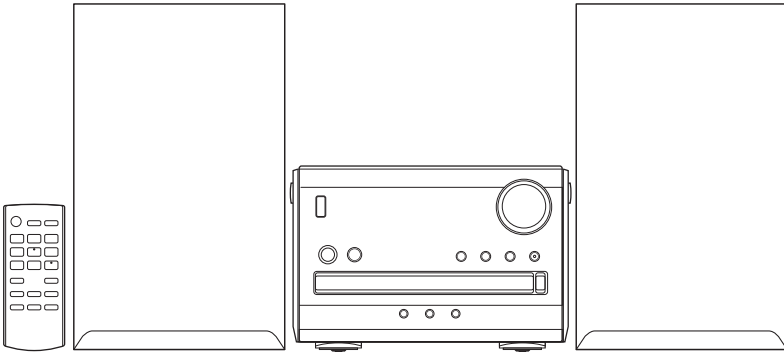# Panasonic®

Owner's Manual

CD Stereo System

Model No. **SC-PM270**

Thank you for purchasing this product.

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

Please keep this manual for future reference.

If you have any questions, visit:
U.S.A.: https://shop.panasonic.com/support
Canada: www.panasonic.ca/english/support
Register online at https://shop.panasonic.com/support (U.S. customers only)

Your system and the illustrations can look differently.
These operating instructions are applicable to the following system.

System	SC-PM270
Main unit	SA-PM270
Speakers	SB-PM02

The model number and serial number of this product can be found on either the back or the bottom of the unit. Please note them in the space provided below and keep for future reference.

MODEL NUMBER   SC-PM270

SERIAL NUMBER

User memo:

DATE OF PURCHASE	
DEALER NAME	
DEALER ADDRESS	
TELEPHONE NUMBER	

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

$\sim$	AC
$==$	DC
▣	Class II equipment (The construction of the product is double-insulated.)
│	ON
⏻	Standby

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE SCREWS.
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT SAFETY INSTRUCTIONS

Read these operating instructions carefully before using the unit. Follow the safety instructions on the unit and the applicable safety instructions listed below. Keep these operating instructions handy for future reference.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

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.

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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.
- Set the unit up on an even surface away from direct sunlight, high temperatures, high humidity, and excessive vibration.
- 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 power supply cord

- The power plug is the disconnecting device. Install this unit so that the power 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.
- Avoid the use in the following conditions
  - High or low extreme temperatures during use, storage or transportation.
  - Replacement of a battery with an incorrect type.
  - Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.
  - Extremely high temperature and/or extremely low air pressure that can result in an explosion or the leakage of flammable liquid or gas.

THE FOLLOWING APPLIES ONLY IN THE U.S.A. AND CANADA

This device complies with Part 15 of FCC Rules and Innovation, Science and Economic Development Canada's licence-exempt RSS(s).
Operation is subject to the following two conditions:
(1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation.

      Contains FCC ID: ACJ-B42R1801
      Contains IC: 216A-B42R1801

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment complies with FCC/ISED radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the ISED radio frequency (RF) Exposure rules. This equipment should be installed and operated keeping the radiator at least 20 cm (7⅞") or more away from person's body.

THE FOLLOWING APPLIES ONLY IN THE U.S.A.

FCC Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.

FCC Caution:

Any unauthorized changes or modifications to this equipment would void the user's authority to operate this device.

Supplier's Declaration of Conformity
Trade Name: Panasonic
Model No.: SC-PM270
Responsible Party: Panasonic Corporation of North America
　　　　　　　　　　　Two Riverfront Plaza, Newark,
　　　　　　　　　　　NJ 07102-5490

Support Contact: http://shop.panasonic.com/support

THE FOLLOWING APPLIES ONLY IN CANADA

CAN ICES-003(B)/NMB-003(B)

Supplied accessories

Check and identify the supplied accessories.

☐ 1 AC power supply cord
　(K2CB2YY00065)

☐ 1 Ferrite core
　(J0KG00000037)

☐ 1 FM indoor antenna
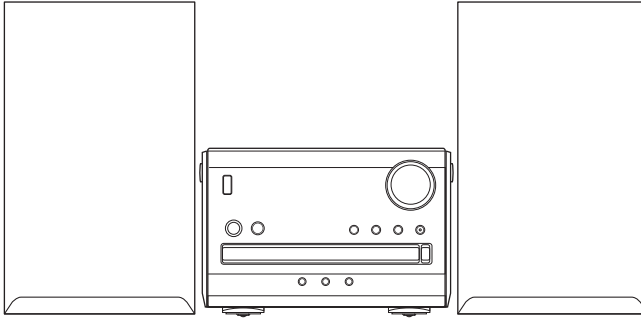　(RSAX0002)

☐ 1 Remote control
　(N2QAYB000984)

Note:
• Product numbers correct as of September 2023. These may be subject to change.
• The included Canadian French label sheet corresponds to the English printing on the main unit and remote control.

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Table of contents

Placement of speakers

The left and right speakers are the same.

Use only the supplied speakers.
You can cause damage to the system and decrease the sound quality if you use other speakers.

Note:
- Keep your speakers at least 10 mm ($^{13}\!/_{32}$") away from the system for proper ventilation.
- Put the speakers on a flat safe surface.
- These speakers do not have magnetic shielding. Do not put them near TVs, PCs or other equipment easily influenced by magnetism.
- When you play at high levels for a long period, it can cause damage to the speakers and decrease the life of the speakers.
- Decrease the volume in these conditions to prevent damage:
  – When the sound is distorted.
  – When you adjust the sound quality.

CAUTION!
- **Use the speakers only with the recommended system. If not, you can cause damage to the amplifier and speakers and can cause a fire. Consult an approved service personnel if damage occurs or if there is a sudden apparent change in performance.**
- **Do not modify the speaker or speaker wires as this can cause damage to the system.**

Preparing the remote control

R6/LR6, AA
(Not supplied)
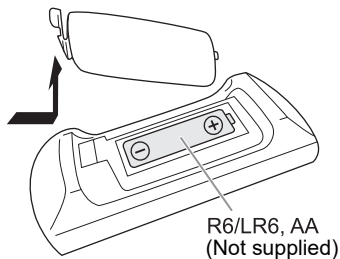
Use alkaline or manganese battery.

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

Making the connections

Connect the AC power supply cord only after all the other connections have been made.
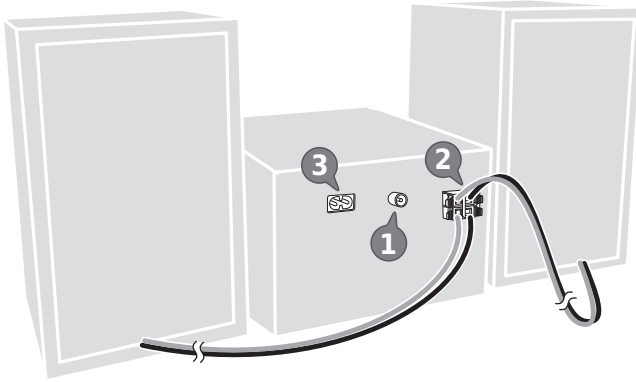
1 **Connect the FM indoor antenna.**
   Put the antenna where reception is best.

FM ANT
75Ω

Adhesive tape
(not supplied)
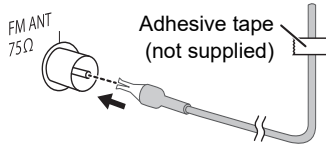
2 **Connect the speakers.**
   Connect the speaker cables to the corresponding terminals.

L   (6Ω)
R   (6Ω)

Red

Black
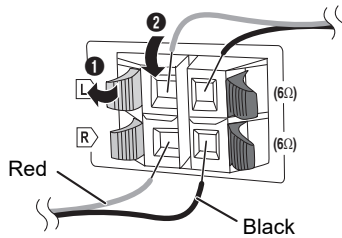
Be careful not to cross (short-circuit)
or reverse the polarity of the speaker
wires as doing so may damage the
speakers.
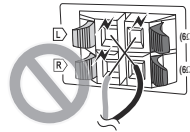
3 **Connect the AC power supply cord.**

Do not use an AC power supply cord from other equipment.

5 cm

To household
AC outlet
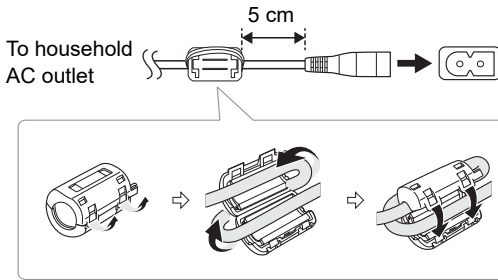
Attaching the ferrite core near to the terminal

① Pull on the tabs (both sides) to open.

② Put the AC power supply cord onto one of the concave surfaces.

③ Coil the AC power supply cord around the ferrite core and onto the other concave surface.

④ Close the ferrite core until it clicks.

Note:
Failure to attach the ferrite core to the AC power supply cord may cause interference to other devices nearby.

Conserving power

The system consumes a small amount of power 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:
Keep the antennas away from the speaker cables and the AC power supply cord to avoid picking up noise.

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.
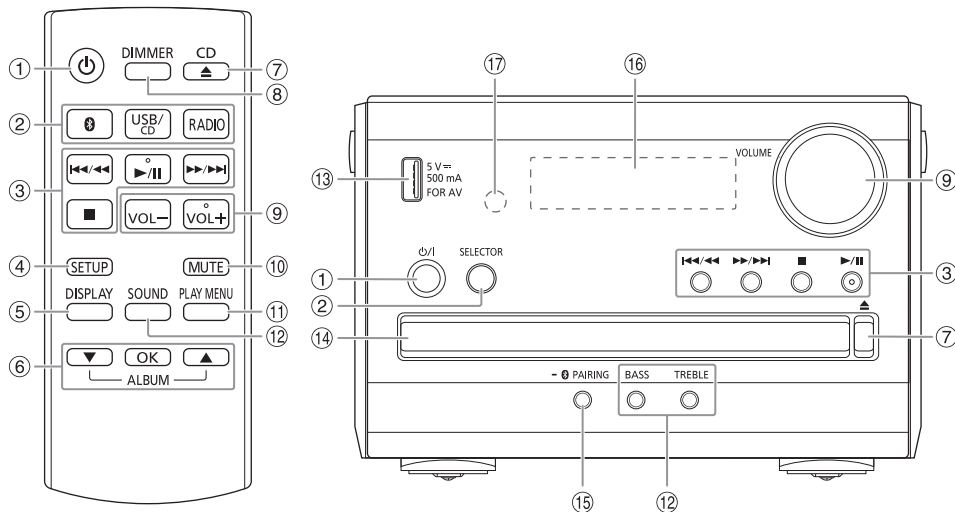
① **Standby/on switch [⏻], [⏻/I]**
Press to turn the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

② **Select the audio source**
On the main unit:

CD → BLUETOOTH → USB → FM

③ Basic playback control

④ View the setup menu

⑤ View the content information

⑥ Select or confirm the option
Skip MP3 albums

⑦ Open or close the disc tray

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 canceled when you adjust the volume or when you turn off the system.

⑪ View the play menu

⑫ Select the sound effects

⑬ USB port (DC 5 V ⎓ 500 mA, FOR AV)

⑭ Disc tray

⑮ **Select "BLUETOOTH" as the audio source**
To start Bluetooth® pairing, press and hold the button.

⑯ Display panel

⑰ **Remote control sensor**
Distance: Within approximately 7 m (23 ft)
Angle: Approximately 10° up and 30° down, 30° left and right

Preparing media

Disc

1 Press [CD ▲] (main unit: [▲]) to open the disc tray.
Put in a disc with the label facing up.

Press again to close the disc tray.

2 Press [USB/CD] (main unit: [SELECTOR]) repeatedly to select "CD".

USB

Preparation
Before you connect a USB device to the system, make sure you do a backup of the data.

1 Decrease the volume and connect the USB device to the USB port.
Hold the main unit when connecting or disconnecting the USB device.

2 Press [USB/CD] (main unit: [SELECTOR]) repeatedly to select "USB".

Note:
Do not use a USB extension cable. The system cannot recognize USB device connected through a cable.

Bluetooth®

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

Preparation
• Turn on the main unit.
• Turn 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 (⇨ 13).

1 Press [ⓑ].
If "PAIRING" is shown, continue with step 4.

2 Press [PLAY MENU] to select "PAIRING".
Or press and hold [– ⓑ PAIRING] on the main unit until "PAIRING" is shown. Continue with step 4.

3 Press [▲, ▼] to select "OK? YES" and then press [OK].
"PAIRING" is shown.
To cancel, select "OK? NO".

4 Select "SC-PM270" 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 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.

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■ Connecting a device

Preparation
If this system is connected to a Bluetooth® device, disconnect it (⇨ 13).

1 Press [🅑].
"BLUETOOTH READY" is shown.

2 Select "SC-PM270" 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.)

■ Disconnecting a device

While a Bluetooth® device is connected

1 Press [PLAY MENU] repeatedly to select "DISCONNECT?".

2 Press [▲, ▼] to select "OK? YES" and then press [OK].
"BLUETOOTH READY" is shown.
To cancel, select "OK? NO".

Using the main unit
Press and hold [– 🅑 PAIRING] until "PAIRING" is shown.

Note:
A device is disconnected when you:
– Select a different source.
– Move the device out of the maximum range.
– Disable the Bluetooth® transmission of the device.
– Turn off the system or the device.

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

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.
Example: MP3 album and track number display.

Album number   Track number
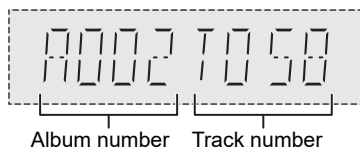
Note:
• Maximum characters that can be shown: Approximately 32
• This system supports ver. 1.0, 1.1 and 2.3 ID3 tags.
• Text data that the system does not support can show differently.

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 1TR	Play one selected track. Press [I◄◄/◄◄] or [►►/►►I] to select the track.
1-ALBUM 1ALBUM	Play one selected MP3 album. Press [▲, ▼] to select the MP3 album.
RANDOM RND	Play all tracks randomly.
1-ALBUM RANDOM 1ALBUM RND	Play all tracks in one selected MP3 album randomly. Press [▲, ▼] to select the MP3 album.
REPEAT	
ON REPEAT ↻	Repeat playback.
OFF REPEAT	Cancel the setting.

Note:
- During random playback, you cannot skip to tracks which have been played.
- The setting is canceled when you open the disc tray or disconnect the USB device.

Link mode

`BLUETOOTH`

You can change the link mode to suit the connection type.

Preparation
If this system is connected to a Bluetooth® device, disconnect it (⇨ 13).

1 Press [PLAY MENU] repeatedly to select "LINK MODE".

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

MODE 1	Emphasis on connectivity.
MODE 2 (default)	Emphasis on sound quality.

Note:
- Depending on the device, the playback image and sound may not be synchronized. In this case, select "MODE 1".
- Select "MODE 1" if the sound is interrupted.

Input level

BLUETOOTH

You can change the input level setting if the sound input level of the Bluetooth® transmission is too low.

1 Press [PLAY MENU] repeatedly to select "INPUT LEVEL".

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

LEVEL 0 ↔ LEVEL +1 ↔ LEVEL +2
(default)

Note:
Select "LEVEL 0" if the sound is interrupted.

Note on disc
- This system can play CD-R/RW with CD-DA or MP3 format content.
- Before playback, finalize the disc on the device it was recorded on.
- Some CD-R/RW cannot be played because of the condition of the recording.
- This system does not guarantee play of all types of discs.

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.
- This system does not guarantee play of all MP3s.

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

FM Radio

Preparation
Press [RADIO] (main unit: [SELECTOR]) repeatedly to select "FM".

Manual tuning

1 **Press [PLAY MENU] repeatedly to select "TUNEMODE".**

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

3 **Press [I◄◄/◄◄] or [►►/►►I] 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.

Automatic presetting

1 **Press [PLAY MENU] to select "A.PRESET".**

2 **Press [▲, ▼] to select "LOWEST" or "CURRENT" and then press [OK].**

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

The tuner presets all the stations it can receive into the channels in ascending order.
To cancel, press [■].

Manual presetting

1 **Press [PLAY MENU] repeatedly to select "TUNEMODE".**

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

3 **Press [I◄◄/◄◄] or [►►/►►I] to tune in to the station.**

4 **Press [OK].**

5 **Press [▲, ▼] to select a preset number and then press [OK].**
Do steps 3 through 5 again to preset more stations.
The new station replaces any station that occupies the same preset number.

Selecting a preset station

1 **Press [PLAY MENU] repeatedly to select "TUNEMODE".**

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

3 **Press [I◄◄/◄◄] or [►►/►►I] to select the preset station.**

Improving the sound quality

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 canceled when you change the frequency.
To memorize the setting
Continue with step 4 of "Manual presetting" (⇨ 17).

Checking the signal status

Press [DISPLAY].

FM – – – –	The FM signal is weak. The system is not tuned in to a station.
FM ST	The FM signal is in stereo.
FM MONO	"MONO" is selected as the "FM MODE". The FM signal is in monaural.

FM allocation setting

This system can also receive FM broadcasts allocated in 0.1 MHz steps.

1 **Press [RADIO].**

2 **Press and hold [SELECTOR] 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.

Sound effects

1 **Press [SOUND] repeatedly to select the sound effect.**

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

PRESET EQ	"HEAVY" (default), "SOFT", "CLEAR", "VOCAL" or "FLAT"
BASS	–4 to +4 (default: 0) *Using the main unit* 1. Press [BASS]. 2. Press [I◄◄/◄◄] or [►►/►►I].
TREBLE	–4 to +4 (default: 0) *Using the main unit* 1. Press [TREBLE]. 2. Press [I◄◄/◄◄] or [►►/►►I].
D.BASS	"ON D.BASS" (default) or "OFF D.BASS"
SURROUND	"ON SURROUND" or "OFF SURROUND" (default)

Clock and timers

Setting the clock

This is a 12-hour clock.

1 **Press [SETUP] repeatedly to select "CLOCK".**

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

To check the time

Press [SETUP] repeatedly to select "CLOCK" and then press [OK].
In standby mode, press [DISPLAY].

Note:
Reset the clock regularly to maintain accuracy.

Play timer

(Except for Bluetooth® source)

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

Preparation
Set the clock.

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

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

3 **Do step 2 again to set the end time.**

4 **Press [▲, ▼] to select the source you want to play and then press [OK].**

To start the timer

1 **Prepare the source you want to listen to (disc, USB or radio) and set the volume.**

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

3 **Press [▲, ▼] to select "SET" and then press [OK].**
"⏱" is shown.
To cancel, select "OFF".
The system must be turned off for the timer to operate.

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 turn off the system and then turn on again while a timer is in operation, the timer will not stop at the end time.

Sleep timer

The sleep timer turns 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".

SLEEP 30 ↔ SLEEP 60 ↔ SLEEP 90 ↔ SLEEP 120
└─────────────→ OFF ←─────────────┘

Note:
• The remaining time is always shown on the display. The display changes temporarily when you perform other operations.
• The sleep timer always comes first. Be sure not to set an overlap of timers.

Others

Auto off

This system automatically turns 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 turns 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".

Note:
Some devices may take longer to respond. If you are connected to a Bluetooth® device before turning off the system, wait for a minimum of 5 seconds before connecting to this system from your Bluetooth® device again.

Software updates

Occasionally, Panasonic may release updated software for this system 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.
https://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.

20 **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 does not work.
- The safety device has been activated. Do the following:
  1. Press [⏻/I] on the main unit to turn the unit to standby mode. If the unit does not turn to standby mode, disconnect the AC power supply cord and connect it again.
  2. Press [⏻/I] again to turn 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.
- Turn off the system, determine and correct the cause, and then turn 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 power supply cord or fluorescent light is near the cables. Keep other appliances and cords away from the cables of this system.

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 shown 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 finalized.

USB

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.
- USB devices may not be recognized when connected to this system with a USB extension cable or USB hub.

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.

Radio

Sound is distorted.
- Use an optional outdoor antenna. The antenna should be installed by a competent technician.

A beat sound is heard.
- Turn off the TV or move it away from the system.
- Move mobile telephones away from the system if the interference is apparent.

▌ Bluetooth®

Pairing cannot be done.
- Check the Bluetooth® device condition.
- The device is out of the 10 m (33 ft) 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. Turn off the system and then turn on again.
- If "MODE 2" is selected in "LINK MODE", select "MODE 1" (⇨ 15).

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-PM270" manually. Read the operating instructions of the device for details.

Sound from the device is interrupted.
- The device is out of the 10 m (33 ft) 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 (⇨ 15).

Playback image and sound are not synchronized.
- Restart the playback app of the device.

▌ Main unit displays

"--:--"
- You connected the AC power supply cord for the first time or there was a power failure recently. Set the clock.
- Track play time is more than 99 minutes.

"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 turn 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 power supply cord and consult your dealer.

"F70"
- Examine the Bluetooth® connection.
- Disconnect the Bluetooth® device. Turn off the system and then turn on again.

"F76"
- There is a problem with the power supply.
- Disconnect the AC power supply cord and consult your dealer.

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

"NO DISC"
- You have not put in a disc.

"NO PLAY"
- There is no album or track in the USB device.
- Examine the content. You can only play supported format.
- The system may have a problem. Turn off the system and then turn on again.

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

"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 [ⓑ] on the remote control for a minimum of 4 seconds.
  – When "REMOTE 2" is shown, press and hold [OK] and [USB/CD] for a minimum of 4 seconds.

"USB OVER CURRENT ERROR"
- The USB device is drawing too much power. Disconnect the USB device, turn off the system and then turn 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.

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 [SELECTOR] on the main unit and [USB/CD] on the remote control until "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 [SELECTOR] on the main unit and [ⓑ] on the remote control until "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 power supply cord.**

2 **While you press and hold [⏻/l] on the main unit, connect the AC power supply cord again.**
Continue to press and hold the button until "– – – – – – – –" is shown.

3 **Release [⏻/l].**
All the settings are set back to the factory preset.
It is necessary to set the memory items again.

Maintenance

Disconnect the AC power supply cord 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	AC 120 V, 60 Hz
Power consumption	14 W
Power consumption in standby mode (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)
  SA-PM270   184 mm × 123 mm × 231 mm (7 $\frac{7}{32}$″ × 4 $\frac{27}{32}$″ × 9 $\frac{3}{32}$″)
  SB-PM02   139 mm × 224 mm × 136 mm (5 $\frac{15}{32}$″ × 8 $\frac{13}{16}$″ × 5 $\frac{3}{8}$″)
Mass
  SA-PM270   1.1 kg (2.4 lbs)
  SB-PM02   1.3 kg (2.9 lbs)
Operating temperature range   0°C to +40°C (+32°F to +104°F)
Operating humidity range   35% to 80% RH (no condensation)

Amplifier section

RMS output power
  Front Ch (both ch driven)   10 W per channel (6 Ω), 1 kHz, 10% THD
  Total RMS power   20 W

Disc section

Disc played [8 cm (3″) or 12 cm (5″)]   CD, CD-R/RW

Pick up
  Wavelength   790 nm (CD)

Format   CD-DA, MP3[*1]
[*1] MPEG-1 Layer 3, MPEG-2 Layer 3

Tuner section

Frequency modulation (FM)
  Preset memory   30 stations
  Frequency range   87.9 MHz to 107.9 MHz (200 kHz step)
                  87.5 MHz to 108.0 MHz (100 kHz step)

Speaker section

Speaker unit(s)
  Full range   10 cm (4″) cone type x 1
Impedance   6 Ω

TQBM0945

Bluetooth® section

Bluetooth® System Specification	Bluetooth® Ver. 4.2
Wireless Equipment Classification	Class 2 (2.5 mW)
Supported profiles	A2DP, AVRCP
Supported codec	SBC
Frequency band	2.4 GHz band FH-SS
Operating distance	Approx. 10 m (33 ft) Line of sight*[2]

*[2] Prospective communication distance
   Measurement environment:
   Temperature 25 °C (77 °F)/Height 1.0 m (3.3 ft)
   Measure in "MODE 1"

Terminals section

USB   Front, USB Type-A connector
   File system   FAT12, FAT16, FAT32
   USB port power   DC OUT 5 V, 500 mA (MAX)

Format Section

USB
   USB standard   USB 2.0 full-speed
   USB mass storage class
   Format support   MP3 (32 kHz, 44.1 kHz, 48 kHz /16 kbps - 320 kbps)

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

References

About Bluetooth®

Panasonic cannot be held responsible for data and/or information that can possibly be 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 main 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 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 (33 ft).
• 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.).

Licenses

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