Panasonic®

Operating Instructions
Wireless Speaker System

Model No. SC-NA30
SC-NA10

SC-NA30   **SC-NA10**

aptX®
LOW LATENCY
CSR

Bluetooth®
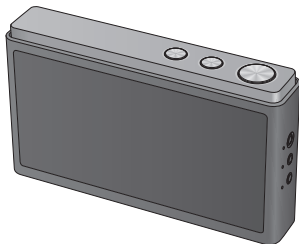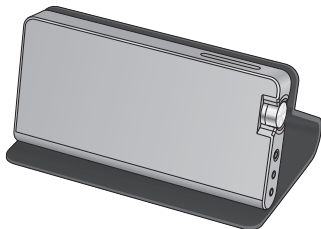
Thank you for purchasing this product.
Please read these instructions carefully before using this product,
and save this manual for future use.

Model number suffix "EB" denotes UK model.

EB EG GN GS   VQT5C51

Caution for AC Mains Lead

(For the AC mains plug of three pins)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience. A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark ◈ or the BSI mark ▽ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

Before use
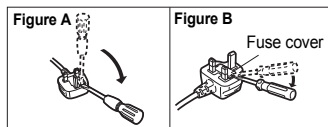
Remove the connector cover.

How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A	Figure B
	Fuse cover

2. Replace the fuse and close or attach the fuse cover.

Figure A	Figure B
Fuse (5 ampere)	Fuse (5 ampere)
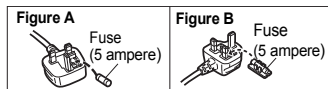
Safety precautions

■ 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 the cover except disassembling for discarding.
• Do not repair this unit by yourself. Refer servicing to qualified service personnel.

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.

■ CAUTION

Unit

• Product identification marking is located on the bottom of the unit.
• Do not throw.
• Do not hit this unit to anything. Do not apply strong pressure to this unit. External case may break when strong impact is applied, causing to damage or malfunction.
• Do not leave the unit in a car exposed to direct sunlight for a long period of time with doors and windows closed.
• 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.
• Keep the volume knob out of reach of children to prevent swallowing.
• Do not keep this unit and magnetized cards (bank cards, commuter passes, etc.) close together.

AC adaptor

• The AC adaptor operates on AC between 100 V and 240 V. But obtain a suitable plug adaptor if the plug does not fit the AC mains socket.
• The unit is in the standby condition when the AC adaptor is connected. The primary circuit is always "live" as long as the AC adaptor is connected to an electrical outlet.

Battery pack (Lithium ion battery pack)

This unit has a built-in battery.
The following is the caution for removing the battery when disposing of this unit (⇨ 18, 19).
- Do not heat or expose to flame.
- Do not short circuit.
- Do not disassemble, crush.
- Do not re-use.
- Do not place in microwave ovens.

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

These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries must not be mixed with general household waste.
For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points in accordance with your national legislation.
By disposing of them correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment.
For more information about collection and recycling, please contact your local municipality.
Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

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

CE 1731

VQT5C51

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About Bluetooth®

Panasonic bears no responsibility for data and/or information that is compromised during a wireless transmission.

Frequency band used
This unit uses the 2.4 GHz frequency band.

Certification of this device
• This unit conforms to 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/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 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 unit 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 unit may not function properly if radio waves from a nearby broadcasting station, etc. is too strong.

Intended usage
• This unit 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

• Android and Google Play are trademarks of Google Inc.
• The Bluetooth® word mark and logos are 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.
• aptX® software is copyright CSR plc or its group companies. All rights reserved. The aptX® mark and the aptX logo are trademarks of CSR plc or one of its group companies and may be registered in one or more jurisdictions.

Maintenance

Turn off the power of this unit and wipe with dry soft cloth. Disconnect the AC adaptor when the AC adaptor is used.
• When it get very dirty, wipe off dirt with a cloth immersed in water and wrung strongly, and then wipe with dry soft cloth.
• Solvents such as benzine, thinner, alcohol, oil, detergents, etc., may cause the external case to be altered or the coating may come off, so do not use them.
• Before using chemically treated cloth, read the instructions that came with the cloth carefully.

Table of contents

Accessories

Check the supplied accessories before using this unit.

☐ **1 AC adaptor** (RFEA229E-AH**)**

☐ **AC mains lead**
   1 For the United Kingdom and Ireland (K2CT2YY00097)
   1 For Continental Europe, For Australia and New Zealand
   3 For Asia and the Middle East

☐ **1 Carrying Pouch (SC-NA30 only)**

Note
- Product numbers provided in this Operating Instructions correct as of August 2013. These may be subject to change.
- Do not use AC mains lead with other equipment.

For Asia and the Middle East
- Please use the supplied AC mains lead suitable for the household mains socket. In Saudi Arabia, please use the moulded three pin mains plug.
- AC mains lead with a label is for Thailand. AC mains lead without a label is for areas other than Thailand.
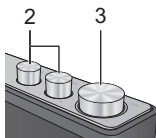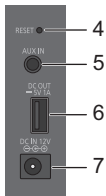
Control reference guide (SC-NA30)

OFF

1
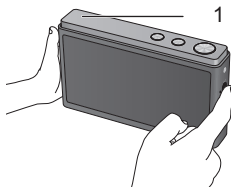
When operating the unit, hold it with hand to prevent it from falling.

ON

2 3

When the unit is turned on, the retractable panel is lowered, enabling you to adjust the knobs.

Rear view

RESET — 4
AUX IN — 5
DC OUT 5V 1A — 6
DC IN 12V — 7

Side view

11
8 — 12
9 — 13
10 — 14
15

1 Retractable panel
2 BASS/TREBLE knob
   • Adjusts low/high-pitched tones
3 Volume knob: Adjusts the volume
   • When the maximum or minimum volume is reached, you will be notified by a beep sound.
4 RESET switch [RESET]
   • Use a paper clip, etc., to press the switch if this unit does not operate correctly, like when you cannot turn off/on the power.
5 AUX IN jack (⇨ 13)
6 DC OUT terminal
   • When using this port, use a USB cable (commercially-available). (⇨ 9)
7 DC IN terminal

8 Battery indicator (red)
9 Bluetooth® indicator (blue)
10 LP Mode indicator (green)
11 NFC touch area (⇨ 11)
12 Standby/on switch [⏻/I]
13 Bluetooth® pairing button (⇨ 10)/ Play button/Pause button/Call button (⇨ 14)
14 LP button [LP]
15 Microphone (⇨ 14)

Control reference guide (SC-NA10)

■ **How to use the cover and operation of the unit**
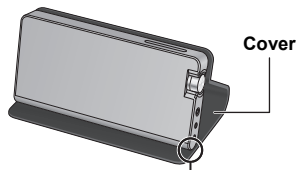
How to use the cover	Operation of the unit
Cover	Ⓐ
Place the unit so that its bottom will fit in the anti-slip groove.	When operating the unit, hold it with hand to prevent it from falling.
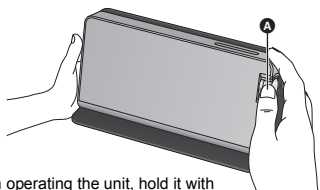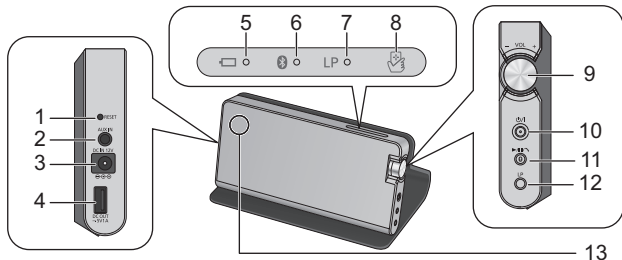
1. RESET switch [RESET]
   • Use a paper clip, etc., to press the switch if this unit does not operate correctly, like when you cannot turn off/on the power.
2. AUX IN jack (⇨ 13)
3. DC IN terminal
4. DC OUT terminal
   • When using this port, use a USB cable (commercially-available). (⇨ 9)
5. Battery indicator (red)
6. Bluetooth® indicator (blue)
7. LP Mode indicator (green)
8. NFC touch area (⇨ 11)

9. Volume knob: Adjusts the volume
   • To operate the knob, place your thumb on the knob as indicated by Ⓐ, and turn it vertically.
   • When the maximum or minimum volume is reached, you will be notified by a beep sound.
10. Standby/on switch [⏻/I]
11. Bluetooth® pairing button (⇨ 10)/ Play button/Pause button/Call button (⇨ 14)
12. LP button [LP]
13. Microphone (⇨ 14)

About the power of this unit

This unit has a built-in battery. Please charge the battery before using this unit for the first time.

■ **Charging the battery**

1 Connect the AC mains lead to the AC adaptor.
  • The AC mains lead must be connected in order of ❶ to ❷. Insert all the way in.

2 While the unit is turned off, connect the AC adaptor to the DC IN terminal.
  • If charging is necessary, the Battery indicator (red) lights. When charging is complete, the Battery indicator goes off.

About the battery status

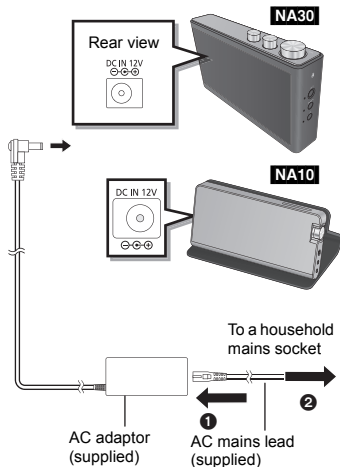| Battery indicator (red) (⇨ 6, 7)	Battery status
Fast blinking (at approximately 1 second intervals)	About 5%*1
Slow blinking (at approximately 2 second intervals)	About 15%*1

*1 These battery statuses of the unit serve only as an approximation, and may vary according to the conditions of use.

Battery life in use/Battery charge time/Rechargeable times

	NA30	NA10
Battery life in use	Approx. 14 hours*2	Approx. 10 hours*2
Battery life in use (LP mode)	Approx. 20 hours*2	Approx. 20 hours*2
Battery Charge time	Approx. 3 hours*3	Approx. 3 hours*3
Rechargeable times	About 500 times	About 500 times

*2 Measured by the test method established by the company [while connecting with Bluetooth®, using at the surrounding temperature of 25 °C]
*3 When charging at the surrounding temperature of 25 °C after the battery is depleted.

■ **Using the unit by connecting it to a household mains socket**

Press [⏻/I] to turn on the unit. Connecting the AC adaptor before turning on the unit allows you to supply power from a household mains socket during use.
• It takes longer to charge while this unit is turned on.

Note
- Do not use any other AC adaptors except the supplied one.
- When this unit is not used over a long period of time, charge the built-in battery at least once every six months to prevent it from deteriorating.
- Charging may not start if the battery level is sufficiently high even if it is not full.
- It is recommended to charge the battery in the temperature of between 10 °C and 35 °C. The Battery indicator (red) may flash and charging may not be possible when it is out of recommended temperature range.
- The battery may not charge when the temperature surrounding the battery is high during the operation or right after the operation even when it is within the recommended temperature range. In such case, stop the usage and let it cool down.
- To ensure safety, in the case of an excessive input signal, the system may be automatically interrupted and power is turned off.
- Use of the DC OUT terminal will reduce the operating time.
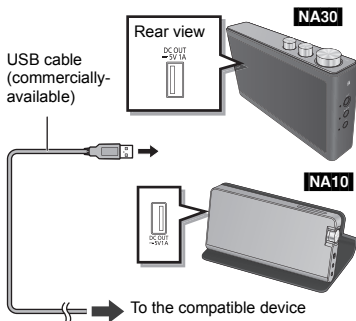
About the DC OUT terminal (USB)

The DC OUT terminal of this unit is for supplying/charging power to a connected device (rated value: 5 V/1 A). Note that the port cannot be used for purposes other than supplying/charging power.
Note that when the unit is turned off, charging is not possible.

Preparation
Turn on the unit.

1   **Using a USB cable (commercially-available), connect the unit and a compatible device.**

2   **Once fully charged, remove the USB cable (commercially-available) from the DC OUT terminal.**

USB cable (commercially-available)

Rear view   NA30

DC OUT 5V 1A

NA10

DC OUT 5V 1A

To the compatible device

Note
- A cable compatible with your device is required. If a cable is supplied with your device, use the cable.
- Even if you connect a cable compatible with the DC OUT terminal of this unit, your device may not be charged. In that case, use a charger supplied with your device.
- Depending on your device, charging methods other than the specified one may not be allowed. Check the operating instructions of your device before use.
- Do not connect a device with a rated value higher than 5 V/1 A to this unit. Doing so may cause malfunction.
- To check if charging is complete, look at the screen of the connected device, etc.
- After charging, pull out the compatible cable.

Listening to audio from a Bluetooth® device

Preparation
Enable the Bluetooth® function of the device you want to connect to, and bring it closer to the unit.
- Use a Bluetooth® device within the approximate range of 10 m from the unit.
- If you intend to use an NFC (Near Field Communication)-compatible Bluetooth® device, proceed to "One-Touch Connection (Connecting by NFC)" (⇨ 11).

Connecting via Bluetooth® menu

■ **Pairing with Bluetooth® device**

1 Press [⏻/I] to turn this unit on.
The Bluetooth® indicator (blue) blinks slowly.
- If this unit is being used for the first time (factory preset state):
  The Bluetooth® indicator (blue) blinks fast. → The unit will enter pairing standby.
  → Skip to step 3.

2 Press and hold [🚲] until the Bluetooth® indicator (blue) blinks fast.
The unit will enter pairing standby.

3 Select "SC-NA30" or "SC-NA10" from the Bluetooth® device's Bluetooth® menu.
When the Bluetooth® device is paired and connected, the Bluetooth® indicator (blue) on the unit lights up.
- If prompted for a passkey, input "0000".
- If the Bluetooth® device need to operate the Bluetooth® pairing setting and the Bluetooth® connecting setting, operate both settings.

4 Start playing back music, a movie, etc. on your Bluetooth® device.
- The volume can be adjusted by rotating the volume knob of the unit.
  When the maximum or minimum volume is reached, you will be notified by a beep sound.

■ **Listening to audio from a paired device**
When this unit is turned on, the Bluetooth® indicator (blue) will blink slowly indicating that the unit is in connection standby mode. Please perform Steps 3 and 4.
- When the power is turned on, this unit is connected to the last-used Bluetooth® device. At this point, please perform Step 4.

One-Touch Connection (Connecting by NFC)

For NFC-compatible Android™ devices only
Just placing an NFC (Near Field Communication)-compatible Bluetooth® device on the unit, you can complete all preparations, from registering a Bluetooth® device to establishing a connection.

Preparation
Enable the NFC function on the Bluetooth® device

1 **Download the app "Panasonic Music Streaming" (free of charge) to your Bluetooth® device from Google Play™.**
   • Enter "Panasonic Music Streaming" in the search box of Google Play™ and search
     → select "Panasonic Music Streaming" to download the app

2 **Start the app "Panasonic Music Streaming" on your Bluetooth® device.**
   • Follow on-screen instructions on your device.
   • Always use the latest version of the app.

3 **Touch and hold your device on the NFC touch area of this unit.**
   (Until a pop-up window on your device indicates that the connection is established.)
   When the unit recognises your device, a beep sound is emitted.
   • When the Bluetooth® device is paired and connected, the Bluetooth® indicator (blue) on the unit lights up. Once the registration and connection of the Bluetooth® device is complete, move the device away from the unit.
   • When the Bluetooth® indicator (blue) does not light up even if you have touched the NFC touch area, change the touching position.

4 **Start playing back music, a movie, etc. on your Bluetooth® device.**

■ **Connecting to another device**
If you touch another device to this unit, you can update the Bluetooth® connection. The previously connected device will be disconnected automatically.

Switching the communication quality

You can change the transmission speed to prioritise sound quality or connectivity.
- The default setting is "Emphasis on sound quality". When the sound is interrupted, select "Emphasis on connectivity".

While pressing and holding [LP], press and hold [🌀] for 4 seconds or more.
Emphasis on connectivity:
A beep sound is emitted once, and the Bluetooth® indicator (blue) and the LP mode indicator (green) flash once.
Emphasis on sound quality:
A beep sound is emitted twice, and the Bluetooth® indicator (blue) and the LP mode indicator (green) flash twice.

Note
- Press [LP], and within 2 seconds, press [🌀]. If [🌀] is pressed after this time limit, the LP mode setting will be changed.

Disconnecting Bluetooth®

- Turn off this unit or the device.
- Stop / disable the Bluetooth® transmission of the device.
- (For NFC-compatible devices only)
  Touch and hold your device to NFC touch area of this unit again.

Note
- This unit can only be connected to one device at a time.
- This unit can register up to 8 devices.
  When the number of registered devices exceeds the maximum limit, a device that has not made a Bluetooth® connection for the longest time will be replaced. This will cancel the registration of the device. To use the device again, re-register it.
- If the unit connected to the AC adaptor is selected from a Bluetooth® device, the unit will turn on automatically even when it is turned off, establishing a Bluetooth® connection.
- If the image and sound are out of sync during playback, restart the playback app you are using. If the problem persists, connect the Bluetooth® device and this unit with an audio cable (commercially-available).
- The One-Touch Connection may not work properly depending on the type of device being used.
- Depending on the specifications and settings of a device, it can fail to connect or some operations can be different.
- Refer to the operating instructions of the Bluetooth® device for details.

Using LP mode

This mode minimises power consumption of the battery by lowering the speaker output. (⇨ 8)

Press and hold [LP] for 2 seconds or more until the LP mode indicator (green) lights up.
The LP mode is enabled.
• Press and hold [LP] for 2 seconds or more again will return the setting back to the normal mode.

Note
• Even when the AC adaptor is connected, LP mode remains enabled.
• In LP mode, even when the volume knob is adjusted, the volume of the unit may not increase.
• Turning off the LP mode may cause the volume to jump up suddenly. Before turning off the LP mode, lower the volume.

Using the AUX input

You can listen to audio via the AUX IN jack (⇨ 6, 7) when this unit is connected to a device with an audio cable (commercially-available).

Note
• When using the AUX input, AUX input has priority than the Bluetooth® features and NFC features.
  (It will be possible to receive a call hands-free by pressing [🅱] when there is a call coming in on the device connected with Bluetooth®. ⇨ 14)
• The setting of the Bluetooth® is not changed even if the audio cable (commercially-available) is inserted into AUX IN jack.
• When using the AUX input, the volume may seem low depending on the connected device. In that case, check if the volume limit can be changed on the device. For details, refer to the manual of the device.
• If an audio cable (commercially-available) is inserted during audio playback with a Bluetooth® connection, noise may occur. In this case, stop the playback on the device connected via Bluetooth®.

Auto Power Off

This unit automatically turns off if there is no audio input and no operation is performed for approximately 10 minutes.

Note
• If the AUX IN jack is in use while the AC adaptor is connected, this function will not work.
• This function may operate even when the music is being played back if the volume of the connected device is low.
• This function may not operate depending on the connected device.
• When the DC OUT terminal is in use, this function will not work.
  NA30
• The Auto Power Off function is activated, the retractable panel will remain lowered when the unit is turned off. To leave the retractable panel raised when the unit is turned off, press [⏻/I] twice.

Receiving a call hands-free

If receiving a call on the mobile phone connected to this unit with Bluetooth®, you can make a hands-free call through this unit.

Preparation
Connect this unit and the mobile phone with Bluetooth®.

∎ Receiving a call
Press [🚀] when this unit rings.
• When receiving the call, the Bluetooth® indicator (blue) on the unit blinks.
• Talk into the microphone (⇒ 6, 7) on this unit.

∎ Ending the call
Press [🚀].

Note
• Adjust the volume during a call with volume knob on this unit.
• When the mobile phone and the unit are connected with Bluetooth®, even if you receive a call and have a conversation on the mobile phone, the unit may also output the incoming voice. To switch from a hands-free call using the unit to a call using only the mobile phone, operate the mobile phone.
• If a call is received during audio playback using a Bluetooth® connection, the sound will automatically switch to the ringtone.
 If a call is received while the AUX IN jack is in use, the sound will switch to the ringtone of the mobile phone connected with Bluetooth®.
• If you touch other devices to the NFC touch area of this unit when receiving a call, Bluetooth® connection will not switch.
• To mute the ringtone, turn the volume knob of the unit to [- VOL] until no sound can be heard.
• Some apps for the mobile phone may not be available for hands-free.
• In a place with poor mobile phone reception, it may be harder to have a conversation. Use the mobile phone in a place with good reception.
• In a place where voices echo considerably, such as an area near a wall, it may be harder to have a conversation. Before using the unit, move it away from the wall or lower its volume.

To return to the factory preset state

Perform the following when you want to delete pairing device information, etc.

Preparation
Turn off the unit, and remove the AC adaptor.

Press and hold [⏻/I] for 10 seconds until Bluetooth® indicator (blue) and LP Mode indicator (green) blink twice.

The pairing device information will be deleted by the reset, so it will be necessary to perform pairing again. Delete the pairing information for this unit from the Bluetooth® device, then perform the pairing operation again. (⇒ 10, 11)

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.

NA30

The retractable panel is not operating correctly.
- The Auto Power Off function is activated, the retractable panel will remain lowered when the unit is turned off. To leave the retractable panel raised when the unit is turned off, press [⏻/I] twice.

Sound from the device is cut off.
- Simultaneous use with other 2.4 GHz devices, such as microwaves, cordless telephones, etc., may result in connection interruptions. Increase the distance between this system and these devices.
- Do not place the unit in a place where radio waves will be blocked, such as a metal cabinet.
- The device is out of the 10 m communication range. Move the device nearer to this unit. (See "About Bluetooth®" ⇨ 4)
- Remove any obstacle between this unit and the device.
- Switch off any wireless LAN device.
- Select "Emphasis on connectivity" for stable communication. (See "Switching the communication quality" ⇨ 12)
- When a PC and the unit are connected with Bluetooth®, check the sound output destination setting of the PC. If the sound skips or is not output correctly in other ways, perform "To return to the factory preset state" (⇨ 14), and register the unit to the Bluetooth® device again. (⇨ 10, 11)

- Depending on the device connected to the unit, sound may be cut off or noise may be produced. When this happens, lower the volume of the device.
- When both the AUX IN jack and DC IN terminal are in use, noise may occur depending on the connected device. In this case, disconnect the AC mains lead.

The volume does not increase.
- Check the volume of the unit or the Bluetooth® device.
- In LP mode, even when the volume knob is adjusted, the volume of the unit may not increase. In this case, turn off the LP mode. (⇨ 13)

The device cannot be connected.
- Refer to the operating instructions of the device, and perform the pairing operation again. (See "Pairing with Bluetooth® device" ⇨ 10)
- Make sure that this unit is not connected to a different device.
- The registration information of the unit may have been deleted from the Bluetooth® device. Register the unit again.
- Delete the registration information of the unit through the Bluetooth® menu, etc. on the Bluetooth® device first, and try to register the device again. (⇨ 14)

The device is connected but audio cannot be heard from this unit.
- For some built-in Bluetooth® devices, you have to set the audio output to "SC-NA30" or "SC-NA10" manually. Read the operating instructions of the device for details.
- When the AUX IN jack is in use, the jack takes priority over the Bluetooth® function or the NFC function.

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This unit is not operating correctly. For example, this unit turns off all of a sudden or all indicator blink.
• Using a paper clip or similar material, press the [RESET]. (⇒ 6, 7)

The One-Touch Connection (NFC feature) is not working.
• Turn on the NFC feature of the device.

Volume is low when this unit is connected to a TV via Bluetooth®.
• Adjust the volume on the TV. The volume of headphone output may be coupled with the volume of the Bluetooth® output depending on the TV. In such case, adjust the volume of the headphone output on the TV.

Specifications

■ Amplifier section

RMS Output Power (AC Adaptor)

Normal Mode
NA30
　10 % total harmonic distortion
　Front ch (each ch driven):
　5 W per channel (1 kHz, 6 Ω)
　Subwoofer:
　10 W per channel (100 Hz, 3 Ω)
　Total RMS output power: 20 W
NA10
　10 % total harmonic distortion
　Front ch (both ch driven):
　5 W per channel (1 kHz, 6 Ω)
　Total RMS output power: 10 W

RMS Output Power (Battery)

Normal Mode
NA30
　10 % total harmonic distortion
　Front ch (each ch driven):
　4 W per channel (1 kHz, 6 Ω)
　Subwoofer:
　8 W per channel (100 Hz, 3 Ω)
　Total RMS output power: 16 W
NA10
　10 % total harmonic distortion
　Front ch (both ch driven):
　4 W per channel (1 kHz, 6 Ω)
　Total RMS output power: 8 W

RMS Output Power (AC Adaptor/Battery)

Long Play Mode
NA30
　10 % total harmonic distortion
　Front ch (each ch driven):
　2 W per channel (1 kHz, 6 Ω)
　Subwoofer:
　4 W per channel (100 Hz, 3 Ω)
　Total RMS output power: 8 W
NA10
　10 % total harmonic distortion
　Front ch (both ch driven):
　0.5 W per channel (1 kHz, 6 Ω)
　Total RMS output power: 1 W

■ Speaker section

Front Speaker (L/R)

NA30
　Type:1 way 1 speaker system (Closed type)
　Unit(s): 5 cm × 2
　Impedance: 6 Ω
NA10
　Type:1 way 1 speaker system
　(passive radiator type)
　Unit(s): 4 cm × 2
　Impedance: 6 Ω

NA30 SUBWOOFER

Type:
　1 way 1 speaker system (passive radiator type)
Unit: 8 cm × 1
Impedance: 3 Ω

Passive Radiator

NA30 Unit: 8 cm × 2
NA10 Unit: 8 cm × 1

■ Bluetooth® section

Bluetooth® system specification
Ver. 3.0

Wireless equipment classification
Class 2 (2.5 mW)

Supported profiles
A2DP/AVRCP/HFP

Supported codec
aptX®, AAC, SBC

Frequency band
2.4 GHz band FH-SS

Operating distance
Approx. 10 m Line of sight Prospective communication distance. Measurement environment: Height 1.0 m

■ Microphone section

Type
Mono

■ Terminals section

DC IN
12 V 3 A

AUX input
Stereo φ 3.5 mm jack

DC OUT (USB A type)
(5 V 1 A) Supply output only power-on

■ Accessories section

AC Adaptor
INPUT: AC 100 V to 240 V 50/60 Hz 1000 mA
OUTPUT: DC 12 V 3 A

■ General

Power supply
NA30 DC 12 V 3 A Internal Battery: 7.2 V (Li-ion: 2900 mAh) NA10 DC 12 V 3 A Internal Battery: 7.4 V (Li-ion: 1240 mAh)

Power consumption
NA30 Approx. 16 W NA10 Approx. 12 W

Power consumption in standby mode
Approx. 0.4 W

Battery Life in Use (Bluetooth® : SBC mode)
NA30 Normal Mode: Approx. 14 h* LP Mode: Approx. 20 h* NA10 Normal Mode: Approx. 10 h* LP Mode: Approx. 20 h*

Battery Charge Time (25 °C)
Approx. 3 h

Dimensions (W × H × D)
NA30 244 mm × 144 mm × 48 mm NA10 204 mm × 105 mm × 41 mm (With cover) 200 mm × 99 mm × 29 mm (Without cover)

Mass
NA30 Approx. 930 g NA10 Approx. 520 g (With cover) Approx. 415 g (Without cover)

Operating temperature range
0 °C to +40 °C

Charge temperature range
10 °C to +35 °C

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

Note
- Specifications are subject to change without notice.
- Mass and dimensions are approximate.
- Total harmonic distortion is measured by a digital spectrum analyzer.
- * By the measurement method prescribed in the provisions

To remove the battery when disposing of this unit

The following instructions are not intended for repairing purposes but for the disposal of this unit. This unit is not restorable once disassembled.

When disposing of this unit, take out the battery installed in this unit and recycle it.

• Use up the battery before disassembling. (For Cautions of the battery ⇨ 3)
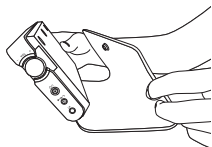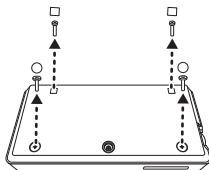• Keep the sheets and the screws out of reach of children to prevent swallowing.

■ **How to disassemble the SC-NA30**

1

2

3

4

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Ⓐ
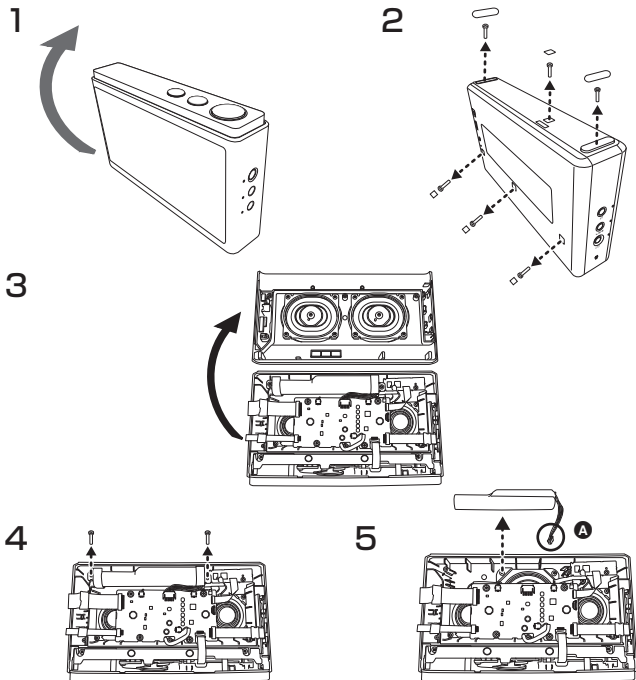
• Insulate the Ⓐ with cellophane tape or similar.
• Do not disassemble the battery.
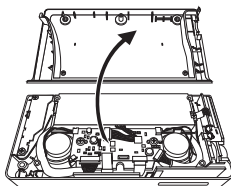
■ **How to disassemble the SC-NA10**

1

2

3
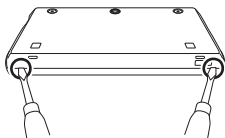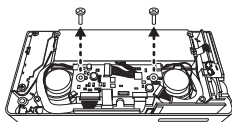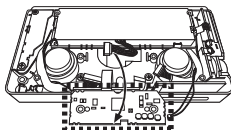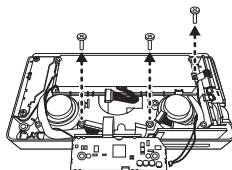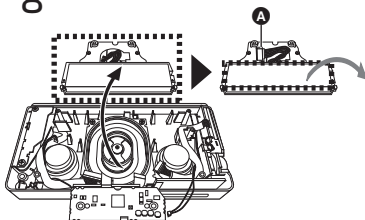

4

5

6

7

8

- Insulate the Ⓐ with cellophane tape or similar.
- Do not disassemble the battery.

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Polski
Deklaracja zgodności (DoC)
Niniejszym, "*Panasonic Corporation*" deklaruje, iż niniejszy produkt jest zgodny z zasadniczymi wymogami i innymi odnośnymi postanowieniami Dyrektywy 1999/5/WE.
Klienci mogą skopiować oryginał Deklaracji Zgodności (DoC) dla naszych produktów radiowych i końcowych urządzeń teletransmisyjnych (R&TTE) z naszego serwera DoC:
http://www.doc.panasonic.de
Kontakt się z autoryzowanym przedstawicielem: Panasonic Marketing Europe GmbH,
Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Niemcy

Ten produkt jest przeznaczony dla użytkownika ogólnego. (Kategoria 3)

Česky
Prohlášení o shodě (DoC)
Společnost "*Panasonic Corporation*" tímto prohlašuje, že tento výrobek je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/EC.
Zákazníci si mohou stáhnout kopii originálu prohlášení o shodě pro naše produkty R&TTE z našeho serveru:
http://www.doc.panasonic.de
Oprávněný zástupce: Panasonic Marketing Europe GmbH,
Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Německo

Tento produkt je určen pro běžného zákazníka. (Kategorie 3)

Ελληνικά
Δήλωση συμμόρφωσης (DoC)
Με την παρούσα, η "*Panasonic Corporation*" δηλώνει ότι το προϊόν αυτό είναι σύμφωνο με τις βασικές απαιτήσεις και άλλες σχετικές διατάξεις της οδηγίας 1999/5/EC.
Οι πελάτες μπορούν να κατεβάσουν ένα αντίγραφο του πρωτοτύπου DoC για τα R&TTE προϊόντα μας από τον DoC server μας:
http://www.doc.panasonic.de
Στοιχεία επικοινωνίας Εξουσιοδοτημένου Αντιπροσώπου: Panasonic Marketing Europe GmbH,
Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Γερμανία

Αυτό το προϊόν προορίζεται για καταναλωτές. (Κατηγορία 3)

Português
Declaração de Conformidade (DoC)
Com o presente documento, a "*Panasonic Corporation*" declara que este produto é conforme os requisitos específicos e demais especificações referentes à Directriz 1999/5/EC.
Os clientes podem baixar uma cópia da declaração de conformidade (DoC) para nossos produtos R&TTE do Server DoC:
http://www.doc.panasonic.de
Contacte o representante autorizado: Panasonic Marketing Europe GmbH,
Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Alemanha

Este produto destina-se ao consumidor geral. (Categoria 3)

Lietuviškai
Atitikties deklaracija (AD)
Bendrovė "*Panasonic Corporation*" patvirtina, kad šis gaminys tenkina direktyvos 1999/5/EB esminius reikalavimus ir kitas taikytinas nuostatas.
Mūsų R&TTE gaminių originalios atitikties deklaracijos kopiją klientai gali atsisiųsti iš mūsų AD serverio:
http://www.doc.panasonic.de
Įgaliotojo atstovo adresas: "Panasonic Marketing Europe GmbH",
Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Vokietija.

Šis gaminys skirtas bendrajam vartojimui. (3 kategorija.)

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Slovensko
Izjava o skladnosti (DoC)
S pričujočo izjavo podjetje "*Panasonic Corporation*" izjavlja, da so svoji izdelki skladni s poglavitnimi zahtevami in drugimi odgovarjajočimi predpisi direktive 1999/5/ES.
Stranka lahko naloži izvod izvirnega DoC o naših izdelkih R&TTE s strežnika DoC:
http://www.doc.panasonic.de
Pooblaščeni zastopnik: Panasonic Marketing Europe GmbH,
Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Nemčija

Izdelek je namenjen splošni uporabi. (Razred 3)

Slovensky
Vyhlásenie o zhode (DoC)
"*Panasonic Corporation*" týmto prehlasuje, že tento výrobok je v zhode so základnými požiadavkami a ďalšími príslušnými ustanoveniami smernice 1999/5/ES.
Zákazníci si môžu stiahnuť kópiu pôvodného DoC na naše R&TTE výrobky z nášho servera DoC:
http://www.doc.panasonic.de
Kontakt na splnomocneného zástupcu: Panasonic Marketing Europe GmbH,
Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Nemecko

Tento produkt je určený pre všeobecného spotrebiteľa. (Kategória 3)

Norsk
Samsvarserklæring (DoC)
"*Panasonic Corporation*" erklærer at utstyret er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF.
Kundene kan laste ned en kopi av den originale samsvarserklæringen (DoC) for vårt R&TTE utstyr fra vår DoC server:
http://www.doc.panasonic.de
Kontakt vår autoriserte representant: Panasonic Marketing Europe GmbH,
Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Tyskland

Utstyret er beregnet på den vanlige forbruker (klasse 3).

Eesti keel
Vastavusdeklaratsioon (DoC)
"*Panasonic Corporation*" kinnitab käesolevaga, et see toode on vastavuses põhiliste nõuete ja muude direktiivi 1999/5/EÜ asjakohaste sätetega.
Kliendid saavad kopia meie R&TTE toodetele kehtiva originaalvastavusdeklatsiooni koopia alla laadida meie DoC-serverist:
http://www.doc.panasonic.de
Võtke ühendust volitatud esindajaga: Panasonic Marketing
Europe GmbH,
Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Germany

See toode on mõeldud tavakasutajale. (III kategooria)

Latviski

Atbilstības deklarācija (DoC)
Kompānija "*Panasonic Corporation*" ar šo paziņo, ka šis izstrādājums atbilst būtiskām prasībām un citām saistošām Direktīvas 1999/5/EK prasībām.Pircēji var lejupielādēt oriģinālo DoC kopiju mūsu R&TTE izstrādājumos no mūsu DoC servera:
http://www.doc.panasonic.de
Lūdzam sazināties ar pilnvaroto parstāvi Panasonic Marketing Europe GmbH,
Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Germany

Šis izstrādājums ir paredzēts parastam patērētājam. (3. kategorija)

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Български

Декларация за съответствие (DoC)

"*Panasonic Corporation*" декларира, че този продукт съответства на съществените изисквания и другите приложими разпоредби на Директива 1999/5/EC.

Потребителите могат да свалят копие от оригиналните DoC към нашите продуктите от типа R&TTE от сървъра, на който се съхраняват DoC:

http://www.doc.panasonic.de

За контакт с оторизиран представител: Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Германия

Този продукт е предназначен за обща употреба. (Категория 3)

Român

Declaraţie de Conformitate (DoC)

Prin prezenta, societatea "*Panasonic Corporation*" declară că produsul este conform cu cerinţele esenţiale şi cu alte norme corespunzătoare Directivei 1999/5/EC.

Clienţii pot descărca o copie a DoC-ului original al produselor noastre R&TTE de la adresa noastră DoC din Internet:

http://www.doc.panasonic.de

Contact la Reprezentanţa autorizată: Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Germania

Acest produs a fost proiectat pentru clientela generală. (Categoria 3)

Magyar

Megfelelőségi Nyilatkozat (DoC)

Ezennel a "*Panasonic Corporation*" kijelenti, hogy jelen termék kielégíti az 1999/5/EK Irányelv létfontosságú követelményeit és más vonatkozó rendelkezéseit.

A vásárlók letölthetik az R&TTE termékek eredeti DoC másolatát a DoC szerverünkről:

http://www.doc.panasonic.de

Forduljon a hivatalos márkaképviselethez: Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Németország

A terméket általános fogyasztóknak szánták. (3-as kategória)

Hrvatski

Deklaracija o podobnosti (DoC)

Ovime, "*Panasonic Corporation*" izjavljuje da je ovaj proizvod udovoljava osnovnim zahtjevima i ostalim relevantnim uvjetima Smjernice 1999/5/EC.

Kupci mogu preuzeti kopiju originalne DoC za naše R&TTE proizvode s našeg DoC poslužitelja:

http://www.doc.panasonic.de

Obratite se ovlaštenom predstavniku:

Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Njemačka

Ovaj proizvod je namijenjen za opću potrošnju (kategorija 3)

Türkçe

Uygunluk Beyanı (DoC)

"*Panasonic Corporation*" işbu belge ile bu ürünün 1999/5/EC sayılı Direktif'in temel gereklerine ve diğer ilgili hükümlerine uygun olduğunu beyan etmektedir.

Müşterilerimiz R&TTE ürünlerimizle ilgili orijinal DoC belgesinin bir kopyasını DoC sunucumuzdan indirebilir:

http://www.doc.panasonic.de

Yetkili Temsilci ile temasa geçin:

Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Germany

İşbu ürün genel tüketicilere yöneliktir. (Kategori 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 part 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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