<table>
<thead>
<tr>
<th>Left Hearing Aid</th>
<th>Right Hearing Aid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serial number</td>
<td>Serial number</td>
</tr>
<tr>
<td>Model number</td>
<td>Model number</td>
</tr>
</tbody>
</table>
| Battery size & form factor | IIC CIC ITC size 10A □
|                  | ITC ITE size 13 □
|                  | ITC ITE size 312 □
|                  | MIH size 13 □
|                  | MIH size 312 □
|                  | MIH-S size 10A □

Specific features supported by your hearing system:

- Smart Start on page 16
- Phone Now on page 26
- Telecoil on page 27
- Tinnitus Sound Generator on page 30

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

- DA312r, FCC ID: X26DA312r, IC: 6941C-DA312r; DA13r, FCC ID: X26DA13r, IC: 6941C-DA13r; DA312i, FCC ID: X26DA312i, IC: 6941C-DA312i; DA13i, FCC ID: X26DA13i, IC: 6941C-DA13i; and CSX10, FCC ID: X26CSX10, IC: 6941C-CSX10. Please see page 8 - 9 for a list of models referring to these types.

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

<table>
<thead>
<tr>
<th>Program</th>
<th>Beep</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>🎵</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>🎵🎵</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>🎵🎵🎵</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>🎵🎵🎵🎵</td>
<td></td>
</tr>
</tbody>
</table>
1 Introduction
Congratulations on the purchase of your new hearing aids. ReSound’s innovative sound technology and design, combined with the customized programming selected by your hearing care professional, will make hearing a more enjoyable experience.

Please read this manual carefully in order to wholly benefit from the use of your hearing aids. With proper care, maintenance, and usage, your hearing aids will serve you in better communication for many years.

Ask your hearing care professional if you have any questions.

2 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.

3 Becoming accustomed to amplification
While purchasing hearing aids is a major step, it is only one step in a process toward more comfortable hearing. Successfully adapting to the amplification your hearing aid provides takes time and consistent use.

You will enjoy more benefits from your ReSound hearing aids by taking the following actions:
- Wear the hearing aids regularly in order to get comfortable with using them.
- It takes time to get used to hearing aids. It may help to begin by wearing your hearing aid for short periods—e.g., as little as 15 minutes—and then gradually increasing your wearing time. In a way, it is no different from adjusting to contact lenses. Speak to your hearing care professional, who can design a schedule tailored just for you.
- As you get more comfortable with them, increase the wearing time and wear your hearing aids in multiple types of listening environments.

It may take as long as several months for your brain to get used to all the “new” sounds around you. Following these suggestions will give your brain time to learn how to interpret amplification and increase the benefits you get from using ReSound hearing aids.
Statement
This device complies with part 15 of the FCC rules and ISED 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 ISED rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from 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 comply with the following regulatory requirements:
• In US: FCC CFR 47 Part 15, subpart C.
• Other identified applicable international regulatory requirements in countries outside the US. Please refer to local country requirements for these areas.
• In Canada: these hearing aids are certified under the rules of ISED.
• 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).

Products comply with the following regulatory requirements:
• In US: FCC CFR 47 Part 15, subpart C.
• Other identified applicable international regulatory requirements in countries outside the US. Please refer to local country requirements for these areas.
• In Canada: these hearing aids are certified under the rules of ISED.
• 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).
Mic in Helix (MIH-S) hearing aid models with size 10A battery are available in the following variants: LT9MIH-S-UP, LT9MIH-S-HP, LT9MIH-S-HP, LT7MIH-S-UP, LT7MIH-S-HP, LT7MIH-S-HP, LT5MIH-S-UP, LT5MIH-S-HP, LT5MIH-S-HP, LT5MIH-S-LP.

Mic in Helix (MIH) hearing aids (including type DA312r with FCC ID X26DA312r, IC number 6941C-DA312r models designated by a “W”) with size 312 battery and Custom Mic in Helix hearing aids (including type DA312r with FCC ID X26DA312r, IC number 6941C-DA313r models designated by a “W”) with size 13 battery are available in the following variants: LT9MIH-W-UP, LT9MIH-W-HP, LT9MIH-W-MP, LT9MIH-W-LP, LT9MIH-UP, LT9MIH-HP, LT9MIH-MP, LT9MIH-LP, LT7MIH-W-UP, LT7MIH-W-HP, LT7MIH-W-MP, LT7MIH-W-LP, LT7MIH-UP, LT7MIH-HP, LT7MIH-MP, LT7MIH-LP, LT5MIH-W-UP, LT5MIH-W-HP, LT5MIH-W-MP, LT5MIH-W-LP, LT5MIH-UP, LT5MIH-HP, LT5MIH-MP, LT5MIH-LP.

Invisible-in-the-canal (IIC) and Completely-in-the-canal (CIC) hearing aids with size 10A battery (including type CSX10 with FCC ID X26CSX10, IC number 6941C-CSX10 models designated by a “W”) are available in the following variants: LT9IIC-LP, LT7IIC-LP, LT5IIC-LP, LT9CIC-UP, LT9CIC-HP, LT9CIC-MP, LT9CIC-LP, LT7CIC-UP, LT7CIC-HP, LT7CIC-MP, LT7CIC-LP, LT5CIC-UP, LT5CIC-HP, LT5CIC-MP, LT5CIC-LP, LT9CIC-W-HP, LT9CIC-W-MP, LT9CIC-W-LP, LT7CIC-W-HP, LT7CIC-W-MP, LT7CIC-W-LP, LT5CIC-W-HP, LT5CIC-W-MP, LT5CIC-W-LP.

In-the-canal (ITC) hearing aids with size 10A battery are available in the following variants: LT9ITC-UP, LT9ITC-HP, LT9ITC-MP, LT9ITC-LP, LT7ITC-UP, LT7ITC-HP, LT7ITC-MP, LT7ITC-LP, LT5ITC-UP, LT5ITC-HP, LT5ITC-MP, LT5ITC-LP.

In-the-ear (ITE) hearing aids (including type DA312i with FCC ID X26DA312i, IC number 6941C-DA312i models designated by a “W”) with size 13 battery and In-the-ear (ITE) hearing aids (including type DA312i with FCC ID X26DA312i, IC number 6941C-DA313i models designated by a “W”) with size 13 battery are available in the following variants: LT9ITE-DW-UP, LT9ITE-D-HP, LT9ITE-D-MP, LT9ITE-D-LP, LT7ITE-DW-UP, LT7ITE-D-HP, LT7ITE-D-MP, LT7ITE-D-LP, LT5ITE-DW-UP, LT5ITE-D-HP, LT5ITE-D-MP, LT5ITE-D-LP, LT9ITE-W-HP, LT9ITE-W-MP, LT9ITE-W-LP, LT7ITE-W-HP, LT7ITE-W-MP, LT7ITE-W-LP, LT5ITE-W-HP, LT5ITE-W-MP, LT5ITE-W-LP.
6 Descriptions

6.1 Your hearing aid - Microphone in Helix (LT MIH-S and LT MIH)
   1. Push button (optional)
   2. Battery compartment and 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. Model
   11. Manufacturer
   12. Serial number

6.2 Your hearing aid - Invisible in the Canal & Completely In the Canal (LT IIC and LT 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. Volume control (optional)
   9. Model
   10. Manufacturer
   11. Serial number
6.3 Your hearing aid - In the Canal (LT ITC)
1. Push button (optional)
2. Battery door and On/Off switch
3. Vent
4. Microphone sound inlet(s)
5. Volume control (optional)

6.4 Your hearing aid - In the Ear (LT ITE)
1. Push button (optional)
2. Battery door and On/Off switch
3. Sound outlet
4. Wax filter
5. Vent
6. Microphone sound inlet
7. Volume control (optional)
8. Model
9. Manufacturer
10. Serial number
7 Getting started

Once you have placed the hearing aids in your ears, you can turn them on.

The hearing aid always starts in program 1 (one) and with the pre-set volume:

7.1 On/Off function

1. Close the battery door to turn on the hearing aid in program 1 (one).
2. Open the battery door to turn off the hearing aid. Use your fingernail to pull it open.

7.1.1 Smart Start

Smart Start delays the time before the hearing aid turns on after you close the battery door. With Smart Start, you will hear a beep for each second of the delay period (5 or 10 seconds delay). If you do not want to turn on the hearing aids prior to placing them on your ear, ask your hearing care professional to de-activate Smart Start.

7.2 Inserting/Replacing the battery

1. Open the battery door completely by using your fingernail. Remove the used battery if present.
2. Prepare the new battery (please refer to page 2 for information on appropriate battery type/size for your hearing aid). Remove the protective foil to activate the battery.
3. Wait for 2 minutes before inserting the battery into the hearing aid.
4. 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.
5. Gently close the battery door.

1. Always use new Zinc-Air batteries that have a minimum remaining shelf life of 1 year.
2. Whenever the hearing aids are not in use, remember to turn them off to avoid unnecessary battery consumption.
3. At night, switch off the hearing aid by opening the battery door completely to allow moisture to evaporate and prolong the hearing aid’s lifespan.
4. If the hearing aid is experiencing frequent loss of connection to ReSound wireless accessories, contact your hearing care professional for a list of low impedance batteries.

WARNING: Batteries contain dangerous substances and should be disposed of carefully in the interest of your safety and for the environment. Also, keep batteries away from pets, children and mentally disabled persons.
7.3 Low battery indicator
The hearing aid will reduce amplification and play a melody if battery power gets too low. This signal will recur every 15 minutes until the hearing aid automatically switches off.

If you do not want the low battery warning, ask your hearing care professional to deactivate it.

NOTE: Keep spare batteries on hand.

7.3.1 Low battery indicator when paired with wireless accessories only (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 ReSound 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.

<table>
<thead>
<tr>
<th>Battery level</th>
<th>Signal</th>
<th>Hearing aid</th>
<th>Remote Control</th>
<th>Streaming</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fully charged</td>
<td>![Signal]</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Low</td>
<td>![Signal]</td>
<td>✓</td>
<td>✓</td>
<td>x</td>
</tr>
<tr>
<td>Depleted (change battery)</td>
<td>![Signal]</td>
<td>✓</td>
<td>x</td>
<td>x</td>
</tr>
</tbody>
</table>

7.4 Insert/remove hearing aids
7.4.1 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 the 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.
7.4.2 Insert Invisible-In-Canal, Completely-In-Canal, In-The-Canal, and In-The-Ear

1. Hold the hearing aid between your thumb and index finger, either above and below or on the sides. For IIC, there is a dot on the top side of the shell to show orientation for insertion.
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.

7.4.3 Remove Invisible-In-Canal, Completely-In-Canal, and Mic-In-Helix

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.
3. If Mic in Helix hearing aids do not have a removal cord, gently pull outward with the microphone tubing.

7.4.4 Remove In-The-Canal and In-The-Ear

1. Hold the edges of the hearing aid with your thumb and forefinger.
2. Pull outward while slightly rotating your hand forward.
7.5 Operation of the hearing aid
7.5.1 Volume control (optional)
Your hearing aid has automatic volume control, which is individually set during the fitting session. However, 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 Synchronized Volume Control function enabled, volume control adjustments to one hearing aid automatically repeats in the second hearing aid. When you change the volume on one of the hearing aids, it responds with one or more beeps. A beep in the second aid follows.

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

7.5.2 Push button (optional)
Your hearing aid has a program button allowing you to use up to four different listening programs. The list on page 2 tells which programs have been enabled.

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

NOTE: If you have two hearing aids with the Synchronized Push Button enabled, program changes to one hearing aid automatically repeats in the second hearing aid. When you change a program in one hearing aid, it responds with one or more beeps. The same number of confirmation beeps in the second aid follow. This Synchronized Push Button can also be configured to allow one side to control volume increase and the other side to control volume decrease. The volume changes to one hearing aid are repeated on the other side to keep the levels the same.
8 Telephone use

Your hearing aid allows you to use the telephone as you ordinarily do. Finding the optimal position for holding a telephone may require practice. One or more of the following suggestions may be helpful:

1. Hold the telephone up to your ear.
2. Hold the telephone towards the top of the ear (closer to where the microphones are).
3. If whistling occurs, it may take a few seconds of holding the telephone in the same position before the hearing aid eliminates the feedback.
4. Whistling may stop by holding the telephone slightly away from the ear.

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

8.1 Using ReSound Smart Hearing Aids with iPhone, iPad, and iPod touch (optional)

ReSound LiNX 3D are Made for Apple, and allow for direct communication and control with an iPhone®, iPad®, iPod touch® or Apple Watch®.

**NOTE:** For assistance with pairing and using these products with your ReSound LiNX 3D hearing aids, please contact your hearing care professional.

8.2 Using ReSound hearing aids with smartphone apps (optional)

Use with smartphone apps:

- Notifications of app updates should not be disabled, and it is recommended that you install updates to ensure that the app will function correctly and will be kept up to date.
- The app must only be used with ReSound devices for which it is intended, and ReSound 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 or go to our website at www.resound.com/support.

8.3 Cellular phones

Your hearing aid complies with the most stringent Standards of International Electromagnetic Compatibility. However, not all cell phones are hearing aid compatible (HAC).

Any degree of disturbance can be due to the nature of your particular cellular phone or of your wireless telephone service provider.

**NOTE:** If you find it difficult to obtain a good result while using your cellular phone, your hearing care professional will be able to give you advice on available wireless accessories to enhance listening capabilities.
8.4 Phone Now (not for Invisible-In-Canal)
The Phone Now function automatically switches your present listening program to your telephone program when a telephone receiver, equipped with a magnet, is close to your ear. When you remove the telephone receiver from your ear, the hearing aid automatically returns to the previous listening program.

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

1. Clean the telephone receiver thoroughly.
2. Hold the telephone vertically, in a position similar to when making a telephone call.
3. Place the magnets just below the telephone receiver. Make sure not to cover the microphone or speaker openings. If necessary, move the magnet to another position to improve ease of use and comfort while speaking.

**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.

8.4.2 Phone Now usage
1. Use your telephone in a normal manner.
2. A short melody indicates that the Phone Now feature has automatically switched on the telephone program.

**NOTE**: Initially, you may need to move the telephone receiver slightly to find the best position for reliable Phone Now activation and good hearing on the telephone.

If you have two hearing aids with enabled Comfort Phone functionality or Synchronized Volume Control, the hearing aid on the non phone ear automatically reduces the volume.

8.5 Telecoil (optional)
Your hearing aid may be equipped with a telecoil. The Telecoil program may help to improve speech understanding with Hearing Aid Compatible telephones and in theaters, cinemas, houses of worship etc. that has tele-loop installed.

The telecoil cannot work without a tele-loop (a.k.a. induction-loop) or a Hearing Aid Compatible (HAC) telephone. When you switch on the Telecoil program, your hearing aids pick up signals from the tele-loop or HAC telephone.

**NOTE**: If you are having trouble hearing with the tele-loop, ask your hearing care professional to adjust the program. **NOTE**: If there is no sound from the hearing aids in a tele-loop system and an active Telecoil program, the tele-loop system may not be turned on or is not operating correctly.
8.5.1 Tele loop systems

To use tele loop systems, follow these steps:

1. Switch your hearing aid to the Telecoil program.
2. Find a good spot. Reception is not clear in all locations; it depends on the induction loop. Look for signs or find another spot to sit.
3. If needed, adjust the volume.
4. When you leave, switch to program 1.

8.5.2 HAC Telephone

The telecoil picks up the HAC telephone’s telecoil signal and converts it to sound.

To use the HAC telephone, follow these steps:

1. Switch your hearing aid to the Telecoil program.
2. Pick up the telephone and place a call or answer a call.
3. Hold the telephone behind your ear – close to the hearing aid, and tilt it slightly outwards.
4. Listen to the dial tone and move the telephone to get the best reception.
5. If needed, adjust the volume.
6. When you hang up, switch to program 1.

NOTE: If the phone has a poor telecoil signal, use the microphone program. To avoid whistling, do not hold the handset too tightly against your ear.

8.6 Flight mode (optional)

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

Your LiNX 3D hearing aid allows you to control it from your smartphone or ReSound Remote Control. However, in some areas you are requested to turn off wireless communication.

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 synchronization enabled.

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

NOTE: Flight mode must be activated by clinician in order to be controlled.
9 Tinnitus Sound Generator (TSG) module

9.1 Intended use for the TSG module

Your ReSound hearing aid includes the Tinnitus Sound Generator function, a tool for generating sounds to be used in tinnitus management programs to relieve suffering from tinnitus.

The Tinnitus Sound Generator 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 program and the environment you are in, you will sometimes hear the therapeutic sound resembling a continuous or fluctuating whistling.

9.2 User instructions for the TSG module

9.2.1 Description of the device

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

9.2.2 Explanation of how the device functions

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, crashing 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 an optional 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 if 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.

9.2.3 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.
9.3 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 sup-
ported hearing aids when a hearing care professional has enabled the TSG functionality during fitting of
the hearing aid.

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

9.4 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 neu-
tral 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 tem-
porary relief by introducing a more pleasant and controllable sound source.

9.5 Technical Specifications
9.5.1 Audio signal technology
Your hearing aids use digital audio signal technology

9.5.2 Available sounds
White noise signal which can be shaped with the following configurations:

<table>
<thead>
<tr>
<th>High-pass filter</th>
<th>Low-pass filter</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 Hz</td>
<td>2000 Hz</td>
</tr>
<tr>
<td>750 Hz</td>
<td>3000 Hz</td>
</tr>
<tr>
<td>1000 Hz</td>
<td>4000 Hz</td>
</tr>
<tr>
<td>1500 Hz</td>
<td>5000 Hz</td>
</tr>
<tr>
<td>2000 Hz</td>
<td>6000 Hz</td>
</tr>
</tbody>
</table>

9.6 Prescription use of a Tinnitus Sound Generator (TSG) hearing aid
The TSG module should be used as prescribed by your doctor, audiologist or hearing care 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, head-
aches, perceived decrease in auditory function or increase in tinnitus perception, you should discontinue
use of the 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 disabled users will
require training by a doctor, audiologist, hearing care professional or the guardian for the insertion and
removal of the hearing aid 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 program to relieve patients suffering from tinnitus.

Wireless accessories

With ReSound wireless accessories, you can stream sound from your TV or music player directly to your ReSound hearing aids and you can also control them without wearing an intermediary device around your neck.

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

Please follow the instructions below to have the best user experience and to prolong the durability of your hearing aids:

1. Keep your hearing aid clean and dry. Wipe the case with a soft cloth or tissue after use to remove grease or moisture. Do not use water or solvents, as these can damage the hearing aid(s).
2. Never immerse hearing aids in water or other liquids, as liquids may cause permanent damage to the hearing aids.
3. Avoid rough handling of hearing aids or dropping them on hard surfaces or floors.
4. Do not leave hearing aids in or near direct heat or sunlight, such as in a hot, parked car, as excessive heat can cause damage or deform the casing.
5. Do not wear your hearing aid while showering, swimming, in heavy rain or in a moist atmosphere such as a steam bath or sauna.
6. If your hearing aid does get wet, or if it has been exposed to high humidity or perspiration, it should be left to dry out overnight with the battery out and the battery door open. It is also a good idea to put the hearing aid and battery in a sealed container together with a drying agent (desiccator) overnight. Do not use the aid until it is completely dry. Consult your hearing care professional as to which drying agent to use.
7. Remove your hearing aid when applying cosmetics, perfume, aftershave, hair spray, and suntan lotion. These might get into the aid and cause damage.

12.1 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.

12.2 Replacing wax filters

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

12.2.1 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 center, 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 center 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.
12.2.2 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.

**TIP:** 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 ReSound consumables e.g. wax filters.

13 **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 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. This may cause damage to the hearing aids or to the hearing of the other individual.
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. Be careful when boarding flights to deactivate the wireless functionality. Turn off your wireless functionality by using the flight mode in areas where radio frequency emission is prohibited.
9. If device is broken, do not use.
10. External devices connected to the electrical input must be safe according to the requirements of IEC 60601-1, IEC 60065, or IEC 60950-1, as appropriate (wired connection, for example HI-PRO, SpeedLink).

1. ReSound wireless devices include a RF transmitter that operates in the range of 2.4 GHz - 2.48 GHz.
2. For hearing aid types DA13i, DA13r, DA312i and DA312r nominal RF output power transmitted is 0 dBm.
3. For hearing aid type CSX10 nominal RF output power transmitted is 2.5 dBm.
4. For use of wireless functionality only use ReSound wireless accessories. For further guidance regarding e.g. pairing, please refer to the user guide of the relevant ReSound wireless accessory.

14. Using ReSound hearing aids with ReSound apps for smartphones

14.1 Intended use of ReSound apps for smartphones:
ReSound smartphone apps are intended to be used with ReSound wireless hearing aids. ReSound smartphone apps send and receive signals from the ReSound wireless hearing aids via smartphones for which the apps have been developed.

14.2 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. When using wireless functionality and the devices are affected by electromagnetic interference, move away from the source.
3. Use only original ReSound consumables e.g. tubes and domes.
4. Only connect ReSound hearing aids to ReSound accessories intended and qualified to be used with ReSound hearing aids.
15 Phone Now warnings
1. 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.
2. 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).

15.1 Phone Now precautions
1. High distortion during dialling or phoning may mean that the magnet is not in the optimal position relative to the telephone receiver. To avoid the issue, please move the magnet to another place on the telephone receiver.
2. Only use magnets supplied by ReSound.

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

16.1 TSG 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. Children and physically or mentally disabled users will require guard supervision while wearing the TSG hearing aid.
3. The volume control is an optional feature in the TSG module used for adjusting the sound generator output level. To prevent unintended usage by pediatric or physically or mentally challenged users, the volume control must, if enabled, be configured to only provide a decrease of the sound generator output level.

16.2 TSG 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 15dB at 500 hertz (Hz), 1000 Hz, and 2000 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 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.

**17 Battery warnings**

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.
6. Remove the batteries to prevent leakage when the hearing aids are not in use for an extended period of time.

**18 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 attain 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.
Warning to hearing aid 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)

Good health practice requires that a person with a hearing loss have a medical evaluation by a licensed physician (preferably a physician who specializes in diseases of the ear) before purchasing a hearing aid. 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 hearing are identified and treated before the hearing aid is purchased.

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 program. Many hearing care professionals now offer programs 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.
21 **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 since 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 a hearing loss.

22 **Technical Specs Section**

<table>
<thead>
<tr>
<th>Hearing aid model</th>
<th>Maximum output</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Data in accordance with IEC60118-0 Edition3.0 2015-06, IEC60118-7 and ANSI S3.22-2009, supply Voltage 1.3V)</td>
<td></td>
</tr>
<tr>
<td>All Low Power (LP) models</td>
<td>115 dB SPL (typical)</td>
</tr>
<tr>
<td>All Medium Power (MP) models</td>
<td>119 dB SPL (typical); 118 dB SPL (typical)*</td>
</tr>
<tr>
<td>All High Power (HP) models</td>
<td>121 dB SPL (typical); 120 dB SPL (typical)*</td>
</tr>
<tr>
<td>All Ultra Power (UP) models</td>
<td>130 dB SPL (typical)</td>
</tr>
</tbody>
</table>

* for wireless CIC models
## Troubleshooting guide

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<thead>
<tr>
<th>SYMPTOM</th>
<th>CAUSE</th>
<th>POSSIBLE REMEDY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Is the volume very loud?</td>
<td>Reduce it.</td>
</tr>
<tr>
<td></td>
<td>Is the waxguard clogged or broken?</td>
<td>Replace or visit your hearing care professional.</td>
</tr>
<tr>
<td></td>
<td>Are you holding an object (e.g. a hat, a telephone receiver) close to a hearing aid?</td>
<td>Move your hand away to create more space between the hearing aid and the object.</td>
</tr>
<tr>
<td></td>
<td>Is your ear full of wax?</td>
<td>Visit your physician.</td>
</tr>
<tr>
<td>No sound</td>
<td>Is the hearing aid turned on?</td>
<td>Switch it on.</td>
</tr>
<tr>
<td></td>
<td>Is the hearing aid in telecoil mode?</td>
<td>Switch to the microphone program.</td>
</tr>
<tr>
<td></td>
<td>Is there a battery in the hearing aid?</td>
<td>Insert a new battery.</td>
</tr>
<tr>
<td></td>
<td>Is the battery still good?</td>
<td>Replace with a new one.</td>
</tr>
<tr>
<td></td>
<td>Is the waxguard clogged or broken?</td>
<td>Replace or visit your hearing care professional.</td>
</tr>
<tr>
<td></td>
<td>Is your ear full of wax?</td>
<td>Visit your physician.</td>
</tr>
<tr>
<td>SYMPTOM</td>
<td>CAUSE</td>
<td>POSSIBLE REMEDY</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>--------------------------------------------</td>
<td>------------------------------------------------------</td>
</tr>
<tr>
<td>Sound is distorted, spluttering or weak?</td>
<td>Is the battery dead?</td>
<td>Replace it with a new one.</td>
</tr>
<tr>
<td></td>
<td>Is the battery dirty?</td>
<td>Clean it or replace it with a new one.</td>
</tr>
<tr>
<td></td>
<td>Is the waxguard clogged or broken?</td>
<td>Replace or visit your hearing care professional.</td>
</tr>
<tr>
<td></td>
<td>Did your hearing aid get moist?</td>
<td>Use a desiccant.</td>
</tr>
<tr>
<td>Battery drains very quickly</td>
<td>Did you leave your hearing aid switched on for long periods of time?</td>
<td>Always switch off your hearing aid when you are not using them, e.g. during the night.</td>
</tr>
<tr>
<td></td>
<td>Is the battery old?</td>
<td>Check the date on the battery packaging.</td>
</tr>
</tbody>
</table>
24 Warranties and repairs
ReSound 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, ReSound pledges to secure functionality at least equivalent to the original hearing aid. As a signatory to the United Nations Global Compact initiative, ReSound is committed to doing this in line with environment-friendly best practices. Hearing aids therefore, at ReSound’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. ReSound 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.

25 Temperature test, transport and storage information
ReSound hearing aids are subjected to various tests in temperature and damp heating cycling between -13 °F and 158 °F according to internal and industry standards. During transport or storage, the temperature should not exceed the limit values of -4 °F and 140 °F and relative humidity of 90% RH, non-condensing (for limited time). The air pressure between 500 and 1100 hPa is appropriate.

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
- **PLEASE ASK YOUR LOCAL HEARING CARE PROFESSIONAL CONCERNING DISPOSAL OF YOUR HEARING AID.**
- **NOTE:** Country specific regulations apply.
- Follow instructions for use.
Use of the Made for Apple badge means that an accessory has been designed to connect specifically to iPhone, iPad, and iPod touch models, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

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