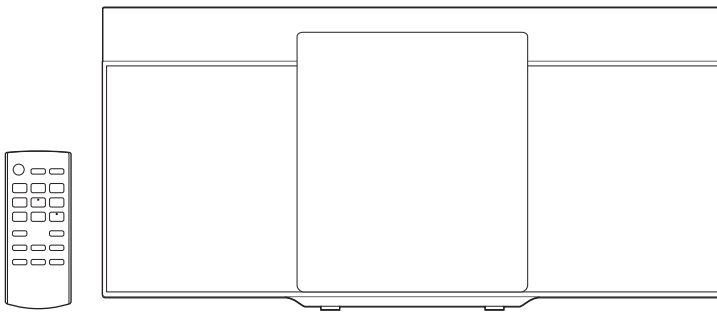


Panasonic®

Operating Instructions

Compact Stereo System

Model No. **SC-HC200**

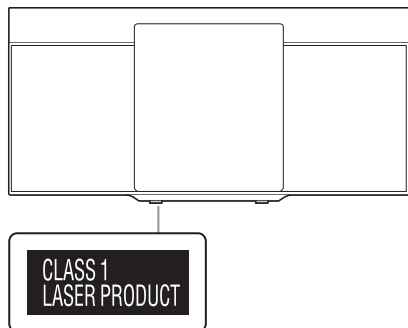


Thank you for purchasing this product.

For optimum performance and safety, please read these instructions carefully.

Please keep this manual for future reference.

Your system and the illustrations can look differently.



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

The holes at the back are used only by the retailers for product display purposes.
Panasonic cannot be held responsible for any property damage and/or serious injury, including death resulting from improper use of these holes.

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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 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.

CAUTION!

Unit

- 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 place sources of naked flames, such as lighted candles, on this unit.
- This unit is intended for use in moderate and tropical climates.
- 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 utilizes a laser. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

AC mains lead

- The mains plug is the disconnecting device. Install this unit so that the mains plug can be unplugged from the socket outlet immediately.

Battery

- Danger of explosion if battery is incorrectly replaced. Replace only with the type recommended by the manufacturer.
- When disposing of the batteries, please contact your local authorities or dealer and ask for the correct method of disposal.
- 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.
- Do not break open or short-circuit the battery.
- Do not charge the alkaline or manganese battery.
- Do not use the battery if the cover has peeled off.
- Remove the battery if you do not use the remote control for a long period of time. Keep in a cool, dark area.

For Asia

This telecommunication equipment conforms to NTC/NBTC technical requirement.

For Australia and New Zealand



**Disposal of Old Equipment and Batteries
Only for European Union and countries
with recycling systems**

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.



Supplied accessories

Check and identify the supplied accessories.

- ☐ **For Australia and New Zealand**

1 AC mains lead

For Asia

2 AC mains leads

- ☐ **For Australia and New Zealand**

1 AM loop antenna

- ☐ **1 FM indoor antenna**



- ☐ **1 Remote control**
(N2QAYB000984)

The symbols on this product (including the accessories) represent the following:

~ AC

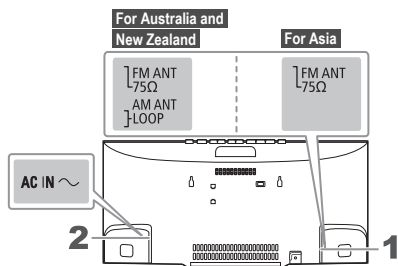
☐ Class II equipment (The construction of the product is double-insulated.)

I ON

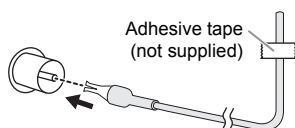
⏻ Standby

Making the connections

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



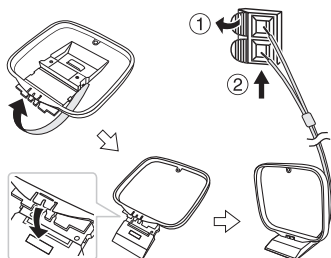
1 Connect the FM indoor antenna.



For Australia and New Zealand

Connect the AM loop antenna.

Stand the antenna up on its base until it clicks.



2 Connect the AC mains lead.



Do not use any other AC mains lead except the supplied one.

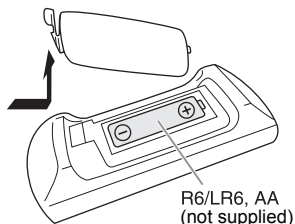
Conserving power

The system consumes a small amount of power (⇒ 13) even when it is in standby mode. Disconnect the power supply if you do not use the system. Some settings will be lost after you disconnect the system. You have to set them again.

Note:

- These speakers do not have magnetic shielding. Do not put them near TVs, PCs or other equipment easily influenced by magnetism.
- Tape the antenna to a wall with the least amount of interference.
- Use an outdoor antenna (not supplied) if reception is poor.

Preparing the remote control

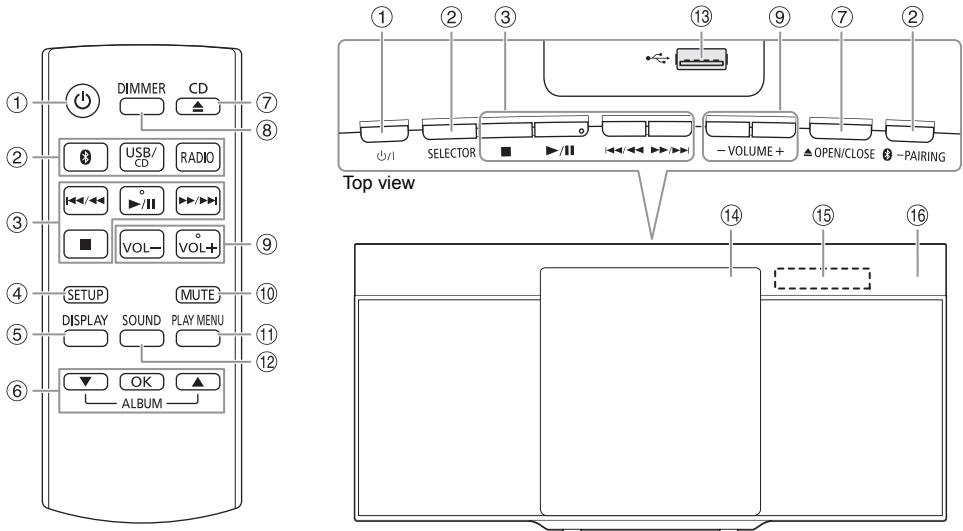


Use alkaline or manganese battery.

Install the battery so that the poles (+ and -) align with those in the remote control.

Overview of controls

Do the procedures with the remote control. You can also use the buttons on the main unit if they are the same.



- ① **Standby/on switch** [⏻], [⏻/⏻]
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**
On the remote control:
Press the corresponding button to select the source.
[📶]: BLUETOOTH
[USB/CD]: USB ↔ CD
[RADIO]: FM ↔ AM^{*1}
On the main unit:
CD → BLUETOOTH → USB → FM
↑ AM^{*1} ↓
- ③ Basic playback control
- ④ View the setup menu
- ⑤ View the content information
- ⑥ Select or confirm the option
- ⑦ Open or close the sliding door
- ⑧ **Decrease the brightness of the display panel**
To cancel, press the button again.
- ⑨ Adjust the volume level
- ⑩ **Mute the sound**
To cancel, press the button again.
“MUTE” is also cancelled when you adjust the volume or when you switch off the system.
- ⑪ View the play menu
- ⑫ Select the sound effects
- ⑬ USB port (🔌)
- ⑭ Sliding door
- ⑮ Display panel
- ⑯ **Remote control sensor**
Distance: Within approximately 7 m
Angle: Approximately 20° up and down, 30° left and right

^{*1} For Australia and New Zealand

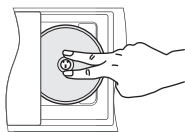
Select “BLUETOOTH” as the audio source

To start Bluetooth® pairing or disconnect a Bluetooth device, press and hold the corresponding button.

Preparing the media

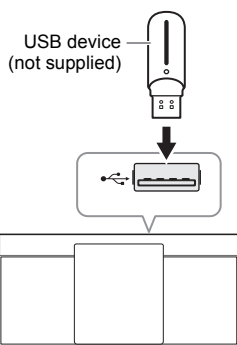
Disc

- 1 Press [USB/CD] to select "CD".
- 2 Press [CD ▲] (main unit: [▲]) to open the sliding door.
Put in a disc with the label facing towards you.



- 3 Press [CD ▲] (main unit: [▲]) again to close the sliding door.
Keep fingers away from the sliding door when it is closing.

USB



Press [USB/CD] to select "USB".

Note:

Do not use a USB extension cable. The system cannot recognise USB device connected through a cable.

Bluetooth®

You can connect and play an audio device wirelessly through Bluetooth®.

Preparation

- Switch on the Bluetooth® feature of the device and put the device near the system.
- Read the operating instructions of the device for details.

Pairing a device

Preparation

If this system is connected to a Bluetooth® device, disconnect it. (⇒ 7)

- 1 Press [Ⓜ] to select "BLUETOOTH".
If "PAIRING" is shown, continue with step 3.
- 2 Press [PLAY MENU] to select "PAIRING".
Or press and hold [Ⓜ –PAIRING] on the main unit until "PAIRING" is shown.
- 3 Select "SC-HC200" from the Bluetooth® menu of the device.
If prompted for a passkey, input "0000".
The device connects with this system automatically after pairing is complete.
The MAC address (example: 6C:5A:B5:B3:1D:0F) may be shown before "SC-HC200" is shown.
The name of the connected device is shown for a few seconds.

Note:

You can pair up to 8 devices with this system. If a 9th device is paired, the device that has not been used for the longest time will be replaced.

Connecting a device

Preparation

If this system is connected to a Bluetooth® device, disconnect it. (⇒ 7)

- 1 Press [Ⓜ] to select "BLUETOOTH".
"BLUETOOTH READY" is shown.
- 2 Select "SC-HC200" from the Bluetooth® menu of the device.
The name of the connected device is shown for a few seconds.
- 3 Start playback on the device.

Note:

- A device must be paired to connect.
- This system can only connect to one device at a time.
- When "BLUETOOTH" is selected as the source, this system will automatically try to connect to the last connected device. ("LINKING" is shown during this process.)

Media playback

- The following marks indicate the availability of the feature.

CD: CD-R/RW in CD-DA format or with MP3 files.

USB: USB device with MP3 files.

- BLUETOOTH:** Bluetooth® device.

Basic playback

CD USB BLUETOOTH

Play	Press [▶/] .
Stop	Press [■] . USB The position is memorised. "RESUME" is shown. Press again to stop fully.
Pause	Press [▶/] . Press again to continue playback.
Skip	Press [◀◀/▶▶] or [▶▶/▶▶] to skip track. CD USB Press [▲, ▼] to skip MP3 album.
Search	Press and hold [◀◀/▶▶] or [▶▶/▶▶] .

Note:
Depending on the Bluetooth® device, some operations may not work.

- ## Viewing available information

CD USB BLUETOOTH

You can view the available information on the display panel.

- Press [DISPLAY] repeatedly.

Note:

- Maximum characters that can be shown: Approximately 32
- This system supports ver. 1.0, 1.1 and 2.3 ID3 tags.
- Text data that the system does not support can show differently.
- Example: MP3 album and track number display.

-

LEVEL 0 ↔ LEVEL +1 ↔ LEVEL +2

- TQBJ2134

Play menu

CD USB

- 1 Press [PLAY MENU] repeatedly to select "PLAYMODE" or "REPEAT".
- 2 Press [▲, ▼] to select the setting and then press [OK].

PLAYMODE

OFF PLAYMODE	Cancel the setting.
1-TRACK 1 	Play one selected track. Press [◀◀/◀◀] or [▶▶/▶▶] to select the track.
1-ALBUM 1 	Play one selected MP3 album. Press [▲, ▼] to select the MP3 album.
RANDOM RND	Play all tracks randomly.
1-ALBUM RANDOM 1  RND	Play all tracks in one selected MP3 album randomly. Press [▲, ▼] to select the MP3 album.

REPEAT

OFF REPEAT	Cancel the setting.
ON REPEAT 	Repeat playback.

Note:

- During random playback, you cannot skip to tracks which have been played.
- The setting is cancelled when you open the sliding door or disconnect the USB device.

Note on disc

- This system can play CD-R/RW with CD-DA or MP3 format content.
- This system can access up to:
 - CD-DA: 99 tracks
- Before playback, finalise the disc on the device it was recorded on.
- Some CD-R/RW cannot be played because of the condition of the recording.

Note on USB device

- This system does not guarantee connection with all USB devices.
- This system supports USB 2.0 full speed.
- This system can support USB devices of up to 32 GB.
- Only FAT 12/16/32 file system is supported.

Note on MP3 file

- Files are defined as tracks and folders are defined as albums.
- Tracks must have the extension ".mp3" or ".MP3".
- Tracks will not necessarily be played in the order you recorded them.
- Some files can fail to work because of the sector size.

MP3 file on disc

- This system can access up to:
 - 255 albums (including root folder)
 - 999 tracks
 - 20 sessions
- Disc must conform to ISO9660 level 1 or 2 (except for extended formats).

MP3 file on USB device

- This system can access up to:
 - 800 albums (including root folder)
 - 8000 tracks
 - 999 tracks in one album

Radio

Preparation

For Australia and New Zealand

Press [RADIO] to select "FM" or "AM".

For Asia

Press [RADIO] to select "FM".

Manual tuning

- 1 Press [PLAY MENU] repeatedly to select "TUNE MODE".
- 2 Press [▲, ▼] to select "MANUAL" and then press [OK].
- 3 Press [◀◀/◀◀] or [▶▶/▶▶] to tune in to the station.
To tune automatically, press and hold the button until the frequency starts changing quickly.
"STEREO" is shown when a stereo broadcast is being received.

Memory presetting

You can preset up to 30 FM stations.

For Australia and New Zealand

You can preset up to 15 AM stations.

Automatic presetting

- 1 Press [PLAY MENU] to select "A.PRESET".
- 2 Press [▲, ▼] to select "LOWEST" or "CURRENT" and then press [OK].
The tuner presets all the stations it can receive into the channels in ascending order.
To cancel, press [■].

LOWEST	Tuning begins from the lowest frequency.
CURRENT	Tuning begins from the current frequency.

Manual presetting

- 1 Press [PLAY MENU] repeatedly to select "TUNE MODE".
- 2 Press [▲, ▼] to select "MANUAL" and then press [OK].
- 3 Press [◀◀/◀◀] or [▶▶/▶▶] to tune in to the station.
- 4 Press [OK].
- 5 Press [▲, ▼] to select a preset number and then press [OK].
Repeat steps 3 to 5 to preset more stations.
The new station replaces any station that occupies the same preset number.

Clock and timers

- 1 Press [PLAY MENU] repeatedly to select "TUNE MODE".
- 2 Press [▲, ▼] to select "PRESET" and then press [OK].
- 3 Press [◀◀/▶▶] or [▶▶/▶▶] to select the preset station.

Improving the sound quality

When “FM” is selected

- 1 Press **[PLAY MENU]** repeatedly to select **"FM MODE"**.
- 2 Press **[▲, ▼]** to select **"MONO"** and then press **[OK]**.
To cancel, select **"STEREO"**.
"MONO" is also cancelled when you change the frequency.

This is a 24-hour clock.

Press [SETUP] repeatedly to select "CLOCK" and then press [OK].

Note:
Reset the clock regularly to maintain accuracy.

The sleep timer switches off the system after the set time.

- 1 Press [SETUP] repeatedly to select "SLEEP".
- 2 Press [▲, ▼] to select the setting (in minutes) and then press [OK].
To cancel, select "OFF"

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

- 1** Press [SETUP] repeatedly to select "TIMER ADJ".
- 2** Press [▲, ▼] to set the start time and then press [OK].
- 3** Repeat step 2 to set the end time.
- 4** Press [▲, ▼] to select the music source you want to play and then press [OK].

- 1 Press [SETUP] repeatedly to select "TIMER SET".
- 2 Press [▲, ▼] to select "SET" and then press [OK].
"⌚" is shown.
To cancel, select "OFF".
The system must be switched off for the timer to operate.

For Australia and New Zealand

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

2 Press and hold [■] on the main unit.

After a few seconds, the display panel shows the current minimum radio frequency. Release the button when the minimum frequency changes.

- To go back to the initial setting, do the above steps again.
- Preset frequencies are erased after you change the setting.

To check the time

"MONO" is also cancelled when you change the frequency.

Continue with step 4 of "Manual presetting". (⇒ 8)

To check the setting

Press [SETUP] repeatedly to select "TIMER ADJ" and then press [OK].

In standby mode, press [DISPLAY] two times.

Note:

- The timer starts at a low volume and increases gradually to the preset level.
- The timer comes on at the set time every day if the timer is on.
- If you switch off the system and then switch on again while a timer is in operation, the timer will not stop at the end time.
- "CD", "USB", "FM" and "AM" can be set as the music source.

Sound effects

- 1 Press [SOUND] repeatedly to select the sound effect.
- 2 Press [▲, ▼] to select the setting and then press [OK].

MY SOUND	"SOUND 1", "SOUND 2" or "SOUND 3" (⇒ below)
PRESET EQ	"HEAVY", "SOFT", "CLEAR", "VOCAL" or "FLAT"
BASS	-4 to +4
TREBLE	-4 to +4
D.BASS	"ON D.BASS" or "OFF D.BASS"
SURROUND	"ON SURROUND" or "OFF SURROUND"

Note:

Changed settings will be kept until it is changed again, unless otherwise indicated.

Saving the sound settings

You can save the current sound effects (up to 3 combinations).

Preparation

Select the sound effects.

- 1 Press [SETUP] to select "SAVE MY SOUND".
- 2 Press [▲, ▼] to select a sound setting number and then press [OK].
"SAVED" is shown.
The new setting replaces the one existing in the same sound setting number.

To recall the setting

- 1 Press [SOUND] to select "MY SOUND".
- 2 Press [▲, ▼] to select the sound setting number and then press [OK].

Others

Auto off

This system automatically switches off when you do not use it for approximately 20 minutes.

- 1 Press [SETUP] repeatedly to select "AUTO OFF".
- 2 Press [▲, ▼] to select "ON" and then press [OK].
To cancel, select "OFF".

Note:

This function does not work when you are in radio source or when a Bluetooth® device is connected.

Bluetooth® standby

This function automatically switches on the system when you establish a Bluetooth® connection from a paired device.

- 1 Press [SETUP] repeatedly to select "BLUETOOTH STANDBY".
- 2 Press [▲, ▼] to select "ON" and then press [OK].
To cancel, select "OFF".

Software update

Occasionally, Panasonic may release updated software for this unit that may add or improve the way a feature operates. These updates are available free of charge. For more details, refer to the following website.

<http://panasonic.jp/support/global/cs/>
(This site is in English only.)

Checking the software version

- 1 Press [SETUP] repeatedly to select "SW VER." and then press [OK].
The software version is shown.
- 2 Press [OK] again to exit.

Troubleshooting

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

Common problems

The unit cannot be switched on.

- Connect the AC mains lead and wait for a minimum of 10 seconds before switching on the unit.

The unit does not work.

- The safety device has been activated. Do the following:
 1. Press [⏻/⏮] on the main unit to switch the unit to standby mode. If the unit does not switch to standby mode, disconnect the AC mains lead and connect it again.
 2. Press [⏻/⏮] again to switch on the unit. If the problem persists, consult your dealer.

No operations can be done with the remote control.

- Examine that the battery is installed correctly.

Sound is distorted or no sound.

- Adjust the volume of the system.
- Switch off the system, determine and correct the cause, and then switch on again. It can be caused by straining of the speakers through excessive volume or power, and when using the system in a hot environment.

A humming sound can be heard during playback.

- An AC mains lead or fluorescent light is near the cables. Keep other appliances and cords away from the cables of this system.

Noise is heard.

- Depending on the device, noise may be heard if the device is connected to the USB port at the same time. Disconnect the cable from the USB port.

Disc

Display not shown correctly.

Playback does not start.

- You have not put in the disc correctly. Put it in correctly.
- Disc is dirty. Clean the disc.
- Replace the disc if it is scratched, warped, or non-standard.
- There is condensation. Let the system dry for 1 to 2 hours.

The total number of tracks displayed is incorrect.

The disc cannot be read.

Distorted sound is heard.

- You put in a disc that the system cannot play. Change to a playable disc.
- You put in a disc that has not been finalised.

USB

No response when you press [▶/III].

- Disconnect the USB device and then connect it again. Alternatively, switch the unit off and on again.

The USB device or the contents in it cannot be read.

- The format of the USB device or the contents in it are not compatible with the system.
- USB devices with storage capacity of more than 32 GB cannot work in some conditions.

Slow operation of the USB device.

- Large content size or large memory USB device takes longer time to read.

The elapsed time shown is different from the actual play time.

- Transfer the data to another USB device or backup the data and reformat the USB device.

Bluetooth®

Pairing cannot be done.

- Check the Bluetooth® device condition.
- The device is out of the 10 m communication range. Move the device nearer to the system.

The device cannot be connected.

- The pairing of the device was unsuccessful. Do pairing again.
- The pairing of the device has been replaced. Do pairing again.
- This system might be connected to a different device. Disconnect the other device and try connecting the device again.
- The system may have a problem. Switch off the system and then switch on again.
- If "MODE 2" is selected in "LINK MODE", select "MODE 1". (⇒ 7)

The device is connected but audio cannot be heard through the system.

- For some built-in Bluetooth® devices, you have to set the audio output to "SC-HC200" manually. Read the operating instructions of the device for details.

Sound from the device is interrupted.

- The device is out of the 10 m communication range. Move the device nearer to the system.
- Remove any obstacle between the system and the device.
- Other devices that use the 2.4 GHz frequency band (wireless router, microwaves, cordless phones, etc.) are interfering. Move the device nearer to the system and distance it from the other devices.
- Select "MODE 1" for stable communication. (⇒ 7)

Radio

Sound is distorted or static is heard.

- Check that the antenna(s) is properly connected. (⇒ 4)
- Adjust the position of the antenna.
- Keep a certain amount of distance between the antenna and the AC mains lead.
- Use an outdoor antenna if there are buildings or mountains nearby.
- Switch off the TV or other audio players or separate it from the system.
- Keep the system away from mobile phones if there is interference.

If there is excessive noise during FM reception.

- Change the audio output to monaural. (⇒ 9)

A low hum is heard during AM broadcasts.

- Move the antenna away from other cables and cords.

AM stations cannot be selected.

- Change the AM frequency step. (⇒ 9)

Main unit displays

"---"

- You connected the AC mains lead for the first time or there was a power failure recently. Set the clock.

"ADJUST CLOCK"

- The clock is not set. Adjust the clock.

"ADJUST TIMER"

- The play timer is not set. Adjust the play timer.

"AUTO OFF"

- The system has not been used for 20 minutes and will switch off within a minute. To cancel, press any button.

"ERROR"

- An incorrect operation was done. Read the instructions and try again.

"F61"

"F77"

- Disconnect the AC mains lead and consult your dealer.

"F703"

- Examine the Bluetooth® connection.
- Disconnect the Bluetooth® device. Switch off the system and then switch on again.

"F76"

- There is a problem with the power supply.
- Disconnect the AC mains lead and consult your dealer.

"ILLEGAL OPEN"

- The sliding door is not in a correct position. Switch off the system and then switch on again.

"NO DEVICE"

- The USB device is not connected. Examine the connection.

"NO DISC"

- You have not put in a disc.

"NO PLAY"

- Examine the content. You can only play supported format.
- The files in the USB device may be corrupted. Format the USB device and try again.
- The system may have a problem. Switch off the system and then switch on again.

"PLAYERERROR"

- You played an unsupported MP3 file. The system will skip that track and play the next one.

"LINKING"

- This system is trying to connect to the last connected Bluetooth® device when "BLUETOOTH" is selected.

"READING"

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

"REMOTE 1"

"REMOTE 2"

- The remote control and the main unit are using different codes. Change the code of the remote control.
 - When "REMOTE 1" is shown, press and hold [OK] and [⏏] for a minimum of 4 seconds.
 - When "REMOTE 2" is shown, press and hold [OK] and [USB/CD] for a minimum of 4 seconds.

"SOUND 1 NOT SET"

"SOUND 2 NOT SET"

"SOUND 3 NOT SET"

- You have not saved the sound effects into the sound setting number.

"USB OVER CURRENT ERROR"

- The USB device is using too much power. Disconnect the USB device, switch off the system and then switch on again.
- Check the connection, it may be caused by a faulty USB cable.

"VBR"

- The system cannot show the remaining play time for variable bit rate (VBR) tracks.

"NOT SUPPORTED"

- You have connected an unsupported USB device.

Remote control code

When other Panasonic equipment responds to the remote control of this system, change the remote control code for this system.

Preparation

Press [USB/CD] to select "CD".

To set the code to "REMOTE 2"

- 1 Press and hold [■] on the main unit and [USB/CD] on the remote control.
"REMOTE 2" is shown.
- 2 Press and hold [OK] and [USB/CD] for a minimum of 4 seconds.

To set the code to "REMOTE 1"

- 1 Press and hold [■] on the main unit and [⏏] on the remote control.
"REMOTE 1" is shown.
- 2 Press and hold [OK] and [⏏] for a minimum of 4 seconds.

System memory reset

Reset the memory when the following situations occur:

- There is no response when buttons are pressed.
- You want to clear and reset the memory contents.

- 1 Disconnect the AC mains lead.
- 2 While you press and hold [⏏] on the main unit, connect the AC mains lead again.
Continue to press and hold the button until "-----" is shown.
- 3 Release [⏏].
All the settings are set back to the factory preset. It is necessary to set the memory items again.

Maintenance

Disconnect the AC mains lead before maintenance.
Clean this system with a soft, dry cloth.

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

Specifications

General

Power supply	
For Australia and New Zealand	AC 220 V to 240 V, 50 Hz
For Asia	AC 110 V to 240 V, 50/60 Hz
Power consumption	14 W
Power consumption in standby mode^{※1} (approximate)	
With "BLUETOOTH STANDBY" set to "OFF"	0.2 W
With "BLUETOOTH STANDBY" set to "ON"	0.3 W

Dimensions (W x H x D)	400 mm x 197 mm x 107 mm
Mass	1.9 kg
Operating temperature range	0°C to +40°C
Operating humidity range	35% to 80% RH (no condensation)

Amplifier section

RMS output power stereo mode	
Front Ch (both ch driven)	10 W per channel (8 Ω, 1 kHz, 10% THD)
Total RMS power	20 W
PMPO output power	200 W

Tuner, terminals section

Preset memory	FM 30 stations
For Australia and New Zealand	AM 15 stations
Frequency modulation (FM)	
Frequency range	87.50 MHz to 108.00 MHz (50 kHz step)
Antenna terminals	75 Ω (unbalanced)

For Australia and New Zealand

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})
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Pick up	
Wavelength	790 nm (CD)

USB section

USB port power	DC OUT 5 V 500 mA
USB standard	USB 2.0 full speed
Media file format support	MP3 (*.mp3)
Audio support format	MP3 ^{※2}
Sampling frequency	32 kHz, 44.1 kHz, 48 kHz
Audio word size	16 bits
Channel count	2 ch
USB device file system	FAT12, FAT16, FAT32

Bluetooth® section

Version	Bluetooth® Ver. 2.1 + EDR
Class	Class 2
Supported profiles	A2DP, AVRCP
Frequency band	2.4 GHz band FH-SS
Operation distance	10 m line of sight
Supported codec	SBC

Speaker section

Speaker unit(s)	
Full range	8 cm cone type x 2

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

^{※1} No device is connected to the USB port before switching to standby mode.

^{※2} MPEG-1 Layer 3, MPEG-2 Layer 3

References

About Bluetooth®

Panasonic cannot be held responsible for data and/or information that is compromised during a wireless transmission.

Frequency band

- This system uses the 2.4 GHz frequency band.

Certification

- This system conforms to the frequency restrictions and has received certification based on frequency laws. Thus, a wireless permit is not necessary.
- The actions below are punishable by law in some countries:
 - Taking apart or modifying the unit.
 - Removing specification indications.

Restrictions of use

- Wireless transmission and/or usage with all Bluetooth® equipped devices is not guaranteed.
- All devices must conform to standards set by the Bluetooth SIG, Inc.
- Depending on the specifications and settings of a device, it can fail to connect or some operations can be different.
- This system supports Bluetooth® security features. But depending on the operating environment and/or settings, this security is possibly not sufficient. Transmit data wirelessly to this system with caution.
- This system cannot transmit data to a Bluetooth® device.

Range of use

- Use this device at a maximum range of 10 m.
- The range can decrease depending on the environment, obstacles or interference.

Interference from other devices

- This system may not function properly and troubles such as noise and sound jumps may arise due to radio wave interference if this unit is located too close to other Bluetooth® devices or the devices that use the 2.4 GHz band.
- This system may not function properly if radio waves from a nearby broadcasting station, etc. is too strong.

Intended usage

- This system is for normal, general use only.
- Do not use this system near an equipment or in an environment that is sensitive to radio frequency interference (example: airports, hospitals, laboratories, etc.).

License

The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by Panasonic Corporation is under license. Other trademarks and trade names are those of their respective owners.

Limited Warranty (For Australia only)

Panasonic Warranty

1. 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 have a manufacturing defect within one (1) year or (12 months) (the "warranty period") from the date of purchase appearing on your purchase receipt.
2. This warranty only applies to Panasonic products purchased in Australia and sold by Panasonic Australia, its Authorised Distributors, or Dealers, and only where the products are used and serviced within Australia or its territories. Warranty cover only applies to the services that are carried out by a Panasonic Authorised Service Centre and only if valid proof of purchase is presented when the warranty service is requested.
3. This warranty only applies if the product has been installed and/or 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 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), 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) Consumable parts
 - (b) Cosmetic parts
 - (c) Worn or damaged parts
 - (d) Information stored on Hard Disk Drives, Optical Discs, USB Devices, SD Cards, Tapes
 - (e) 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) 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:
 - Contact Panasonic's Customer Care Centre on 132 600 for Service Centre information.
 - Confirm the opening and acceptance times with the Authorised Service Centre that you choose.
 - Then send or take the product to a Panasonic Authorised Service Centre together with your proof of purchase receipt.
 - Any freight and insurance costs associated with the transport of the product to and/or from your nearest Authorised Service Centre must be arranged and paid for by you.
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 132 600 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

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