



ReSound LiNX Quattro™

User guide

Custom hearing aids

GN Making Life Sound Better

resound.com

Hearing aid information

Left hearing aid		Right hearing aid	
Serial number		Serial number	
Model number		Model number	
Battery type	☐ CIC size 10A ☐ ITE size 13 ☐ ITC, ITE size 312 ☐ MIH size 13 ☐ MIH size 312		

Program	Beep	Description
1	One beep	
2	Two beeps	
3	Three beeps	
4	Four beeps	

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Introduction

Introduction

Thank you for choosing our hearing aids. We recommend that you use your hearing aids every day - this way you will fully benefit from them.

NOTE: Read this booklet carefully before you start using your hearing aids.

Intended use

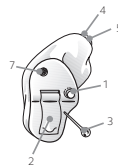
Generic air-conduction hearing aids are wearable sound-amplifying devices intended to compensate for impaired hearing. The fundamental operating principle of hearing aids is to receive, amplify, and transfer sound to the eardrum of a hearing impaired person.

Your hearing aid is a custom-made product.

Your hearing aid

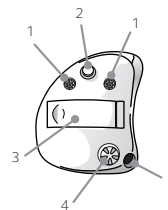
Your hearing aid - Completely In the Canal (CIC)

1. Push button (optional)
2. Battery door and On/Off switch
3. Removal cord (optional)
4. Sound outlet
5. Wax filter
6. Vent
7. Microphone sound inlet(s)
8. Manufacturer
9. Serial number



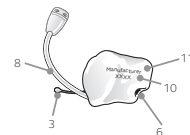
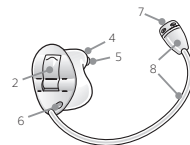
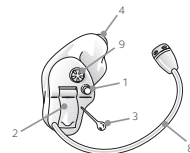
Your hearing aid - In the Canal (ITC)/In the Ear (ITE)

1. Microphone sound inlets
2. Push button (optional)
3. Battery door
4. Volume control (optional)
5. Vent



Your hearing aid - MIH (Microphone In Helix)

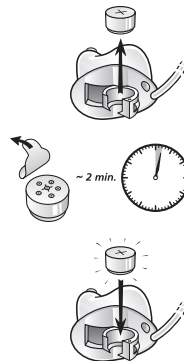
1. Push button (optional)
2. Battery compartment /On-Off switch
3. Removal cord (optional)
4. Sound outlet
5. Wax filter
6. Vent
7. Microphone sound inlet
8. Microphone in helix tubing
9. Volume control (optional)
10. Serial number
11. Manufacturer



How to get your hearing aid ready for use

Replacing the battery

1. Open the battery door completely by using your fingernail. Remove the used battery if present.
2. Prepare the new battery. Remove the protective foil to activate the battery. Wait for 2 minutes before inserting the battery into the hearing aid.
3. Insert the new battery with the positive side in the correct position. Always insert the battery in the door: never directly into the hearing aid. Gently close the battery door.



NOTE: To save battery power, turn off your hearing aids when they are not in use.

NOTE: At night, switch off the hearing aid and open the battery door completely to allow moisture to evaporate and prolong the hearing aid's lifespan.

NOTE: If the hearing aid is experiencing frequent loss of connection to wireless accessories, contact your hearing care professional for a list of low impedance batteries.

NOTE: Keep spare batteries on hand.

Battery warnings



WARNING: Batteries contain dangerous substances and should be disposed of carefully in the interest of your safety and for the environment. Please note:

1. Keep batteries away from pets, children and mentally challenged persons.
2. DO NOT place batteries in your mouth. Consult a physician immediately if a battery has been swallowed, as they can be harmful to your health.
3. Do not attempt to recharge batteries (Zinc-Air) which are not specifically designated as rechargeable because they may leak or explode.
4. DO NOT attempt to dispose of batteries by burning them.
5. Used batteries are harmful to the environment. Please dispose of them according to local regulations or return them to your hearing care professional.

 **WARNING:** Batteries may leak. Remove the battery if you leave the hearing aids unused for longer periods.

 **WARNING:** If the batteries are not inserted correctly, the device will not work and the batteries may build up heat. If this happens, please remove the batteries.

Low battery warning

When the batteries are low on power, your hearing aids reduce the volume, and play a melody every 15 minutes until they are empty and turn off.

Low battery indicator when paired with wireless accessories (optional)

The batteries drain faster when you use wireless functionalities like direct streaming from your iPhone or streaming sound from your TV with our TV Streamer. When the batteries deplete, the support of some wireless accessories shut down. Full functionality returns when you insert a new battery. The table below shows how the functionality decreases with the depletion of the batteries.

Battery level	Signal	Hearing aid	Remote control	Streaming
Fully charged		✓	✓	✓
Low		✓	✓	x
Depleted (change battery)		✓	x	x

How to place the hearing aids in your ears

Insert hearing aids

Insert Completely-In-The-Canal and In-The-Canal

1. Hold the hearing aid between your thumb and index finger, either above and below or on the sides.
2. Place the sound outlet portion into your ear canal. Turn the top part of the hearing aid gently backwards and forwards so that it tucks behind the fold of skin above your ear canal.
3. Insert the hearing aid into your ear canal. Opening and closing your mouth may ease insertion.



By experimenting, you may discover an easier method. With proper insertion, hearing aids should fit snugly but comfortably.



NOTE: It may be helpful to pull your ear up and outward with your opposite hand during insertion.

Insert Mic-In-Helix

1. Hold the hearing aid between your thumb and index finger.
2. Place the sound outlet portion into your ear canal.
3. Gently twist and push the hearing aid into your ear. Opening and closing your mouth can ease insertion.
4. Gently push the microphone into the creased area of the ear, and make sure the tubing is in place.



How to remove the hearing aids from your ears

Remove your hearing aids from the ear

Remove Mic-In-Helix and Completely-In-Canal

1. Hold the removal cord with your thumb and index finger and pull outward.
2. Hold the edges of the hearing aid with your thumb and forefinger and pull outward while slightly rotating your hand forward.



Remove In-The-Canal

1. Hold the edges of the hearing aid with your thumb and forefinger.
2. Pull outward while slightly rotating your hand forward.



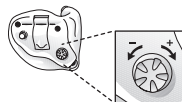
CAUTION: Never attempt to modify the shape of the hearing aid or tubing yourself.

How to use your hearing aids

Operation of the hearing aid

The volume control (if present) allows you to adjust the volume of your hearing aids to your liking.

1. To increase the volume, turn the volume control up (+).
2. To decrease the volume, turn the volume control down (-).



When you change the volume, the hearing aid responds with a beep. When you reach the upper or lower limits, the hearing aid responds with a low-pitched beep.



NOTE: If you have two hearing aids with the Synchronised Volume Control function enabled, volume control adjustments to one hearing aid automatically repeats in the second hearing aid. When you change volume on one of the hearing aids, it responds with one or more beeps. A beep in the second hearing aid follows.

NOTE: If your hearing aids support wireless Remote Control, you may use the supported Remote Control or the smartphone app to adjust e.g. the volume.

Push button (optional)

Your hearing aid has a push button allowing you to use up to four different listening programmes. The list on page 2 tells which programs have been enabled.

1. Tap the programme button to switch between programmes.
2. You will then hear one or more beeps. The number of beeps indicates which programme you have selected (one beep = programme one, two beeps = programme two, etc.).
3. When you turn the hearing aids off and then back on, they always return to the default setting (programme one and preset volume).



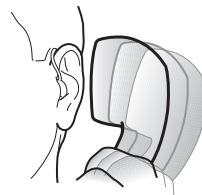
NOTE: If you have two hearing aids with the Synchronised Push Button enabled, programme changes to one hearing aid automatically repeats in the second hearing aid. The same number of confirmation beeps will follow in the second hearing aid. This Synchronised Push Button can also be configured to allow one side to control volume increase and the other to control volume decrease. The volume changes to one hearing aid are repeated on the other side to keep levels the same.

Telephone use

Your hearing aid allows you to use your telephone as you normally do. Finding the optimal position for holding a telephone may require practice.

The following suggestions may be helpful:

1. Dependent on your fitting and hearing status, either hold the telephone up to your ear canal or hold it close to the hearing aid microphones as illustrated.
2. If whistling occurs, try holding the telephone in the same position for a few seconds as the hearing aid may be able to cancel the whistling.
3. Holding the telephone slightly away from the ear can also stop any whistling.



NOTE: Depending on your individual needs, your hearing care professional may activate a programme specifically for telephone use.

How to use your hearing aids with iPhone, iPad and iPod touch (optional)

Your hearing aids are Made for Apple, and allow for direct communication and control with an iPhone, iPad or iPod touch.



NOTE: For assistance with pairing and using these products with your hearing aids, contact your hearing care professional.

Intended use of smartphone apps

Smartphone apps are intended to be used with your wireless hearing aids. Smartphone apps send and receive signals from the wireless hearing aids via smartphones for which the apps have been developed. Use with smartphone apps:

- Notifications of app updates should not be disabled, and it is recommended that the user installs all updates to ensure that the app will function correctly and up to date.
- The app must only be used with devices for which it is intended, and the manufacturer takes no responsibility if the app is used with other devices.
- If you would like a printed version of the user guide for a smartphone app, please consult customer support.

Mobile phones

Your hearing aid complies with the most stringent Standards of International Electromagnetic Compatibility. Any degree of disturbance can be due to the nature of your particular mobile phone or of your wireless telephone service provider.



NOTE: If you find it difficult to obtain a good result while using your mobile phone, your hearing care professional will be able to give you advice on available wireless accessories to enhance listening capabilities.

Advanced options

Phone Now

By placing a magnet on the telephone receiver, your hearing aids automatically switch the telephone programme on when the receiver is close to your ear. When you remove the receiver from your ear, the hearing aids automatically return to the previous listening programme.



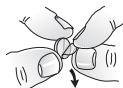
NOTE: Ask your hearing care professional to enable Phone Now as one of your programmes.

Place the Phone Now magnet

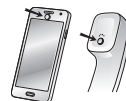
Place Phone Now magnet on your telephone receiver to allow operation of the Phone Now function. In order to place Phone Now magnet properly:



Clean the telephone thoroughly.



Remove foil from magnet.



Place the magnet.



NOTE: If you are not satisfied with the strength of Phone Now, you can reposition the Phone Now magnet or add additional Phone Now magnets.

NOTE: Prior to placing the magnet on the telephone or cell phone, use a recommended cleaning agent to clean the telephone.

How to use Phone Now

1. Lift the telephone to your ear.
2. When you hear a short melody, the phone programme is active.



NOTE: You may need to move the telephone receiver slightly to find the best position for reliable Phone Now activation and a good hearing experience on the telephone.

NOTE: If your hearing aids have enabled the Comfort Phone functionality, the hearing aid on the non-phone ear automatically turns down the volume.



NOTE: Ask your hearing care professional to enable Phone Now as one of your programmes.

NOTE: Do not cover the loudspeaker opening with the magnet.

NOTE: If the programme does not work to your satisfaction, moving the magnet to another position may improve ease of use and comfort while speaking.

NOTE: If the hearing aids do not switch to the telephone programme every time, you can reposition the magnet or add additional magnets.

NOTE: Use a recommended cleaning agent.

Phone Now warnings

1. If a magnet is swallowed, seek immediate assistance from a medical practitioner.
2. Keep magnets out of reach of pets, children and people with mental disabilities. If a magnet is swallowed, please seek advice from a medical practitioner.
3. The magnet may affect some medical devices or electronic systems. The manufacturer of any magnetically sensitive devices (e.g. pacemakers) should advise you regarding appropriate safety precautions when using your hearing aid and magnet in close proximity to the medical device or electronic system in question. If the manufacturer cannot issue a statement, we recommend keeping the magnet or a telephone equipped with the magnet 30 cm (12") away from magnetically sensitive devices (e.g. pacemakers).

Flight Mode (optional)

Your hearing aid allows you to control it from your smartphone or Remote Control. However, in some areas you are requested to turn off wireless communication.

 **WARNING:** When boarding a flight or entering an area where RF transmitters are prohibited, wireless functionality must be deactivated.

Follow these steps to turn off wireless mode:

1. For each hearing aid, open and close (open-close, open-close, open-close) the battery door three times within a 10-second period.
2. Double-dings for ten seconds ( etc.) indicate that your hearing aid is in Flight mode.

Follow these steps to activate wireless mode:

1. For each hearing aid, open and close the battery door once.
2. Your hearing aids are in wireless mode after 10 seconds.



NOTE: Both hearing aids must be set in Flight mode - even with synchronisation enabled.

NOTE: It is important to wait an additional 15 seconds after wireless function resumes before opening and closing the battery compartment again for any reason. Flight mode will resume if you open and close the battery compartment during this 15 second window.

Using your hearing aid with smartphone apps

Our smartphone apps are intended to be used with our wireless hearing aids. The smartphone apps send and receive signals from the hearing aids via smartphones.

- Do not disable app notifications.
- Install updates to keep the app working correctly.
- Only use the app with hearing aids from the same manufacturer. We take no responsibility if the app is used with other hearing aids.
- If you want a printed version of the smartphone app user guide, please go to our website at resound.com or consult customer support.



NOTE: For assistance with pairing and using these products with your hearing aids, please contact your hearing care professional or visit our support site.



NOTE: If you have a Bluetooth enabled smartphone, you are able to answer the telephone if you use ReSound Phone Clip+.

ReSound Assist (optional)

If you have signed up to use ReSound Assist, you can allow your hearing aids to be adjusted remotely without having to go to your hearing care professional: all you need is a smart device with Internet enabled. This allows you to experience unprecedented freedom and flexibility:

1. Request assistance remotely to adjust your hearing aids to be a better fit for you.
2. Keep your hearing aids up to date with the latest software to ensure the best performance possible.



NOTE: Your hearing aids shut down during the install and update process.

NOTE: For optimum performance, make sure the hearing aids are connected to the ReSound Smart 3D app and placed close to the iPhone or Android smartphone before applying the changes.

NOTE: This service only works if your smartphone is connected to the Internet.

NOTE: Your hearing care professional will provide information regarding this option, and how it works with the ReSound Smart 3D app.

How to clean and maintain your hearing aids

Daily maintenance



It is important to keep your hearing aid clean and dry. On a daily basis, clean the hearing aids using a soft cloth or tissue. In order to avoid damage due to humidity or excessive perspiration, the use of a drying kit is recommended.

How to replace wax filters

Custom hearing aids may have wax filters that protect against wax and moisture. It is recommended that these are changed as needed.

Change HF3 wax filters

1. Brush the sound outlet area with the sound outlet pointed down.
2. Insert the threaded end of the wax filter tool into the used wax filter, and gently rotate clockwise.
3. Gently pull until the used filter is removed.
4. Discard the used filter in the slot located in the wax filter kit by pressing it into the centre, sliding it to one end of the slot, and pull until the filter is discarded.
5. Flip the wax filter tool around, locate a new filter in the dial, and press the tip of the tool into the centre of the dial.

6. Gently pull the new filter out of the dial.
7. Align the new filter to the sound outlet.
8. Press the new filter into the opening, and simultaneously pull and rock back and forth until the new wax filter is in place.

Change Cerustop (white) wax filters

1. To remove the old wax guard, insert the removal side of the wax guard tool into the used wax guard so that the shaft of the tool is touching the rim of the wax guard. Slowly pull the wax guard straight out.
2. To insert the new wax guard, gently press the replacement side of the wax guard tool straight into the hole of the sound outlet until the outer ring lies flush with the outside of the receiver. Pull the tool straight out - the new wax guard will remain in place.



NOTE: Pressing on the new filter with the flat side of the wax filter tool can ensure that the filter is correctly in place.

NOTE: If a different type of wax filter is used for your hearing aids, or if your hearing aids do not use wax filters, consult your hearing care professional for guidance.



CAUTION: Use only original consumables from the manufacturer e.g. wax filters.

Care and maintenance

Please follow the advice below to have the best user experience and to prolong the life of your hearing aids.

1. Keep your hearing aids dry and clean.
2. Wipe the hearing aids with a soft cloth after use to remove grease or moisture.
3. Do not wear your hearing aids when putting on cosmetics, perfume, aftershave, hairspray, suntan lotion, etc. These might discolour the hearing aid or get into the hearing aid causing damage.
4. Do not immerse your hearing aid in any liquid.
5. Keep your hearing aids away from excessive heat and direct sunlight. The heat may deform the shell, damage the electronics and deteriorate the surfaces.
6. Do not swim, shower or steam bathe while wearing your hearing aids.

Wireless accessories

Wireless accessories

ReSound's wireless eco-system features a comprehensive range of seamlessly integrated wireless accessories. This allows you to control and stream high quality stereo sound and speech directly to your hearing aids.

Please find the list of available wireless accessories below:

- **ReSound TV Streamer 2** allows you to stream the audio from TV sets and virtually any other audio source to your hearing aids at a volume level that suits you.
- **ReSound Remote Control 2** allows you to adjust the volume or mute your hearing aids, change programmes, and see all your settings at a glance on its display.
- **ReSound Phone Clip+** streams phone conversations and stereo sound directly to both hearing aids, and it doubles as a simple remote control.
- **ReSound Micro Mic** is a body worn microphone for your friend or colleague. It significantly improves speech understanding in noisy situations.
- **ReSound Multi Mic** works like the **ReSound Micro Mic** but doubles as a table microphone, connects with loop and FM systems, and has a mini-jack input for streaming audio from a computer or music player.



Ask your hearing care professional for more information on the range of ReSound wireless accessories.

For use of wireless functionality only use ReSound wireless accessories. For further guidance, please refer to the user guide of the relevant ReSound wireless accessory.

Tinnitus Management

Tinnitus Sound Generator module

Your hearing aid includes the Tinnitus Sound Generator (TSG) module, a tool for generating sounds to be used in tinnitus management programmes to relieve suffering from tinnitus. The TSG can generate sounds adjusted to the specific therapeutic needs and your personal preference as determined by your doctor, audiologist, or hearing care professional. Depending on the selected hearing aid programme and the environment you are in, you will sometimes hear the therapeutic sound resembling a continuous or fluctuating noise.

Indications for use of the TSG module

The Tinnitus Sound Generator Module is a tool to generate sounds to be used in a Tinnitus Management Program to relieve patients suffering from Tinnitus. The target population is primarily the adult population over 18 years of age. This product may also be used with children 5 years of age or older.

The Tinnitus Sound Generator Module is targeted for healthcare professionals, which are treating patients suffering from Tinnitus, as well as conventional hearing disorders. The fitting of the Tinnitus Sound Generator Module must be done by a hearing professional participating in a Tinnitus Management Program.

User instructions for the TSG module

Description of device

The Tinnitus Sound Generator (TSG) Module is a software tool that generates sounds to be used in tinnitus management programmes to relieve suffering from tinnitus.

Explanation on how the device works

The TSG module is a frequency and amplitude shaped white-noise generator. Noise signal level and frequency characteristics can be adjusted to the specific therapeutic needs as determined by your doctor, audiologist or hearing care professional.

Your doctor, audiologist or hearing care professional can modulate the generated noise with the purpose of making it more pleasant. The noise can then resemble, for example, breaking waves on a shore.

Modulation level and speed can also be configured to your likes and needs. An additional feature can be enabled by your hearing care professional that allows you to select predefined sounds that simulate sounds from nature, such as breaking waves or running water.

If you have two wireless hearing aids that support ear-to-ear synchronization, this functionality can be enabled by your hearing care professional. This will cause the Tinnitus Sound Generator to synchronize the sound in both hearing aids.

If your tinnitus troubles you only in quiet environments, your doctor, audiologist or hearing care professional can set the TSG Module so that it becomes audible exclusively in such surroundings. The overall sound level can be adjusted via a volume control. Your doctor, audiologist or hearing care professional will review with you the need for having such a control.

For hearing aids where ear-to-ear synchronization is enabled your hearing care professional can also enable environmental monitoring synchronization so that the TSG noise level is automatically adjusted simultaneously in both hearing aids dependent on the background sound level. Additionally since the hearing aid has a volume control then the background noise level monitored by the hearing aid and the volume control can be used simultaneously to adjust the generated noise level in both hearing aids.

The scientific concepts that form the basis for the device

The TSG module provides sound enrichment with the aim of surrounding the tinnitus sound with a neutral sound, which is easily ignored. Sound enrichment is an important component of most approaches to tinnitus management, such as Tinnitus Retraining Therapy (TRT).

To assist habituation to tinnitus, this needs to be audible. The ideal level of the TSG module, therefore, should be set so that it starts to blend with the tinnitus, and so that you can hear both your tinnitus as well as the sound used.

In a majority of instances, the TSG module can also be set to mask the tinnitus sound, so to provide temporary relief by introducing a more pleasant and controllable sound source.

TSG volume control

The sound generator is set to a specific loudness level by the hearing care professional. When switching the sound generator on, the volume will have this optimal setting. Therefore, it might not be necessary to control the volume (loudness) manually. However, the volume control provides the ability to adjust the volume, or amount of stimulus, to the liking of the user.

The volume control is an optional feature in the TSG module used for adjusting the sound generator output level.

Using TSG with smartphone apps

The tinnitus sound generator control via hearing aid push buttons can be enhanced with wireless control from a TSG control app on a smartphone or mobile device. This functionality is available in supported hearing aids when a hearing care professional has enabled the TSG functionality during fitting of the hearing aid.



NOTE: To use smartphone apps, the hearing aid must be connected with the smartphone or mobile device.

Technical specifications

Audio signal technology

Digital.

Available sounds

White noise signal which can be shaped with the following configurations: The white noise signal can be modulated in amplitude with an attenuation depth of up to 14 dB.

High-pass filter	Low-pass filter
500 Hz	2000 Hz
750 Hz	3000 Hz
1000 Hz	4000 Hz
1500 Hz	5000 Hz
2000 Hz	6000 Hz
-	8000 Hz



Prescription use of a Tinnitus Sound Generator hearing aid

The TSG module should be used as prescribed by your doctor, audiologist or hearing healthcare professional. In order to avoid permanent hearing damages, the maximum daily usage depends on the

level of the generated sound.

Should you develop any side effects from using the sound generator, such as dizziness, nausea, headaches, perceived decrease in auditory function or increase in tinnitus perception, you should discontinue use of sound generator and seek medical evaluation.

The target population is primarily the adult population over 18 years of age. This product may also be used with children 5 years of age or older. However, children and physically or mentally challenged users will require training by a doctor, audiologist, hearing healthcare professional or the guardian for the insertion and removal of the hearing instrument containing the TSG module.

Important notice for prospective sound generator users

A tinnitus masker is an electronic device intended to generate noise of sufficient intensity and bandwidth to mask internal noises. It is also used as an aid in hearing external noises and speech.

Good health practice requires that a person with a tinnitus condition have a medical evaluation by a licensed physician (preferably a physician who specializes in diseases of the ear) before using a sound generator. Licensed physicians who specialize in diseases of the ear are often referred to as otolaryngologists, otologists or otorhinolaryngologists.

The purpose of medical evaluation is to assure that all medically treatable conditions that may affect tinnitus are identified and treated before the sound generator instrument is used.

The sound generator instrument is a tool to generate sounds to be used with appropriate counselling and/or in a tinnitus management programme to relieve patients suffering from tinnitus.



Tinnitus Sound Generator warnings

1. Sound generators should be used only as advised by your doctor, audiologist, or hearing care professional.
2. Sound generators are not toys and should be kept out of reach of anyone who might cause themselves injury (especially children and pets).
3. Sound generators can be dangerous if improperly used.



Tinnitus Sound Generator precautions

1. Should the user develop any side effects from using the sound generator, such as dizziness, nausea, headaches, perceived decrease in auditory function or increase in tinnitus perception, the user should discontinue use of the sound generator and seek medical evaluation.
2. The volume control is a feature in the TSG module used for adjusting the sound generator output level. To prevent unintended usage by paediatric or physically or mentally disabled users, the volume control must be configured to only provide a decrease of the sound generator output level.
3. Children and physically or mentally disabled users will require guardian supervision while wearing the TSG hearing aid.



Tinnitus Sound Generator warning to hearing care professionals

A hearing care professional should advise a prospective sound generator user to consult promptly with a licensed physician (preferably an ear specialist) before getting a sound generator.

If the hearing care professional determines through inquiry, actual observation, or review of any other available information concerning the prospective user that the prospective user has any of the following conditions:

1. Visible, congenital or traumatic deformity of the ear.
2. History of active drainage from the ear within the previous 90 days.
3. History of sudden or rapidly progressive hearing loss within the previous 90 days.
4. Acute or chronic dizziness.
5. Unilateral hearing loss of sudden or recent onset within the previous 90 days.
6. Audiometric air-bone gap equal to or greater than 15 dB at 500 Hertz (Hz), 1,000 Hz, and 2,000 Hz.
7. Visible evidence of significant cerumen accumulation or a foreign body in the ear canal.
8. Pain or discomfort in the ear.



CAUTION: The maximum output of the sound generator falls into the range that can cause hearing loss according to OSHA regulations. In accordance with NIOSH recommendations, the user should not use the sound generator for more than eight (8) hours a day when this is set to a level of 85 dB SPL or above. When the sound generator is set to levels of 90 dB SPL or above the user should not use the sound generator for more than two (2) hours per day. In no case should the sound generator be worn at uncomfortable levels.

General warnings

General warnings

1. Consult a hearing care professional if you think there may be a foreign object in your ear canal, if you experience skin irritation, or if excessive earwax accumulates with the use of the hearing aid.
2. Different types of radiation, from e.g. NMR, MRI, or CT scanners, may damage hearing aids. It is recommended not to wear hearing aids during these or other similar procedures. Other types of radiation, such as burglar alarms, room surveillance systems, radio equipment, mobile telephones, contain less energy and will not damage hearing aids. However, they have the potential to momentarily affect the sound quality or temporarily create undesired sounds from the hearing aids.
3. Do not wear hearing aids in mines, oil fields, or other explosive areas unless those areas are certified for hearing aid use.
4. Do not allow others to use your hearing aids.
5. Hearing Aid usage by children or mentally disabled persons should be supervised at all times to ensure their safety. The hearing aid contains small parts that could be swallowed by children. Please be mindful not to leave children unsupervised with this hearing aid.
6. Hearing aids should be used only as prescribed by your hearing care professional. Incorrect use may result in sudden and permanent hearing loss.

7. Warning to hearing care professionals: Special care should be exercised in selecting and fitting hearing aids with maximum sound pressure level that exceeds 132dB SPL with an IEC 60711:1981 occluded ear simulator. There may be a risk of impairment of the remaining hearing.
8. Turn off your wireless functionality by using the flight mode in areas where radio frequency emission is prohibited.
9. If a hearing aid is broken, do not use it.
10. External devices connected to the electrical input must be safe according to the requirements of IEC 60601-1, IEC 60065, EN/IEC 62368-1, or IEC 60950-1, as appropriate (wired connection, for example HI-PRO), SpeedLink).



NOTE: Nominal RF output power transmitted is: CSX10: 2.5 dBm, CSX12, CSX13, CSI12 and CSI13: 1.36 dBm.

NOTE: For use of wireless functionality, only use supported wireless accessories. For further guidance regarding e.g. pairing, please refer to the user guide of the relevant wireless accessory.

General precautions

1. When wireless function is activated, the device uses low-powered digitally coded transmissions in order to communicate with other wireless devices. Although unlikely, nearby electronic

devices may be affected. In that case, move the hearing aid away from the affected electronic device.

2. Use only original consumables from the manufacturer, e.g. wax guards.
3. Only connect your hearing aids to accessories intended and qualified to be used with your hearing aids.

Hearing aid expectations

A hearing aid will not restore normal hearing and will not prevent or improve a hearing impairment resulting from organic conditions.

Consistent use of the hearing aid is recommended. In most cases, infrequent use does not permit you to obtain full benefit from it.

The use of a hearing aid is only part of hearing rehabilitation and may need to be supplemented by auditory training and instructions in lip-reading.

Troubleshooting

Troubleshooting guide

Symptom	Cause	Possible remedy
Feedback, "whistling"	Is the volume very loud?	Reduce it.
	Are you holding an object (e.g. a hat, a telephone receiver) close to the hearing aid?	Move your hand away to create more space between the hearing aid and the object.
	Is your ear full of wax?	Visit your physician.
No sound	Is the hearing aid turned on?	Switch it on.
	Is there a battery in the hearing aid?	Insert a new battery.
	Is the battery still good?	Replace with a new one.
	Is your ear full of wax?	Visit your physician.

Symptom	Cause	Possible remedy
Sound is distorted, spluttering or weak?	Is the battery dead?	Replace it with a new one.
	Is the battery dirty?	Clean it or replace it with a new one?
	Did your hearing aid get moist?	Use a desiccant.
Battery drains very quickly	Did you leave your hearing aid switched on for longer periods of time?	Always switch off your hearing aid when you are not using them, e.g. during the night.
	Is the battery old?	Check the date on the battery pack.

Warnings to hearing care professionals (US only)

A hearing care professional should advise a prospective hearing aid user to consult promptly with a licensed physician (preferably an ear specialist) before dispensing a hearing aid if the hearing care professional determines through inquiry, actual observation, or review of any other available information concerning the prospective user, that the prospective user has any of the following conditions:

1. Visible congenital or traumatic deformity of the ear.
2. History of active drainage from the ear within the previous 90 days.
3. History of sudden or rapidly progressive hearing loss within the previous 90 days.
4. Acute or chronic dizziness.
5. Unilateral hearing loss of sudden or recent onset within the previous 90 days.
6. Audiometric air-bone gap equal to or greater than 15 decibels at 500 Hertz (Hz), 1,000 Hz, and 2,000 Hz.

7. Visible evidence of significant cerumen accumulation or a foreign body in the ear canal.
8. Pain or discomfort in the ear.



Important notice for prospective hearing aid users (US only)

Following the medical evaluation, the physician will give you a written statement that states that your hearing loss has been medically evaluated and that you may be considered a candidate for a hearing aid. The physician will refer you to an audiologist or a hearing care professional, as appropriate, for a hearing aid evaluation.

The audiologist or hearing care professional will conduct a hearing aid evaluation to assess your ability to hear with and without a hearing aid. The hearing aid evaluation will enable the audiologist or hearing care professional to select and fit a hearing aid to your individual needs.

If you have reservations about your ability to adapt to amplification, you should inquire about the availability of a trial-rental or purchase-option programme. Many hearing care professionals now offer programmes that permit you to wear a hearing aid for a period of time for a nominal fee after which you may decide if you want to purchase the hearing aid.

Federal law restricts the sale of hearing aids to those individuals who have obtained a medical evaluation from a licensed physician. Federal law permits a fully informed adult to sign a waiver

statement declining the medical evaluation for religious or personal beliefs that preclude consultation with a physician. The exercise of such a waiver is not in your best health interest and its use is strongly discouraged.

Children with hearing loss (US only)

In addition to seeing a physician for a medical evaluation, a child with a hearing loss should be directed to an audiologist for evaluation and rehabilitation because hearing loss may cause problems in language development and the educational and social growth of a child. An audiologist is qualified by training and experience to assist in the evaluation and rehabilitation of a child with hearing loss.

Regulatory information

Warranties and repairs

The manufacturer provides a warranty on hearing aids in the event of defects in workmanship or materials, as described in applicable warranty documentation. In its service policy, the manufacturer pledges to secure functionality at least equivalent to the original hearing aid. As a signatory to the United Nations Global Compact initiative, the manufacturer is committed to doing this in line with environment-friendly best practices. Hearing aids therefore, at the manufacturer's discretion, may be replaced by new products or products manufactured from new or serviceable used parts, or repaired using new or refurbished replacement parts. The warranty period of hearing aids is designated on your warranty card, which is provided by your hearing care professional.

For hearing aids that require service, please contact your hearing care professional for assistance.

Hearing aids that malfunction must be repaired by a qualified technician. Do not attempt to open the case of hearing aids, as this will invalidate the warranty.

Statement

This device complies with part 15 of the FCC rules and ISSED rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference
2. This device must accept any interference received, including interference that may cause undesired operation.



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

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver

It is designed not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission and ISSED.

- Connect the equipment into an outlet on a circuit different from the one in which the receiver is connected

- Consult the dealer or an experienced radio/TV technician for help

Changes or modifications can void the user's authority to operate the equipment.

The products are in compliance with the following regulatory requirements:

- In EU: the device conforms to the Essential Requirements according to Annex I of Council Directive 93/42/EEC for medical devices (MDD)
- Hereby, GN ReSound A/S declares that the radio equipment types CSX10, CSX12, CSX13, CSI12 and CSI13 are in compliance with Directive 2014/53/EU
- The full text of the EU declaration of conformity is available at the following internet address: www.declarations.resound.com.
- In US: FCC CFR 47 Part 15, subpart C
- Other identified applicable international regulatory requirements in countries outside the EU and US. Please refer to local country requirements for these areas
- In Canada: these hearing aids are certified under the rules of ISSED
- Japanese Radio Law and Japanese Telecommunications Business Law Compliance. This device is granted pursuant to the Japanese Radio Law (電波法) and the Japanese telecommunications

Business Law (電気通信事業法) This device should not be modified (otherwise the granted designation number will become invalid)

Type designations

Hearing aid type designations for models included in this user guide are:

CSX12, FCC ID: X26CSX12, IC: 6941C-CSX12; **CSX13**, FCC ID: X26CSX13, IC: 6941C-CSX13; **CSI12**, FCC ID: X26CSI12, IC: 6941C-CSI12; and **CSI13**, FCC ID: X26CSI13, IC: 6941C-CSI13, and **CSX10**, FCC ID: X26CSX10, IC: 6941C-CSX10.

This device operates in the frequency range of 2.4 GHz - 2.48 GHz. This device includes an RF transmitter that operates in the range of 2.4 GHz - 2.48 GHz.

Symbols

Be aware of information marked with the warning symbol::



WARNING points out a situation that could lead to serious injuries.



CAUTION indicates a situation that could lead to minor and moderate injuries.



Advice and tips on how to handle your hearing aid better.



Equipment includes an RF transmitter.



Follow instructions for use.



Please ask your local hearing care professional concerning disposal of your hearing aid.



NOTE: Country-specific regulations may apply.

Hearing aid variants

Hearing aid variants

Completely-in-the-canal (CIC) hearing aids (including type CSX10 with FCC ID X26CSX10, IC number 6941C-CSX10 models designated by a "W") with size 10A battery are available in the following variants:

RE9CIC-W-LP, RE9CIC-W-MP, RE9CIC-W-HP, RE9CIC-W-UP, RE7CIC-W-LP, RE7CIC-W-MP, RE7CIC-W-HP, RE7CIC-W-UP, RE5CIC-W-LP, RE5CIC-W-MP, RE5CIC-W-HP, RE5CIC-W-UP.

In-the-canal (ITC) hearing aids (including type CSI12 with FCC ID X26CSI12, IC number 6941C-CSI12 models designated by a "W") with size 312 battery:

RE9ITC-DW-LP, RE9ITC-DW-MP, RE9ITC-DW-HP, RE9ITC-DW-UP, RE7ITC-DW-LP, RE7ITC-DW-MP, RE7ITC-DW-HP, RE7ITC-DW-UP, RE5ITC-DW-LP, RE5ITC-DW-MP, RE5ITC-DW-HP, RE5ITC-DW-UP.

In-the-ear (ITE) hearing aids (including type CSI13 with FCC ID X26CSI13, IC number 6941C-DCSI13 models designated by a "W") with size 13 battery, and In-the-ear hearing aids (including and type CSI12 with FCC ID X26CSI12, IC number 6941C-CSI12 models designated by a "W") with size 312 battery are available in the following variants:

RE9ITE-DW-MP, RE9ITE-DW-HP, RE9ITE-DW-UP, RE7ITE-DW-MP, RE7ITE-DW-HP, RE7ITE-DW-UP, RE5ITE-DW-MP, RE5ITE-DW-HP, RE5ITE-DW-UP.

Mic in Helix (MIH) hearing aids (including type CSX12 with FCC ID X26CSX12, IC number 6941C-CSX12 models designated by a “W”) with size 312 battery and Custom Mic in Helix hearing aids (including type CSX13 with FCC ID X26CSX13, IC number 6941C-CSX13 models designated by a “W”) with size 13 battery are available in the following variants:

RE9MIH-W-MP, RE9MIH-W-HP, RE9MIH-W-UP, RE7MIH-W-MP, RE7MIH-W-HP, RE7MIH-W-UP,
RE5MIH-W-MP, RE5MIH-W-HP, RE5MIH-W-UP.

Additional information

Technical specifications

Hearing aid model	Maximum output
	(Data in accordance with IEC60118-0 Edition3.0 2015-06, IEC60118-7 and ANSI S3.22-2009, supply Voltage 1.3V)
All Low Power (LP) models	114 dB SPL (typical)
All Medium Power (MP) models	118 dB SPL (typical)
All High Power (HP) models	120 dB SPL (typical)
All Ultra Power (UP) models	129 dB SPL (typical); 128 dB SPL (typical)*

* For wireless CIC-models.

Acknowledgments

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Complies with
IMDA Standards
DA105282



Notes



Notes





Notes



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Any issues relating to the EU Medical Device Directive 93/42/EEC or EU Radio Equipment Directive 2014/53/EU should be directed to GN ReSound A/S.

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401175000GB- 19.04- Rev. A