

ReSound

ReSound

User Guide

***ReSound X-plore™
Power Behind-the-Ear (BTE)***

XE80-DVI

Distributed by:

ReSound North America

8001 Bloomington Freeway
Bloomington, MN 55420
phone: 1-888-735-4327
fax: 952-769-8001

ReSound Canada

303 Supertest Road
Toronto, Ontario M3J 2M4
phone: 1-888-737-6863

**www.gnresound.com
consumerhelp@gnresound.com**

16751111 Rev.A



X-plore™
ReSound

X-plore™
ReSound

ReSound X-plore™

Congratulations on the purchase of your new fully digital ReSound hearing instruments!

ReSound's state-of-the-art hearing instrument technology and the customized set-up selected by your hearing healthcare professional will bring outstanding sound quality to your family, social and professional life.

Your ReSound X-plore™ hearing instruments have been adjusted to your individual hearing loss. Please familiarize yourself with the information in this booklet. Proper understanding and use of your new ReSound hearing instruments will allow you to derive maximum hearing benefit.

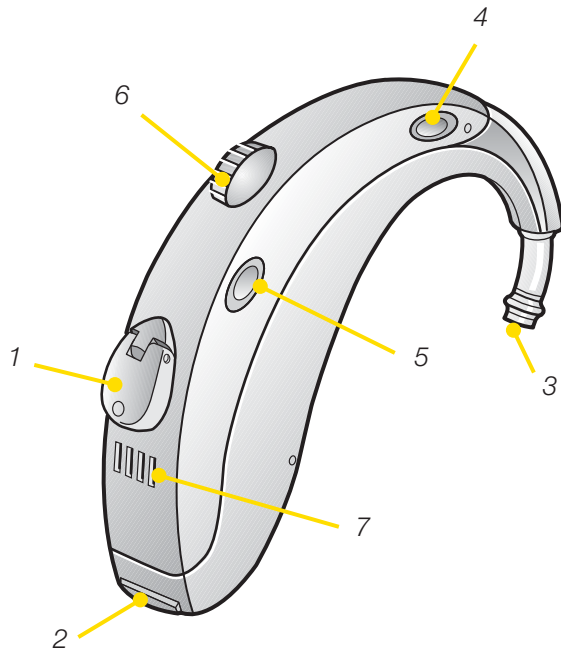
ReSound X-plore is a trademark of ReSound.

Contents

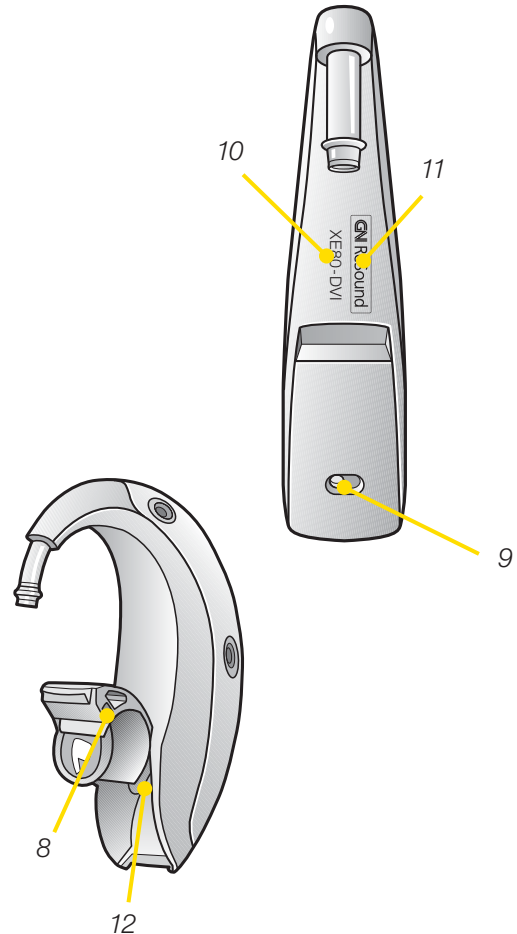
	<i>page</i>
Illustration of the Hearing Instrument	4
Adjusting to a World of New Sounds	6
How to Turn Your Hearing Instrument On and Off	7
SmartStart™	7
Inserting the Hearing Instrument	8
Removing the Hearing Instrument	9
Volume Control	10
Program Selector	11
Your Program Environments	
Stand-By Mode	12
Telephone Use	12
Cellular Phone	
Using Assistive Listening Systems	14
Direct Audio Input (DAI)	15
Low Battery Warning	16
Changing the Battery	16
Battery Warning Information	17
Daily Maintenance	18
Cleaning the Earmold and Tubing	19
General Precautions	20
General Warnings	21
Important Notice for Prospective Hearing Aid Users	22
Children with Hearing Loss	24
Warning to Hearing Aid Dispensers	25
Technical Data	27
Troubleshooting Guide	28
Warranty and Repairs	30

ReSound X-plore Power Behind-the-Ear (BTE) Hearing Instruments

1. Program selector
2. Battery compartment and on/off switch
3. Sound outlet
4. 1st Microphone sound inlet
5. 2nd Microphone sound inlet
6. Volume control
7. Direct Audio Input (DAI)



8. Left/Right indicator (Right=Red, Left=Blue)
9. Battery lock
10. Model
11. Manufacturer
12. Serial number located inside battery compartment



Adjusting to a World of New Sounds

A hearing loss is typically acquired gradually over many years. You may have become accustomed to an everyday life with fewer sounds, which also means hearing less noise than people with normal hearing.

With your new hearing instruments you will experience many sounds that you may not have heard for years.

- The clock ticking
- Turning pages of the newspaper
- Children's voices
- Whispers and soft speech
- Car noise
- Bird song
- The sound of your own footsteps

It can take several months for your brain to get used to all the “new” sounds around you. Your hearing healthcare professional will advise you how to best adapt to all of these sounds while using your new hearing instruments.

How to Turn Your Hearing Instrument On and Off

Your ReSound X-plore hearing instrument is equipped with an on/off switch integrated into the battery compartment.

1. When the battery compartment is fully closed, the instrument is turned on and Program 1 is activated.
2. To turn the instrument off, open the battery door by using your fingernail to lift the tab at the base of the battery door. Once the battery door opens, the instrument will be turned off.
3. Whenever you are not using the instrument, remember to turn it off to reduce battery consumption.

Generally, people prefer to turn on the hearing instrument once it is fully inserted in the ear. If you prefer not to have the instrument on while placing it in your ear, your hearing healthcare professional can activate the SmartStart™ function.

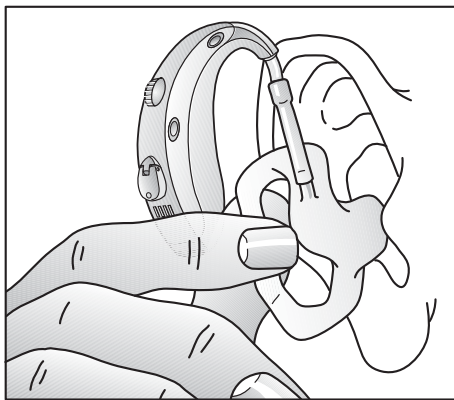
SmartStart™

SmartStart™ allows you to insert the instrument into the ear without annoying squealing sounds. It delays the switch-on time by ten seconds after closing the battery door. During this 10 second period you will hear soft beeps.

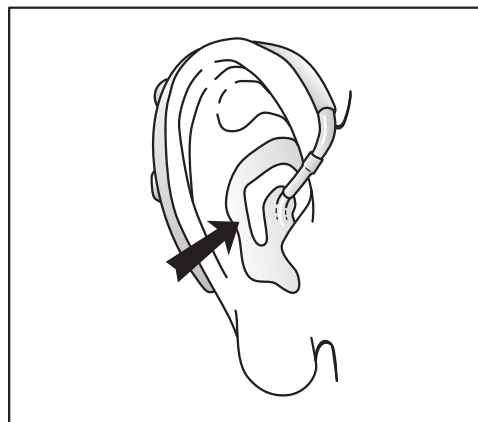
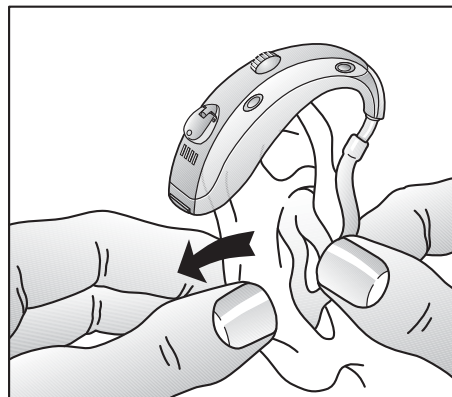
Inserting the Hearing Instrument

To insert the hearing instrument in your ear:

- Take the earmold between your thumb and index finger and position the tip of the earmold in your ear canal. Now, slide the earmold all the way into your ear with a gentle, twisting movement. Insertion can be easier if you gently pull your ear backward with your other hand.



- Turn the top part of the earmold gently back and forth so that it fits behind the fold of skin above your ear canal.
- Place the hearing instrument behind your ear. Move the earmold up and down and press gently to ensure it is positioned correctly in the ear. Opening and closing your mouth can ease insertion. You will feel when the earmold is positioned correctly.



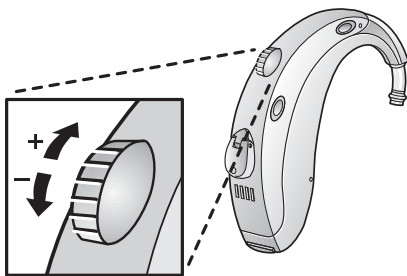
Removing the Hearing Instrument

To remove the hearing instrument from your ear, simply pull the earmold out with your thumb and index finger. Consult your hearing healthcare professional if you have difficulty removing the hearing instrument.

Volume Control

Your ReSound X-plore hearing instrument has a volume control. When wearing your hearing instrument, you can increase the volume by turning the volume control wheel up, and reduce volume by turning it down.

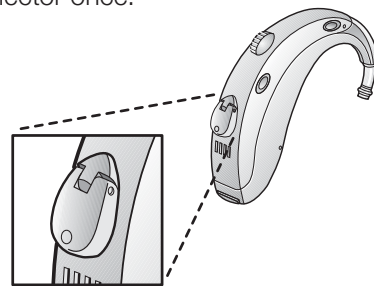
For each volume step, you will hear a beep indicating the change. The loudness of the beeps will increase as you turn the volume up and decrease as you turn it down. If you reach the upper or lower limit of the volume control range, there will be a different type of beep with a lower pitch.



Program Selector

Your hearing instrument features multiple programs. The selection of programs can be changed by your hearing healthcare professional.

1. You can switch between programs by pushing the program selector once.
2. You will then hear one or more beeps. The number of beeps indicates which program you have selected.
3. You can always return to Program 1 by turning your instrument off and then on again, or by placing it in stand-by mode (see the next section) and then returning to its standard mode.



Your Program Environments:

(To be completed together with your hearing healthcare professional)

Program	Description of when to use
1	
2	
3	
4	

Stand-by Mode

In stand-by mode, your hearing instrument is muted. Because there is a small drain on the battery while in stand-by mode, this is not equivalent to turning the instrument off.

To put your instrument in stand-by mode, press and hold the program selector for five seconds. You will hear a series of beeps and stand-by mode will be activated. To return to standard mode, press the program selector once. Always allow at least five seconds before reactivating the hearing instrument once stand-by mode has been engaged.

Telephone Use

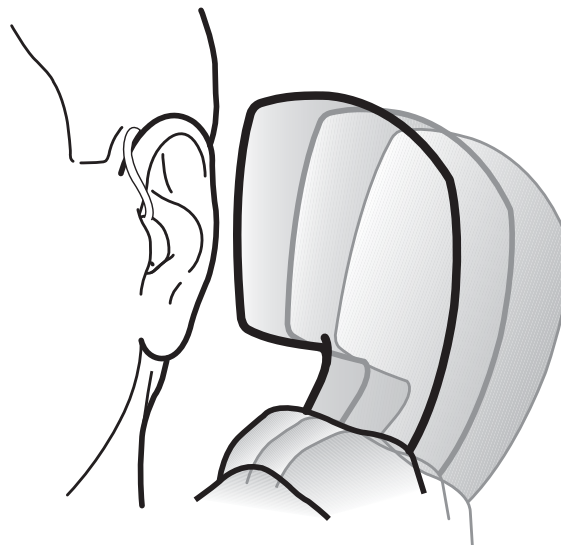
Your hearing instrument is equipped with an induction coil (telecoil) which picks up magnetic signals from a hearing instrument compatible telephone. Your hearing healthcare professional can activate the telecoil. By selecting the telecoil program, the hearing instrument will only pick up the sounds coming from the telephone.

When using the telecoil program, the receiver of the telephone should be held as shown in the accompanying illustration. You may need to reposition the handset slightly to find the best reception.

If you do not wish to have a telecoil program, you may still use the phone while wearing your hearing instrument. Many hearing instruments will whistle (feedback) when in close proximity to a telephone. To reduce the potential for this problem, your hearing instrument is equipped with an adaptive digital feedback suppression system which greatly reduces the chance of feedback in this scenario. Hold the

phone close to the front microphone of the hearing instrument, but not directly on it. If there is feedback, it may take a few seconds for the instrument to adapt.

Using the telephone, while wearing your hearing instrument, may require some practice.



Cellular Phone

If you use a cellular phone you may experience a buzzing or clicking noise. This is caused by a strong signal generated by the cellular phone. Consult with your hearing healthcare professional to see if there are options to improve the sound quality.

Using Assistive Listening (Tele-Loop) Systems

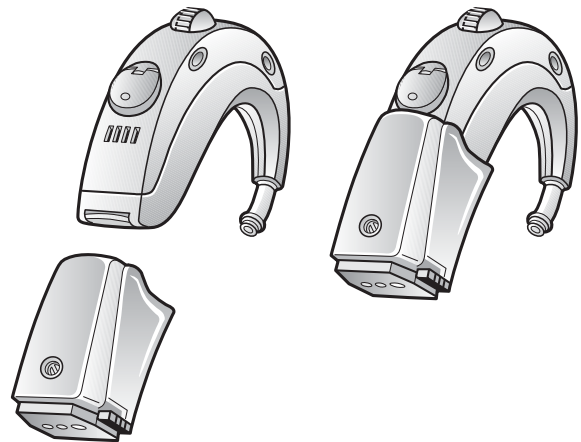
Many gathering places are equipped with assistive listening (tele-loop) systems, for example, schools, theaters and houses of worship. To take advantage of a tele-loop system, select the telecoil program. When the telecoil program has been selected, you will be able to hear a clean sound signal via the tele-loop system. If the instrument goes dead in the telecoil program, this may be because the loop system is not operating.

If a school, theater or house of worship does not have a tele-loop system, try and sit as close as possible to the front and use one of the microphone programs.

Direct Audio Input (DAI)

Your ReSound X-plore power BTE hearing instruments offer you the possibility of direct, undisturbed connection to devices such as television, radio and remote microphone via a Direct Audio Input (DAI) socket. Often, this will improve sound quality.

With DAI, the sound source is connected to your instrument with a cable or a wireless FM system to the audio shoe. The audio shoe will connect with a click to the hearing instrument and switch to Direct Audio Input automatically.



Low Battery Warning

A low battery warning is automatically triggered whenever the battery voltage/power drops below a critical level. When this happens, the hearing instrument will emit soft beeps. These beeps will continue every five minutes until the instrument automatically switches off. The beeps can vary when using different battery brands. We recommend that you keep spare batteries on hand.

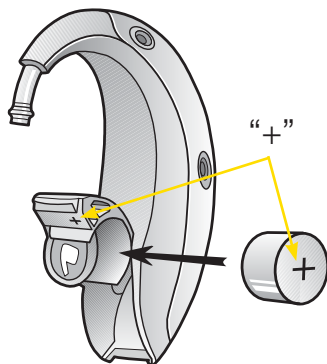
Changing the Battery

The batteries for the hearing instrument are quite small, which may cause difficulty in seeing the battery and battery door markings. A magnifying glass and good lighting may be helpful.

Open the battery door completely by lifting the tab on the battery door with your fingernail. After removing the old battery, insert the new one with the “+” (flat) side facing the “+” on the battery door.

It should fit in like a puzzle piece. The battery door should close very easily. Never use force to close the door as this may damage your hearing instrument.

Always use a size 13 battery. Please note that a weak battery will affect the performance of your hearing instrument. Removing the battery when you are



not wearing the instrument will help prevent corrosion of the battery contacts and reduce battery consumption.

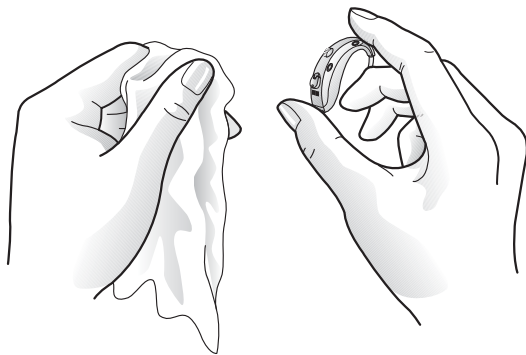
Battery Warning Information

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

- Do NOT attempt to recharge batteries which are not specifically designated rechargeable as they may leak or explode.
- Do NOT attempt to dispose of batteries by burning them.
- Keep batteries away from small children, mentally challenged persons and pets.
- Do NOT place batteries in your mouth. If swallowed, see a physician immediately or call the National Button Battery Hotline collect at (202) 625-3333.

Daily Maintenance

Keep your hearing instrument clean and dry. Wipe the case with a soft cloth or tissue after use to remove debris or moisture.



If your instrument has been exposed to high humidity or perspiration, enclose it (with your earmold) in a drying unit or a sealed container together with a drying agent (desiccant) overnight. Consult your hearing healthcare professional concerning which drying options are available for your use.

To avoid the need for unwarranted repairs:

- Never immerse your instrument in water or other liquids since this may cause permanent damage to the circuitry.
- Protect your hearing instrument from rough handling, and avoid dropping it on hard surfaces such as floors.
- Do not leave your instrument in or near direct heat or sunlight since excessive heat can damage the instrument or deform the casing.

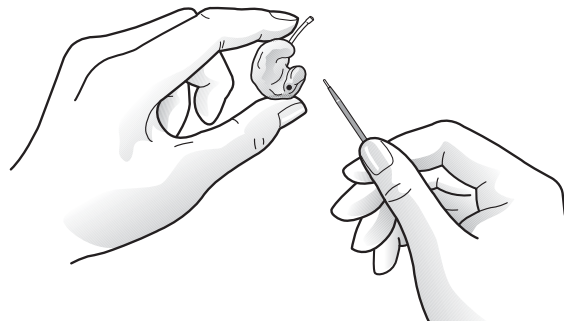
Cleaning the Earmold and Tubing

The earmold feeds amplified sound from the hearing instrument into your ear. It is important that your earmold fits correctly into your ear. If the earmold irritates your ear in any way and prevents you from wearing your hearing instrument, please contact your hearing healthcare professional to have your earmold modified. You should never attempt to modify the shape of the earmold yourself.

The earmold should be cleaned regularly. Remove the earmold, along with the silicone tubing, from the hearing instrument before you clean it. Lukewarm water should be enough to clean earwax off the earmold. If earwax is lodged in the sound canal of the earmold, the cleaning loop or a syringe with lukewarm water can be used to remove the earwax.

Be sure to thoroughly dry your earmold and its tubing before reconnecting it to your hearing instrument. Sometimes it is helpful to blow gently through the tubing to remove moisture trapped inside.

The silicone tubing connecting your earmold to your hearing instrument should be changed if it becomes stiff or brittle. Contact your hearing healthcare professional to change the tubing when needed.



General Precautions

- Do not leave your hearing instrument in the sun, near an open fire or in a hot, parked car.
- Do not wear your instrument while showering, swimming, in heavy rain or in a moist atmosphere such as a steam bath or sauna.
- Should your hearing instrument become wet or moist, use the drying kit that your hearing healthcare professional has recommended. Do not place the hearing instrument in a very warm place to remove moisture (for example, the oven) or use a hair dryer. Excessive direct or indirect heat can damage the instrument.
- Remove your hearing instrument when applying such things as cosmetics, perfume, aftershave, hair spray, and suntan lotion. These might get into the instrument and cause damage.

General Warnings

- Consult your hearing healthcare professional if you discover a foreign object in your ear canal, you experience skin irritation or excessive earwax accumulates with the use of the hearing instrument.
- Different types of radiation, for example, from NMR, MRI or CT scanners, may damage the hearing instrument. Therefore, do not wear the hearing instrument during these or other corresponding scanning procedures. Other types of radiation (burglar alarms, room surveillance systems, radio equipment, mobile telephones, etc.) contain less energy and will not damage the hearing instrument. They could, however, momentarily affect the sound quality or create strange sounds from the hearing instruments.
- Do not wear the hearing instrument in mines or other explosive areas, unless those areas are certified for hearing instrument use.
- Keep the instruments away from children under the age of three. Hearing instruments contain small parts that may present a choking hazard.

Important Notice for Prospective Hearing Aid Users

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 the 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 aid dispenser, as appropriate, for a hearing aid evaluation.

The audiologist or hearing aid dispenser 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 dispenser 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 aid dispensers 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.

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

The use of a hearing aid is only part of hearing rehabilitation and may need to be supplemented by auditory training and instructions in lipreading. Consistent use of the aid is recommended. In most cases, infrequent use does not permit you to attain full benefit from it.

Children with Hearing Loss

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.

Warning to Hearing Aid Dispensers

A hearing aid dispenser 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 aid dispenser 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:

- (i) Visible congenital or traumatic deformity of the ear.
- (ii) History of active drainage from the ear within the previous 90 days.
- (iii) History of sudden or rapidly progressive hearing loss within the previous 90 days.
- (iv) Acute or chronic dizziness.
- (v) Unilateral hearing loss of sudden or recent onset within the previous 90 days.
- (vi) Audiometric air-bone gap equal to or greater than 15 decibels at 500 Hertz (Hz), 1,000 Hz and 2,000 Hz.
- (vii) Visible evidence of significant cerumen accumulation or a foreign body in the ear canal.
- (viii) Pain or discomfort in the ear.

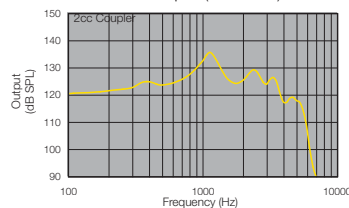
Special care should be exercised in selecting and fitting a hearing aid whose maximum sound pressure level exceeds 132 decibels because there may be a risk of impairing the remaining hearing of the hearing aid user.

Technical Data for ReSound X-plore Power BTE (XE80-DVI)

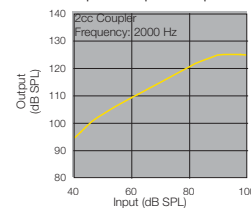
Data in accordance with ANSI S3.22-2003; Supply Voltage 1.3 V.; 2cc coupler.

Reference Test Gain (60 dB SPL input)	HFA	52 dB
Full-On Gain (50 dB SPL Input)	Max	65 dB
	HFA	60 dB
Maximum Output (90 dB SPL input)	Max	136 dB SPL
	HFA	129 dB SPL
Total Harmonic Distortion	500 Hz	1.8 %
	800 Hz	0.6 %
	1600 Hz	0.4 %
Full-On Telecoil Sensitivity (10 mA/m input)	Max	113 dB SPL
Equivalent Input Noise (without noise reduction)		22 dB SPL
Frequency Range (DIN 45605)		100-5900 Hz
Attack Time (ANSI RTG-7 dB)		12 ms
Release Time (ANSI RTG-7 dB)		70 ms
Current Drain		0.85 mA
Typical Battery Life	Battery size 13	341 hrs

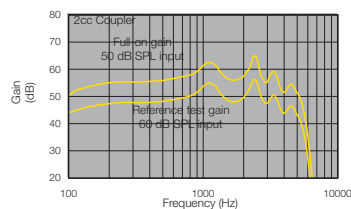
Maximum Output (OSPL 90)



Input/Output Response



Full-On and Reference Test Gain



Troubleshooting Guide

SYMPTOM	CAUSE	POSSIBLE REMEDY
No sound	<ul style="list-style-type: none"> • Not turned on • Battery low/dead • Battery improperly inserted • Blocked earmold or tube • Blocked sound outlet 	<ul style="list-style-type: none"> • Turn on by closing the battery door • Replace battery • Insert battery properly • Clean earmold or tube • Consult your hearing healthcare professional
Not loud enough	<ul style="list-style-type: none"> • Loose earmold • Blocked earmold • Change in hearing • Excessive earwax • Blocked sound outlet • Volume set too low 	<ul style="list-style-type: none"> • Reinsert carefully • Clean earmold • Consult your hearing healthcare professional • Consult your hearing healthcare professional • Consult your hearing healthcare professional • Adjust the volume control and/or consult your hearing healthcare professional
Whistles	<ul style="list-style-type: none"> • Earmold improperly inserted • Poorly fitting earmold • Build-up of earwax 	<ul style="list-style-type: none"> • Remove and reinsert • Consult your hearing healthcare professional • Consult your hearing healthcare professional
Sound not clear or distorted	<ul style="list-style-type: none"> • Battery low • Poorly fitting earmold • Hearing instrument damaged • Hearing instrument settings not optimal 	<ul style="list-style-type: none"> • Replace battery • Consult your hearing healthcare professional • Consult your hearing healthcare professional • Consult your hearing healthcare professional

If there are any other problems not mentioned in this guide, please contact your hearing healthcare professional.

Warranty and Repairs

ReSound grants you a comprehensive warranty on your hearing instrument from the date of original purchase. We will repair or replace the hearing instrument, at our discretion, when examination during the warranty period proves it to be defective in workmanship or materials.

For repair or replacement, return the hearing instrument to your hearing instrument dispenser first. If this is not possible, send the instrument to ReSound North America, 8001 Bloomington Freeway, Bloomington, Minnesota 55420, or any other authorized service center. Proof of purchase may be required. Do not attempt to open the case of the hearing instrument since this will invalidate the warranty. Instruments not purchased from an authorized dispenser are not covered by this or any other warranty. This limited warranty does not apply to products damaged because of misuse, abuse, normal wear and tear, or repairs attempted or made by other than ReSound or an authorized service center.

The warranty period for your hearing instrument is designated on your warranty card, which is provided by your hearing instrument dispenser.