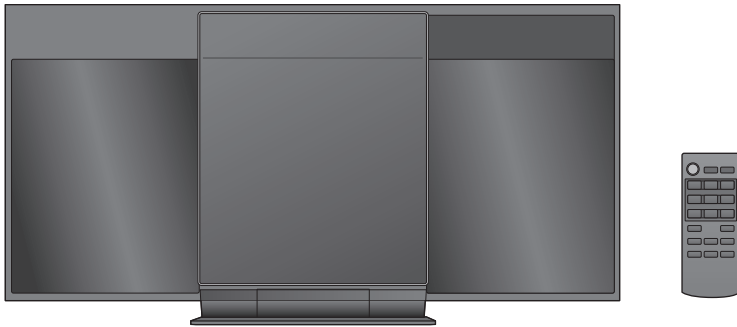# Panasonic®

Operating Instructions
Compact Stereo System

Model No. SC-HC28

Thank you for purchasing this product.

Please read these instructions carefully before using this product,
and save this manual for future use.

Safety precautions

WARNING

Unit
- To reduce the risk of fire, electric shock or product damage,
  - Do not expose this unit to rain, moisture, dripping or splashing.
  - Do not place objects filled with liquids, such as vases, on this unit.
  - Use only the recommended accessories.
  - Do not remove covers.
  - Do not repair this unit by yourself. Refer servicing to qualified service personnel.
  - Do not let metal objects fall inside this unit.
  - Do not place heavy items on this unit.

AC mains lead
- To reduce the risk of fire, electric shock or product damage,
  - Ensure that the power supply voltage corresponds to the voltage printed on this unit.
  - Insert the mains plug fully into the socket outlet.
  - Do not pull, bend, or place heavy items on the lead.
  - Do not handle the plug with wet hands.
  - Hold onto the mains plug body when disconnecting the plug.
  - Do not use a damaged mains plug or socket outlet.
- The mains plug is the disconnecting device.
  Install this unit so that the mains plug can be unplugged from the socket outlet immediately.

Button-type battery (Lithium battery)
- Risk of fire, explosion and burns. Do not recharge, disassemble, heat above **60 ºC** or incinerate.
- Keep the Button-Type battery out of the reach of children. Never put Button-Type battery in mouth. If swallowed call your doctor.

CAUTION

Unit
- This unit 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 place sources of naked flames, such as lighted candles, on this unit.
- This unit may receive radio interference caused by mobile telephones during use. If such interference occurs, please increase separation between this unit and the mobile telephone.
- This unit is intended for use in moderate climates.

Placement
- Place this unit on an even surface.
- To reduce the risk of fire, electric shock or product damage,
  - Do not install or place this unit in a bookcase, built-in cabinet or in another confined space. Ensure this unit is well ventilated.
  - Do not obstruct this unit's ventilation openings with newspapers, tablecloths, curtains, and similar items.
  - Do not expose this unit to direct sunlight, high temperatures, high humidity, and excessive vibration.

Button-type battery (Lithium battery)
- Danger of explosion if battery is incorrectly replaced. Replace only with the type recommended by the manufacturer.
- Insert with poles aligned.
- Mishandling of batteries can cause electrolyte leakage and may cause a fire.
  - Remove the battery if you do not intend to use the remote control for a long period of time. Store in a cool, dark place.
  - Do not heat or expose to flame.
  - Do not leave the battery(ies) in a car exposed to direct sunlight for a long period of time with doors and windows closed.
- When disposing the batteries, please contact your local authorities or dealer and ask for the correct method of disposal.

Product Identification Marking is located on the bottom of the unit.

-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.

Table of contents

About descriptions in these operating instructions
● Pages to be referred to are indicated as "➜ ○○".

Accessories

Check the supplied accessories before using this unit.

☐ **1 Remote control (with a battery)**
(N2QAYC000079)

☐ **1 AC mains lead**

☐ **1 FM indoor antenna**

☐ **1 AM loop antenna**

☐ **1 Pad sheet (➜ 15)**

● Do not use AC mains lead with other equipment.
● Product numbers provided in these operating instructions are correct as of February 2013. These may be subject to change.

Control reference guide

Unless otherwise indicated, operations are described using the remote control.

1 **Standby/on switch (⏻/I) (⏻)**
   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.
2 Select the audio source
3 Basic playback control buttons
4 Enter setup menu
5 Enter the iPod/iPhone menu
   Change displayed information
6 Set the sleep timer
7 Change the brightness of the display panel
8 Adjust the volume (0 (min) to 50 (max))
9 Mute the sound
   Mutes the sound. Press again to cancel. "MUTE" is also cancelled when the volume is adjusted or the unit is turned off.
10 Enter playback menu
11 Enter sound menu
12 Selection/OK
13 "IPOD_PORT" for iPod/iPhone/iPad (➔ 6)
   USB port (➔ 6)
14 Open or close the sliding door
15 Sliding door
16 Display
17 Remote control signal sensor
   Distance: Within approx. 7 m directly in front.
   ● To avoid interference, please do not put any objects in front of signal sensor.
18 "IPOD_DOCK" for iPod/iPhone/iPad mini (➔ 6)
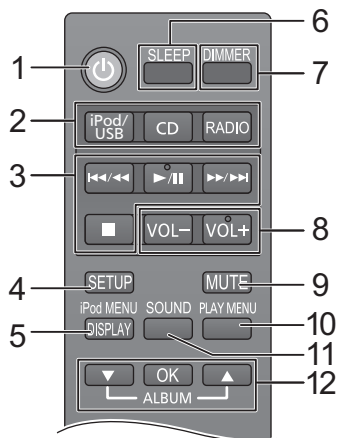
Top view
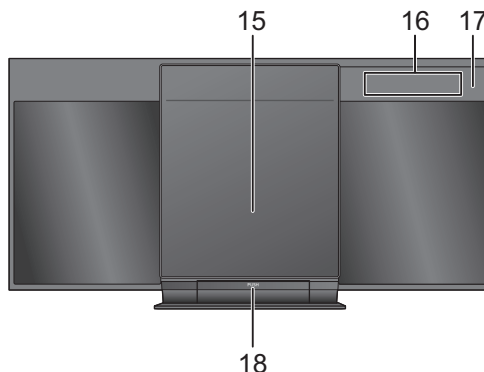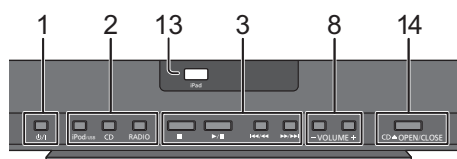
■ **Before using for the first time**
Remove the insulation sheet ⒶA.

■ **To replace a button-type battery**
Battery type: CR2025 (Lithium battery)

● Set the button-type battery with its (+) mark facing upward.
● Keep the button-type battery out of reach of children to prevent swallowing.

Connections

1

Adhesive tape
(not supplied)

FM indoor antenna
(supplied)

2

AM loop antenna (supplied)

3 **Connect the AC mains lead after all other connections are completed.**

This unit consumes a small amount of AC power (➔ 13) even when turned off.

AC mains lead (supplied)

To household mains socket

● In the interest of power conservation, if you will not be using this unit for an extended period of time, unplug it from the household mains socket.

● These speakers do not have magnetic shielding. Do not place them near a television, personal computer or other devices easily influenced by magnetism.
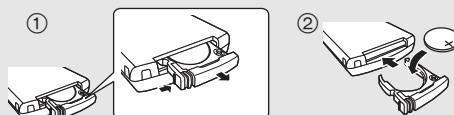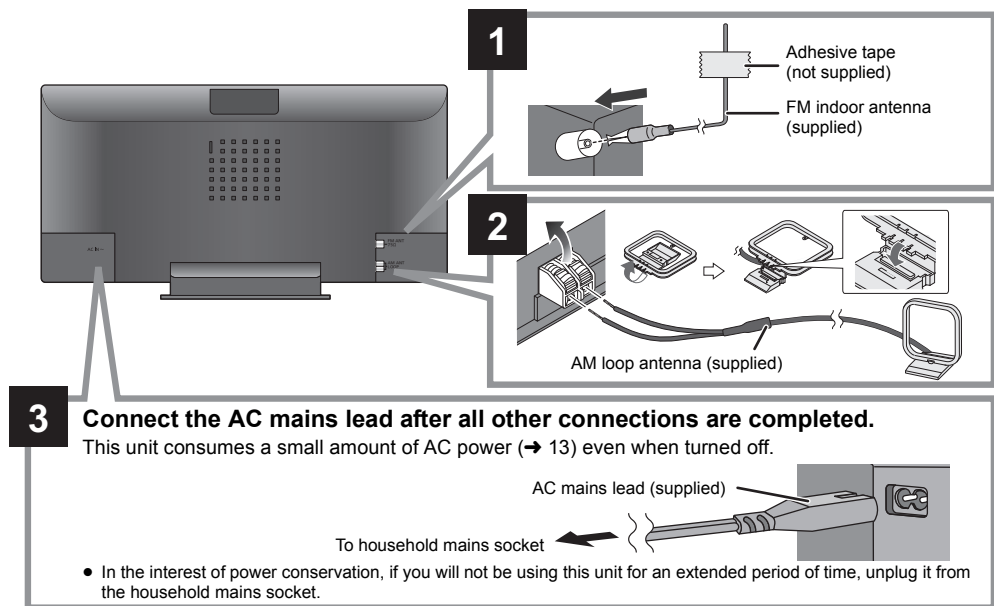● Tape the FM antenna to a wall or column in a position with the least amount of interference. (Use an FM outdoor antenna if radio reception is poor.)

Unit and media care

Pull out the AC mains lead from the outlet before maintenance.

■ Clean this unit with a soft, dry cloth
● When dirt is heavy, wring a cloth moistened in water tightly to wipe the dirt, and then wipe it with a dry cloth.
● Never use alcohol, paint thinner or benzine to clean this unit.
● Before using chemically treated cloth, carefully read the instructions that came with the cloth.

■ Maintenance of the lens
● Clean the lens regularly to prevent malfunctions. Use a blower to remove dust and a cotton swab if it is extremely dirty.
● You cannot use a CD type lens cleaner.
● Do not leave the sliding door open for prolonged periods of time. This will cause the lens to get dirty.
● Be careful not to touch the lens with your fingers.

Lens

■ Clean discs

DO   **DO NOT**
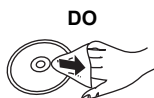
Wipe with a damp cloth and then wipe dry.

■ Disc handling precautions
● Handle discs by the edges to avoid inadvertent scratches or fingerprints on the disc.
● Do not attach labels or stickers to discs.
● Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
● Do not use the following discs:
  – Discs with exposed adhesive from removed stickers or labels (rented discs etc.).
  – Discs that are badly warped or cracked.
 – Irregularly shaped discs, such as heart shapes.

■ To dispose or transfer this unit
The unit may keep the user settings information in the unit. If you discard this unit either by disposal or transfer, then follow the procedure to return all the settings to the factory presets to delete the user settings.
(➔ 10, "To return all settings to the factory preset")

5

Inserting media

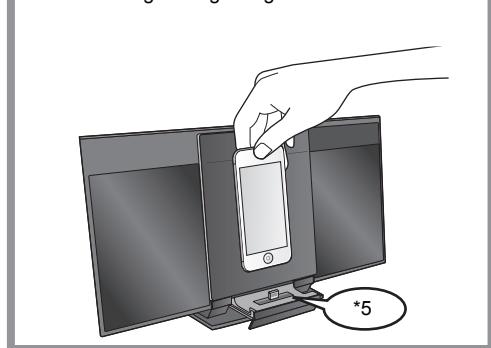**Select "IPOD_PORT" as the source**
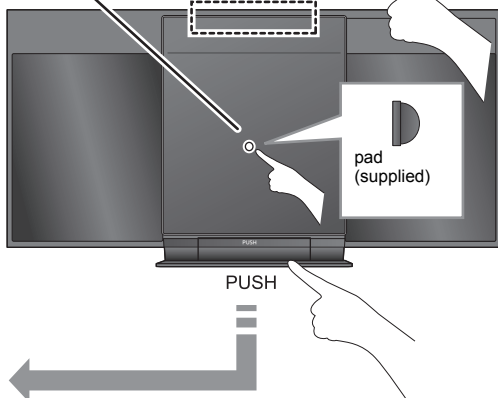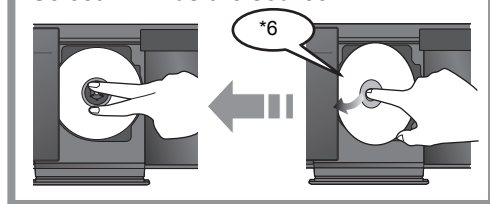"USB" is displayed when a compatible USB is inserted.

*4
*1, 2, 3
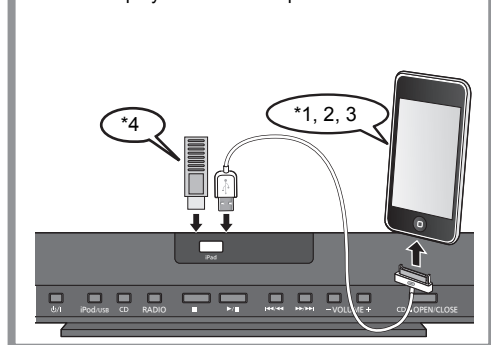
Attach the pad before using this unit. (→ 15)

Select "IPOD_DOCK" as the source
Connect using the Lightning connector *1

*5

Select "CD" as the source

*6

CD ⏏ OPEN/CLOSE

pad
(supplied)

PUSH

*1: Refer to "Playable media" for compatible models. (→ 12)
 – Do not connect an iPad (4th generation) to the
 "IPOD_DOCK" connection. This unit might fall over.
 Use the "IPOD_PORT" connection.
*2: When using the "IPOD_PORT" connection, do not connect
 the following models to this unit:
 – iPod classic, iPod [4th (colour display), and 5th (video)
 generation], iPod nano (1st generation)
 Unexpected behaviour may occur.
*3: Connect using the dedicated USB cable (not supplied).
*4: Insert the USB device directly. Do not use any USB
 extension cable.
*5: When using the "IPOD_DOCK" connection:
 ● Be sure to remove the iPod/iPhone/iPad mini from its case.
 ● Make sure that the iPod/iPhone/iPad mini is fully
 inserted.
 ● If the iPod/iPhone/iPad mini is pushed to the left or right,
 make sure to check that it is still fully inserted.
 ● Make sure to hold the dock when removing the iPod/
 iPhone/iPad mini.
 ● Make sure to close the dock properly after using it.
 If not,
 – The sliding door will not open.
 – The standby power consumption will increase.
*6: Make sure to tilt the disc so as not to touch the sliding door.

● Do not open the sliding door manually.
● Make sure that the unit does not fall when inserting or
removing media.
● When moving this unit, be sure to remove all media and turn
this unit to standby mode.
● Before removing the USB device, select a source other than
"USB".

Charging an iPod/iPhone/iPad

Charging starts when an iPod*2/iPhone/iPad is
connected to this unit.
● During standby mode, charging will not start from the
"IPOD_PORT" connection, however it will start as usual from
the "IPOD_DOCK" connection.
 – To charge from the "IPOD_PORT" connection, start the
 charging before turning this unit to standby mode.

● Check the iPod/iPhone/iPad to see if the battery is fully
charged. (Once fully recharged, additional recharging will not
occur.)
● If this unit is switched to standby mode
"IPOD CHARGING" is shown on the unit's display.

6

Media playback operations

The following marks indicate the availability of the feature.

CD: CD audio in CD-DA format and a CD that contains MP3 files (→ 12)
iPod: Compatible iPod/iPhone/iPad (→ 12)
USB: USB devices containing MP3 files (→ 12)

Preparation
● Turn the unit on.
● Insert the media. (→ 6)
● Press [CD] or [iPod/USB] to select the audio source.

📖

● When using iPod/iPhone/iPad, the operation may vary among those models.

Basic play (**CD**, **iPod**, **USB**)

Play	Press [▶/❚❚].
Stop	Press [■]. ● **USB**: The position is memorised and "RESUME" is displayed.
Pause	Press [▶/❚❚]. Press again to restart play.
Skip	Press [❙◀◀/◀◀] or [▶▶/▶▶❙] to skip track. **CD**, **USB** Press [▲] or [▼] to skip the MP3 album.
Search	During play or pause Press and hold [❙◀◀/◀◀] or [▶▶/▶▶❙]. ● **iPod**: Backwards search is only within the current track.

■ **CD**, **USB** To display information

Press [DISPLAY] repeatedly.

📖

● Maximum number of displayable characters: approx. 30
● This unit supports ver. 1.0, 1.1 and 2.3 ID3 tags. Text data that is not supported will not be displayed or shown differently.
● Album and track indication for MP3 files.

$$A \_\_\_ \quad T \_\_\_$$

"A _ _ _": MP3 album number.
"T _ _ _": MP3 track number.
● "_" stands for the album or track number.
"🔳": This indication is also used to refer to an album.
"♪": This indication is also used to refer to a track.

■ **iPod** To navigate through the iPod/iPhone menu

Open the Music App to use this feature with iPod touch/iPhone.
– [▲, ▼]: To navigate menu items.
– [OK]: To go to the next menu.
– [iPod MENU]: To return to the previous menu.

📖

● Depending on the model (e.g., iPod nano 7th generation, etc.), it may be necessary to select the album, artist, etc. on the iPod/iPhone.

Playback modes (**CD**, **USB**)

Select the playback mode.

1 Press [PLAY MENU] to select "PLAYMODE" or "REPEAT".

2 Press [▲, ▼] to select the setting and then press [OK].

PLAYMODE

OFF PLAYMODE	Select to cancel the play mode setting.
1-TRACK	Only plays the selected track. ● "1", "♪" is displayed. (Skip to the desired track.)
1-ALBUM	Only plays the selected MP3 album. ● "1", "🔳" is displayed.
RANDOM	Plays the contents randomly. ● "RND" is displayed.
1-ALBUM RANDOM	Plays the tracks in the selected MP3 album randomly. ● Press [▲] or [▼] to select the MP3 album. ● "1", "🔳", "RND" is displayed.

REPEAT

ON REPEAT	Turn on repeat mode. ● "↺" is displayed.
OFF REPEAT	Turn off repeat mode.

📖

● When using iPod/iPhone/iPad, use the setting on the iPod/iPhone/iPad.
● During random play, you cannot skip to the previous track.
● The mode is cancelled when you open the sliding door.

Listening to the radio

You can preset up to 30 FM channels / 15 AM channels.

Preparation

● Make sure that the antennas are connected. (➜ 5)
● Turn the unit on.
● Press [RADIO] to select "FM" or "AM".

📖

● A station previously stored is overwritten when another station is stored in the same channel preset.

Presetting stations automatically

1 Press [PLAY MENU] to select "A.PRESET".
2 Press [▲, ▼] to select "LOWEST" or "CURRENT" and then press [OK].

LOWEST:

To begin auto preset with the lowest frequency (FM 87.50, AM 520 or AM 522).

CURRENT:

To begin auto preset with the current frequency.*
* To change the frequency, refer to "Manual tuning and presetting".

The tuner starts to preset all the stations it can receive into the channels in ascending order.

Listening to a preset channel

Preparation
① Press [PLAY MENU] repeatedly to select "TUNEMODE".
② Press [▲, ▼] to select "PRESET" and then press [OK].

Press [|◄◄ / ◄◄] or [►► / ►►|] to select the channel.

■ Manual tuning and presetting

Select a radio broadcast.

1 Press [PLAY MENU] repeatedly to select "TUNEMODE".
2 Press [▲, ▼] to select "MANUAL" and then press [OK].
3 Press [|◄◄ / ◄◄] or [►► / ►►|] to tune to the required station.
   ● To start automatic tuning, press and hold [|◄◄ / ◄◄], [►► / ►►|] until the frequency starts scrolling. Tuning stops when a station is found.

To preset the channel
4 While listening to the radio broadcast Press [OK].
5 Press [▲, ▼] to select the channel and then press [OK].

■ To improve FM sound quality
1 While receiving FM broadcasts, press [PLAY MENU] repeatedly to select "FM MODE".
2 Press [▲, ▼] to select "MONO" and then press [OK].

● This setting can be preset and memorised. To do so, continue to step 4 of "Manual tuning and presetting".

📖

● Select "STEREO" in step 2 to return to stereo broadcasts.
● "MONO" is cancelled if the frequency is changed.
● If "MONO" is selected, regardless of the type of signal this unit is receiving, "FM MONO" is displayed. (➜ below)

■ To display the current FM signal status

While receiving FM broadcast, press [DISPLAY].

"FM ST":   The FM signal is in stereo.
"FM":   The FM signal is in monaural.
● "FM" is also displayed even if this unit is not tuned to a station.

📖

● "STEREO" is displayed when this unit tunes to a stereo broadcast.

Sound adjustment

The following sound effects can be added to the audio output.

1 Press [SOUND] repeatedly to select the effect.

2 Press [▲, ▼] to select the setting and then press [OK].

Preset EQ (PRESET EQ)	"HEAVY" (heavy), "SOFT" (soft), "CLEAR" (clear), "VOCAL" (vocal) or "FLAT" (flat/off). ● The factory preset is "HEAVY".
Bass (BASS) or Treble (TREBLE)	Adjust the level (−4 to +4).
Dynamic Bass (D.BASS)	"ON D.BASS" or "OFF D.BASS". ● The factory preset is "ON D.BASS".
Surround (SURROUND)	"ON SURROUND" or "OFF SURROUND". ● The factory preset is "OFF SURROUND".

● You may experience a reduction in sound quality when these effects are used with some sources. If this occurs, turn the sound effects off.

Clock and Timer

Setting the clock

This is a 24-hour clock.

1 Press [SETUP] to select "CLOCK".

2 Press [▲, ▼] to set the time and then press [OK].

● To display the clock, press [SETUP] to select "CLOCK" and then press [OK] once. The time is displayed for 10 seconds. (During standby, press [DISPLAY] once.)
● The clock is reset when there is a power failure or when the AC mains lead is removed.
● Reset the clock regularly to maintain accuracy.

Play timer

You can set the timer so this unit turns on at a certain time every day.

Preparation
Set the clock (➜ left).

■ Setting the timer

1 Press [SETUP] repeatedly to select "TIMER ADJ".

2 Press [▲, ▼] to set the starting time ("ON TIME") and then press [OK].

3 Press [▲, ▼] to set the finishing time ("OFF TIME") and then press [OK].

■ Turn the timer on

1 Select the music source*¹ and set the desired volume.

2 Press [SETUP] repeatedly to select "TIMER SET".

3 Press [▲, ▼] to select "SET" and then press [OK].
● "⏲" is displayed.
● To turn the timer off, select "OFF".

4 Press [⏻] to turn the unit off.

● To display the timer settings, press [SETUP] repeatedly to select "TIMER ADJ" and then press [OK] once.
The music source and volume will also be displayed if the timer is turned on.
● During standby, if the timer is turned on, press [DISPLAY] twice to display the settings.
● This unit can be used as normal after the timer is set, however:
– Turn the unit to standby mode before the timer start time.
– Even if the audio source or the volume is changed, the timer will still use the audio source and volume that was set when the timer was turned on.

*1: "CD", "USB", "IPOD_PORT", "IPOD_DOCK", "FM" and "AM" can be set as the music source.

Sleep timer

The sleep timer can turn the unit off after a set time.

Press [SLEEP] repeatedly to select the time.

"SLEEP 30" → "SLEEP 60" → "SLEEP 90" → "SLEEP 120"
↑———————— OFF (Cancel) ←————————|

● The remaining time is indicated on the unit's display except when other operations are performed.
● The play timer and sleep timer can be used together. The sleep timer always has priority.

Others

Automatic standby

As a factory preset, this unit will always turn off automatically if there is no sound output and no operation for approx. 30 minutes.

To cancel this function

1 Press [SETUP] repeatedly to select "AUTO OFF".

2 Press [▲, ▼] to select "OFF" and then press [OK].

📖
- To turn automatic standby on, select "ON" in step 2.
- This setting cannot be selected when "FM" or "AM" is the source.

Display brightness

The brightness of this unit's display can be changed.

Press [DIMMER].

Changing the unit and remote control code

When other Panasonic equipment responds to the supplied remote control, change the remote control code.

1 Press [CD] to select "CD".

2 Press and hold [CD] on the unit and [CD] on the remote control until the unit's display shows "REMOTE 2".

3 Press and hold [OK] and [CD] on the remote control for at least 4 seconds.

📖
- To change the mode back to "REMOTE 1", repeat the steps above but replace the button pressed on the remote control from [CD] to [RADIO].

Troubleshooting

Before requesting service, make the following checks. If you are in doubt about some of the check points, or if the solutions indicated in the following guide do not solve the problem, consult your dealer for instructions.

To return all settings to the factory preset

When the following situations occur, reset the memory:
- There is no response when buttons are pressed.
- You want to clear and reset the memory contents.

① Disconnect the AC mains lead. (Wait for at least 3 minutes before proceeding to step ②.)

② While pressing and holding down [⏻/I] on the unit, reconnect the AC mains lead.
- "--------" appears on the display.

③ Release [⏻/I].

📖
- All the settings are returned to the factory preset. You will need to reset the memory items.

Common problems

Humming heard during play.
- An AC mains lead or fluorescent light is near the cords. Keep other appliances and cords away from this unit's cables.

MP3 cannot be read.
- You may not be able to play MP3 if you have copied a multi-session disc that has no data between sessions.
- When creating a multi-session disc, it is necessary to close the session.
- The amount of data on the disc is too small. Set the amount of data to above 5 MB.

Disc operations

Incorrect display or play will not start.
- Make sure that the disc is compatible with this unit. (➜ 12)
- There is moisture on the lens. Wait for about an hour and then try again.

USB operations

No response when [▶/II] is pressed.
- Disconnect the USB device and then reconnect it. Alternatively, turn the unit off and on again.

The USB drive or its contents cannot be read.
- The USB drive format or its contents is/are not compatible with the unit (➜ 12).
- The USB host function of this product may not work with some USB devices.

Slow operation of the USB flash drive.
- Large file size or high memory USB flash drive takes longer time to read.

The elapsed time displayed is different from the actual play time.
- Copy the data to another USB device or backup the data and reformat the USB device.

Radio

A beat sound or noise is heard while receiving radio broadcast.

- Confirm the antennas are properly connected. (➔ 5)
- Adjust the position of the antenna.
- Try to keep a certain amount of distance between the antenna and AC mains lead.
- Try using an outdoor antenna if there are buildings or mountains nearby.
- Switch the television or other audio players off or separate it from this unit.
- Keep this unit away from mobile phones if the interference is apparent.

AM Stations cannot be selected.

Change the AM frequency step.
① Press [RADIO] to select "AM".
② Press and hold [RADIO] on the unit.

After a few seconds the display changes to show the current lowest frequency. Continue to hold the button down. The lowest frequency changes and the step is changed.

A low hum or noise is heard during AM broadcast.

- Keep the AM antenna away from this unit, other cables and cords.

iPod/iPhone/iPad operations

Cannot charge or operate.

- Have you selected the appropriate selector?
  Press [iPod] to select either "IPOD_DOCK" or "IPOD_PORT".
- Check that the iPod/iPhone/iPad is connected properly. (➔ 6)
- The battery of the iPod/iPhone/iPad is depleted. Charge the iPod/iPhone/iPad, and then operate again.
- Connect the iPod/iPhone/iPad again or try to restart the iPod/iPhone/iPad.
- When this unit is in standby mode, charging will not start when using the "IPOD_PORT" connection.
  Turn this unit on and make sure the charging has started before switching this unit to standby mode.

Remote control

The remote control doesn't work properly.

- The remote control and this unit are using a different code. (➔ right, "REMOTE □")
- Is the battery depleted or is the battery inserted incorrectly? (➔ 4)

Messages

The following messages or service numbers may appear on the unit's display.

"--:--"

- You plugged the AC mains lead in for the first time or there was a power failure recently. Set the time (➔ 9).

"ADJUST CLOCK"

- Clock is not set. Adjust the clock accordingly.

"ADJUST TIMER"

- Play timer is not set. Adjust the play timer accordingly.

"AUTO OFF"

- The unit has been left unused for about 30 minutes and will shut down within a minute. Press any button to cancel it.

"CHECKING CONNECTION"

- The unit is checking the connected iPod/iPhone/iPad.
- If this display keeps appearing, make sure that the battery of the iPod/iPhone/iPad is not depleted and that the iPod/iPhone/iPad is turned on and connected correctly (➔ 6).

"DOCK OPEN"

- Is the dock open? Close the dock completely to open the sliding door.

"ERROR"

- Incorrect operation is performed. Read the instructions and try again.

"F□□" (" □ " stands for a number.)

- There is a problem with this unit.
  Note down the displayed number, disconnect the AC mains lead and consult your dealer.

"ILLEGAL OPEN"

- Sliding door is not in correct position. Turn the unit off and on again. If this display appears again, consult the dealer.

"IPOD_DOCK OVER CURRENT ERROR"
"IPOD_PORT OVER CURRENT ERROR"

- The iPod/iPhone/iPad is drawing too much power. Disconnect the iPod/iPhone/iPad and turn the unit off and on again.
- The USB device is drawing too much power. Switch to "CD" mode, remove the USB and turn the unit off.

"NODEVICE"

- The iPod/iPhone/iPad device is not inserted correctly. Read the instructions and try again (➔ 6).
- The battery of the iPod/iPhone/iPad is depleted. Charge the iPod/iPhone/iPad and turn it on before connecting.
- The USB device is not inserted. Check the connection.

"NO DISC"

- Insert the disc to be played (➔ 6).

"NO PLAY"

- A CD that is not in CD-DA or MP3 format is inserted. It cannot be played.
- If there are more than 255 albums or folders (audio and non-audio), some of the MP3 files in these albums may not be read and played. Transfer these music albums to another USB. Alternatively, reformat the USB device and save these music albums prior to saving the other non-audio folders.

"NOT SUPPORTED"

- You have connected an iPod/iPhone/iPad that cannot be played (➔ 12).
- If the iPod/iPhone/iPad is compatible, turn it on and connect it correctly.

"READING"

- The unit is checking the CD information. After this display has disappeared, start operating.

"REMOTE □" (" □ " stands for a number.)

- The remote control and this unit are using different codes. Change the code on the remote control.
  - When "REMOTE 1" is displayed, press and hold [OK] and [RADIO] for more than 4 seconds.
  - When "REMOTE 2" is displayed, press and hold [OK] and [CD] for more than 4 seconds.

Playable media

Compatible iPod/iPhone/iPad

**Compatible with "IPOD_DOCK" connection
(Using Lightning connector)**

iPod touch (5th generation)
iPod nano (7th generation)
iPhone 5
iPad mini

**Compatible with "IPOD_PORT" connection
[Using dedicated USB cable (not supplied)]**

iPod touch 1st, 2nd, 3rd, 4th, and 5th generation
iPod nano 2nd, 3rd, 4th, 5th, 6th, and 7th generation
iPhone 5 / iPhone 4S / iPhone 4 / iPhone 3GS / iPhone 3G / iPhone
iPad (3rd, and 4th generation) **/ iPad 2 / iPad**
iPad mini

(as of February 2013)

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- Compatibility depends on the software version. Update your iPod/iPhone/iPad to the latest software before using it with this unit.
- Please be aware that Panasonic accepts no responsibility for the loss of data and/or information.

Compatible CD

- A disc with the CD Logo.

- This unit can play back discs that conform to the CD-DA format.
- The unit may not be able to play some discs due to the condition of the recording.

Compatible USB devices

- This unit does not guarantee connection with all USB devices.
- FAT12, FAT16 and FAT32 file systems are supported.
- This unit supports USB 2.0 full speed.
- This unit can support USB devices of up to 32 GB.

Compatible MP3 files

- Supported format: Files with the extension ".mp3" or ".MP3".
- Compatible compression rate: Between 64 kbps and 320 kbps (stereo).
- Depending on how you create the MP3 files, they may not play in the order you numbered them or may not play at all.

Creating MP3 files on a CD-R/RW
- Maximum number of tracks and albums: 999 tracks and 254 albums (Excluding Root folder).
- Disc formats: ISO9660 level 1 and level 2 (except for extended formats).
- If the disc includes both MP3 and normal audio data (CD-DA), the unit plays the type recorded in the inner part of the disc.
- This unit cannot play files recorded using packet write.

Creating MP3 files on a USB device
- Maximum number of tracks and albums: 2500 tracks and 254 albums (Excluding Root folder).
- Only one memory card will be selected when connecting a multiport USB card reader, typically the first memory card inserted.

Licenses

"Made for iPod", "Made for iPhone", and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.
Please note that the use of this accessory with iPod, iPhone, or iPad may affect wireless performance.
iPad, iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.

Specifications

■ GENERAL

Power consumption	40 W
Power consumption in standby mode*1	
	Approx. 0.2 W
Power consumption in standby mode (With the iPod dock open)	
	Approx. 0.4 W
Power supply	
	AC 220 V to 240 V, 50 Hz

Dimensions (W×H×D)
400 mm×213 mm×110 mm
(Min. Depth: 72 mm)
(Depth when tray open: 134 mm)
Mass Approx. 2 kg
Operating temperature range
0 °C to +40 °C
Operating humidity range
35 % to 80 % RH (no condensation)

■ AMPLIFIER SECTION

Output power
  RMS Output Power Stereo mode
    Front Ch (both ch driven)
5 W per channel (6 Ω), 1 kHz, 10 % THD
    Total RMS Stereo mode power

10 W

■ TUNER SECTION

Preset Memory FM 30 stations
AM 15 stations

Frequency Modulation (FM)
  Frequency range
87.50 MHz to 108.00 MHz (50 kHz step)
  Antenna terminals

75 Ω (unbalanced)

Amplitude Modulation (AM)
  Frequency range
522 kHz to 1629 kHz (9 kHz step)
520 kHz to 1630 kHz (10 kHz step)

■ DISC SECTION

Disc played (8 cm or 12 cm)
CD, CD-R/RW (CD-DA, MP3*2)

Pick up
  Wavelength 790 nm (CD)
Audio output (Disc)
  Number of channels

2 ch (FL, FR)

■ SPEAKER SYSTEM SECTION

Type
1 way, 1 speaker system (Bass reflex)
Speaker unit(s)
  Full range

8 cm Cone type×1 per channel
Impedance 6 Ω

■ TERMINAL SECTION

"IPOD_DOCK" connection

DC OUT 5 V 2.1 A MAX

"IPOD_PORT" connection

DC OUT 5 V 2.1 A MAX

  USB Standard

USB 2.0 full speed

  Media file format support

MP3 (∗.mp3)

  USB device file system

FAT12, FAT16, FAT32

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- Specifications are subject to change without notice.
  Mass and dimensions are approximate.
- Total harmonic distortion is measured by a digital spectrum analyzer.
*1: When the iPod/iPhone/iPad is not charging and the dock is closed.
*2: MPEG-1 Layer 3, MPEG-2 Layer 3

Limited Warranty (ONLY FOR AUSTRALIA)

Panasonic Warranty

1. The product is warranted for 12 months from the date of purchase. Subject to the conditions of this warranty Panasonic or its Authorised Service Centre will perform necessary service on the product without charge for parts or labour, if in the opinion of Panasonic, the product is found to be faulty within the warranty period.

2. This warranty only applies to Panasonic products purchased in Australia and sold by Panasonic Australia or its Authorised Distributors or Dealers and only where the products are used and serviced within Australia or it's territories. Warranty cover only applies to service carried out by a Panasonic Authorised Service Centre and only if valid proof of purchase is presented when warranty service is requested.

3. This warranty only applies if the product has been installed and used in accordance with the manufacturer's recommendations (as noted in the operating instructions) under normal use and reasonable care (in the opinion of Panasonic). The warranty covers normal domestic use only and does not cover damage, malfunction or failure resulting from use of incorrect voltages, incorrect installation, accident, misuse, neglect, build-up of dirt or dust, abuse, maladjustment of customer controls, mains supply problems, thunderstorm activity, infestation by insects or vermin, tampering or repair by unauthorised persons (including unauthorised alterations), introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, exposure to abnormally corrosive conditions or any foreign object or matter having entered the product.

4. This warranty does not cover the following items unless the fault or defect existed at the time of purchase:

   (a) Cabinet Part(s)
   (b) Video or Audio Tapes
   (c) SD cards or USB devices
   (d) User replaceable Batteries
   etc

   (e) DVD, Blu-ray or Recordable Discs
   (f) Video / Audio Heads from wear and tear in normal use
   (g) Information stored on Hard Disk Drive, USB stick or SD card
   (h) DTV reception issues caused by TV Aerial / Cabling / Wall socket(s)

5. Some products may be supplied with Ethernet connection hardware. The warranty is limited on such products and will not cover

   (a) Internet and or DLNA connection / setup related problems
   (b) Access fees and or charges incurred for internet connection
   (c) The use of incompatible software or software not specifically stipulated in the product operations manual; and
   (d) Any indirect or consequential costs associated with the incorrect use or misuse of the hardware, its connection to the internet or any other device.

6. To claim warranty service, when required, you should:

   - Telephone Panasonic's Customer Care Centre on 132600 or visit our website referred to below and use the Service Centre Locator for the name/address of the nearest Authorised Service Centre.
   - Send or take the product to a Panasonic Authorised Service Centre together with your proof of purchase receipt as a proof of purchase date. Please note that freight and insurance to and / or from your nearest Authorised Service Centre must be arranged by you.
   - Note that home or pick-up/delivery service is available for the following products in the major metropolitan areas of Australia or the normal operating areas of the nearest Authorised Service Centres:
     - Plasma/LCD televisions / displays (screen size greater than 103 cm)

7. The warranties hereby conferred do not extend to, and exclude, any costs associated with the installation, de-installation or re-installation of a product, including costs related to the mounting, de-mounting or remounting of any screen, (and any other ancillary activities), delivery, handling, freighting, transportation or insurance of the product or any part thereof or replacement of and do not extend to, and exclude, any damage or loss occurring by reason of, during, associated with, or related to such installation, de-installation, re-installation or transit.

Panasonic Authorised Service Centres are located in major metropolitan areas and most regional centres of Australia, however, coverage will vary dependant on product. For advice on exact Authorised Service Centre locations for your product, please telephone our Customer Care Centre on 132600 or visit our website and use the Service Centre Locator.

In addition to your rights under this warranty, Panasonic products come with consumer guarantees that cannot be excluded under the Australian Consumer Law. If there is a major failure with the product, you can reject the product and elect to have a refund or to have the product replaced or if you wish you may elect to keep the goods and be compensated for the drop in value of the goods. You are also entitled to have the product repaired or replaced if the product fails to be of acceptable quality and the failure does not amount to a major failure.

If there is a major failure in regard to the product which cannot be remedied then you must notify us within a reasonable period by contacting the Panasonic Customer Care Centre. If the failure in the product is not a major failure then Panasonic may choose to repair or replace the product and will do so in a reasonable period of time from receiving notice from you.

THIS WARRANTY CARD AND THE PURCHASE DOCKET (OR SIMILAR PROOF OF PURCHASE) SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES

If you require assistance regarding warranty conditions or any other enquiries, please visit the **Panasonic Australia** website **www.panasonic.com.au** or contact by phone on **132 600**
If phoning in, please ensure you have your operating instructions available.

Panasonic Australia Pty. Limited

ACN 001 592 187   ABN 83 001 592 187

1 Innovation Road, Macquarie Park NSW 2113

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Attaching the support pad to this unit

Attach the supplied support pad to prevent damage or scratches to this unit's sliding door or the device connected to the "IPOD_DOCK".
Attach the support pad before using this unit.
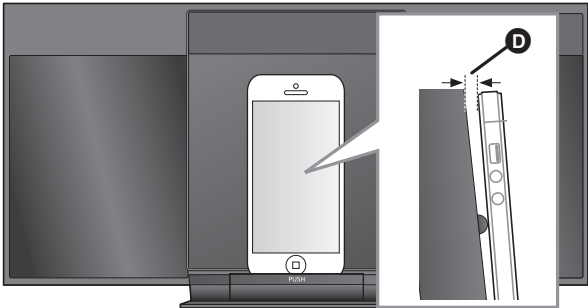● The location is the same for either iPod touch, iPod nano, iPhone or iPad mini.

1 Align this page to the sliding door and locate the position to attach the pad.
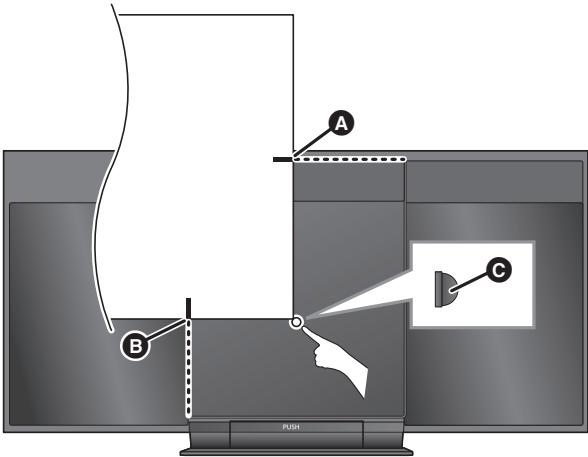
Ⓐ Align with the top of the sliding door.

Ⓑ Align with the side of the sliding door.

Ⓒ Pad (supplied)

2 Attach the pad near the corner of this page.
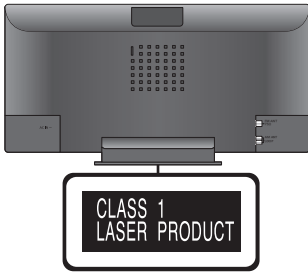
e.g., iPhone 5

Ⓓ There will be a gap between this unit's sliding door and the connected device.

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● 2 pads are supplied with this unit.
  Keep the other pad in a secure place for future use.

Ⓐ

Ⓑ

CLASS 1
LASER PRODUCT

Panasonic Corporation
Web Site: http://panasonic.net

(En)

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