

Wireless connection

Product

ore.

R1-W series WH-R17C, WH-R15C, WH-R13C

Model

For wireless connection between the Hearing Hub and hearing instrument, be aware of the following:

• Use 1 (one) for the wireless device identification of the hearing instrument and Hearing Hub.

• If more than one person is using a Panasonic wireless device sharing the same wireless ID in the same area, the performance of the hearing instruments can be affected.

• Contact your dispenser to configure the device identification number for you.

To dispensers

A wireless connection between the Hearing Hub and hearing instrument must be adjusted and configured by the dispenser on an individual basis. Inappropriate wireless connection setup may cause damage to your clients or result in poor performance of the product.

If you have any questions, contact the Panasonic Sales Division below.

Panasonic Corporation of North America Healthcare Group

One Panasonic Way, 1H-6, Secaucus, NJ 07094 Telephone No. 1-888-422-6309

Wireless Device Identification No.:

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Before Use

WH-0M1101A

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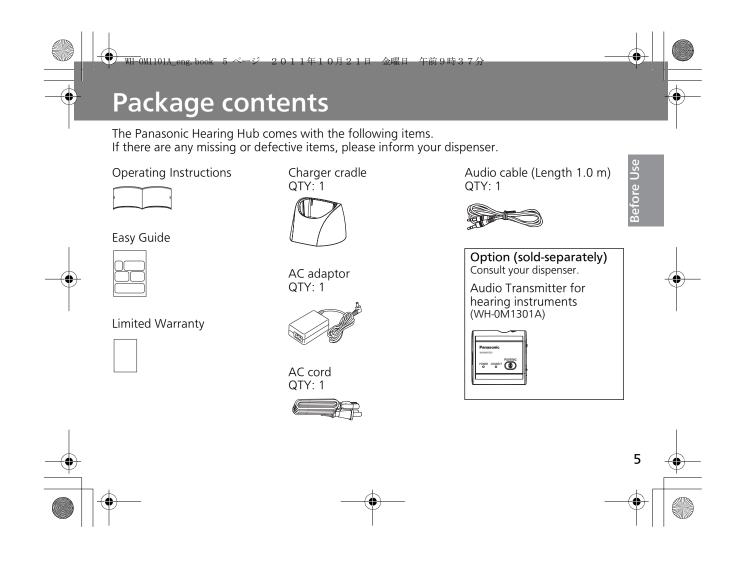
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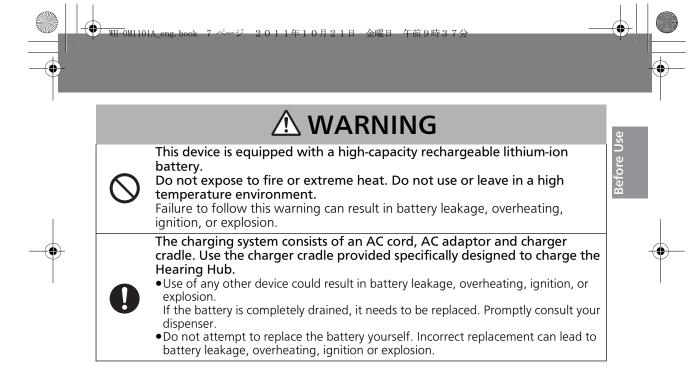
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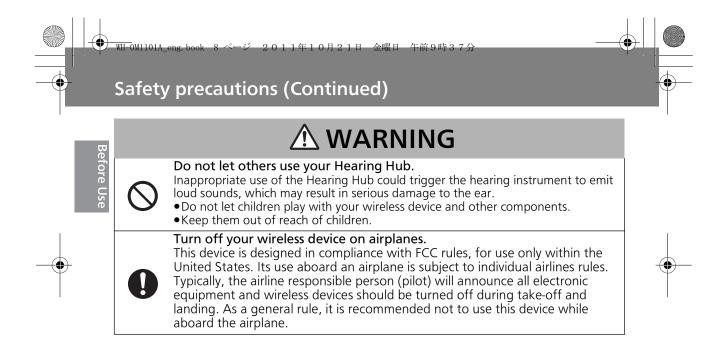
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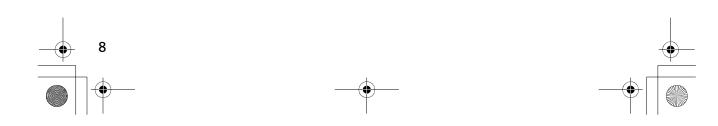
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Do not use your wireless device in the hospital or near medical equipment. Electromagnetic interference (EMI) emitted by your Hearing Hub can interfere with the normal operation of medical monitors and other hospital devices. Medical device malfunction can inadvertently affect the various medical devices and consequently disrupt operations or cause accidents.

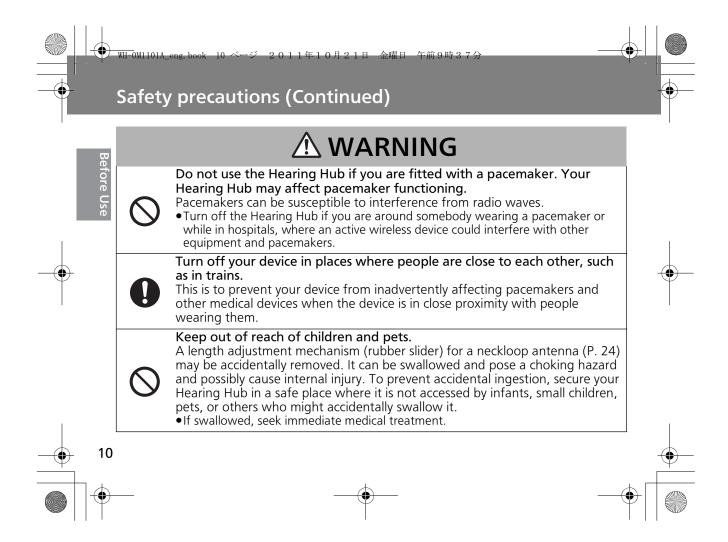
Before Use

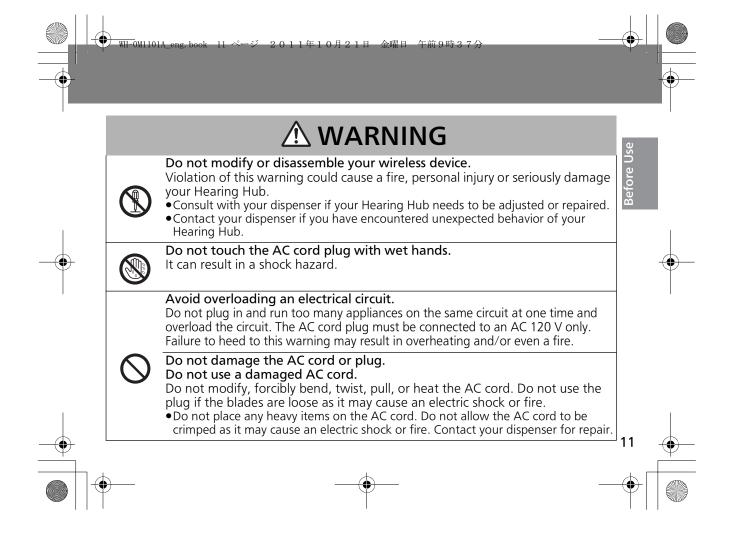
Do not use your wireless device near automatic control equipment systems. Electromagnetic interference (EMI) emitted by your Hearing Hub can affect the functionality of automatic control equipment such as automatic doors and fire alarms. They are vulnerable to other electromagnetic energy. Medical device malfunction can disrupt operations or cause serious accidents.

Do not use your Hearing Hub while driving.

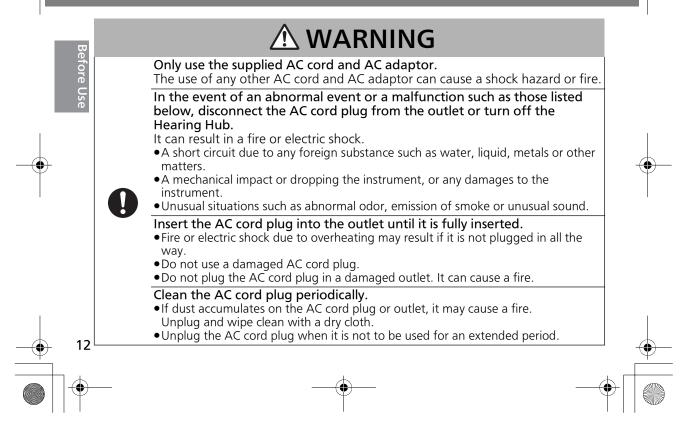
It introduces a significant form of distraction. Violation of this warning can cause serious traffic accidents.

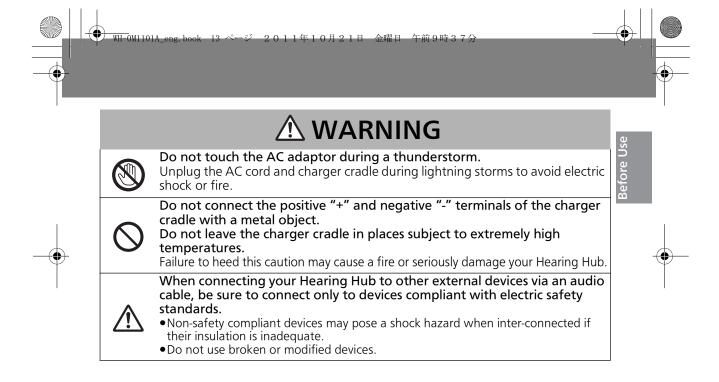
• Give full attention to driving and to the road. Be alert of your surroundings even while walking. If you are too focused on your Hearing Hub in certain situations, like crossing a train track, a street, walking along a busy street, through a parking lot, etc., you could actually be putting yourself at great risk.

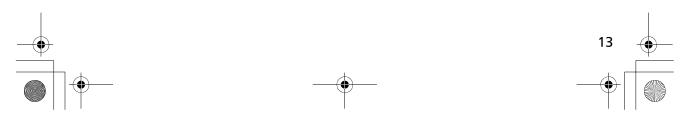


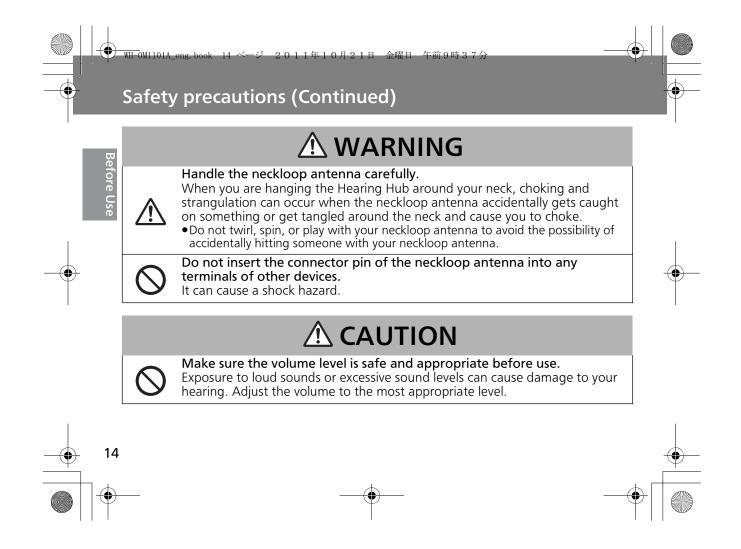


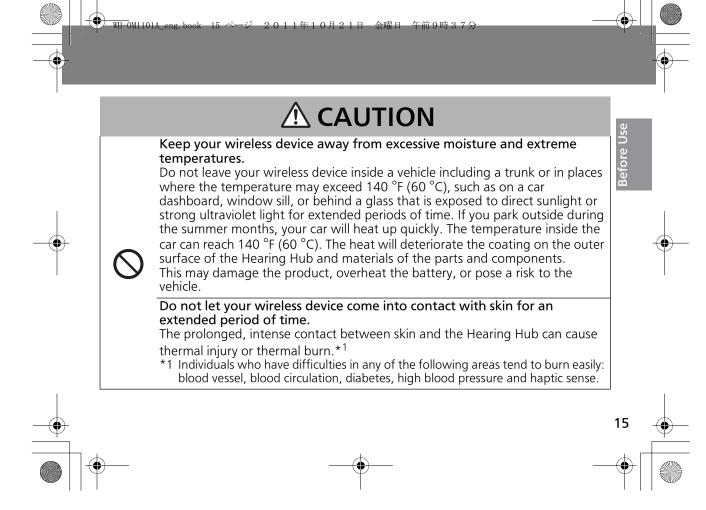
Safety precautions (Continued)



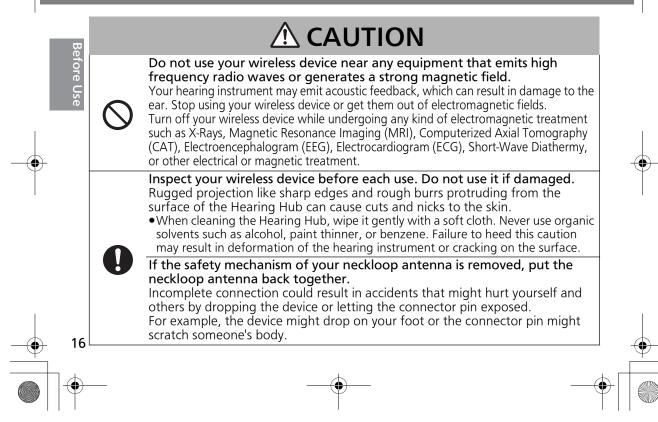








Safety precautions (Continued)



Care and handling instructions

For proper care and handling of your Hearing Hub, be sure to read and follow the instructions below. Preventive maintenance can help extend the life span of the Hearing Hub.

Use

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• Do not drop, hit or shake the Hearing Hub. Do not subject it to high impact, vibration, or shock loads. Drops and impacts can cause scratches, cracks and physical damage.

Ask the dispenser to perform the wireless configuration setup between your hearing instrument and Hearing Hub.
 After using hair styling products and skin care products, do not touch the Hearing Hub without washing your hands.

- Avoid high temperatures, moisture, humidity and dust.
- Do not use the Hearing Hub in the shower or swimming.

• Do not touch the Hearing Hub with wet hands.

• Do not leave or store the Hearing Hub in a damp location like bathroom, dusty environment or in direct sunlight, high temperature or humidity. For example, do not leave it in an unventilated automobile, exposed to direct sunlight with its all doors and windows shut.

• Do not use the Hearing Hub near any device that emits high frequency radio waves or generates a strong magnetic field. There is a possibility that the volume adjustment or memory change by the Hearing Hub does not work. Your hearing instrument may emit acoustic feedback, which can result in damage to the ear.

• Check your pockets to ensure that your Hearing Hub will not accidentally get thrown in the wash before doing the laundry.

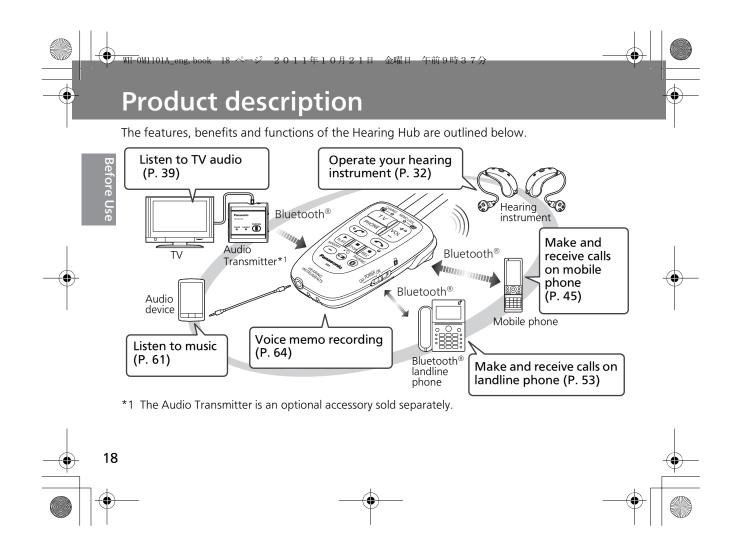
-The Hearing Hub has no special protection against ingress of water.

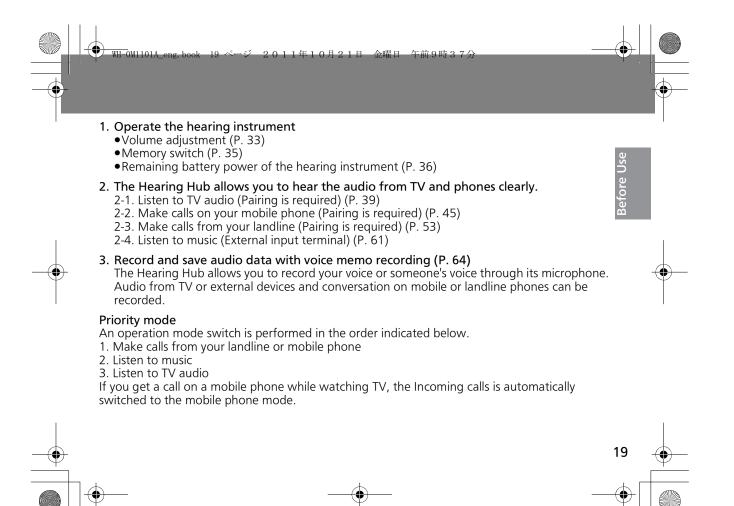
-Degree of protection against harmful ingress of water is ordinary equipment (IPX0).

• The Hearing Hub is not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.

• The Hearing Hub is designed to comply with United States regulations and is intended for use in the United States.

• After using the Hearing Hub, avoid exposure to direct sunlight, and high humidity and temperature. Keep the Hearing Hub at room temperature.





General Bluetooth[®] description

Bluetooth[®] is a short range wireless radio technology that allows electronic devices to communicate with each other. It eliminates the need for the cables that connect devices together.

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.

You need a Bluetooth® enabled device.

To use your Bluetooth[®] mobile phone and landline phone through the Hearing Hub, they need to have either Bluetooth[®] profile:

- Hands-Free Profile
- Headset Profile

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If your phone has both the profiles, select "Hands-Free Profile".

Bluetooth[®] pairing process

Pairing is a special process used when two devices connect for the first time. The pairing process is used to generate a link key that is used for authentication purposes during subsequent Bluetooth[®] connections between the two devices. Normally, once a Bluetooth[®] accessory has been paired with the device, it can be used with the device, without the need for re-pairing, assuming the appropriate profile exists for the required service. However, some devices may require pairing process each time they are used. Refer to the manual that came with your Bluetooth[®] device for further details.

The battery power drain does not affect information on the established connection. In other words, pairing is remembered and preserved regardless of the remaining power.



Bluetooth[®] device name

The Bluetooth[®] device name is used to identify a device when searched and registered. The Bluetooth[®] device name of Hearing Hub is HABT01. The name may vary depending on device model.

HABT01

•The name may vary depending by device model.

•For example, only part of the name is displayed due to limited space of the field, or a device name was changed due to the name change function.

Bluetooth[®] Passkey (PIN)

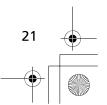
A Bluetooth® passkey is a password that is used for pairing process of enabling devices to securely communicate with each other. The default passkey is "0000".

Connection with Bluetooth® devices

You can connect the Hearing Hub to an Audio Transmitter^{*1} and up to two phones. *During talking on the phone through Hearing Hub, Hearing Hub cannot receive any call from the other phone.

It is recommended to get your dispenser to perform the Bluetooth[®] pairing when they adjust and program your hearing instrument.

*1 The Audio Transmitter is an optional accessory sold separately.



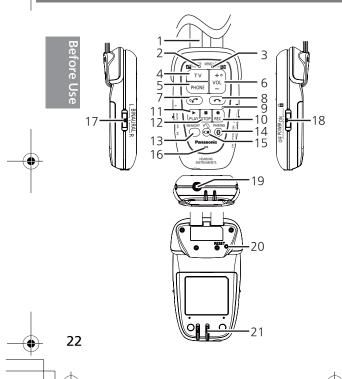




Device description

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WH-0M1101A



1. Neckloop antenna

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It is a built-in antenna (intermediary device around the neck) that stabilizes the communication with the hearing instrument and enhances the sound quality.

2. LED 1

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- The green LED indicates the status that the Hearing Hub is in phone mode.
 The orange LED allows you to check the remaining battery power and charging status of the Hearing Hub.

3. LED 2

- The green LED indicates that the Hearing Hub is in TV mode.
 The orange LED indicates that the recorded data is protected.

4. TV key

- It enables or disables TV listening.
- 5. Phone key
- It enables or disables a Bluetooth[®] connection to the phone.

Symbol	Description
	The symbol indicates TV mode.
5	The symbol indicates the hearing instrument.



- 6. Volume key
 - It adjusts the volume level.
- 7. Send key
 - It answers incoming calls or makes calls.
- 8. End key
 - It ends calls or rejects incoming calls.
- 9. LED 3
 - It notifies you of the status of voice memo recording.
- 10. Record key
 - It records audio data with voice memo recording.
- 11. Play key
 - It plays audio data recorded with the voice memo recording function.
- 12. Stop key
 - It stops recording and playing with voice memo recording.
- 13. Memory key
 - It switches between tones of the hearing instrument.
 - It write-protects audio data recorded with voice memo recording and removes the write-protection.

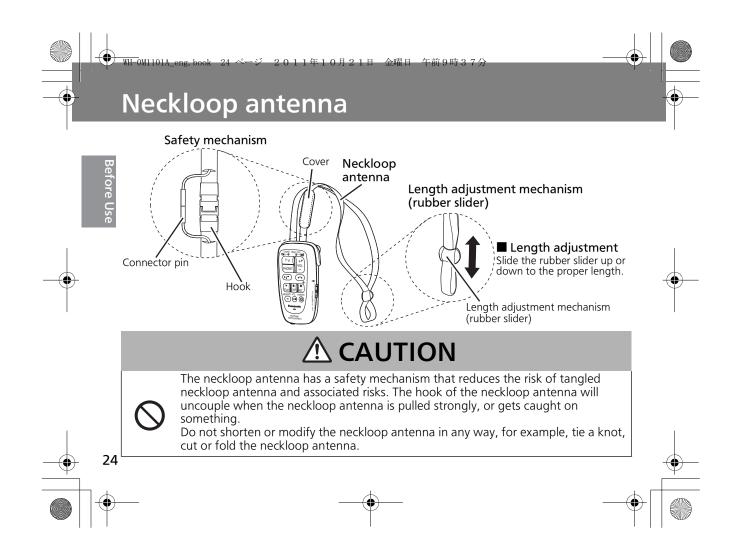
- 14. Pairing key
 - It pairs the Hearing Hub and Bluetooth[®] enabled devices.
- 15. Battery power-left notification key
 It notifies you of the remaining battery power of the hearing instrument with a sound. The alert sound differs depending on how much battery power is left.
- 16. Microphone
 - It is the sound input unit when you use a phone or voice memo recording.
- 17. Monaural/Binaural switch
 - It selects the hearing instrument for the left ear, right ear, or both ears for volume control, memory switch and battery power-left notification.
- 18. Power/Hold switch
 - It turns on and off the Hearing Hub. It puts the Hearing Hub into key lock mode.
- 19. External input terminal
 - It allows you to listen to music or audio data by connecting to external audio devices.
- 20. Reset key
- It resets the Hearing Hub.
- 21. Charging terminal
 - It is used for charging the battery.

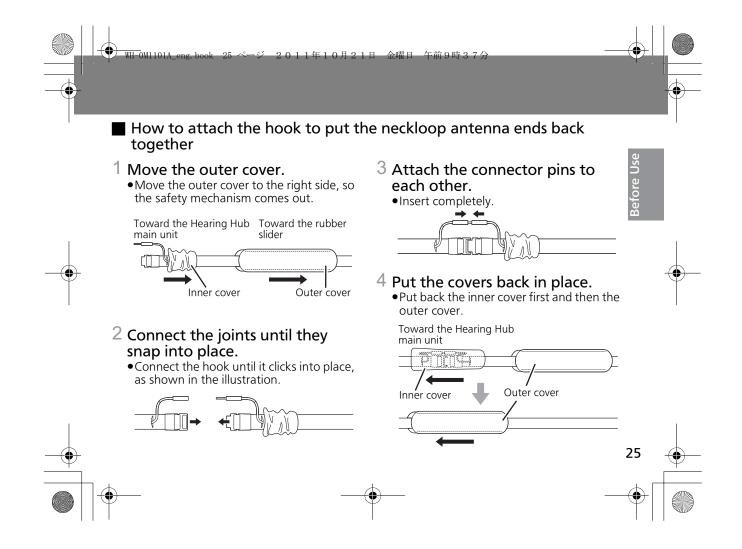


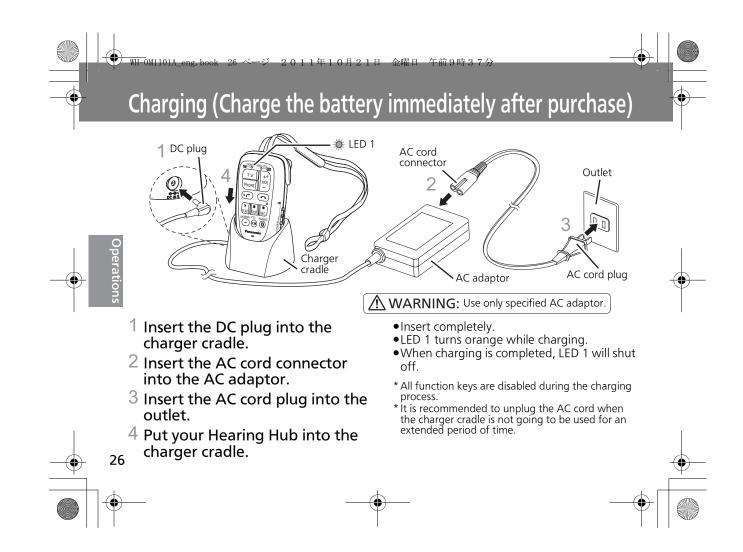
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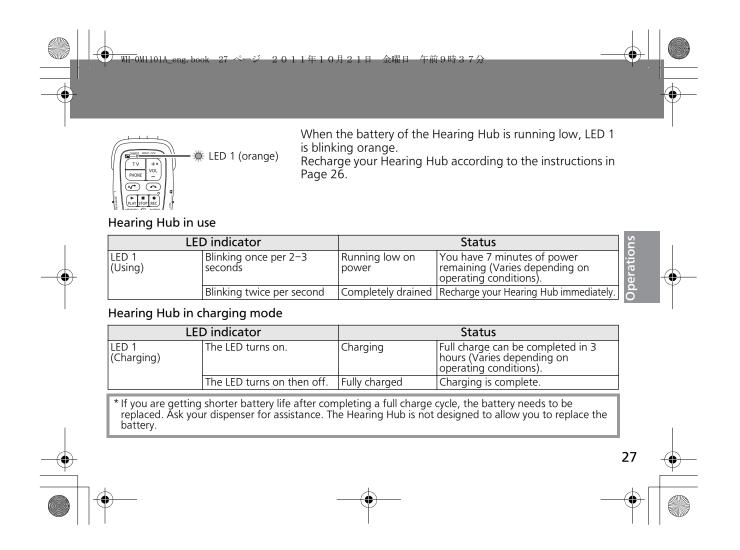
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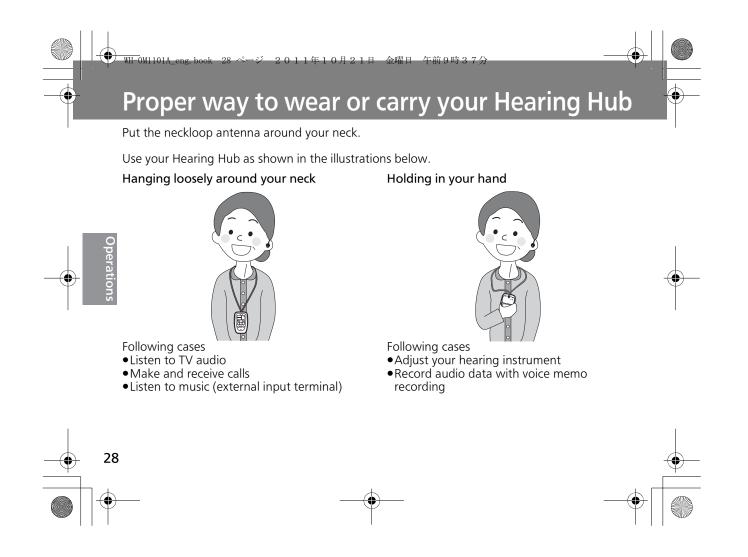
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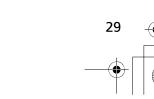
For wireless connection between the Hearing Hub and hearing instrument, very weak radio waves are used.

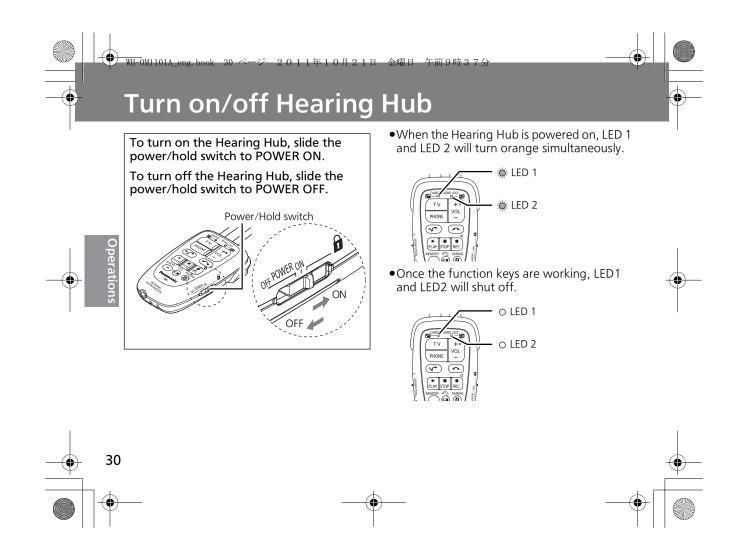
The low-intensity radio waves get even weaker with distance from the source. Signal quality between the hearing instrument and the Hearing Hub can vary depending on where they are placed, the direction they are facing, or the presence of electromagnetic noise and interference.

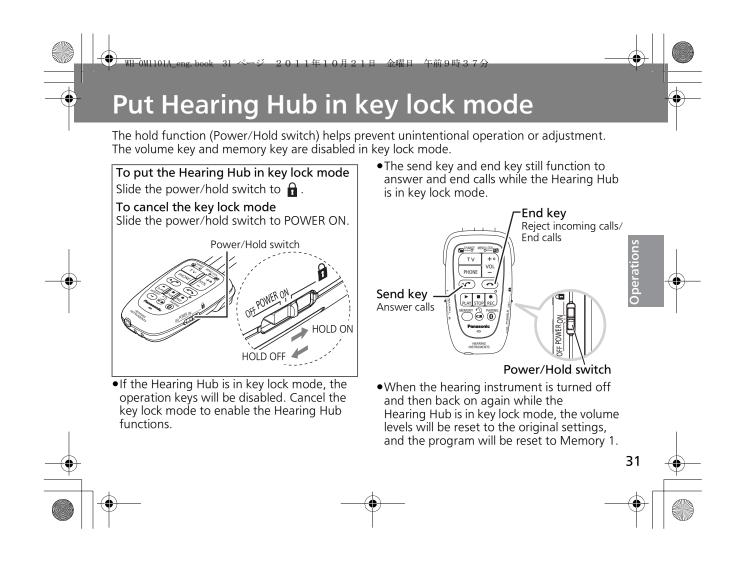
If you do not wear the neckloop antenna, keep the distance between the Hearing Hub and your hearing instrument within 14.7 inches (40 cm). It is recommended to wear the neckloop antenna to stabilize the wireless connection.

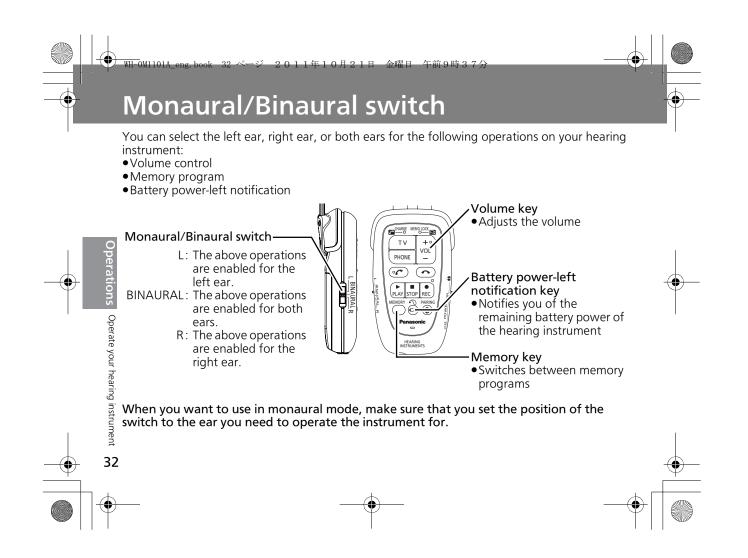


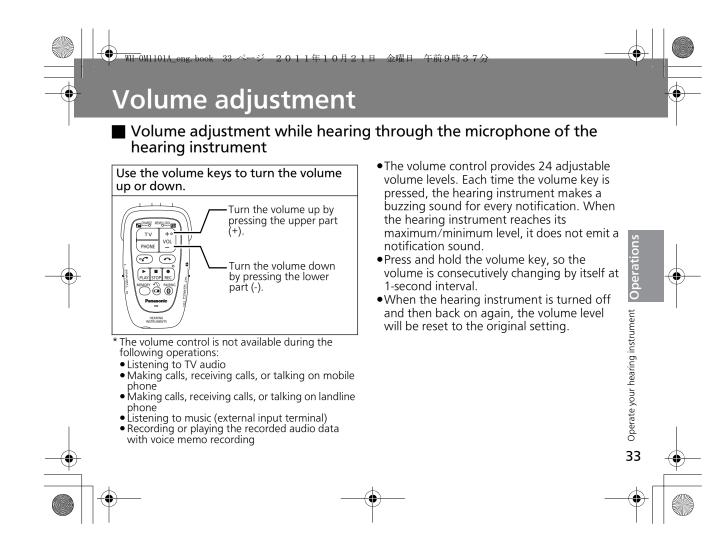
Operations

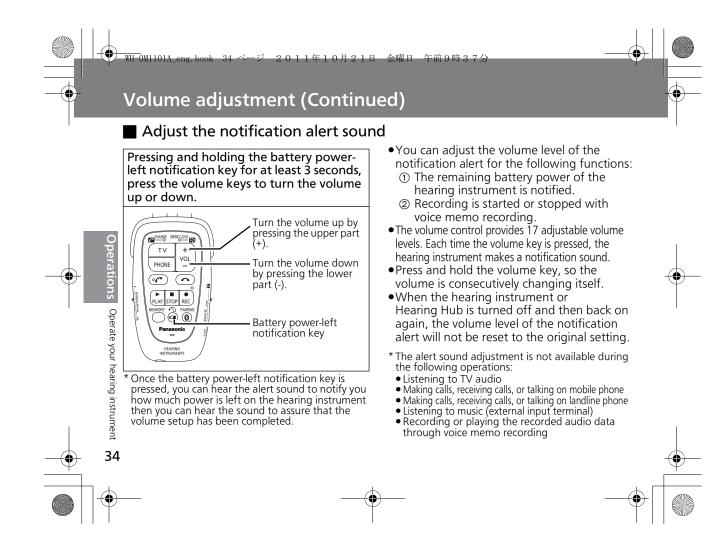


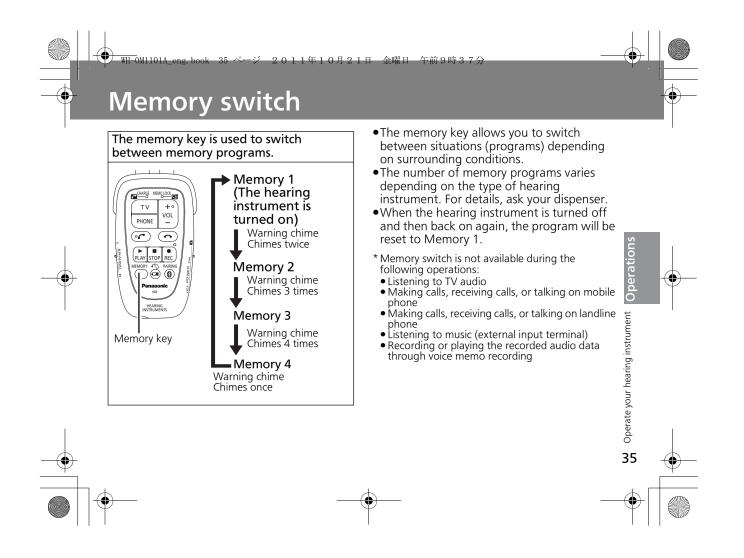


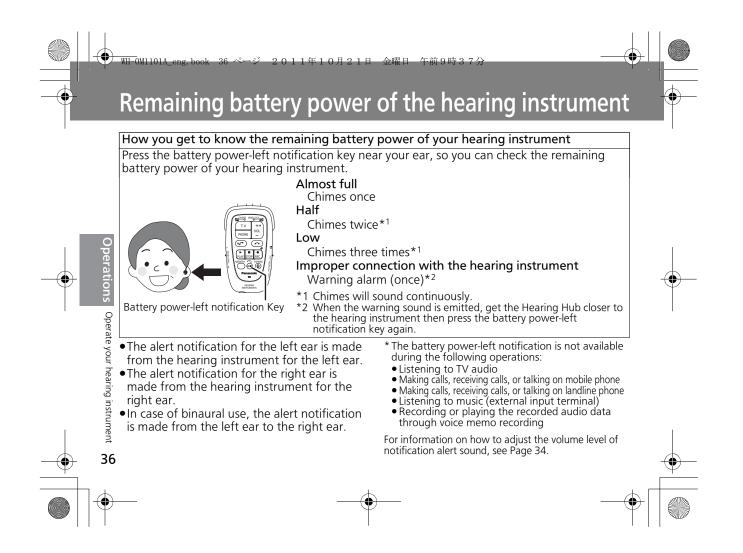










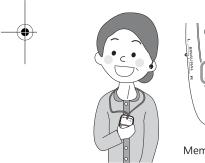


Hearing instrument reset

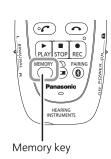
In case of binaural hearing instruments, the memory switch and volume control may work only on one ear depending on the communication status of the Hearing Hub. If this occurs, reset your hearing instrument by following the instructions below.

Reset the hearing instrument on the Hearing Hub

1 Wearing the neckloop antenna, press and hold the memory key for about 10 seconds.



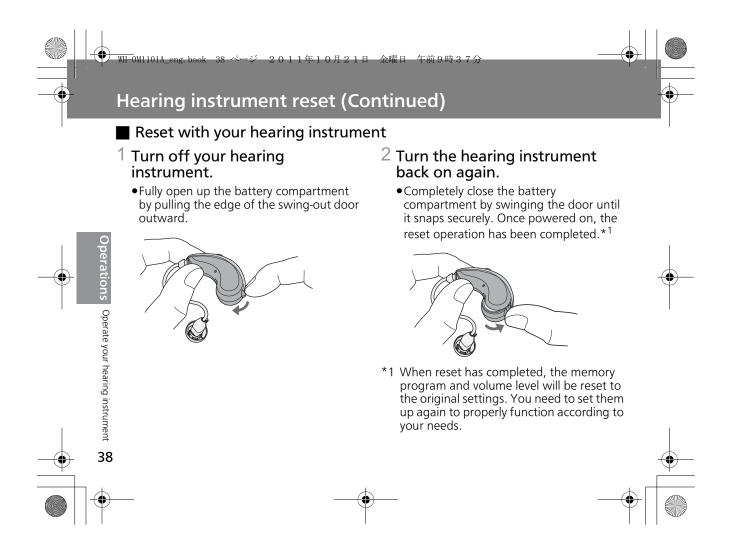
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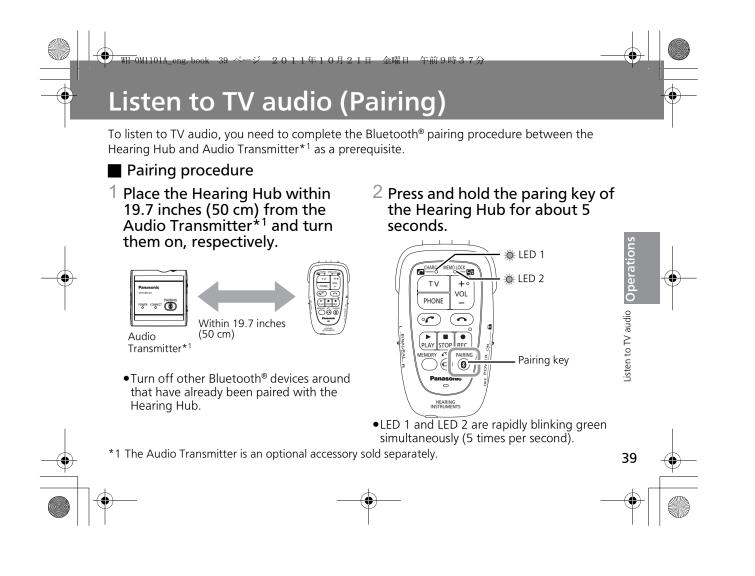


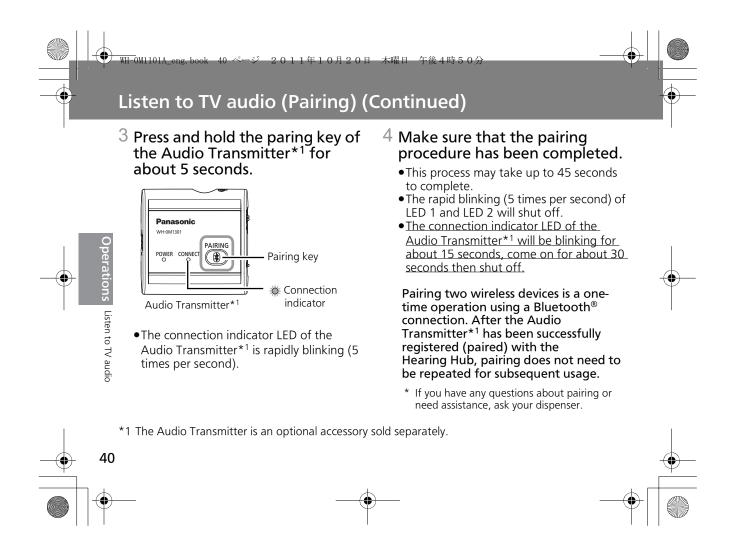
When the hearing instrument emits alert sounds (to notify the completion of memory switch or volume setup) for a few seconds, the reset operation is complete.*¹

*1 The alert sound varies depending on the volume and memory program settings.











Pairing instructions

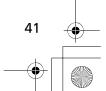
• Pairing failed.

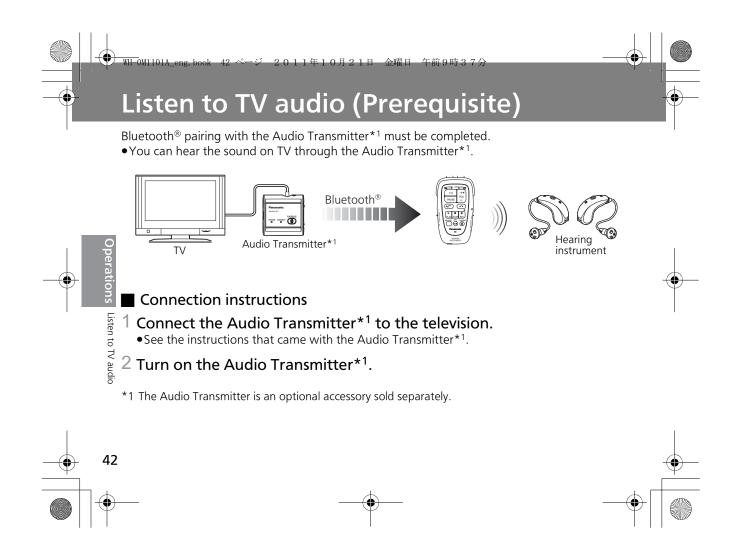
If the Hearing Hub cannot find the Bluetooth[®] device within 120 seconds, the pairing procedure will be cancelled. For the connection timeout, see the instructions that came with the Bluetooth[®] enabled device.

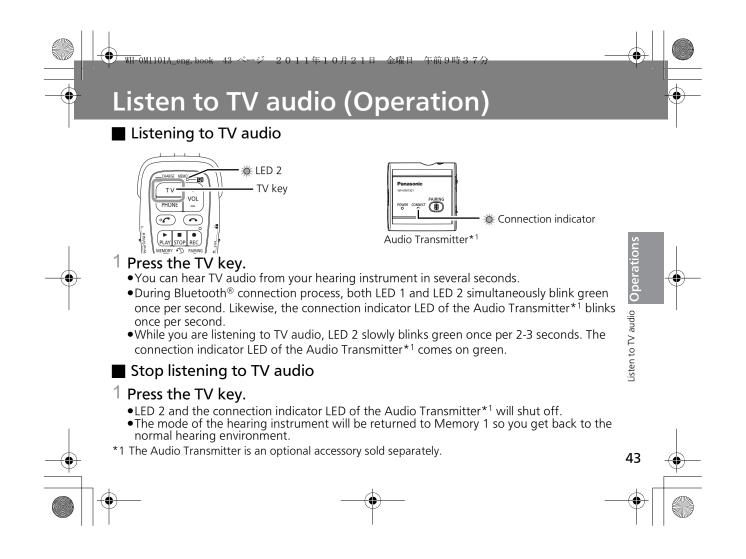
- •To cancel the pairing procedure, press the paring key again.
- To delete the registered information, first hold the paring key down, turn on the Hearing Hub then keep holding the paring key for approximately 10 seconds. LED 1 and LED 2 will turn solid green for 3 seconds during deletion.

Once pairing information is deleted, the Bluetooth[®] device that has already been paired will be disabled.









Listen to TV audio (Operation) (Continued)

Volume adjustment

You can adjust the TV audio volume by following the instructions below.

Use the volume keys to turn the volume up or down.

- The volume control provides 17 adjustable volume levels. A notification sound is not made from the hearing instrument.
- Press and hold the volume key, so the volume is consecutively changing by itself at 1-second interval.
- When the hearing instrument or Hearing Hub is turned off and then back on again, the volume remains unchanged since it was last adjusted.
- Adjusting TV volume does not affect the volume of the hearing instrument.
- The TV volume is the same as that for music through the external input terminal.

⁷ Volume adjustment through the Audio Transmitter^{*1}

- See the instructions that came with the Audio Transmitter*1.
- *1 The Audio Transmitter is an optional accessory sold separately.

Mix left and right audio channels

You can switch between stereo binaural hearing and L/R mix. In binaural stereo hearing, one channel is differentiated from the other. The split audio is directed from one stereo channel to one ear and from the other channel to the other ear. In the Hearing Hub, the binaural stereo mode is set as default. Those who are wearing a monaural hearing instrument can only hear the sound from one stereo channel in one ear because the other channel is disabled. In L/R mix, multiple sound sources are merged together to create a multi-dimensional sound, rich in depth and complexity. Regarding L/R mix setup, ask your dispenser for assistance.

Hearing instrument microphone

You can set up the microphone of your hearing instrument as you can simultaneously listen to the sound from a television through your hearing instrument's microphone. For enabling or disabling the microphone, ask your dispenser for assistance.



Make and receive calls on mobile phone (Pairing) (Continued) 3 Open the "Settings" or "Tools" 5 Your mobile phone will confirm option on your mobile phone. pairing and automatically Choose "Bluetooth", then select connect to the Hearing Hub. "Add New Device" or "Search". Make sure that the Bluetooth® pairing procedure has been • See the instructions that came with the completed. mobile phone. • LED 1 will slowly blink green once per 2-3 Your mobile phone will search seconds to indicate that your mobile for nearby Bluetooth[®] devices. phone is connected to the Hearing Hub This may take several seconds. through Bluetooth[®]. •See the instructions that came with the * If your phone has both the Bluetooth® mobile phone. Hands-Free Profile and Headset Profile, select Make and receive calls on •On your mobile phone, when searching Hands-Free Profile for "Profile" options. for device, "HABT01" will appear in the device list. The name may vary depending on the make or model of the mobile phone. • Select the name of the Hearing Hub, "HABT01", from the list of discovered mobile phone devices displayed on your phone's screen. •Enter "0000" when you are asked to enter the PIN or passkey. Press "OK". 46



After the mobile phone has been successfully registered (paired) with the Hearing Hub, the Hearing Hub will automatically reconnect to your phone.

Normally, the first time a Bluetooth[®] device is used with the Hearing Hub, a one-time pairing connection must be established. The pairing connection is only required for the first use, and does not need to be repeated for subsequent usage.

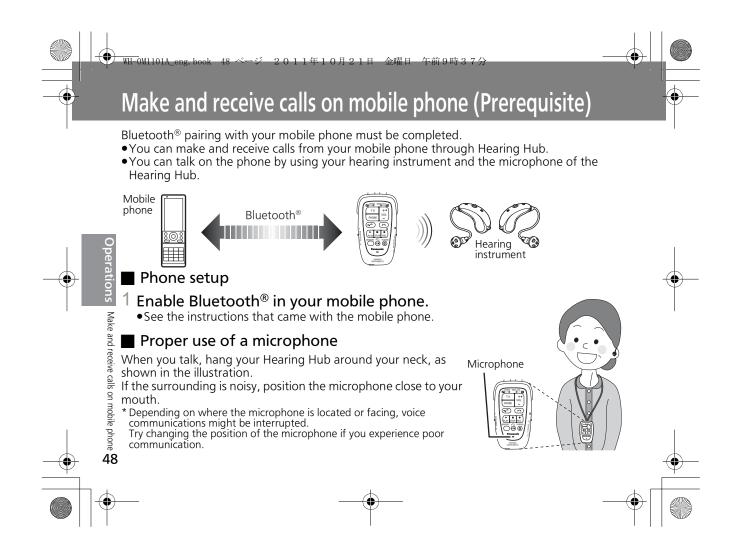
Pairing instructions

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See the "Pairing instructions" in Page 41.

* Music playing on the mobile phone is not supported. * If you have any questions about pairing or need assistance, ask your dispenser.





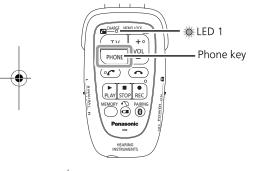


Put the Hearing Hub into standby mode.

Note:

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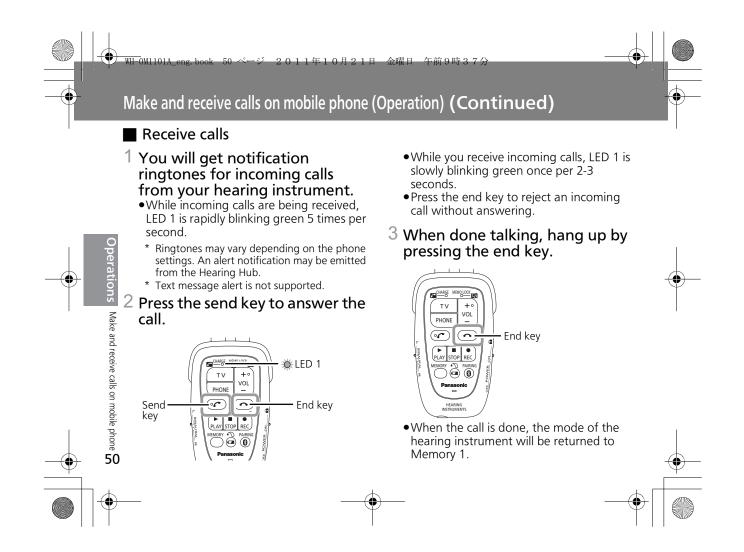
The Hearing Hub is connected to the mobile phone through Bluetooth[®].



 Connect your mobile phone to the Hearing Hub through Bluetooth[®].

- •See the instructions that came with the mobile phone.
- •The two devices must be paired. Turn on the Hearing Hub, so it will automatically connect to the mobile phone through Bluetooth[®], and the phone will go into standby mode.
- If Bluetooth[®] connection is disabled due to poor signal reception, press the phone key for reconnection.
- •Once the Hearing Hub and mobile phone are connected to each other through Bluetooth[®], LED 1 will be slowly blinking green once per 2-3 seconds.





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Make calls

Dial the numbers.

• Depending on the make and model of mobile phones, you might need to set up or operate your mobile phone, so you can pick up the call from your mobile phone and switch it to Hearing Hub. For details, see the instructions that came with the mobile phone.

- 2 You will hear the ringback tone from your hearing instrument.
- 3 When someone answers it, start talking.

4 When done talking, hang up by pressing the end key.



•When the call is done, the mode of the hearing instrument will be returned to Memory 1.

Operations

1 Make and receive calls on mobile phone

Make and receive calls on mobile phone (Operation) (Continued)

Volume adjustment

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and receive calls on mobile phone

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You can adjust the phone volume such as ringtone, ringback tone and conversation by following the instructions below.

Use the volume keys to turn the volume up or down.

•The volume control provides 17 adjustable volume levels. A notification sound is not made from the hearing instrument.

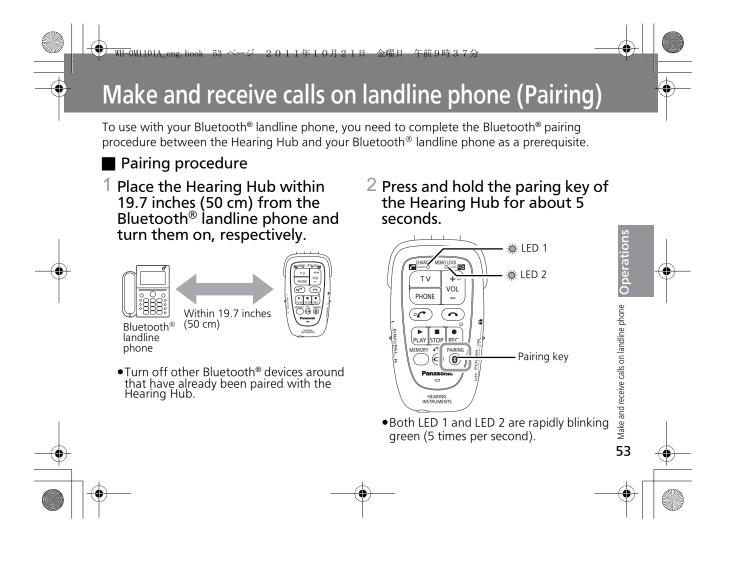
• Press and hold the volume key, so the volume is consecutively changing by itself at 1-second interval.

•When the hearing instrument or Hearing Hub is turned off and then back on again, the volume remains unchanged since it was last adjusted.

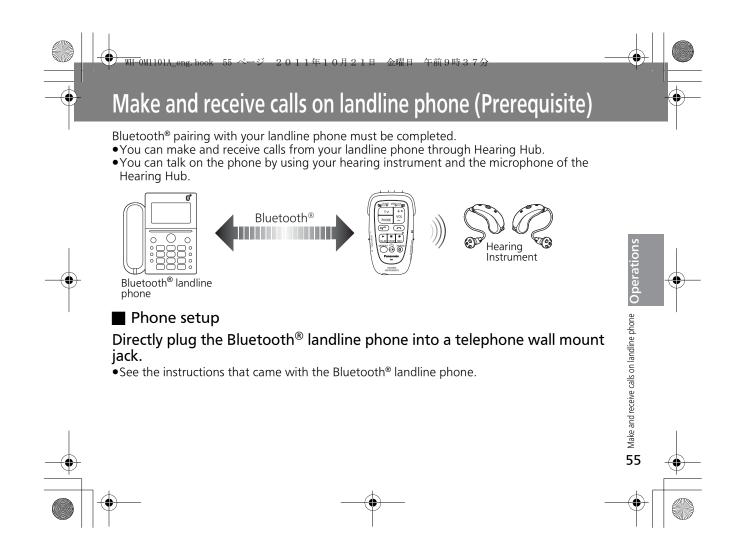
•Adjusting the phone volume such as ringtone, ringback tone and conversation does not affect the volume of the hearing instrument.

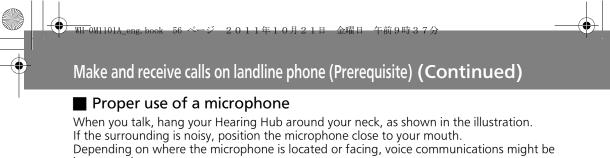
Adjust the volume on mobile phone

•See the instructions that came with the mobile phone. Some mobile phone models may not allow you to adjust the volume.



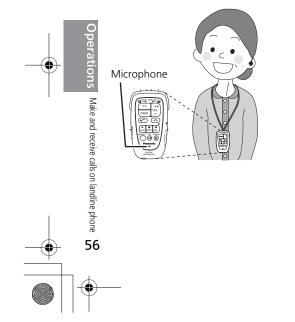






interrupted.

Try changing the position of the microphone if you experience poor communication.







Put the Hearing Hub into standby mode.

Note:

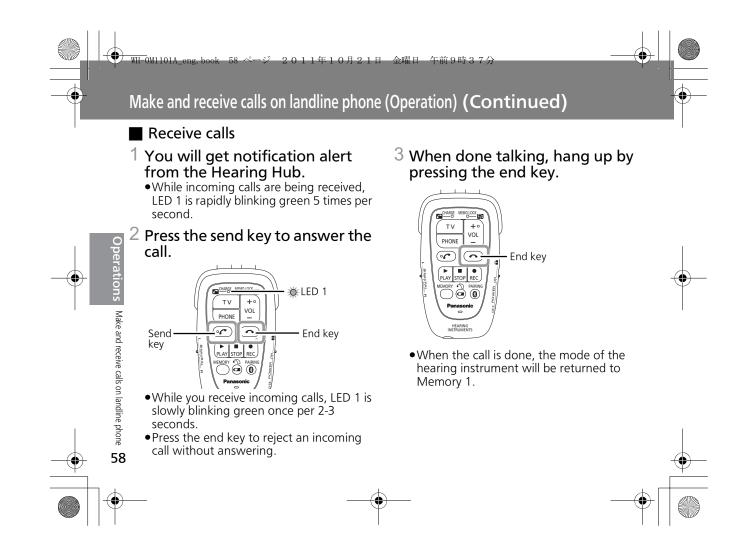
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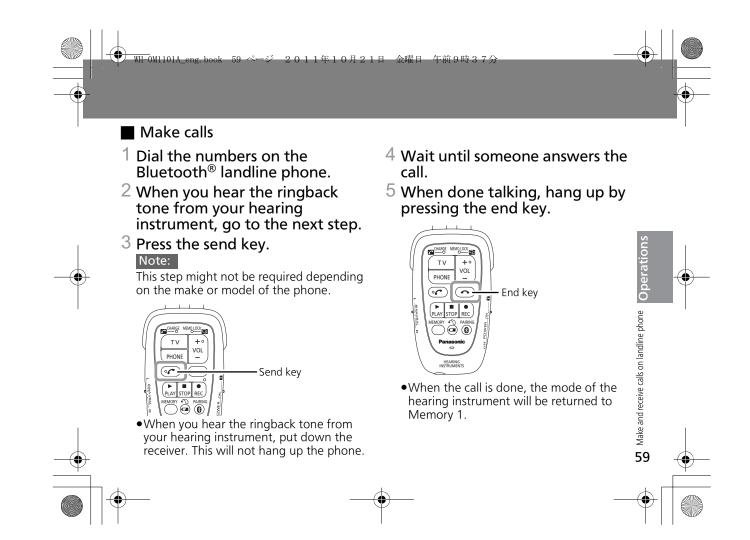
The Hearing Hub is connected to the landline phone through Bluetooth[®].



- The two devices must be paired. Turn on the Hearing Hub, so it will automatically connect to the Bluetooth[®] landline phone, and the phone will go into standby mode.
- If Bluetooth[®] connection is disabled due to poor signal reception, press the phone key for reconnection.
- Once the Hearing Hub and Bluetooth[®] landline phone are connected to each other through Bluetooth[®], LED 1 will be slowly blinking green once per 2-3 seconds.







Make and receive calls on landline phone (Operation) (Continued)

Volume adjustment

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Make and receive calls on landline phone

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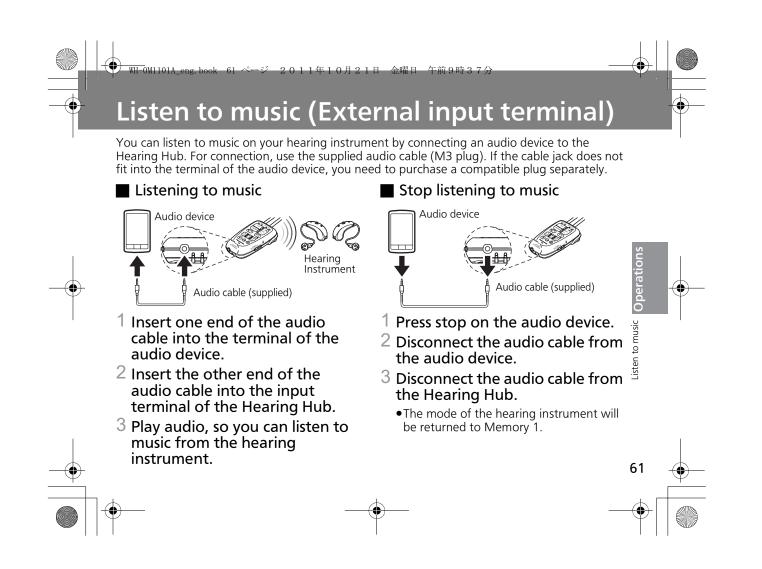
You can adjust the phone volume such as ringtone, ringback tone and conversation by following the instruction below.

Use the volume keys to turn the volume up or down.

- The volume control provides 17 adjustable volume levels. A notification sound is not made from the hearing instrument.
- Press and hold the volume key, so the volume is consecutively changing by itself at 1-second interval.

When the hearing instrument or Hearing Hub is turned off and then back on again, the volume remains unchanged since it was last adjusted.
Adjusting the phone volume such as ringtone, ringback tone and conversation does not affect

the volume of the hearing instrument.





Volume adjustment

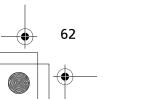
Adjust the music volume by following the instructions below.

Use the volume keys to turn the volume up or down.

- The volume control provides 17 adjustable volume levels. A notification sound is not made from the hearing instrument.
- Press and hold the volume key, so the volume is consecutively changing by itself at 1-second interval.
- •When the hearing instrument or Hearing Hub is turned off and then back on again, the volume remains unchanged since it was last adjusted.
 - •Adjusting music volume does not affect the volume of the hearing instrument.
 - •The volume level is the same as TV.

Adjust the volume of audio devices

•See the instructions that came with the audio device.



isten to music





Mix left and right audio channels

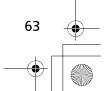
You can switch between stereo binaural hearing and L/R mix. In binaural stereo hearing, one channel is differentiated from the other. The split audio is directed from one stereo channel to one ear and from the other channel to the other ear. In the Hearing Hub, the binaural stereo mode is set as default. Those who are wearing a monaural hearing instrument can only hear the sound from one stereo channel in one ear because the other channel is disabled. In L/R mix, multiple sound sources are merged together to create a multi-dimensional sound, rich in depth and complexity. Regarding L/R mix setup, ask your dispenser for assistance.

Hearing instrument microphone

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You can set up the microphone of your hearing instrument as you can simultaneously listen to the sound from an audio device through your hearing instrument's microphone. For enabling or disabling the microphone, ask your dispenser for assistance.





Listen to music







Operations

Voice memo recording

65

Privacy laws and notice requirements for electronic recording of telephone conversations

There are both federal and state statutes governing the use of electronic, mechanical or other device recordings. The Federal Communications Commission (FCC) and many states have strict rules about recording telephone conversations. When the person answers, let the caller know right away that you are recording the call.

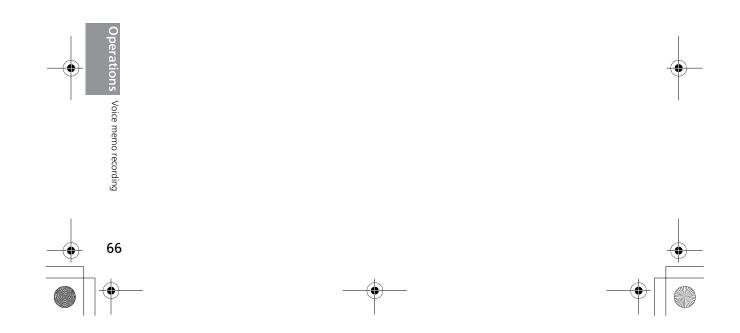
Copyright notice

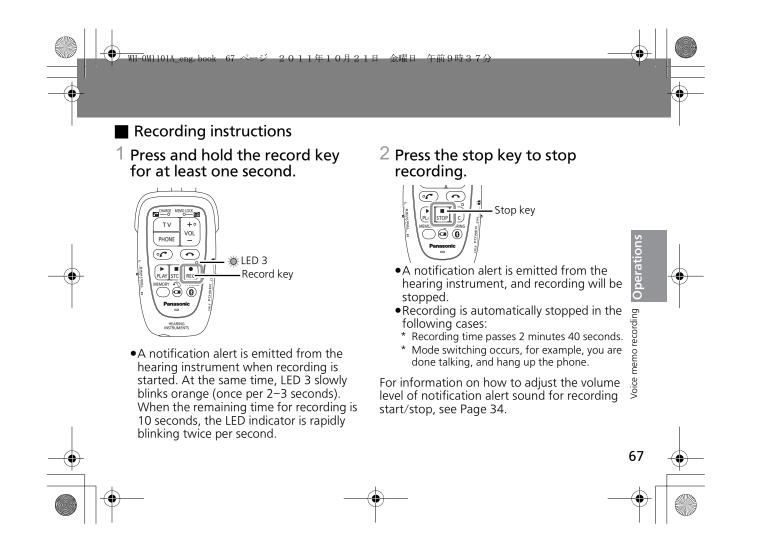
Music and lyrics are subject to copyright protection in the United States. Copyright law applies to recorded music - the musical work and the sound recording of that work. The musical work refers to the notes and lyrics of a song. The performance of the lyrics and melody fixed in a variety of formats, such as compact discs, vinyl records and digital downloads, are protected as the sound recording. The public performance of music includes broadcast radio transmissions or digital transmissions, such as AM or FM radio or satellite radio, digital, satellite television, Internet and live concerts.

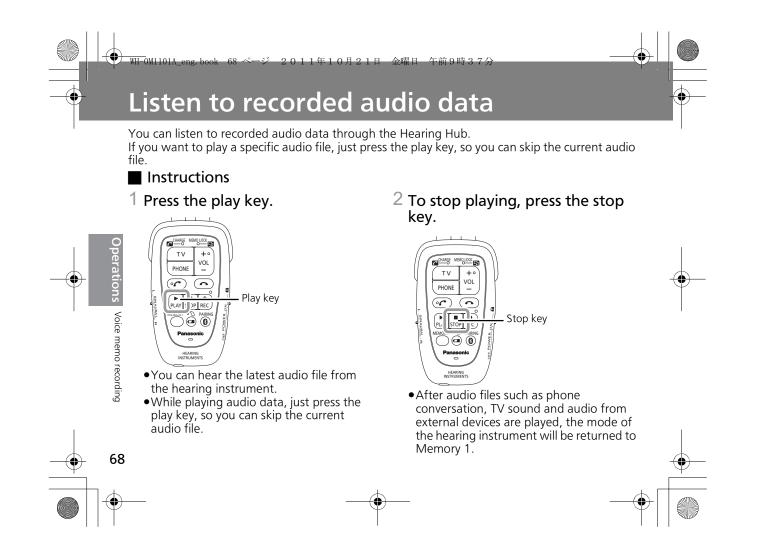
You may not modify, copy, reproduce, republish, upload, post, transmit, distribute or broadcast in anyway any material without the prior written permission of the owner of that content. You may not alter or remove any trademark, copyright or other notice from copies of the content.

You may record any materials with voice memo recording for your personal, non-commercial use only, provided you keep intact all copyright and other proprietary notices.











■ Volume adjustment

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You can adjust the playing sound volume by following the instruction below.

Use the volume keys to turn the volume up or down.

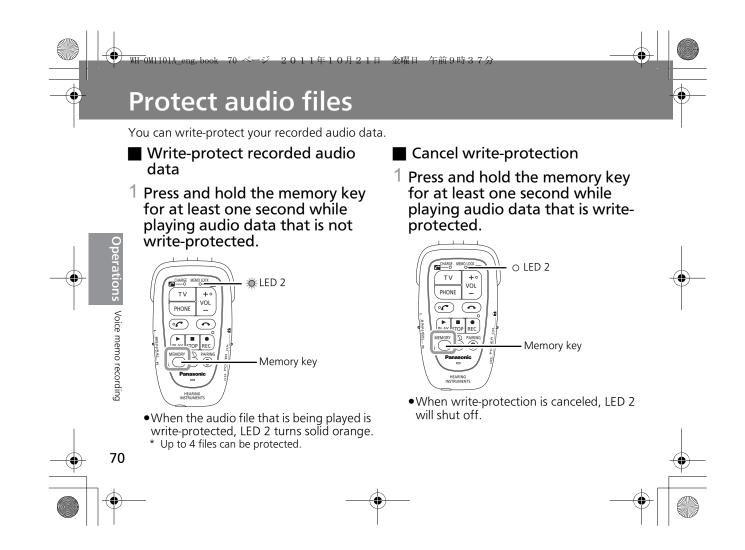
- •The volume control provides 17 adjustable volume levels. A notification sound is not made from the hearing instrument.
- Press and hold the volume key, so the volume is consecutively changing by itself at 1-second interval.
- When the hearing instrument or Hearing Hub is turned off and then back on again, the volume remains unchanged since it was last adjusted.
 Adjusting the playing sound volume does not affect the volume of the hearing instrument.

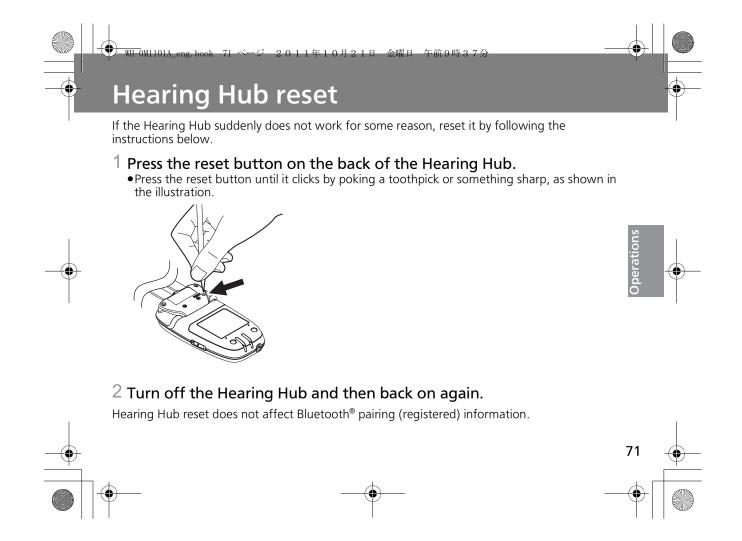


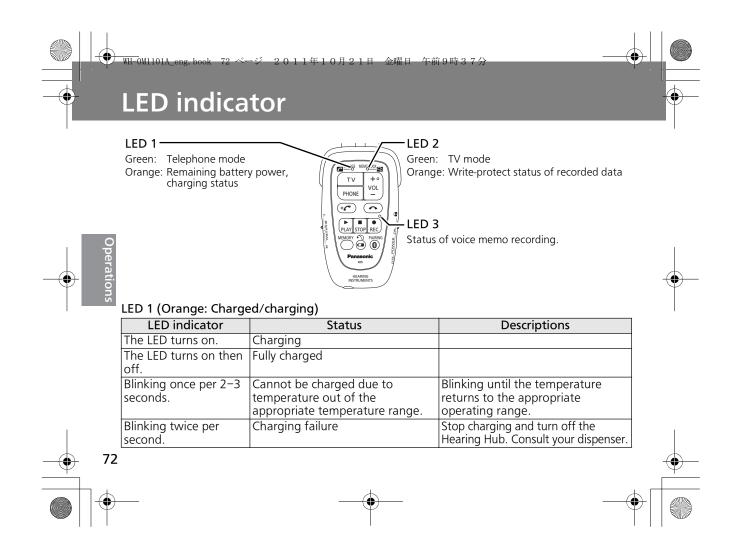
Operations

Voice memo recording











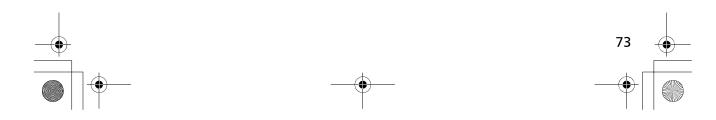
LED 1 (Orange: Remaining battery power/In use)

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4

LED indicator	Status	Descriptions
Blinking once per 2-3 seconds.		You have 7 minutes of power remaining (Varies depending on operating conditions).
Blinking twice per second.	Completely drained.	Recharge your Hearing Hub immediately.

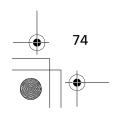
LED 2 (Orange: Write-	protection)		ons
LED indicator	Status	Descriptions	ati
The LED turns on.	Recorded data is being played (Protected).		Oper
The LED shuts off.	Recorded data is being played (Not protected).		
Blinking 5 times per second for 3 seconds.	The number of recording files reaches a maximum.	You have already write-protected the maximum number of files.	



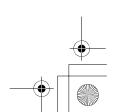
WII-OMI101A_eng. book 74 ページ 2011年10月21日 金曜日 午前9時37分 LED indicator (Continued)

LED 1 (Green: Phone mode)

	LED indicator	Status	Descriptions
	Blinking once per 2-3	Connected with a phone through	Either a mobile or landline phone is
	seconds.	Bluetooth [®] .	being connected through
		Sending a call	Bluetooth [®] .
		Talking	Sending a call or talking on either a mobile or landline phone.
Operations	Blinking 5 times per second.	Receiving a call.	Receiving a call on either a mobile or landline phone.
era	The LED shuts off.	Not connected with a phone	Neither a mobile or landline phone
1tic		through Bluetooth [®] .	is connected through Bluetooth [®] .
suc	Blinking twice per	Connected with a phone through	The Hearing Hub is too far away
	second.	Bluetooth [®] (Poor reception).	from a phone.



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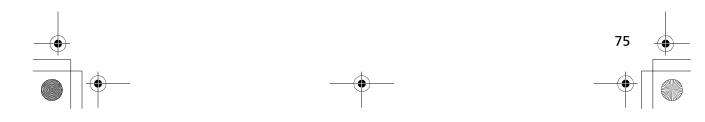
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LED 2 (Green: TV mode)

LED indicator	Status	Descriptions
Blinking once per 2–3	Connected with the Audio	
seconds.	Transmitter*1 through	
	Bluetooth [®] .	
The LED shuts off.	Not connected with the Audio	
	Transmitter*1 through	
	Bluetooth [®] .	
Blinking twice per	Connected with the Audio	The Hearing Hub is too far away
second.	Transmitter*1 through Bluetooth®	from TV.
	(Poor reception)	
LED 1 and LED 2 are si	multaneously blinking orange	

LED indicator	Status	Descriptions
The LED comes on for	The Hearing Hub is ON.	Once the Hearing Hub is activated,
3 seconds.		the LED will shut off.

*1 The Audio Transmitter is an optional accessory sold separately.



LED indicator (Continued)

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LED 1 and LED 2 are simultaneously blinking green

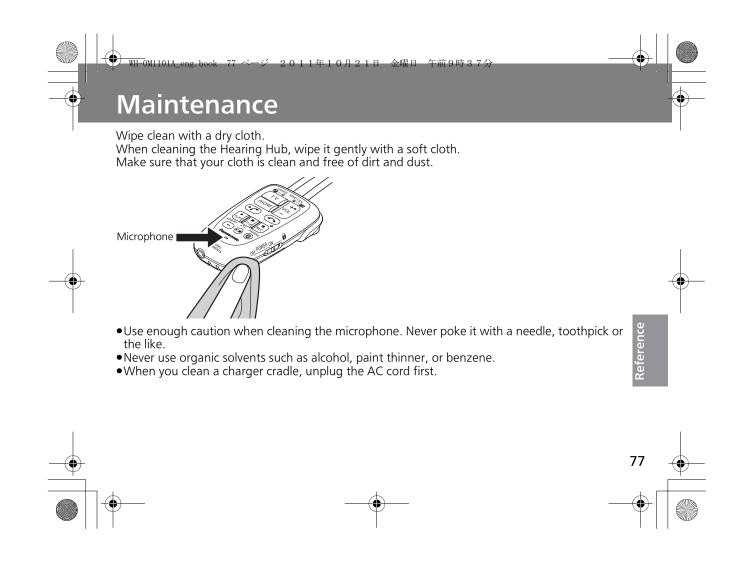
	LED indicator	Status	Descriptions]
	The LED is blinking 5 imes per second.	Pairing		
S	The LED comes on solid green for 3 seconds.	Registered information is being deleted.		
	The LED is blinking once per second.	Connecting to the Audio Transmitter ^{*1} or telephone through Bluetooth [®] .		
ons s	The LED comes on solid green for 2 seconds.	Connection with the Audio Transmitter ^{*1} or telephone through Bluetooth [®] has been completed.		

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LED 3 (Orange: recording)

LED indicator	Status	Descriptions
The LED is blinking	Recording	
once per 2–3 seconds.		
The LED is blinking	The remaining recording time is	
twice per second.	10 seconds.	

*1 The Audio Transmitter is an optional accessory sold separately.



Bluetooth[®] operation instructions

This product uses Bluetooth[®] module transmitter (Ver.2.1+EDR) with 79 channel operation within 2402–2480 MHz frequency band and has rated RF output power of class1. This transmitter is designed for compliance with FCC rules and for usage only within the United States.

Restrictions

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- •The Hearing Hub is designed to comply with United States regulations and is intended for use in the United States.
- Wireless Bluetooth[®] connection with any Bluetooth[®] enabled devices is not necessarily supported.
- Bluetooth[®] enabled mobile phone needs to be certified by the Bluetooth SIG, Inc. and be compliant with the standard. However, Bluetooth[®] certification does not guarantee the operation method, display, or behavior of the phone that fulfills the Bluetooth[®] requirements. The phone may not be able to be connected wirelessly due to the specifications and settings.
- The Hearing Hub meets the security requirements of Bluetooth® standards. However, security may not be enough due to usage conditions or settings.

• Panasonic is not responsible or liable for information leaks due to Hearing Hub malfunction or improper wireless connection.

Available distance

The Hearing Hub should be located within 98.4 feet (30 m) of audio sources (Bluetooth[®] enabled devices). However, this distance cannot be guaranteed. Wireless communication is affected by obstacles such as walls, buildings, human bodies or other in-between electronic devices. The communication distance can be shorter when they cause interference with the Hearing Hub.

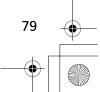


Interference from other devices

- Some electronic devices, if located nearby, may interfere with proper behavior of the Hearing Hub. When you use your Hearing Hub, keep a distance of at least 16.4 feet (5 m) from a microwave oven and wireless LAN devices.
- •The Hearing Hub may not work properly if there is a broadcast station in your area.
- If wireless LAN devices is placed within 16.4 feet (5 m) of your Hearing Hub and still the Hearing Hub behaves abnormally, disable LAN connection.

This Product is designed, developed and manufactured as contemplated for general use, including without limitation, general office use, personal use, household use, and ordinary industrial use, but is not designed, developed and manufactured as contemplated for use accompanying fatal risks or dangers that, unless extremely high safety is secured, could lead directly to death, personal injury, severe physical damage or other loss (hereinafter "High Safety Required Use"), including without limitation, nuclear reaction control in nuclear facility, aircraft flight control, air traffic control, mass transport control, medical life support system, missile launch control in weapon system. If customer's product possibly falls under the category of High Safety Required Use, consult with our sales representatives in charge before such use. In addition, FDTC shall not be liable against the Customer and/or any third party for any claims or damages arising in connection with the High Safety Required Use of the Product without permission.





Troubleshooting guide

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This section discusses a general approach to solving problems related to Hearing Hub handling and operations. The following table will help you narrow down the problem area, identify the source of the issue, and provide workarounds. If your problem is particularly sensitive or persistent, write down any error conditions encountered and detailed description, so your dispenser will figure out what's going on with your Hearing Hub.

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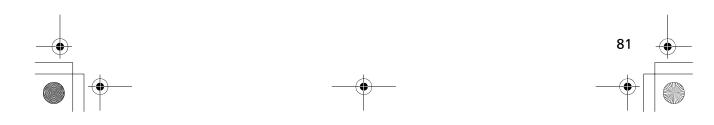
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	Symptom	Probable cause	Corrective action/Workaround	Page	
Troubleshooting guide	No sound is produced.	If the remaining battery power of the hearing instrument is low, Hearing Hub operation and audio signal reception will be disabled.	Replace the battery.	-	
		A neckloop antenna is not worn.	Wear a neckloop antenna around your neck.	28	•
		A neckloop antenna is not worn.	Wear a neckloop antenna around your neck.	28	
Reference	Noise is continuous or sound is	There are facilities or devices that emit strong electromagnetic wave located nearby.	Go out of that area.	-	
D	intermittent.	Your hearing instrument or Hearing Hub is placed in the location subject to radio frequency interference.	Change the position of your Hearing Hub.	-	
)				•
			_	-	

Symptom	Probable cause	Corrective action/Workaround	Page
	The power/hold switch is 🔒 or POWER OFF.	Slide the switch to POWER ON.	30 31
The hearing	The battery is running low on charge.	Recharge the battery.	26
instrument does not work.	A neckloop antenna is not worn.	Wear a neckloop antenna around your neck.	28
	There are facilities or devices that emit strong electromagnetic wave located nearby.	Go out of that area.	-
Pairing fails	The Hearing Hub is too far away from the Bluetooth [®] enabled device.	Keep a distance of 19.7 inches (50 cm) between the Hearing Hub and Bluetooth [®] enabled device.	39 45 53
	There are facilities or devices that emit strong electromagnetic wave located nearby.	Go out of that area and perform pairing again.	39 45 53

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Troubleshooting guide (Continued)

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You are not operating the Bluetooth® enabled device properly. Perform pairing again by referring to the manual that came with your Bluetooth® device. If the device allows you to use the Advanced Audio Distribution Profile (A2DP) of the Bluetooth® profile, disable A2DP. - You have entered the wrong passkey. The Hearing Hub is not put into pairing mode. See instructions of "Listen to TV audio (Pairing)", "Make and receive calls on mobile phone (Pairing)" or "Make and receive calls on landline
"Make and receive calls on landline 53
(Calls Of Mobile phone (Failing) Of 45
phone (Pairing)".
Pairing was performed as soon as the Hearing Hub was turned on. Pairing was performed as soon as the Hearing Hub was turned on. *If the Hearing Hub has been paired with the mobile or landline phone, and it is turned on, a Bluetooth® connection will be prioritized. A new pairing may be cancelled.

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Symptom	Probable cause	Corrective action/Workaround	Page	
You cannot hear any TV audio from your	The Hearing Hub is too far away from the Audio Transmitter* ¹ .	Make sure that your Hearing Hub is located within 98.4 feet (30 m) of the Audio Transmitter*1. Wireless communication is affected by indoor obstacles such as walls, furniture and other objects.	-	
hearing	The pairing has not been completed.	See instructions of "Listen to TV audio (Pairing)".	39	g guide
	The Audio Transmitter ^{*1} has been powered off.	Turn on the Audio Transmitter ^{*1} .	42	Troubleshooting guide
	The battery is running low.	Recharge the battery.	26	lee 🕀
Sending/	The Hearing Hub is too far away from the mobile phone.	Make sure that your Hearing Hub is located within 32.8 feet (10 m) of your mobile phone. Wireless communication is affected by indoor obstacles such as walls, furniture and other objects.	-	Reference Tro
	The Hearing Hub is too far away from the Bluetooth [®] landline phone.	Make sure that your Hearing Hub is located within 32.8 feet (10 m) of the Bluetooth [®] landline phone. Wireless communication is affected by indoor obstacles such as walls, furniture and other objects.	-	Refe
*1 The Audio Trans	smitter is an optional accessory sold	separately.		83

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Troubleshooting guide (Continued) Probable cause Corrective action/Workaround Symptom Page The pairing has not been See instructions of "Make and completed. receive calls on mobile phone 45 (Pairing)" or "Make and receive calls 53 on landline phone (Pairing)". The Hearing Hub is not connected The Hearing Hub must be Troubleshooting guide connected to the phone through to the phone through Bluetooth[®]. Bluetooth[®]. If LED 1 is slowly blinking green once per 2-3 seconds, Bluetooth[®] connection has been 49 created. If you are using two Sending/ 57 Receiving calls phones, either one may be only are disabled. allowed to be connected to the Hearing Hub. Press the phone key to Reference disconnect the phone then press the phone key again to reconnect. You are operating the phone the See the instructions that came with the phone. wrong way. Enable Bluetooth[®] on your mobile Bluetooth[®] is disabled on the mobile phone. phone. For details, see the 48 instructions that came with your mobile phone.

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Symptom	Probable cause	Corrective action/Workaround	Page
Sending/ Receiving calls	The phone is OFF.	Turn on the Bluetooth [®] enabled device.	-
are disabled.	The battery is running low.	Recharge the battery.	26
Your voice cannot be heard.	The surrounding is noisy.	Position the microphone close to your mouth.	48 56
positioned close	Your hearing instrument or Hearing Hub is placed in the location subject to radio frequency interference.	Change the position of your Hearing Hub.	48 56
	The surrounding temperature is too high or too low.	If the surrounding temperature is out of the appropriate charge temperature range (7 °C to 40 °C [44.6 °F to 104 °F]), charging may be disabled. *In that case, LED 1 is blinking orange once per 2-3 seconds.	72
	Your battery has reached its charge capacity.	Replace your rechargeable battery. Consult your dispenser.	27

Specifications

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Transport/Storage temperature	-10 °C to 50 °C [14 °F to 122 °F]
Transport/Storage relative humidity	20 % to 85 %
Classification	Internally powered equipment
	According to UL 60601-1:2003 R6.03
Battery	Built-in rechargeable battery: DC 3.6 V
Battery charge time	Approx. 3 hours (Varies depending on operating conditions and other factors)

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		Battery charge time		Approx. 3 hours (Varies depending on operating conditions and other factors)		
	Battery run time	Continuous TV watching	Approx. 8 hours (Varies depending on operating conditions and other factors)			
			Version	Bluetooth [®] Ver.2.1+EDR		
Ψ			RF power output	Class1 (Approx. 6 mW)	Ψ^{-}	
		Bluetooth®	Profile	Telephone: HFP (Hands-Free Profile) HSP (Headset Profile)		
	Re [.]	Diactootii	Wireless communication	2.4 GHz FH-SS (Frequency-hopping spread spectrum)		
	Reference		QDID (Qualification design ID) Bluetooth [®] qualification/ Certification	B017883		
		Available distance	Wireless communication between the Hearing Hub and other Bluetooth [®] enabled devices.	Approx. 98.4 feet (30 m) Wireless communication is affected by obstacles such as walls, buildings, human bodies or other in-between electronic devices. The communication distance can be shorter when they cause interference with the Hearing Hub. * For Bluetooth® Class 2, the available communication is up to a 32.8 feet (10 m) line-of-sight distance.		
-	86				—	



Operating temperature	0 °C to 40 °C [32 °F to 104 °F]
Charging temperature	7 °C to 40 °C [44.6 °F to 104 °F]
Dimensions (excluding neckloop antenna)	59 mm (W) × 101 mm (H) × 28 mm (D) [2.3″ (W) × 4.0″ (H) × 1.1″ (D)]
Mass (including neckloop antenna)	Approx. 123 g (4.3 oz)

		Power source	AC 110 V – 240 V, 50 Hz/60 Hz
	AC adaptor	Input	0.22 A
	AC adaptor	Output	DC 5.0 V 1.6 A
\rightarrow		Standby power	Less than 0.3 W

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Reference

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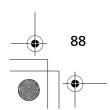
WI-OM1101A_eng. book 88 ページ 2011年10月21日 金曜日 午前9時37分 Warranty and customer service

Warranty

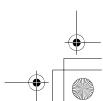
The Limited Warranty document is enclosed together in the package. Make sure that it is filled in with date of original purchase, name of dispenser, and other important information. Keep it in a secure place.

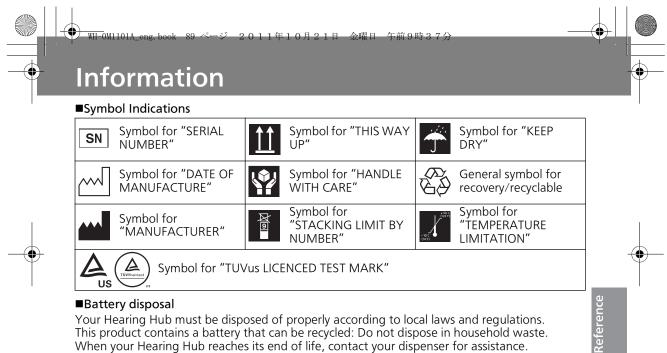
Customer Services Directory (United States) Obtain product information and operating assistance and locate the nearest dispenser by

Obtain product information and operating assistance and locate the nearest dispenser by visiting our website at: http://www.panasonic.com/hearing You may also contact us directly at: 1-888-422-6309

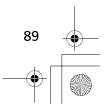


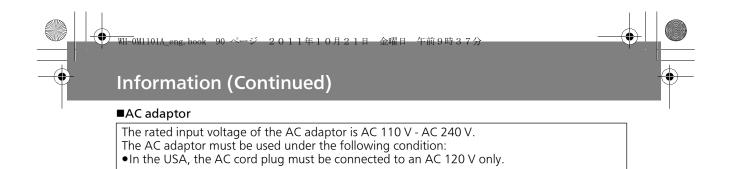
Reference

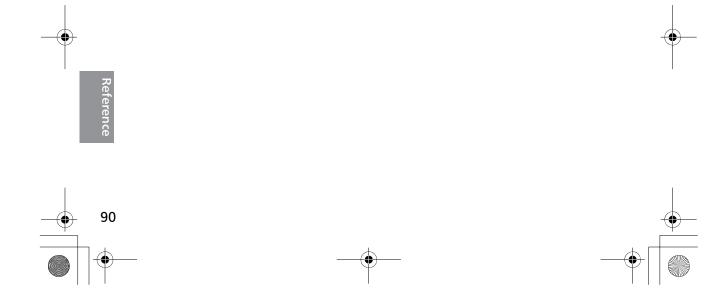




Your Hearing Hub must be disposed of properly according to local laws and regulations. This product contains a battery that can be recycled: Do not dispose in household waste. When your Hearing Hub reaches its end of life, contact your dispenser for assistance. The Hearing Hub is not designed to allow you to remove the battery.









FCC compliance

FCC ID: ACJ927152TX Contains FCC ID: ACJ927153TX

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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:

Reference

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- 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.

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For your reference (Fill out when you purchase your Hearing Hub)

Name of owner:

Model number:

Dispenser:

Dispenser address:

Dispenser phone:

*The serial number is printed on the package label.

Serial number*:

Purchase date:

[Distributor]

Panasonic Corporation of North America Healthcare Group One Panasonic Way, 1H-6, Secaucus, NJ 07094 Telephone No. 1-888-422-6309

[Manufacturer]

Panasonic Healthcare Co., Ltd. 247 Fukutake-ko, Saijo, Ehime 793-8510, Japan

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