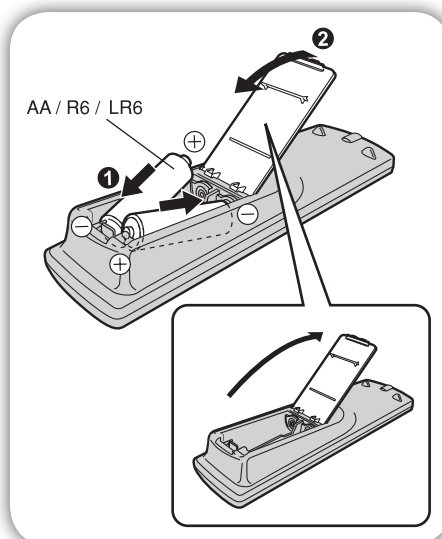


AM outdoor antenna



- 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.
- Connect the AM outdoor antenna without removing the AM loop antenna. Run 5 to 12 m of vinyl-covered wire horizontally along a window or other convenient location.

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.

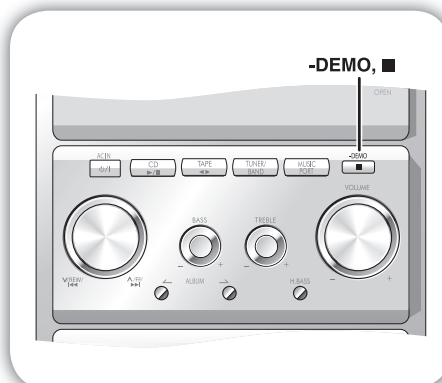
Do not:

- 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 6 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.

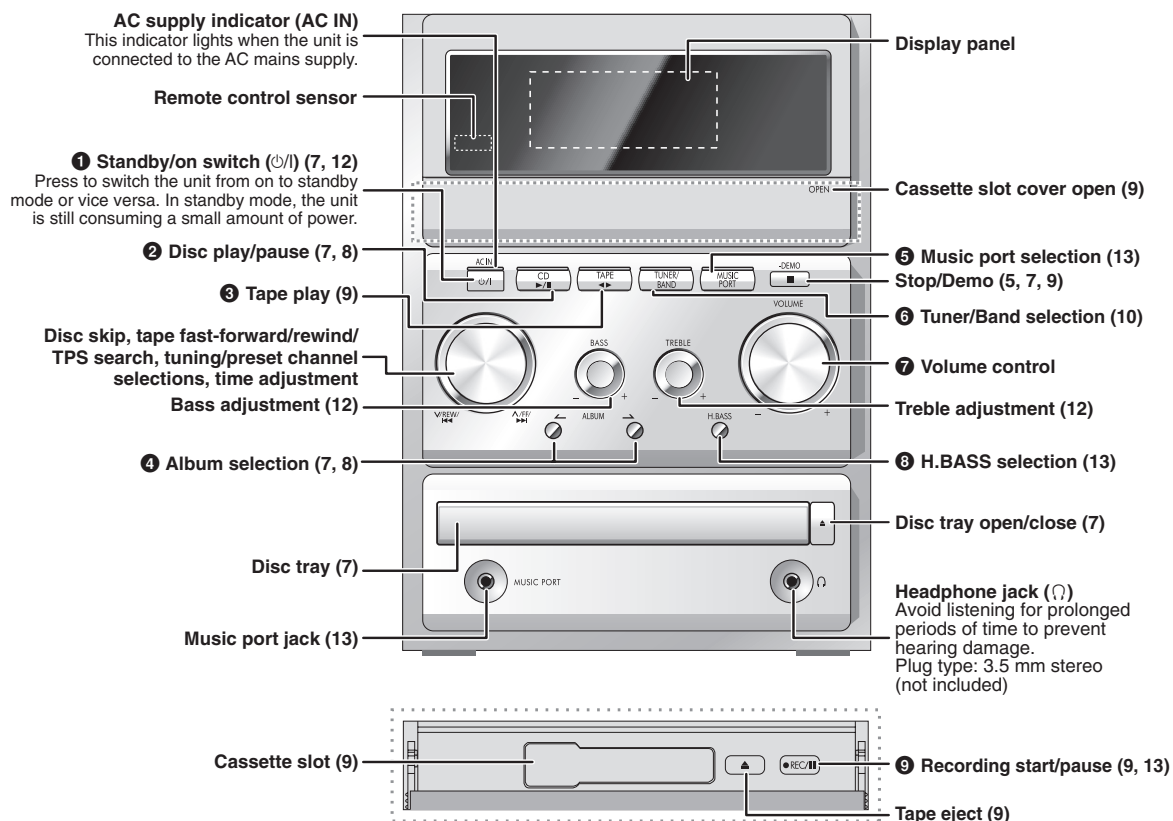
→ DEMO OFF → DEMO ON →

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

Overview of controls

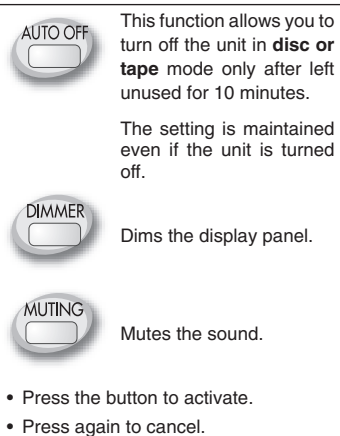
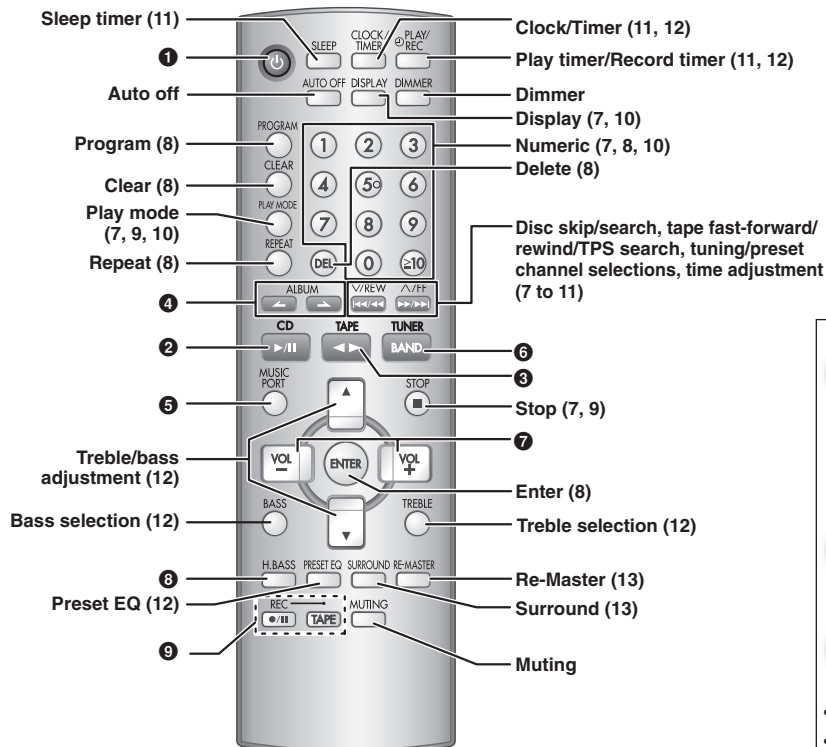
Main unit

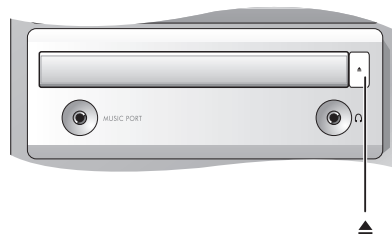
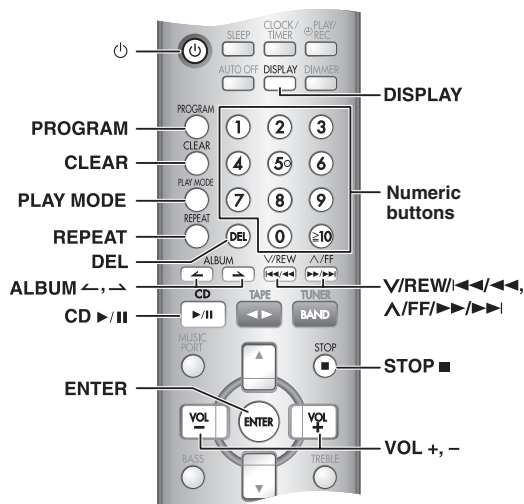
Refer to the numbers in parentheses for page reference.



Remote control

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



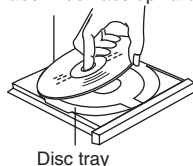


Basic play

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 ▶/II] to start play.
- 4 Adjust the volume.

| To | Action |
|-----------------------|--|
| stop the disc | Press [STOP ■]. |
| pause play | Press [CD ▶/II]. Press again to resume play. |
| skip tracks | Press [V/REW/⏮/⏪] or [V/FF/⏩/⏭]. |
| search through tracks | Press and hold [V/REW/⏮/⏪] or [V/FF/⏩/⏭] during play or pause. |
| skip album | Press [ALBUM ⏮ or ⏭] in the play mode. Press [ALBUM ⏮ or ⏭] once and then the numeric buttons in the stop mode. |

Play Mode function

CD MP3

- 1 Press [CD ▶/II].
- 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

Direct access play

This function allows you to start play from a specific track.

CD

Press the numeric buttons to select and play your desired track.

MP3

- 1 Press [ALBUM ◀ or ▶] to select the album.
- 2 Press [∨/FF/▶▶/▶▶] once and then the numeric buttons to select and play your desired track.

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

Note

This function does not work during any random/program mode.

Repeat play

You can repeat program play or other selected play mode.

CD

MP3

Press [REPEAT] before or during play.

"REPEAT ON" and "⏮" are displayed.

To cancel

Press [REPEAT] again.

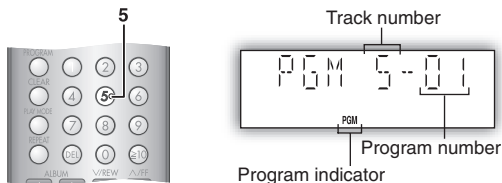
"REPEAT OFF" is displayed and "⏮" is cleared.

Program play

This function allows you to program up to 24 tracks.

CD

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



- 4 Press [CD ▶/II] to start play.

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:



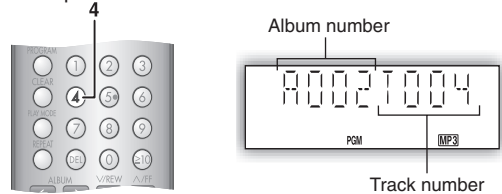
Using DualDiscs

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

- 1 Press [CD ▶/II] and then [STOP ■].
- 2 Press [PROGRAM].
- 3 Press [ALBUM ◀ or ▶] to select your desired album.
- 4 Press [∨/FF/▶▶/▶▶] once and then the numeric buttons to select your desired track.

Example:



- 5 Press [ENTER].
Repeat steps 3 to 5 to program other tracks.
- 6 Press [CD ▶/II] to start play.

| To | Action |
|-----------------------------|--|
| cancel program mode | Press [PROGRAM] in the stop mode. |
| replay the program | Press [PROGRAM] then [CD ▶/II]. |
| check program contents | Press [∨/REW/◀◀/◀◀] or [∨/FF/▶▶/▶▶] when "PGM" is displayed in the stop mode. To check while programming, press [PROGRAM] twice after "PGM" appears, then press [∨/REW/◀◀/◀◀] or [∨/FF/▶▶/▶▶]. |
| add to the program | <div>CD</div> <p>In the stop mode, press [∨/FF/▶▶/▶▶] and then repeat step 3.</p> <div>MP3</div> <p>Repeat steps 3 to 5 in the stop mode.</p> |
| clear the last track | Press [DEL] in the stop mode. |
| clear all programmed tracks | Press [CLEAR] in the stop mode. "CLR ALL" is displayed. |

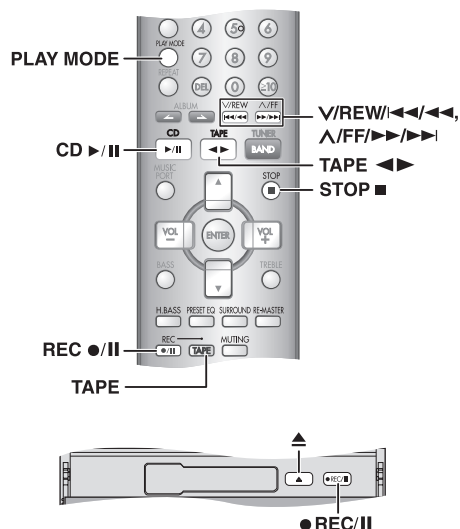
Note

- When you try to program more than 24 tracks "PGM 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.

MP3

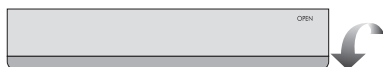
- Files are treated as tracks and folders are treated as albums.
- This unit can access up to 999 tracks, 255 albums and 20 sessions.
- Disc must conform to ISO9660 level 1 or 2 (except for extended formats).
- To play in a certain order, prefix the folder and file names with the 3-digit numbers in the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

Cassette tape

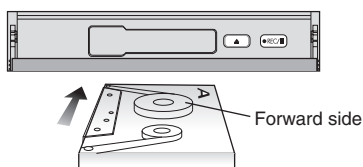


Basic play

- 1 Slide down the cassette slot cover.



- 2 Insert the cassette into the slot.



- 3 Press [TAPE ◀▶] to start play.

Each time you press the button:

FWD PLAY ↔ REV PLAY

FWD PLAY: The forward side plays.

REV PLAY: The reverse side plays.

- 4 Press [PLAY MODE] to select the reverse mode.

→ BOTH SIDES → ENDLESS → ONE SIDE

BOTH SIDES: Both sides play. (forward → reverse)

ENDLESS: Both sides are played repeated until you press [STOP ■].

ONE SIDE: One side plays.

| To | Action |
|-------------------------|--|
| stop tape playback | Press [STOP ■]. |
| start one-touch play | Press [TAPE ◀▶] when the unit is OFF with the cassette loaded. |
| fast-forward and rewind | Press [V/REW/◀◀/▶▶] or [V/FF/▶▶/▶▶] in the stop mode. |
| eject tape | Press [▲]. |

Note

- Tapes exceeding 100 minutes are thin and can break or get caught in the mechanism.
- Endless tapes can get caught up in the deck's moving parts if used incorrectly.

TPS (Tape Program Sensor)

This function enables you to search the beginning of a track, up to a maximum of 9.

Press [V/REW/◀◀/▶▶] or [V/FF/▶▶/▶▶] during play.

Play resumes from the track found.

Note

TPS may not function properly:

- with short silent parts
- when noise occurs between tunes
- if silent parts are found within tunes

Recording

Use normal position tapes.

High position and metal position tapes can be used, but this unit will not be able to record or erase them correctly.

Preparation

Wind the leader tape so that recording can begin immediately.

- 1 Insert the cassette to be recorded.

To switch the recording direction, press [TAPE ◀▶] twice and then [STOP ■].

- 2 Press [PLAY MODE] to select the reverse mode.

ONE SIDE: One side only records.

BOTH SIDES, ENDLESS: Both sides are recorded. (forward → reverse)

- 3 Select the source to be recorded.

Radio recording:

Tune in the station. (→ page 10)

Disc recording:

- ① Insert the disc you want to record.

Press [CD >||] and then [STOP ■].

- ② Prepare the desired disc recording mode.

| To | Action |
|--------------------------|---|
| record programmed tracks | Program the tracks you want. (→ page 8) |
| record specific tracks | Press [PLAY MODE] to select your desired mode. (→ page 7) |

- 4 Press [REC ●/||] + [TAPE] (main unit: [● REC/||]) to start recording.

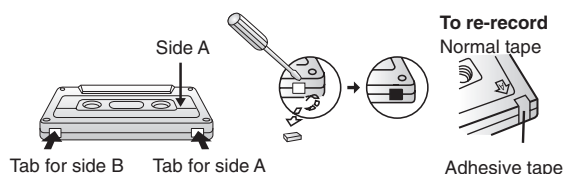
Other basic operations

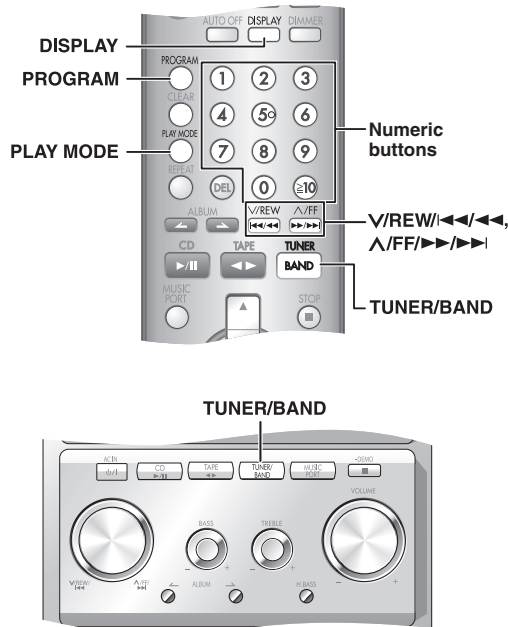
| To | Action |
|----------------------------|--|
| stop recording | Press [STOP ■]. |
| stop recording temporarily | 1) Press [REC ●/] + [TAPE] (main unit: [● REC/]). 2) Press again to resume recording. |
| erase a recorded sound | 1) Insert the recorded cassette. 2) Press [TAPE ◀▶] and then [STOP ■]. 3) Press [REC ●/] + [TAPE] (main unit: [● REC/]). |

Your attention is drawn to the fact that recording pre-recorded tapes or discs or other published or broadcast material may infringe copyright laws.

Erasure prevention

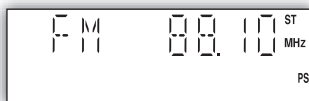
The illustration shows how to remove the tabs to prevent recording. To record on the tape again, cover as shown.





Manual tuning

- 1 Press [TUNER/BAND] to select "FM" or "AM".
- 2 Press [PLAY MODE] to select "MANUAL".
- 3 Press [V/REW/◀◀/◀] or [V/FF/▶▶/▶] to select the frequency of the required station.



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

To tune automatically

Press [V/REW/◀◀/◀] or [V/FF/▶▶/▶] 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 [V/REW/◀◀/◀] or [V/FF/▶▶/▶] once again.

To improve FM sound quality

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

To cancel

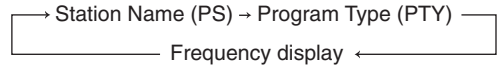
Press and hold [PLAY MODE] again until "MONO" disappears.

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

RDS broadcasting

Enable you to display the name of a broadcasting station or a program type.

Press [DISPLAY] to display:



RDS displays may not be available if reception is poor.

| Program type displays | | | |
|-----------------------|-----------|----------|----------|
| NEWS | VARIED | FINANCE | COUNTRY |
| AFFAIRS | POP M | CHILDREN | NATIONAL |
| INFO | ROCK M | SOCIAL A | OLDIES |
| SPORT | M.O.R.M ※ | RELIGION | FOLK M |
| EDUCATE | LIGHT M | PHONE IN | DOCUMENT |
| DRAMA | CLASSICS | TRAVEL | TEST |
| CULTURE | OTHER M | LEISURE | ALARM |
| SCIENCE | WEATHER | JAZZ | |

※ M.O.R.M = "Middle of the road music"

Memory preset

Up to 15 stations can be set in both the FM and AM bands.

Preparation

Press [TUNER/BAND] to select "FM" or "AM".

Automatic presetting

Press and hold [PROGRAM] to start presetting.

Manual presetting

- 1 Press [PLAY MODE] to select "MANUAL".
- 2 Press [V/REW/◀◀/◀] or [V/FF/▶▶/▶] 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 channels 10 to 15 press [≥10], then the two digits.

OR

- 1 Press [PLAY MODE] to select "PRESET".
- 2 Press [V/REW/◀◀/◀] or [V/FF/▶▶/▶] to select the channel.

AM allocation setting

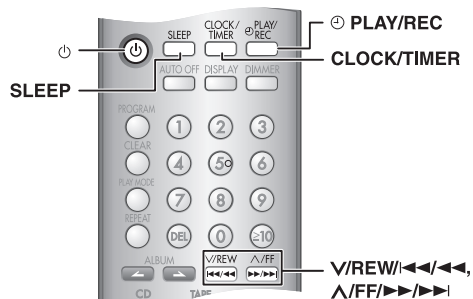
By main unit only

This system can also receive AM broadcasts allocated in 10 kHz steps.

To change the step from 9 kHz to 10 kHz

- 1 Press and hold [TUNER/BAND].
After a few seconds the display changes to a flashing display of the current minimum frequency.
- 2 Continue to hold down [TUNER/BAND].
 - When the minimum frequency changes, release the button. To return to the original step, repeat the above steps.
 - After the setting is changed, any previously preset frequency will be cleared.

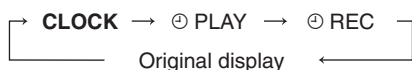
Timer



Setting the clock

This is a 24-hour clock.

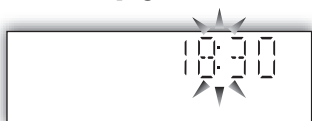
- 1 Press **[CLOCK/TIMER]** to select "CLOCK".
Each time you press the button:



- 2 Within 5 seconds, press **[V/REW/◀◀/◀◀]** or **[V/FF/▶▶/▶▶]** to set the time.



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



Displaying the clock

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

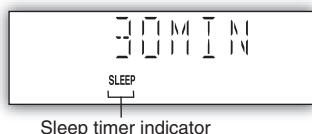
Note

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.



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

Using the play or record timer

You can set the timer to come on at a certain time to wake you up (play timer) or to record from the radio or music port source (record timer).

Preparation

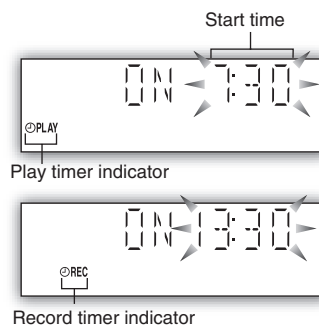
Turn the unit on and set the clock.

| Timer | Action |
|--------------|--|
| Play timer | Prepare the music source you want to listen to; cassette, disc, radio or music port source, and set the volume. |
| Record timer | Check the cassette's erasure prevention tabs (➡ page 9), insert the cassette (➡ page 9) and tune to the radio station (➡ page 10) or select the music port source (➡ page 13). |

- 1 Press **[CLOCK/TIMER]** repeatedly to select your desired timer.

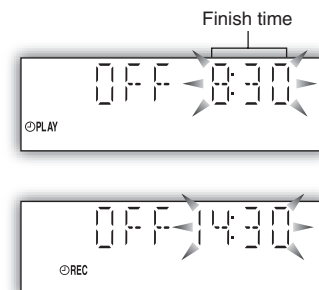


- 2 Within 5 seconds, press **[V/REW/◀◀/◀◀]** or **[V/FF/▶▶/▶▶]** to set the starting time.



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

- 4 Repeat steps 2 and 3 to set the finishing time.



To activate the timer

- 5 Press **[⏰PLAY/REC]** to turn on your desired timer.



- 6 Press **[⏻]** to turn off the unit.

The unit must be off for the timers to operate.

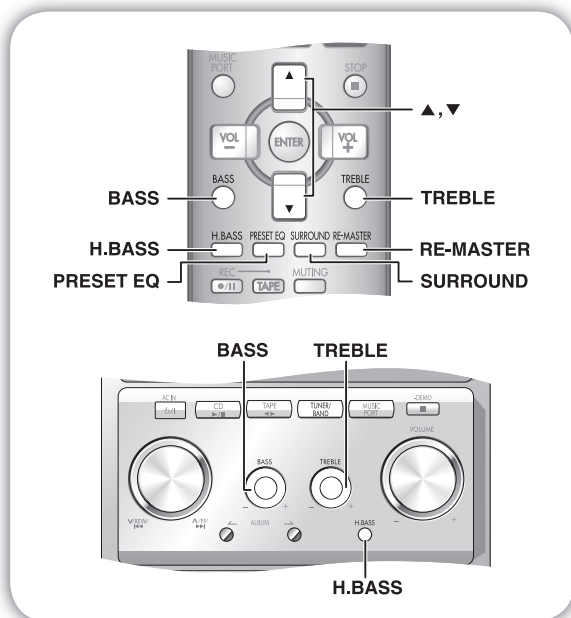
Other basic operations

| To | Action |
|---|--|
| change the settings | Repeat steps 1 to 4 and 6. (→ page 11) |
| change the source or volume | 1) Press [⏮PLAY/REC] 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 ⏮PLAY or ⏮REC. |
| cancel | Press [⏮PLAY/REC] to clear the timer indicators from the display. |

Note

- The play timer and record timer cannot be used together.
- The play timer will start at the preset time, with the volume increasing gradually to the preset level.
- The record timer will start 30 seconds before the set time, with the volume muted.
- 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 is selected as the source when the timer comes on, the system turns on and engages MUSIC PORT as the source. If you wish to playback or record from the portable audio equipment, activate the equipment's play mode and increase the volume. (See the portable audio equipment's instruction manual.)

Sound adjustment



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.

HEAVY → CLEAR → SOFT → VOCAL → EQ-OFF
↑

| 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] clockwise to increase the level.

Turn [BASS] or [TREBLE] counter-clockwise to decrease 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.

Re-master – Enjoying more natural sound

MP3

Discs recorded at 32 kHz, 44.1 kHz or 48 kHz

This feature reproduces the frequencies lost during recording to give you a sound closer to the original.

Press [RE-MASTER] during play to select “RE-MASTER ON”.

Each time you press the button:

RE-MASTER ON ↔ RE-MASTER OFF

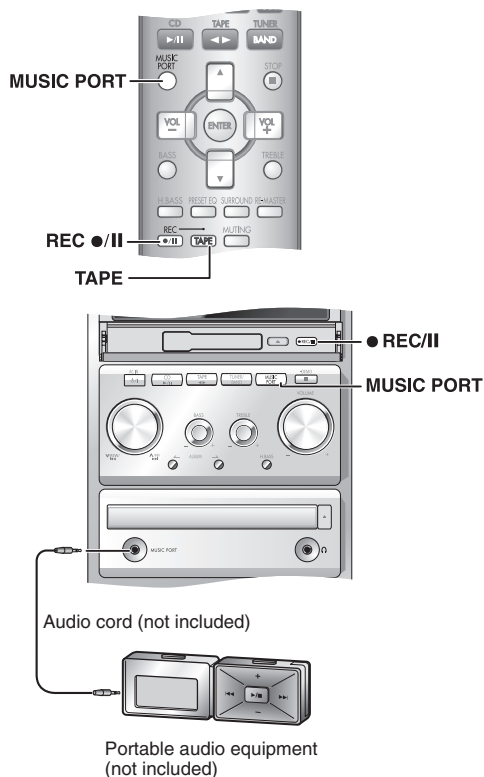
Note

You cannot change RE-MASTER during recording.

External unit

Connecting to a portable audio equipment

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



Playing 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 [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.

Recording from portable audio equipment

- 1 Insert the cassette to be recorded.
- 2 Press [MUSIC PORT].
- 3 Play the portable audio equipment.
- 4 Press [REC ●/II] + [TAPE] (main unit: [● REC/II]) to start recording.

Note

For other recording operations, refer to page 9, “Other basic operations”.

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

| | |
|--|--|
| No sound. | 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 4). |
| Sounds unfixed, reversed or come from one speaker only. | Check the speaker connections (➡ page 4). |
| Humming heard during play. | 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. |
| "ERROR" is displayed. | Incorrect operation performed. Read the instructions and try again. |
| "- :- -" appears on the display. | You plugged the AC mains lead in for the first time or there was a power failure recently. Set the time (➡ page 11). |
| "F61" is displayed. | 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

| | |
|--|--|
| Noise is heard. The stereo indicator flickers or doesn't light. Sound is distorted. | Use an outdoor antenna (➡ page 5). |
| A beat sound is heard. | Turn the TV off or separate it from the unit. |
| A low hum is heard during AM broadcast. | Separate the antenna from other cables and cords. |
| An AM broadcast station cannot be picked up clearly. | Frequency step is set to 10 kHz. Change the frequency step to 9 kHz (➡ page 10). |

When there is a television set nearby

| | |
|--|---|
| The picture on the TV disappears or stripes appear on the screen. | The location and direction of the antenna are incorrect. If you are using an indoor antenna, change to an outdoor antenna (➡ page 5). The TV antenna wire is too close to the unit. Separate the antenna wire of the TV set from the unit. |
|--|---|

Using the cassette deck

| | |
|-----------------------------------|--|
| Recording is not possible. | If the erasure prevention tabs have been removed, cover the holes with adhesive tape (➡ page 9). |
|-----------------------------------|--|

Playing discs

| | |
|--|---|
| The display is wrong or play won't start. | The disc may be upside down (➡ page 7). 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

| | |
|-------------------------------------|--|
| Remote control doesn't work. | Check that the batteries are inserted correctly (➡ page 5). Replace the batteries if they are worn. |
|-------------------------------------|--|

Specifications

AMPLIFIER SECTION

RMS OUTPUT POWER both channel driven
simultaneously

10 % Total harmonic distortion
80 W per channel (4 Ω)

| | |
|------------------------------|----------------|
| Input impedance | |
| MUSIC PORT | 250 mV 13 kΩ |
| Output impedance | |
| HEADPHONE | 16 to 32 Ω |
| Phone jack | |
| Terminal | Stereo, 3.5 mm |
| Music Port input jack | |
| Terminal | Stereo, 3.5 mm |

FM TUNER SECTION

| | |
|----------------------------|-----------------------------------|
| Frequency range | 87.50 to 108.00 MHz (50 kHz step) |
| Sensitivity | 2.5 μV (IHF) |
| S/N 26 dB | 1.4 μV |
| Antenna terminal(s) | 75 Ω (unbalanced) |
| Preset station | FM 15 stations AM 15 stations |

AM TUNER SECTION

| | |
|------------------------|---|
| Frequency range | 522 to 1629 kHz (9 kHz steps) 520 to 1630 kHz (10 kHz steps) |
|------------------------|---|

| | |
|-------------------------------|-----------|
| Sensitivity | |
| S/N 20 dB (at 999 kHz) | 1584 μV/m |

CASSETTE DECK SECTION

| | |
|---|---|
| Track system | 4-track, 2-channel |
| Heads | |
| Record/playback | Solid permalloy head |
| Erasure | Double gap ferrite head |
| Motor | DC servo motor |
| Recording system | AC bias 100 kHz |
| Erase system | AC erase 100 kHz |
| Tape speed | 4.8 cm/s |
| Overall frequency response (+3, -6 dB) at DECK OUT | |
| Normal | 35 Hz to 14 kHz |
| S/N RATIO | 47 dB (A weighted) |
| Wow and flutter | 0.08 % (WRMS) |
| Fast-forward and rewind time | |
| | Approx. 120 seconds with C-60 cassette tape |

CD SECTION

Disc played [8 cm or 12 cm]

- (1) CD-Audio (CD-DA)
- (2) CD-R/RW (CD-DA, MP3 formatted disc)
- (3) MP3

Sampling frequency

| | |
|------------|--------------------------|
| CD | 44.1 kHz |
| MP3 | 32 kHz, 44.1 kHz, 48 kHz |

Bit rate

| | |
|------------|---------------------|
| MP3 | 32 kbps to 384 kbps |
|------------|---------------------|

Decoding

| | |
|--|---------------------|
| | 16/20/24 bit linear |
|--|---------------------|

Pickup

| | |
|--------------------|---------------------------------|
| Beam source | Semiconductor laser |
| Wavelength | 785 nm |
| Laser power | CLASS 1 |
| (For Norge) | |
| Bølgelengde | 785 nm |
| Laserstyrke | Ingen farlig stråling sendes ut |

Audio output (Disc)

| | |
|---------------------------|-----------|
| Number of channels | 2 channel |
|---------------------------|-----------|

Frequency response

| | |
|--|-----------------------------|
| | 20 Hz to 20 kHz (+1, -2 dB) |
|--|-----------------------------|

Wow and flutter

| | |
|--|------------------------|
| | Below measurable limit |
|--|------------------------|

Digital filter

| | |
|--|------|
| | 8 fs |
|--|------|

D/A converter

| | |
|--|------------------|
| | MASH (1 bit DAC) |
|--|------------------|

SPEAKER SECTION

| | |
|-------------|-------------------------|
| Type | 3 way, 3 speaker system |
|-------------|-------------------------|

Speaker(s)

| | |
|----------------------|---------------------------|
| 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 |

Impedance

| | |
|--|-----|
| | 4 Ω |
|--|-----|

Input power (IEC)

| | |
|--|--------------|
| | 120 W (MAX) |
| | 60 W (RATED) |

Output sound pressure

| | |
|--|-----------------|
| | 81 dB/W (1.0 m) |
|--|-----------------|

Cross over frequency

| | |
|--|-----------------|
| | 3.5 kHz, 15 kHz |
|--|-----------------|

Frequency range

| | |
|--|---------------------------|
| | 41 Hz to 100 kHz (-16 dB) |
| | 46 Hz to 90 kHz (-10 dB) |

Dimensions (W x H x D)

| | |
|--|--------------------|
| | 160 x 242 x 258 mm |
|--|--------------------|

Mass

| | |
|--|--------|
| | 3.3 kg |
|--|--------|

GENERAL

Power supply

| | |
|-------------------------------|-----------------|
| For Continental Europe | AC 230 V, 50 Hz |
| For United Kingdom | |

| | |
|--|------------------------|
| | AC 230 to 240 V, 50 Hz |
|--|------------------------|

Power consumption

| | |
|--|------|
| | 80 W |
|--|------|

Dimensions (W x H x D)

| | |
|--|--------------------|
| | 174 x 242 x 318 mm |
|--|--------------------|

Mass

| | |
|--|--------|
| | 4.9 kg |
|--|--------|

Operating temperature range

| | |
|--|-------------|
| | +5 to +35°C |
|--|-------------|

Operating humidity range

| | |
|--|--------------------------------|
| | 5 to 90 % RH (no condensation) |
|--|--------------------------------|

Power consumption in standby mode 0.8 W

Note

1. Specifications are subject to change without notice.
Mass and dimensions are approximate.
2. 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.

For a cleaner, crisper sound

Clean the heads regularly to assure good quality playback and recording.

Use a cleaning tape (not included).

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.

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.

SUOMI

VAROITUS!

LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VAROITUS!

- ÄLÄ ASENNATA TAI LAITA TÄTÄ LAITETTA KABINETTITYYPPISEEN KIRJAKAAPPIIN TAI MUUHUN SULJETTUUN TILAAN, JOTTA TUULETUS ONNISTUISI. VARMISTA, ETTÄ VERHO TAI MIKÄÄN MUU MATERIAALI EI HUONONNA TUULETUSTA, JOTTA VÄLTETTÄISIIN YLIKUUMENEMISESTA JOHTUVA SÄHKÖISKU- TAI TULIPALOVAARA.
- ÄLÄ PEITÄ LAITTEEN TUULETUSAUKKOJA SANOMALEHDILLÄ, PÖYTÄLINALLA, VERHOLLA TAI MUULLA VASTAAVALLA ESINEELLÄ.
- ÄLÄ ASETA PALAVAA KYNTTILÄÄ TAI MUUTA AVOTULEN LÄHDETTÄ LAITTEEN PÄÄLLE.
- HÄVITÄ PARISTOT LUONTOA VAHINGOITTAMATTOMALLA TAVALLA.

VAROITUS:

TULIPALO-, SÄHKÖISKUVAARAN TAI TUOTETTA KOHTAAVAN MUUN VAHINGON VÄHENTÄMISEKSI EI LAITETTA SAA ALTISTAA SATEELLE, KOSTEUDELLE, VESIPISAROILLE TAI ROISKEELLE, EIKÄ NESTETTÄ SISÄLTÄVIÄ ESINEITÄ, KUTEN ESIMERKIKSI MALJAKOITA, SAA ASETTAA LAITTEEN PÄÄLLE.

NORSK

ADVARSEL!

DETTE PRODUKTET ANVENDER EN LASER. BETJENING AV KONTROLLER, JUSTERINGER ELLER ANDRE INNGREP ENN DE SOM ER BESKREVET I DENNE BRUKSANVISNING, KAN FØRE TIL FARLIG BESTRÅLING. DEKSLER MÅ IKKE ÅPNES, OG FORSØK ALDRI Å REPARERE APPARATET PÅ EGENHÅND. ALT SERVICE OG REPARASJONSARBEID MÅ UTFØRES AV KVALIFISERT PERSONELL.

ADVARSEL!

- APPARATET MÅ IKKE PLASSERES I EN BOKHYLLE, ET INNEBYGGET KABINETT ELLER ET ANNET LUKKET STED HVOR VENTILASJONSFORHOLDENE ER UTILSTREKKELIGE. SØRG FOR AT GARDINER ELLER LIGNENDE IKKE FORVERRER VENTILASJONSFORHOLDENE, SÅ RISIKO FOR ELEKTRISK SJOKK ELLER BRANN FORÅRSAKET AV OVERHETING UNNGÅS.
- APPARATETS VENTILASJONSÅPNINGER MÅ IKKE DEKKES TIL MED AVISER, BORDDUKER, GARDINER OG LIGNENDE.
- PLASSER IKKE ÅPEN ILD, SLIK SOM LEVENDE LYS, OPPÅ APPARATET.
- BRUKTE BATTERIER MÅ KASSERES UTEN FARE FOR MILJØET.

ADVARSEL:

FOR Å REDUSERE FAREN FOR BRANN, ELEKTRISK STØT ELLER SKADER PÅ PRODUKTET, MÅ DETTE APPARATET IKKE UTSETTES FOR REGN, FUKTIGHET, VANDRÅPER ELLER VANNSPRUT. DET MÅ HELLER IKKE PLASSERES GJENSTANDER FYLT MED VANN, SLIK SOM BLOMSTERVASER, OPPÅ APPARATET.