Panasonic®

Operating Instructions

CD Stereo System

Model No. **SC-PMX3**

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

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.

SUPPLIED ACCESSORIES

Please check and identify the supplied accessories.

1 x Remote control **(N2QAYB000257)**	**2 x Remote control batteries**
1 x AC mains lead	**1 x AM loop antenna**
1 x FM indoor antenna	**2 x Speaker cables**

Table of contents
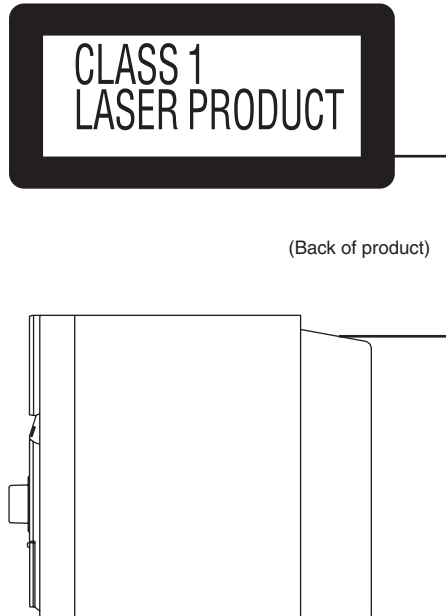
COMPACT DISC DIGITAL AUDIO

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-PMX3
Main unit	SA-PMX3
Speakers	SB-PMX3

CLASS 1
LASER PRODUCT

(Back of product)

– If you see this symbol –

Information for Users on Collection and Disposal of Old Equipment and used Batteries

These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste. For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.
By disposing of these products and batteries correctly, you 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.
For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.
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]
These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

Note for the battery symbol (bottom two symbol examples):
This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Cd

CAUTION	– CLASS 1M INVISIBLE LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1 +A2/Class 1M
VARNING	– KLASS 1M OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN DIREKT GENOM OPTISKT INSTRUMENT.
FORSIGTIG	– USYNLIG LASERSTRÅLING KLASSE 1M, NÄR LÅGET ER ÅBENT. UNDGÅ AT SE LIGE PÅ MED OPTISKE INSTRUMENTER.
VARO!	– AVATTAESSA OLET ALTTIINA LUOKAN 1M NÄKYMÄTÖNTÄ LASERSÄTEILYÄ. ÄLÄ KATSO OPTISELLA LAITTEELLA SUORAAN SÄTEESEEN.
VORSICHT	– UNSICHTBARE LASERSTRAHLUNG KLASSE 1M, WENN ABDECKUNG GEÖFFNET. NICHT DIREKT MIT OPTISCHEN INSTRUMENTEN BETRACHTEN.
ATTENTION	– RAYONNEMENT LASER INVISIBLE, CLASSE 1M, EN CAS D'OUVERTURE. NE PAS REGARDER DIRECTEMENT À L'AIDE D'INSTRUMENTS D'OPTIQUE.
注意	– ここを開くと不可視レーザ光が出ます。 ビームを見たり、触れたりしないでください。
注意	– 打开时有可见激光辐射。避免光束照射。 GB7241.1-20013B 类 RQLXS0071

Inside of product

THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

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 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.

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.

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!
- **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.**

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.

Placement of speakers

Tweeter

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.**

Simple setup

Making the connections

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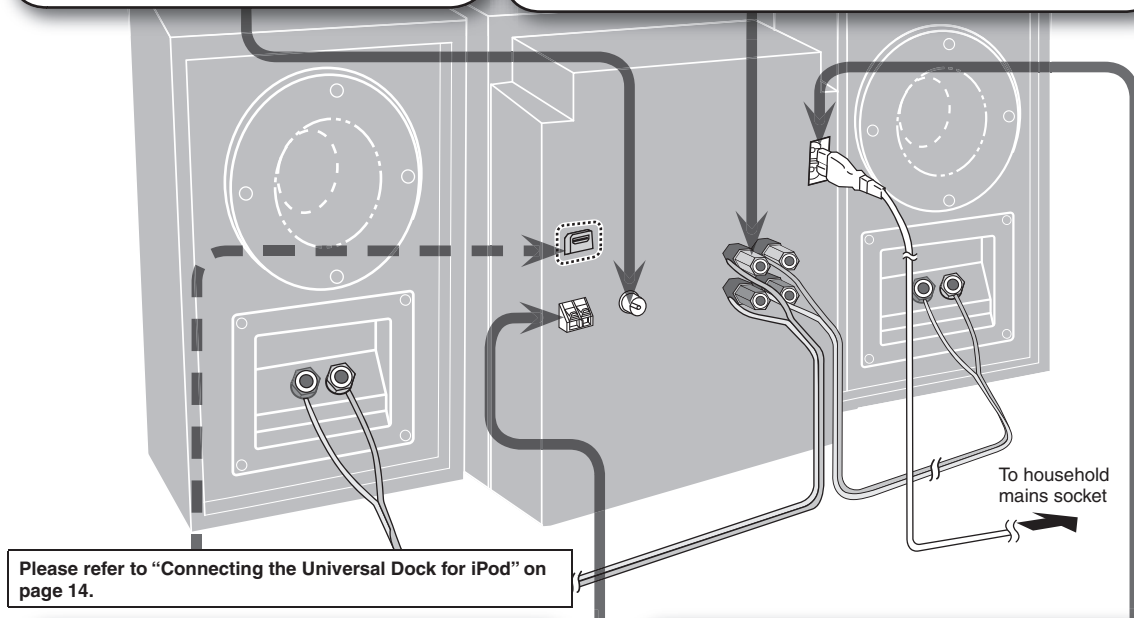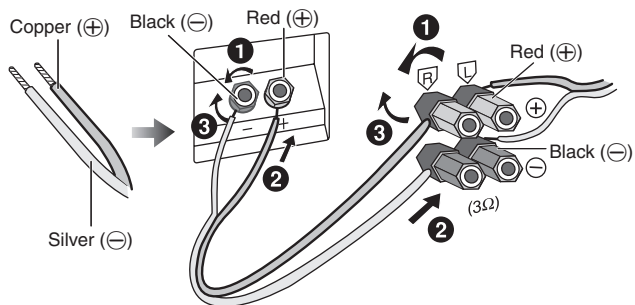
Conserving power

The main unit consumes a small amount of power, even when it is in standby mode (approx. 0.7 W). To save power when the unit is not to be used for a long time, unplug it from the household mains socket. You will need to reset some memory items after plugging in the unit.
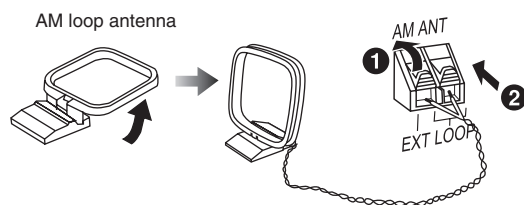
Connect the FM indoor antenna.

Adhesive tape

FM indoor antenna

FM ANT 75 Ω
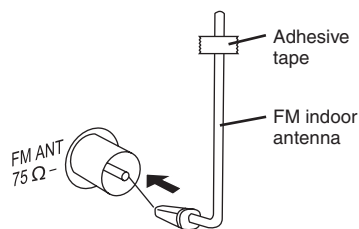
Tape the antenna to a wall or column, in a position with least amount of interference.

Connect the speaker cables.

Copper (⊕)   Black (⊖)   Red (⊕)

Silver (⊖)

Red (⊕)

Black (⊖)

(3Ω)

Incorrect connection can damage the unit.

Please refer to "Connecting the Universal Dock for iPod" on page 14.

To household mains socket

Connect the AM loop antenna.

AM loop antenna

AM ANT

EXT LOOP

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

Connect the AC mains lead.

The included AC mains lead is for use with this unit only. Do not use it with other equipment. Also, do not use cords for other equipment with the main unit.

Insertion of connector

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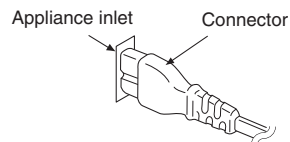
Even when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector may jut out as shown in the drawing. However there is no problem using the unit.

ENGLISH

Optional antenna connections

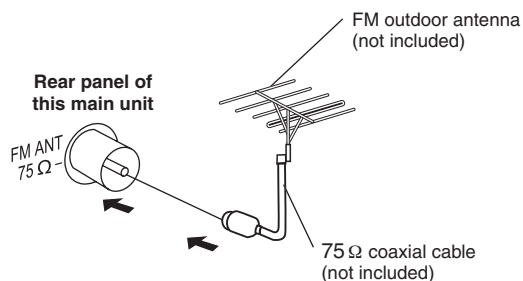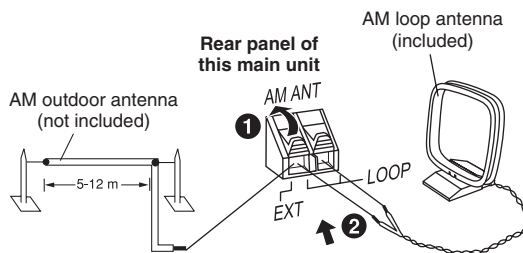*FM outdoor antenna*

AM outdoor antenna

FM outdoor antenna
(not included)

**Rear panel of
this main unit**

FM ANT
75 Ω

75 Ω coaxial cable
(not included)

AM loop antenna
(included)

**Rear panel of
this main unit**

AM outdoor antenna
(not included)

AM ANT

❶

LOOP

5-12 m

EXT

❷

- 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.

Preparing the remote control

❷ Insert so the poles (+ and –) match those in the remote control.

❸

❶

R6/LR6, AA
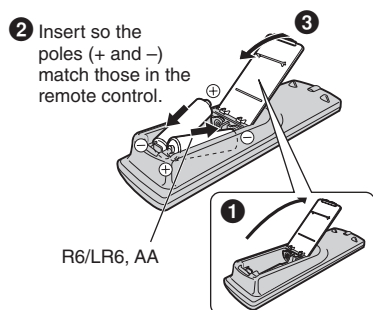
Batteries:
- Remove the batteries if the remote control is not going to be used for a long period of time. Store in a cool, dark place.
- Mishandling of batteries can cause electrolyte leakage, which can severely damage the remote control.
- Do not use rechargeable type batteries.
- Do not heat or expose to flame.
- Do not leave the battery(ies) in an automobile exposed to direct sunlight for a long period of time with doors and windows closed.

Do not:
- mix old and new batteries.
- use different types of batteries at the same time.
- take apart or short-circuit the batteries.
- attempt to recharge alkaline or manganese batteries.
- use batteries if the covering has been peeled off.

■ Use
Aim at the remote control signal sensor (➡ page 6), avoiding obstacles, at a maximum range of 7 m directly in front of the unit.

CAUTION
Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

DEMO function

■, -DEMO

φ/I

OPEN

CD ►/❙❙   USB ►/❙❙   OPTION ►/❙❙   FM/AM/ MUSIC P.   ─DEMO ■   D.BASS

VOLUME

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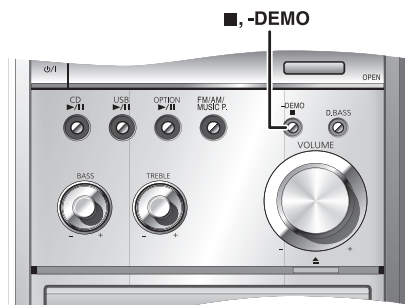
When the unit is first plugged in, a demonstration of its functions may be shown on the display.
If the demo setting is off, you can show a demonstration by selecting "DEMO ON".

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.

RQTX0166

Overview of controls
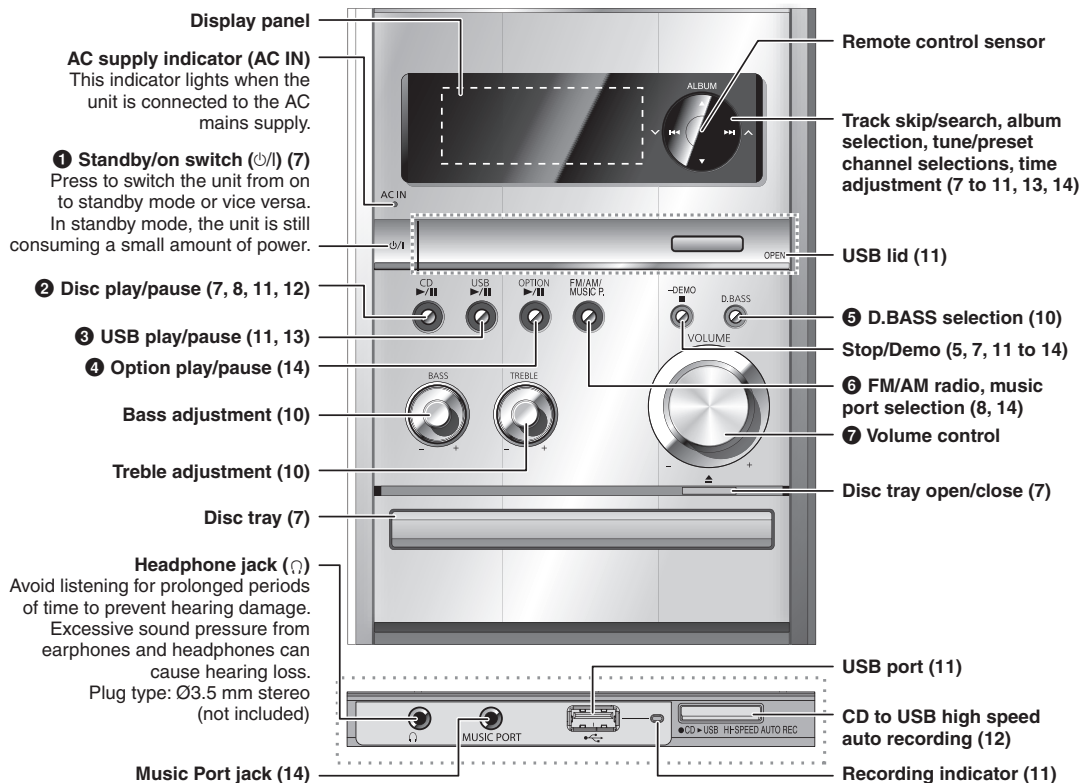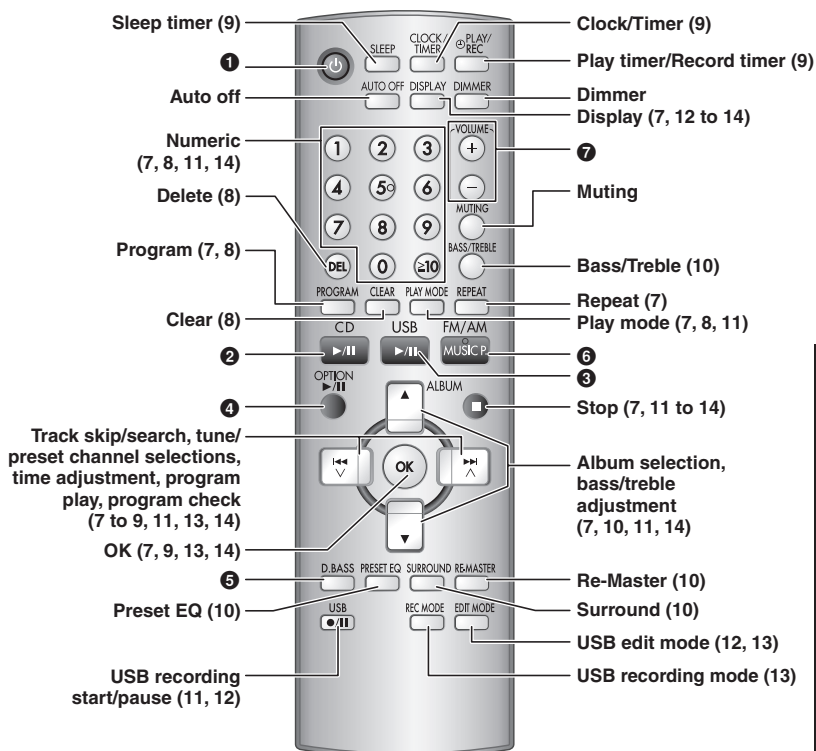
Main unit

Refer to the numbers in parentheses for page reference.

Display panel

AC supply indicator (AC IN)
This indicator lights when the unit is connected to the AC mains supply.

❶ **Standby/on switch (⏻/I) (7)**
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

❷ **Disc play/pause (7, 8, 11, 12)**

❸ **USB play/pause (11, 13)**

❹ **Option play/pause (14)**

Bass adjustment (10)

Treble adjustment (10)

Disc tray (7)

Headphone jack ( )
Avoid listening for prolonged periods of time to prevent hearing damage. Excessive sound pressure from earphones and headphones can cause hearing loss.
Plug type: Ø3.5 mm stereo (not included)

Music Port jack (14)

Remote control sensor

Track skip/search, album selection, tune/preset channel selections, time adjustment (7 to 11, 13, 14)

USB lid (11)

❺ **D.BASS selection (10)**

Stop/Demo (5, 7, 11 to 14)

❻ **FM/AM radio, music port selection (8, 14)**

❼ **Volume control**

Disc tray open/close (7)

USB port (11)

CD to USB high speed auto recording (12)

Recording indicator (11)

Remote control

Buttons such as ❶ function the same as the controls on the main unit.

Sleep timer (9)

❶

Auto off

Numeric (7, 8, 11, 14)

Delete (8)

Program (7, 8)

Clear (8)

❷

❹

Track skip/search, tune/preset channel selections, time adjustment, program play, program check (7 to 9, 11, 13, 14)

OK (7, 9, 13, 14)

❺

Preset EQ (10)

USB recording start/pause (11, 12)

Clock/Timer (9)

Play timer/Record timer (9)

Dimmer

Display (7, 12 to 14)

❼

Muting

Bass/Treble (10)

Repeat (7)

Play mode (7, 8, 11)

❻

❸

Stop (7, 11 to 14)

Album selection, bass/treble adjustment (7, 10, 11, 14)

Re-Master (10)

Surround (10)

USB edit mode (12, 13)

USB recording mode (13)

AUTO OFF	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.
DIMMER	Dims the display panel.
MUTING	Mutes the sound.

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

Discs

Basic play

`CD` `MP3`

1 Press [⏻/I] 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 [▶/II, CD] to start play.

4 Adjust the volume.

To	Action
Stop the disc	Press [■].
Pause play	Press [▶/II, CD]. Press again to resume play.
Skip tracks	Press [I◀◀/∨] or [▶▶I/∧]. OR Press the numeric buttons.
Search through tracks	`CD` Press and hold [I◀◀/∨] or [▶▶I/∧] during play or pause.
Skip album	`MP3` Press [▲/▼, ALBUM].

PLAY MODE
Play Mode function

`CD` `MP3`

1 Press [▶/II, CD].

2 Press [PLAY MODE] to select the desired mode.

Mode	To play
1-TRACK 1TR	One selected track on the disc. Press [I◀◀/∨] or [▶▶I/∧]. OR Press the numeric buttons to select the track.
1-ALBUM 1ALBUM	`MP3` One selected album on the disc. Press [▲/▼, ALBUM] to select the album.
RANDOM RND	A disc randomly.
1-ALBUM RANDOM 1ALBUM RND	`MP3` All tracks in one selected album randomly. Press [▲/▼, ALBUM] 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
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 ⌐
└ Playing bit rate ← 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
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
Program play

This function allows you to program up to 24 tracks.

`CD`

1 Press [▶/II, CD] and then [■].

2 Press [PROGRAM].

3 Press the numeric buttons to select your desired track.
Repeat this step to program other tracks.

4 Press [▶/II, CD] to start play.

`MP3`

1 Press [▶/II, CD] and then [■].

2 Press [PROGRAM].

3 Press [▲/▼, ALBUM] to select your desired album.

4 Press [▶▶I/∧] once and then the numeric buttons to select your desired track.

5 Press [OK].
Repeat steps 3 to 5 to program other tracks.

6 Press [▶/II, CD] 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.

Discs (continued)

To	Action
Cancel program mode	Press [PROGRAM] in the stop mode.
Replay the program	Press [PROGRAM] then [▶/❙❙, CD].
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	<code>CD</code> Repeat step 3 in the stop mode. <code>MP3</code> 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 "PGM FULL" appears.
- The program memory is cleared when you open the disc tray.

<code>CD</code>
- 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.

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

COMPACT
disc
DIGITAL AUDIO

Note about using a DualDisc
The digital audio content side of a DualDisc does not meet the technical specifications of the Compact Disc Digital Audio (CD-DA) format so playback may not be possible.

<code>MP3</code>
- 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.

Using the FM/AM radio

FM/AM PLAY MODE
MUSIC P.
Manual tuning

1 Press [MUSIC P., FM/AM] repeatedly to select "FM" or "AM".

2 Press [PLAY MODE] to select "MANUAL".

3 Press [❙◀◀/∨] or [▶▶❙/∧] to select the frequency of the required station.

FM   88. 10 ST
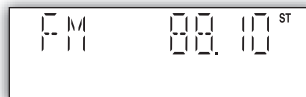
" **ST** " is displayed when a stereo FM broadcast is being received.

To tune automatically
Press [❙◀◀/∨] or [▶▶❙/∧] 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 [❙◀◀/∨] or [▶▶❙/∧] once again.

PLAY MODE
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.

FM/AM
MUSIC P.
Memory preset

Up to 30 stations can be set in the FM band and 15 stations in the AM band.

Preparation
Press [MUSIC P., FM/AM] repeatedly to select "FM" or "AM".

PROGRAM
Automatic presetting

Press and hold [PROGRAM] to start presetting.

PROGRAM
Manual presetting

1 Press [PLAY MODE] to select "MANUAL".

2 Press [❙◀◀/∨] or [▶▶❙/∧] 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.

PLAY MODE
Selecting a preset station

Press numeric buttons to select the channel.
For two-digit channel, press [≧10], then the two digits.

OR

1 Press [PLAY MODE] to select "PRESET".

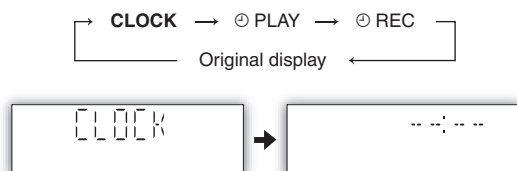**2** Press [❙◀◀/∨] or [▶▶❙/∧] to select the channel.

Using the timers

Setting the clock

This is a 24-hour clock.

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

CLOCK → ⏰ PLAY → ⏰ REC
Original display

```
CLOCK      ➡      -- --: -- --
```

2 Within 8 seconds, press [I◀◀/∨] or [▶▶I/∧] to set the time.

3 Press [CLOCK/TIMER] or [OK] to confirm.

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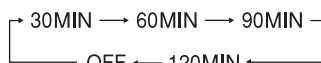Press [CLOCK/TIMER] to display the clock for few seconds.

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" is displayed.

30MIN → 60MIN → 90MIN
OFF ← 120MIN

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.

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).
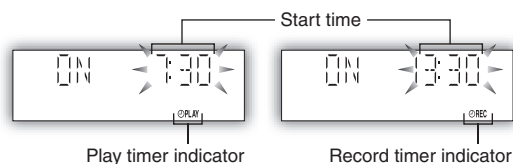
Preparation
Turn the unit on and set the clock.

Timer	Action
Play timer	Prepare the music source you want to listen to; disc, radio, USB, option port or music port source, and set the volume.
Record timer	Insert the USB device and tune to the radio station (➡ page 8) or select the music port source (➡ page 14).

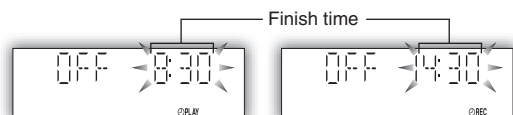**1 Press [CLOCK/TIMER] repeatedly to select your desired timer.**

CLOCK → ⏰ PLAY → ⏰ REC
Original display

2 Within 10 seconds, press [I◀◀/∨] or [▶▶I/∧] to set the starting time.

Start time

```
ON   7:30          ON   13:30
   ⏰PLAY              ⏰REC
```

Play timer indicator   Record timer indicator

3 Press [CLOCK/TIMER] to confirm.

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

Finish time

```
OFF   8:30         OFF   14:30
   ⏰PLAY              ⏰REC
```

To activate the timer

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

⏰ PLAY → ⏰ REC
no display (off)

6 Press [⏻/I] 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 [⏰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 indicator from the display.

Note
- The play timer and record timer cannot be used together.
- The record timer will start 30 seconds before the set time, with the volume muted.
- 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 other equipments, activate the equipments' play mode and increase the volume. (See the other equipments' instruction manual.)

Using sound effects

Selecting sound effects

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

PRESET EQ
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/TREBLE
Bass or treble

Enables you to enjoy the lower or higher pitch sound.

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

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

2 Press [▲/▼, ALBUM] 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.

SURROUND
Enjoying surround sound

Enables 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.

D.BASS
**Enjoying the bass
D.Bass (Dynamic bass)**

Enables you to enjoy the powerful bass effect.
Press [D.BASS] to select either "ON D.BASS" or "OFF D.BASS".

Note
The actual effect depends on the disc.

RE-MASTER
**Changing the sound quality :
RE-MASTER**

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

Press [RE-MASTER] to select either "ON RE-MASTER" or "OFF RE-MASTER".

Note
• This function is not applicable during recording process for CD(MP3).
• During CD(MP3) or USB selection, the re-master effect is digital.
• As for other selection, the re-master effect is analog.

Devices which are defined as USB mass storage class:
• USB devices that support bulk only transfer.
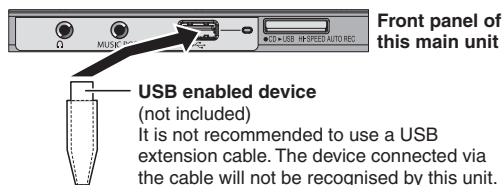• USB devices that support USB 2.0 full speed.

Supported format

• Folders are defined as album.
• Files are defined as track.
• Track must have the extension ".mp3" or ".MP3".
• CBI (Control/Bulk/Interrupt) is not supported.
• A device using NTFS file system is not supported. [Only FAT 12/16/32 (File Allocation Table 12/16/32) file system is supported]
• Depending on the sector size, some files may not work.
• Maximum album: 255 albums
• Maximum track: 2500 tracks
• Maximum track in one album: 999 tracks

Connecting a USB mass storage device

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

Front panel of this main unit

USB enabled device
(not included)
It is not recommended to use a USB extension cable. The device connected via the cable will not be recognised by this unit.

1 **Slide open the USB lid.**

2 **Reduce the volume and connect the USB mass storage device.**

Note
• Do not unplug the USB device during reading, playback or recording.
• Do not connect via a USB hub.

USB
▶/II

Playing a USB mass storage device

1 **Connect the USB device.**

2 **Press [▶/II, USB] to start play.**

To	Action
Pause play USB ▶/II	Press [▶/II, USB]. Press again to resume play.
Stop play ⬛	Press [■]. The current track will be memorised. Press [▶/II, USB] to start play again. OR Press [■] again to clear the memory.
Skip track ⬛ or ⬛	Press [I◄◄/∨] or [►►I/∧]. OR Press the numeric buttons.
Skip album ⬛ ALBUM or ⬛	Press [▲/▼, ALBUM].

For other operating functions, they are similar as those described in "Discs" (➡ page 7 and 8).

Note
• Only one memory card will be selected when connecting a multiport USB card reader. Typically the first memory card inserted.
• 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 to a compatible digital audio player to the USB port, charging may be activated. It will not charge when the unit is switch to standby mode.

Recording to a USB mass storage device

You can record sound or music tracks from the source such as the disc, radio, MUSIC PORT or OPTION port to a USB mass storage device.

Note
• A new album is created each time you perform a recording. Depending on the USB's memory, the album's sequence may change once the recording has completed.
• The recorded sound or music tracks are stored in a folder named "REC_DATA".
• All tracks are recorded to .mp3 format.

Recording from a disc

Recording is prohibited for disc encoded with copyright protection.

USB
●/II

Normal recording

CD   MP3

1 **Connect the USB device.**

2 **Insert the disc you want to record.**

3 **Press [▶/II, CD] and then [■].**

4 **Prepare the desired recording mode.**

To	Action
Record programmed tracks	Program the tracks you want. (➡ page 7)
Record specific tracks	Press [PLAY MODE] to select your desired mode. (➡ page 7)

5 **Press [●/II, USB] to start recording.**
"REC" is displayed and recording indicator blinks.

Recording indicator

Front panel of this main unit

"ALBUMXXX MAKING" is displayed. "ALBUMXXX" is the album's name.

To	Action
Stop recording	Press [■]. "WRITING" is displayed for a few second.
Erase a recorded track	(➡ page 13)

High-speed recording

`CD`

By main unit only

Recording speed:
CD to USB device : Four times (4x) the normal speed.
CD-RW to USB device: Two times (2x) the normal speed.

1 **Connect the USB device.**

2 **Insert the CD you want to record.**

3 **Press [▶/❚❚, CD] and then [■].**

4 **Press [●CD▸USB HI-SPEED AUTO REC] to start recording.**

■Limitations of high-speed recording
This unit uses a copy management system to limit the use of high-speed recording.

• **You are unable to perform a second high-speed recording from the same CD within 74 minutes upon the completion of the first high-speed recording.**
(You are able to perform the second recording at the normal speed.)
"PLEASE WAIT XX MIN" will be displayed if you try to perform a second high-speed recording.
"XX MIN" – the number of minutes you need to wait prior to performing the second recording.

• **You are unable to perform high-speed recording if the USB's remaining REC (recording) time is shorter than the CD album's total playback time.**
"CAN'T REC" will be displayed.

• **You can record up to 24 discs within 74 minutes.**
If you completed recording 24 discs within approximately 74 minutes, you will not be able to record the twenty-fifth disc.

Note
• Depending on the condition of the disc, it may not be possible to record at four times the normal speed or perform high-speed recording. Record the CD at normal speed.
• The sound is muted during high-speed recording.

Recording from CD using analogue format

`CD`

You can change your recording mode from the default digital recording to analogue recording.

1 **Press [▶/❚❚, CD] and then [■].**

2 **Press and hold [EDIT MODE] to select "ANALOG-REC".**
Each time you press and hold the button:

ANALOG-REC ⟷ DIGITAL-REC
(analogue recording) (digital recording)

Note
• The recording mode returns to the default "DIGITAL-REC" after completing the analogue recording.
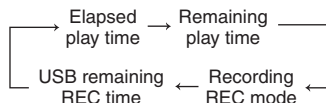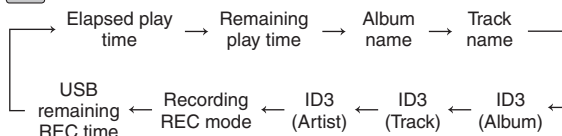• High-speed recording is not applicable while using analogue mode.

Display function

This function allows you to display the information during recording.
Press [DISPLAY] repeatedly during USB recording mode.

`CD`

Elapsed play time → Remaining play time → Recording REC mode → USB remaining REC time → (back to Elapsed play time)

`MP3`

Elapsed play time → Remaining play time → Album name → Track name → ID3 (Album) → ID3 (Track) → ID3 (Artist) → Recording REC mode → USB remaining REC time → (back to Elapsed play time)

Note
When an iPod is connected, the USB's remaining REC (recording) time will not be displayed.

Recording from other sources

1 **Connect the USB device.**

2 **Select the source to be recorded.**
Radio recording:
Tune in the station (➡ page 8)
MUSIC PORT:
Play the portable audio equipment. (➡ page 14)
OPTION port:
Select the desired track to be recorded and play the connected equipment. (➡ page 14)

3 **Press [●/❚❚, USB] to start recording.**
"REC" is displayed and recording indicator blinks.

To	Action
Stop recording	Press [■]. "WRITING" is displayed for a few second.
Pause recording	Press [●/❚❚, USB]. "REC" flashes. Press again to resume recording.
Erase a recorded track	(➡ page 13)

Note
• A track mark is inserted each time you pause. (➡ see below)
• You cannot change to other sources during pause recording.
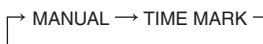
Adding track marks

You can add track marks where the track changes on the radio or the other equipment. These marks separate tracks during recording. They can be added automatically or manually during recording.

Before recording
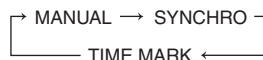**Press [EDIT MODE] repeatedly to select your desired track mark mode.**

Radio:
Each time you press the button:

→ MANUAL → TIME MARK →

MUSIC PORT or OPTION port:
Each time you press the button:

→ MANUAL → SYNCHRO → TIME MARK →

Edit Mode	Action
MANUAL	Track marks are inserted manually.
TIME MARK	Track marks are inserted automatically every five minutes.
SYNCHRO	Recording automatically starts when the other equipment starts to play. Recording will pause when it does not detect any sound for approximately 3 seconds.

During recording
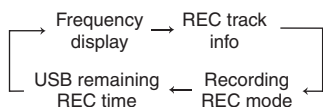**Press [EDIT MODE] to add track mark using MANUAL or TIME MARK mode.**

Note
If you press [EDIT MODE] while using TIME MARK mode during recording, the five-minute counter will be reset.

DISPLAY

Display function (FM radio mode)

You can display the information of the FM radio broadcast that you are currently recording.

**Press [DISPLAY] during USB recording while listening to FM radio broadcast.**

Frequency display → REC track info → Recording REC mode → USB remaining REC time → (loops back to Frequency display)

Other recording functions

REC MODE

Recording mode

You can select the desired recording mode before you start recording.

Press [REC MODE] repeatedly to select your desired setting.

→ 128 KBPS → 192 KBPS → 320 KBPS → Original display → (loops)
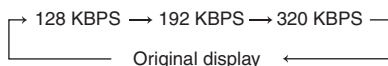
Recording mode	Effect
128 KBPS	Long play mode
192 KBPS	Normal mode
320 KBPS	Short play mode

During recording
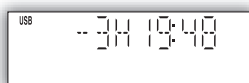**Press [DISPLAY] repeatedly to display the current recording mode.**

Note
You cannot change the recording mode during recording.

DISPLAY

Display function

You are able to check the USB device's remaining recording time before or during recording.

Press [DISPLAY].

USB ⁻⁻ 3H 19:40

Note
During recording, the remaining time displayed is an estimation of the current recording mode.

EDIT MODE

Erasing the recorded tracks

This function allows you to erase unwanted tracks quickly and easily.

1. **Press [▶/❚❚, USB] and then [■].**

2. **Select your desired album or tracks.**

3. **Press [EDIT MODE] to select your desired erasing mode.**
Each time you press the button:

→ TRACK DEL → ALBUM DEL → FORMAT → Original display → (loops)
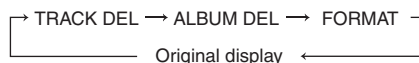
Edit mode	Action
TRACK DEL	Erase single track
ALBUM DEL	Erase one album
FORMAT	Erase all album

4. **Press [OK].**
Within 2 seconds or so, the selected item to be erased is displayed followed by the "PRESS OK" display.
Example:

Track number

USB DEL T001 MP3 ➡ USB PRESS OK MP3
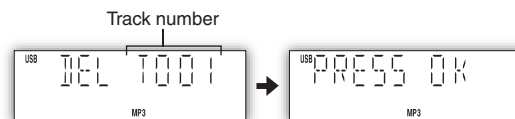
5. **Press [OK] again.**

6. **Press [❙◀◀/∨] or [▶▶❙/∧] to select "YES" then press [OK] to confirm the erasure.**
"WRITING" is displayed.

OR

Press [❙◀◀/∨] or [▶▶❙/∧] to select "NO" then press [OK] to cancel the erasure.
Example:

USB SURE? YES MP3 ➡ USB WRITING MP3

Note
For "ALBUM DEL", only 999 tracks in albums which contain more than 1000 tracks will be erased. To erase the selected album, repeat steps 2 to 6.

Using other equipment

Connecting the Universal Dock for iPod

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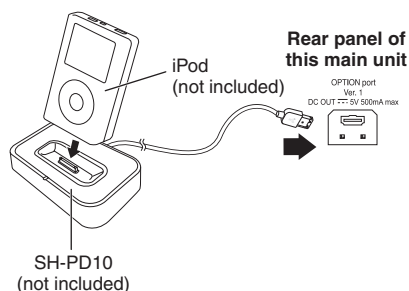
Connecting and charging the iPod

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.)**

OPTION
▶/❚❚

Playing the iPod

1 **Connect the iPod as described above.**

iPod
(not included)

Rear panel of this main unit

OPTION port
Ver. 1
DC OUT ⎓ 5V 500mA max

SH-PD10
(not included)

2 **Press [▶/❚❚, OPTION] to select "OPTION" as the source.**

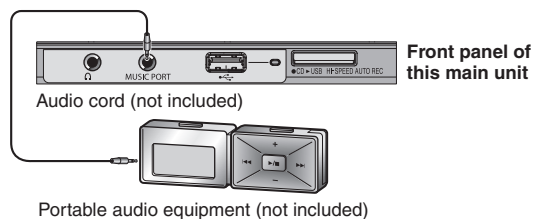| To	Action
Pause ⏹	Press [▶/❚❚, OPTION] or [■]. Press [▶/❚❚, OPTION] to resume.
Skip tracks ⏷ or ⏶	Press [I◄◄/∨] or [▶▶I/∧].
Search through tracks ⏷ or ⏶	Press and hold [I◄◄/∨] or [▶▶I/∧].
Display iPod menu screen DISPLAY	Press [DISPLAY].
Use as iPod menu cursor ▲ALBUM or ▼	Press [▲/▼, ALBUM].
Select iPod menu item OK	Press [OK].

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.

Connecting and playing a portable audio equipment

FM/AM
MUSIC P.

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

MUSIC PORT

Front panel of this main unit

●CD ▶USB HI-SPEED AUTO REC

Audio cord (not included)

Portable audio equipment (not included)

Avoid high level of sound from the other equipment before connection. Reduce the volume and switch off the equaliser 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 P., FM/AM] 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.

Changing the remote control code

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

FM/AM/
MUSIC P.
⊘

Change the main unit's code

1 **Press [FM/AM/MUSIC P.] to select "MUSIC P.".**

2 **Press and hold [FM/AM/MUSIC P.] on the main unit and then press and hold [2] (or [1]) on the remote control until "REMOTE 2" (or "REMOTE 1") is displayed.**

OK

Change the remote control's code

Press and hold [OK] and [2] (or [1]) on the remote control for at least 4 seconds.

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.

Playing back

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.
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.

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.

USB

The USB drive or its contents cannot be read.	The USB drive format or its contents is/are not compatible with the system, "NO PLAY" is displayed. Unplug the USB device and insert it again (➡ page 11). Alternatively, format the USB device and record the desired tracks again and playback the device (➡ page 13). 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.
Slow operation of the USB flash drive.	Large file size numerous files or high memory USB flash drive takes longer time to read.
USB recording stops suddenly. **"REC ERROR" is displayed.**	Select a suitable recording mode (128 KBPS or 192 KBPS) and resume recording.

Others

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

Unit displays

"NO PLAY"	Check the content. Only MP3 format files can be played.
"USB OVER CURRENT ERROR"	The USB mass storage device rating exceeds 500mA. Disconnect the USB device. Turn the unit off and then back on.
"F61"	Check and correct the speaker cable connections. If this does not fix the problem, consult the dealer.
"F76"	There is a power supply problem. Consult the dealer.
"ERROR"	Incorrect operation performed. Read the instructions and try again.
"VBR–"	The unit cannot display the remaining play time for variable bit rate (VBR) tracks.
"- -:- -"	You plugged the AC mains lead in for the first time or there was a power failure recently. Set the time (➡ page 9).
"MP3 ERROR" or "PLAYERROR"	You have played an unsupported format. Check the contents.
"UNSUPPORT"	You have inserted an unsupported device (➡ page 11).
"HI-SPEED CAN'T REC"	You cannot use high-speed recording while using analogue mode. Change to digital mode or use normal recording.

RQTX0166

15

Specifications

AMPLIFIER SECTION

RMS Output Power Stereo Mode

Front Ch (both ch driven)

80 W per channel (3 Ω), 1 kHz, 10% THD

Total RMS Stereo mode power 160 W

FM/AM TUNER, TERMINALS SECTION

Preset memory FM 30 stations

AM 15 stations

Frequency Modulation (FM)

Frequency range 87.50 to 108.00 MHz (50 kHz step)

Sensitivity 4.5 dBμV (IHF)

S/N 50 dB 9.0 dBμV

Antenna terminals 75 Ω (unbalanced)

Amplitude Modulation (AM)

Frequency range 522 to 1629 kHz (9 kHz step)

AM Sensitivity S/N 20dB at 999 kHz 660 μV/m

Music Port input jack

Sensitivity 100 mV, 11 kΩ

Terminal Stereo, 3.5 mm jack

Phone jack

Terminal Stereo, 3.5 mm jack

Option port Version 1

CD SECTION

Disc played (8cm or 12 cm)

(1) CD, CD-R/RW (CD-DA, MP3※)

※ MPEG-1 Layer 3, MPEG-2 Layer 3

Pick up

Wavelength (CD) 785 nm

Laser power (CD) CLASS 1

Audio output (Disc)

Number of channels (FL, FR), 2 Channel

USB SECTION

USB port

USB standard USB 2.0 full speed

Media file format support MP3 (*.mp3)

USB device file system FAT 12 / FAT 16 / FAT 32

USB port power Max 500 mA

USB ripping bit rate 128 / 192 / 320 kbps

Frequency response 4 Hz to 20 kHz

Output level (1 kHz, 0 dB) 1000 mV ± 150 mV

S/N ratio > 80 dB

Dynamic range > 80 dB

Separation > 60 dB

Total harmonic distortion < 0.1 %

USB recording speed 1x, 4x (CD only)

Recording file format MP3 (*.mp3)

SPEAKER SECTION

Type 3 way, 3 speaker system (Bass reflex)

Speaker unit(s) Impedance 3 Ω

1. Tweeter 1.9 cm soft dome type

2. Woofer 14 cm cone type

3. Super tweeter 1.5 cm piezo type

Input power (IEC) 80 W (Max)

Output sound pressure 81 dB/W (1.0 m)

Cross over frequency 5.3 kHz, 10 kHz

Frequency range 41 Hz to 65 kHz (-16 dB)

48 Hz to 58 kHz (-10 dB)

Dimensions (W x H x D) 161 mm x 240 mm x 262 mm

Mass 2.6 kg

GENERAL

Power supply AC 230 to 240 V, 50 Hz

Power consumption 85 W

Dimensions (W x H x D) 175 mm x 240 mm x 349.8 mm

Mass 4.5 kg

Operating temperature range 0˚C to +40˚C

Operating humidity range 35 % to 80 % RH (no condensation)

Power consumption in standby mode 0.7 W (approximate)

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.

Matsushita Electric Industrial Co., Ltd.
Web Site: http://panasonic.net

En