Panasonic®

Operating Instructions

CD Stereo System

Model No. **SC-NS55**

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.

Table of contents

SUPPLIED ACCESSORIES

Please check and identify the supplied accessories.
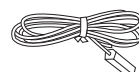
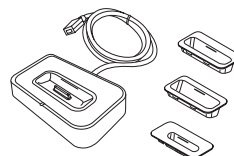| 1 x Remote control	1 x AM loop antenna
(N2QAYB000163)	
1 x AC mains lead	1 x FM indoor antenna
2 x Remote control batteries	1 x Universal Dock for iPod
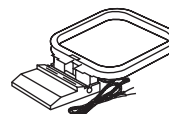
Made for iPod

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-NS55
Main unit	**SA-NS55**
Speakers	**SB-NS55**

CLASS 1
LASER PRODUCT
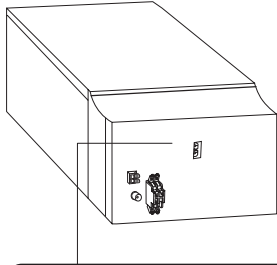
CAUTION	CLASS 1M INVISIBLE LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1 +A2/ Class 1M
VARNING	KLASS 1M OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN DIREKT GENOM OPTISKT INSTRUMENT.
FORSIGTIG	USYNLIG LASERSTRÅLING KLASSE 1M, NÅR LÅGET ER ÅBENT. UNDGÅ AT SE LIGE PÅ MED OPTISKE INSTRUMENTER.
VARO	AVATTAESSA OLET ALTTIINA LUOKAN 1M NÄKYMÄTÖNTÄ LASERSÄTEILYÄ. ÄLÄ KATSO OPTISELLA LAITTEELLA SUORAAN SÄTEESEEN.
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. RQLVS0035

Inside of product

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.
• 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.

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

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

THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

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.
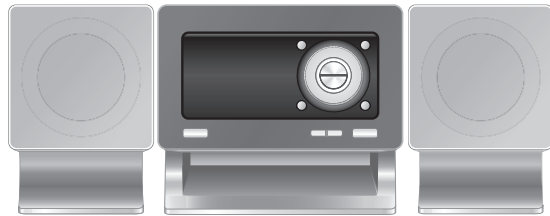
-If you see this symbol-

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

Speakers are designed identically so that no left or right channel orientation is necessary.

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.
- You cannot take the front net off the speakers.

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

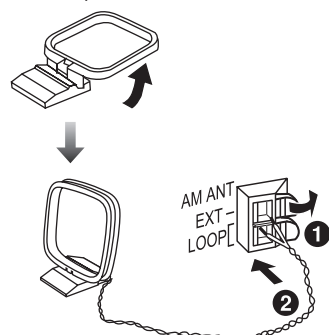Connect the AC mains lead only after all other connections have been made.

Connect the Universal Dock for iPod.
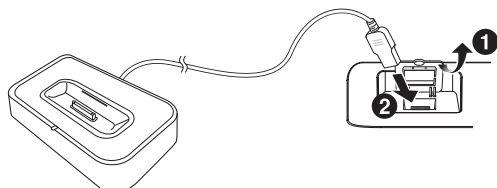
Insert the appropriate adapter that suits your iPod.
(See the Universal Dock for iPod's instruction manual).
You can charge and play your iPod. (➜ page 10)

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 FM indoor antenna.

Adhesive tape

FM indoor antenna

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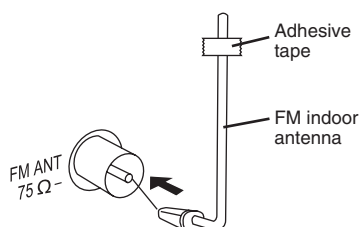
Tape the antenna to a wall or column, in a position with least amount of interference.

To household mains socket

Connect the speaker cables.

⊖ ⊕

Black (⊖)
Red (⊕)

Red (⊕)
Black (⊖)

L
R

(6Ω)
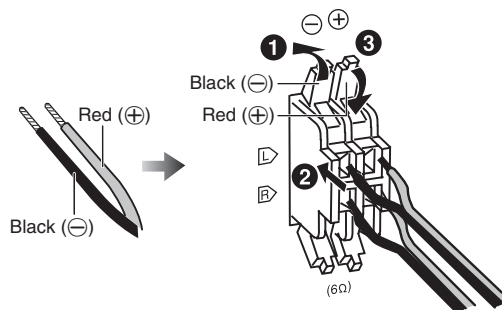
Incorrect connection can damage the unit.

Connect the AC mains lead.

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

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.

Optional antenna connections

FM outdoor antenna

FM outdoor antenna
(not included)

75 Ω coaxial cable
(not included)

AM outdoor antenna

AM outdoor antenna
(not included)

←5-12 m→

AM loop antenna
(included)

- 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.
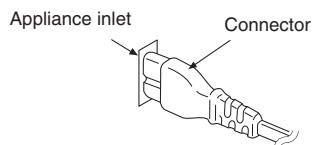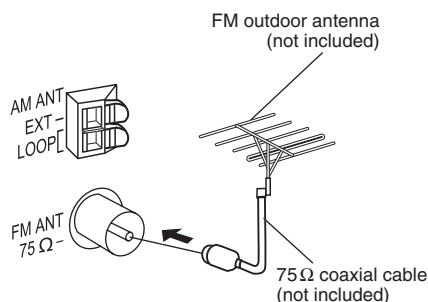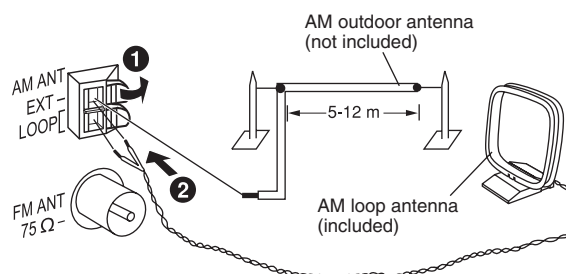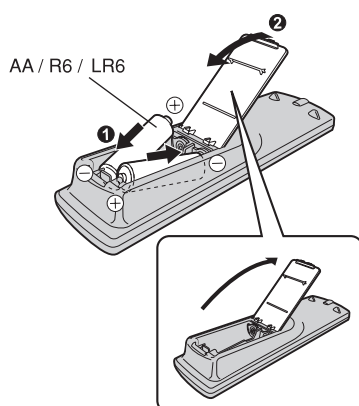- Disconnect the FM indoor antenna if an FM outdoor antenna is installed.
- Connect the AM outdoor antenna without removing the AM loop antenna. Run 5 to 12 m of vinyl-covered wire horizontally along a window or other convenient location.

Step 2 - Inserting batteries into the remote control

AA / R6 / LR6

■ 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
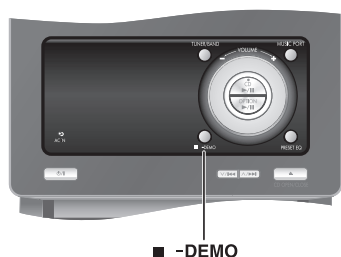
■ –DEMO

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.

Top of unit

Option port (10)

Music port jack (13)

Headphone jack ( )
Avoid listening for prolonged periods of time
to prevent hearing damage.
Plug type: Ø3.5 mm stereo
(not included)

❶ Tuner/Band selection (9)

Display panel

Remote control sensor

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

❷ Standby/on switch (⏻/I) (7, 11)
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.

❸ Volume control

❹ Music port selection (13)

❺ Disc play/pause (7, 8)

❻ Option play/pause (10)

❼ Preset EQ selection (12)

Stop/Demo (5, 7, 8, 10)

Disc tray open/close (7)
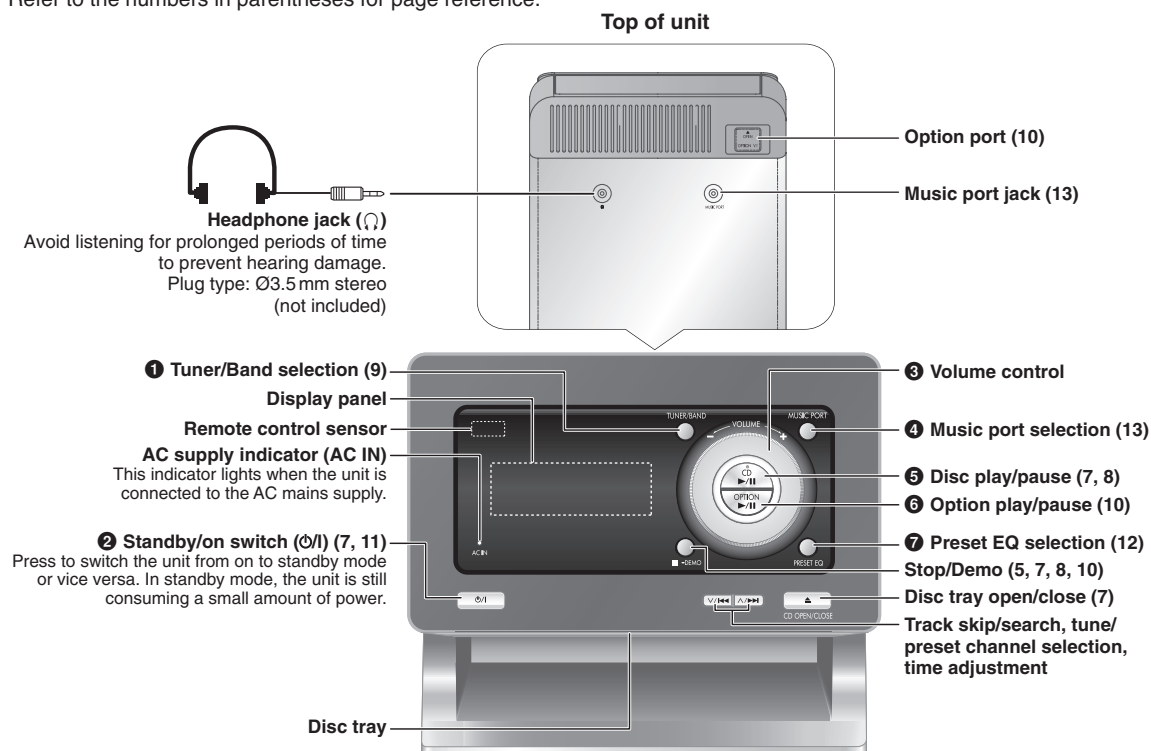
**Track skip/search, tune/
preset channel selection,
time adjustment**

Disc tray

Remote control

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

Sleep timer (11)

❷

Auto off

Program (8, 9)

Clear (8)

Play mode (7, 9)

Repeat (8)

Album selection (7, 8)

❺

**Bass/treble
adjustment (12)**

❹

❼

Clock/Timer (11)

Play timer (11)

Display (7)

Dimmer

Numeric (7 to 10, 13)

Delete (8)

**Track skip/search, tune/
preset channel selection,
time adjustment (7 to 11)**

Stop (7, 8, 10)

❻

❶

❸

Bass/treble selection (12)

Enter (8, 13)

Muting

Surround (12)

AUTO OFF	This function allows you to turn off the unit in **disc** 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

DISPLAY

Numeric buttons

PLAY MODE

ALBUM ↙, ↘

∨/|◄◄, ∧/►►|

CD ►/▌▌

VOL +, −

■

▲ CD OPEN/CLOSE

Basic play

`CD` `MP3`

1 Press [⏻] to turn the unit on.

2 Press [▲ CD OPEN/CLOSE] to open the disc tray and then load the disc. Press [▲ CD OPEN/CLOSE] again to close the tray.

Label must face upward

Disc tray

3 Press [CD ►/▌▌] to start play.

4 Adjust the volume.

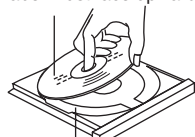| To	Action
stop the disc	Press [■].
pause play	Press [CD ►/▌▌]. Press again to resume play.
skip tracks	Press [∨/|◄◄] or [∧/►►|].
search through tracks `CD`	Press and hold [∨/|◄◄] or [∧/►►|] during play or pause.
skip album `MP3`	Press [ALBUM ↙ or ↘] in the play mode. Press [ALBUM ↙ or ↘] once and then the numeric buttons in the stop mode.

Play Mode function

`CD` `MP3`

1 Press [CD ►/▌▌].

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`

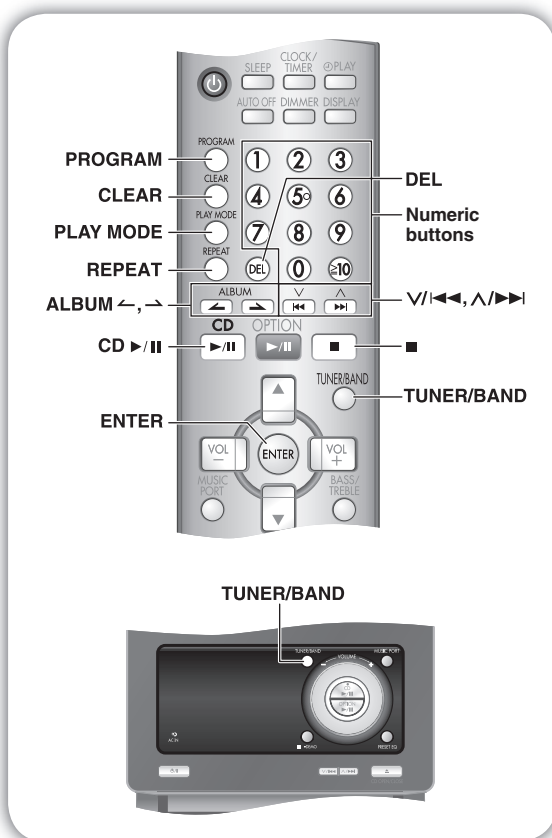→ Elapsed play time → Remaining play time →

`MP3`

→ Elapsed 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.

RQTV0187

PROGRAM
CLEAR
PLAY MODE
REPEAT
ALBUM ⤾ , ⤿
CD ▶/❙❙
ENTER

DEL
Numeric buttons
∨/❙◀◀, ∧/▶▶❙

■

TUNER/BAND

TUNER/BAND

Advanced play

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.

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:

Program play

This function allows you to program up to 24 tracks.

CD

1 **Press [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 [CD ▶/❙❙] to start play.**

MP3

1 **Press [CD ▶/❙❙] and then [■].**

2 **Press [PROGRAM].**

3 **Press [ALBUM ⤾ or ⤿] to select your desired album.**

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

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

6 **Press [CD ▶/❙❙] to start play.**

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

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

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

MP3
• Files are treated as tracks and folders are treated as albums.
• This unit can access up to 999 tracks, 255 albums and 20 sessions.
• 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.

FM/AM Radio

Manual tuning

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

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

3 **Press [∨/I◄◄] or [∧/►►I] 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 [∨/I◄◄] or [∧/►►I] 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 [∨/I◄◄] or [∧/►►I] once again.

To improve FM sound quality

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

```
FM    88.10 MONO
```

To cancel
Press and hold [PLAY MODE] again until "MONO" disappears.
• MONO is also cancelled if the frequency is changed.
• Turn off "MONO" for normal listening.

Memory preset

Up to 20 stations can be set in the FM band and 15 stations in the AM band.

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".**

```
MANUAL
```

2 **Press [∨/I◄◄] or [∧/►►I] to tune to the required station.**

3 **Press [PROGRAM].**

4 **Press the 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 the 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 [∨/I◄◄] or [∧/►►I] to select the channel.**

AM allocation setting

<u>By main unit only</u>

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.

Using the iPod
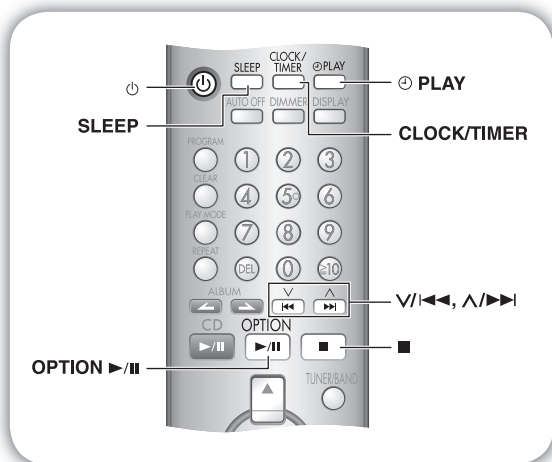
You can charge and play your iPod by putting it in the Universal Dock for iPod that connected to the option port on top of this unit.

Connecting and charging the iPod

Preparation:
Connect the Universal Dock for iPod to the option port.
(➡ page 4)

1 **Insert the appropriate dock adapter into the slot of the Universal Dock for iPod. (See the Dock's instruction manual)**

2 **Place your iPod in the Universal Dock for iPod.**

iPod (not included)

The indicator lights up when the iPod is inserted, and charging begins.
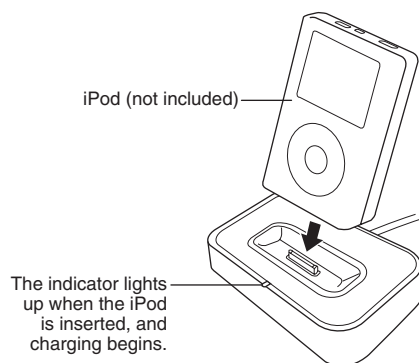
Charging time

iPod nano 1st generation iPod nano 2nd generation (aluminum) iPod 5th generation (video)	Until iPod is fully charged
iPod 4th generation (color display) iPod 4th generation iPod mini	5 hours (fixed)

Note
- "OPTION ✳" will be shown on the main unit's display during iPod charging in main unit standby mode. It will go off when charging is finished.
  For the above models under "fixed 5-hour charging", "OPTION ✳" continues to be displayed throughout this duration, even when your iPod is fully charged. You can turn off this display by removing the iPod from the dock.
- Compatibility depends on the software version of your iPod.

Play from the iPod

Before place the iPod to the Universal Dock for iPod, turn off the equalizer function (if there is any) of the iPod. Otherwise, the sound from the speaker may be distorted.

1 **Confirm you iPod connection.**

2 **Press [OPTION ▶/❙❙] to select OPTION as the source.**

To	Action
Pause	Press [OPTION ▶/❙❙]. Press again to resume.
Skip tracks	Press [∨/❙◀◀] or [∧/▶▶❙].
Search through tracks	Press and hold [∨/❙◀◀] or [∧/▶▶❙] during play or pause.

Note
- When you select another source or turn off the main unit, the iPod turns off.
- Some features may not be compatible depending on the model or the software version of your iPod.

Compatible iPod

Name	Memory size
iPod nano 2nd generation (aluminum)	2GB, 4GB, 8GB
iPod 5th generation (video)	60GB, 80GB
iPod 5th generation (video)	30GB
iPod nano 1st generation	1GB, 2GB, 4GB
iPod 4th generation (color display)	40GB, 60GB
iPod 4th generation (color display)	20GB, 30GB
iPod 4th generation	40GB
iPod 4th generation	20GB
iPod mini	4GB, 6GB

Note
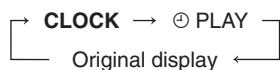Compatibility depends on the software version of your iPod.

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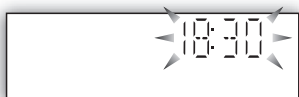
Timer

Setting the clock

This is a 24-hour clock.

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

```
   ┌─ CLOCK  →  ⊙ PLAY ─┐
   └──  Original display ←┘
```


2 Within 5 seconds, press [∨/◄◄] or [∧/►►|] to set the time.

3 Press [CLOCK/TIMER] again to confirm.

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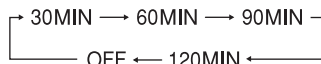Press [CLOCK/TIMER] to display the clock for few seconds.

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.

```
   ┌→ 30MIN → 60MIN → 90MIN ─┐
   └── OFF ← 120MIN ←────────┘
```


Sleep timer indicator

To cancel
Press [SLEEP] to select "OFF".

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

Note
• The play and sleep timer can be used together.
• The sleep timer always has priority. Be sure not to overlap timer settings.
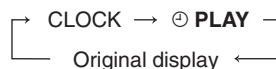
Using the play timer

You can set the play timer to come on at a certain time to wake you up.
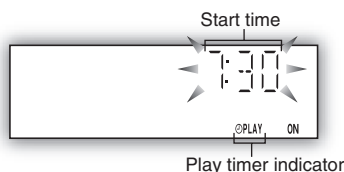
Preparation
Turn the unit on and set the clock.
Prepare the music source you want to listen to; disc, radio, option port or music port source, and set the volume.
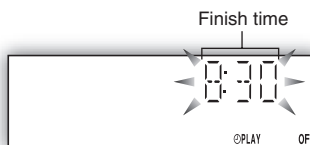
1 Press [CLOCK/TIMER] repeatedly to select play timer.

```
   ┌─ CLOCK  →  ⊙ PLAY ─┐
   └──  Original display ←┘
```

2 Within 5 seconds, press [∨/◄◄] or [∧/►►|] to set the starting time.

Start time

Play timer indicator

3 Press [CLOCK/TIMER] to confirm.

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

Finish time

To activate the timer

### 5 Press [⊙PLAY] to turn on the timer.
"⊙PLAY" is displayed.

6 Press [⏻] to turn off the unit.
The unit must be off for the timer to operate.

To	Action
change the settings	Repeat steps 1 to 4 and 6.
change the source or volume	1) Press [⊙PLAY] to clear the ⊙PLAY 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.
cancel	Press [⊙PLAY] to clear the timer indicator from the display.

Note
• The 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 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 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

Numeric buttons

ENTER

▲, ▼

MUSIC PORT

BASS/TREBLE

PRESET EQ

SURROUND
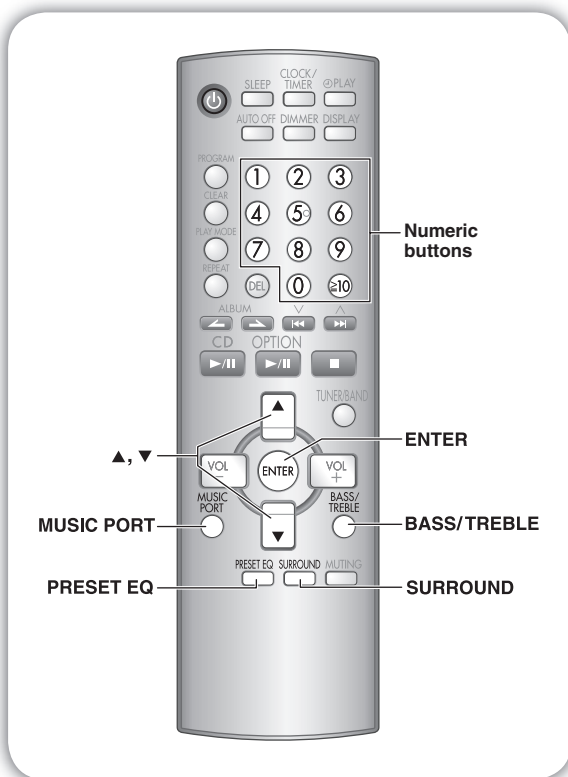
Selecting sound effects

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/TREBLE] repeatedly to select your desired setting.

```
  ┌→ BASS → TREBLE ┐
  └── original display ←┘
```

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

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

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

Enjoying surround sound

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

To activate
Press [SURROUND] to display " 〓〓〓〓〓 " indicator.

To cancel
**Press [SURROUND] again to clear " 〓〓〓〓〓 " indicator.**

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

External unit

Connecting to a portable audio equipment

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

MUSIC PORT   Audio cord (not included)

Portable audio equipment
(not included)
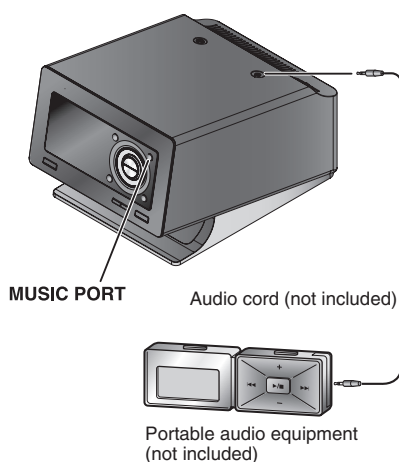
Playing from portable audio equipment

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.

Changing the remote control code

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

Change the main unit's code

Press and hold [MUSIC PORT] on the main unit and then press and hold [2] (or [1]) on the remote control. "REMOTE 2" is displayed.

Change the remote control's code

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

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

Troubleshooting guide

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

Common problems

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 5).
Sounds unfixed, reversed or come from one speaker only.	Check the speaker connections (➡ page 5).
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).
"F76" is displayed.	Check and correct the speaker cord connections (➡ page 5). 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 4).
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.

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.

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.
"MECH ERR"	Check that the passage of the disc tray is cleared. Remove if anything is placed under the disc tray. Turn off and then turn back on the unit.

The remote control

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

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.

Specifications

AMPLIFIER SECTION

RMS OUTPUT POWER both channel driven simultaneously

   10 % Total harmonic distortion (THD)

                   15 W per channel (6 Ω)

Input impedance	
MUSIC PORT	12 kΩ
Output impedance	
HEADPHONE	16 to 32 Ω
Phone jack	
Terminal	Stereo, 3.5 mm
Music Port jack	
Terminal	Stereo, 3.5 mm
Option Port	Version 1

FM TUNER SECTION

Frequency range	87.50 to 108.00 MHz (50 kHz step)
Sensitivity	0.10 µV (IHF)
S/N 26 dB	1.20 µV
Antenna terminals	75 Ω (unbalanced)
Preset station	FM 20 stations
	AM 15 stations

AM TUNER SECTION

Frequency range	522 to 1629 kHz (9 kHz step)
	520 to 1630 kHz (10 kHz step)
Sensitivity	
S/N 20 dB (at 999 kHz)	1000 µV/m

CD SECTION

Disc played [8 cm (3˝) or 12 cm (5˝)]

   (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	
Wavelength	785 nm
Laser power	CLASS 1
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	1 way, 1 speaker system
Speaker(s)	
FULL RANGE	8 cm CONE type 6 Ω
Impedance	6 Ω
Input power (IEC)	15 W (MAX)
Output sound pressure	79.05 dB/W (1.0 m)
Frequency range	55 Hz to 25 kHz (-16 dB)
	60 Hz to 20 kHz (-10 dB)
Dimensions (W x H x D)	127 mm x 184 mm x 228 mm
Mass	1.4 kg

GENERAL

Power supply	AC 230 to 240 V, 50 Hz
Power consumption	60 W
Dimensions (W x H x D)	212 mm x 184 mm x 308 mm
Mass	3.5 kg
Operating temperature range	

                 +5 to +35˚C (+41˚F to +95˚F)

Operating humidity range

                 5 to 90 % RH (no condensation)

Power consumption in standby mode 0.7 W (approx.)

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.