

HOW TO USE YOUR FIRST HEARING AID

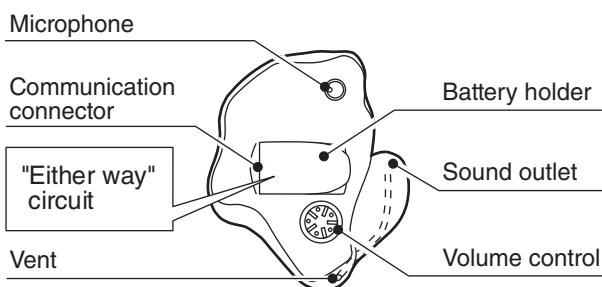
- Any hearing aid cannot return level of your hearing to normal or halt further hearing deterioration, but proper use of your hearing aid can help you hear what is going on around you and let you get more enjoyment of life.
- If this is your first hearing aid, you - like most new users - will probably be surprised at the loudness of the sounds, and after using it for a short while, you may even feel that it is too noisy. The following three tips are important in overcoming your concerns.
 - 1) Read this manual and become familiar with the hearing aid's various mechanisms and how to use them correctly.
 - 2) First, use your hearing aid in a quiet place and listen to quiet sounds and give yourself sufficient time to get accustomed to the sound of your hearing aid.
 - 3) If any physical problems develop, consult your doctor.

FOR KEEPING YOUR HEARING AID LONGER

- Always keep the hearing aid clean. Clean the hearing aid with dry cloth periodically and also remove earwax plugged in the sound outlet using eyebrush or toothbrush.
- Do not expose the hearing aid to the heat from stoves, etc. Also, avoid leaving it in places with high humidity.
- Operate the controls with care.
- If the hearing aid is dropped in water, wipe with dry cloth and ask the dealer for check.
- Do not pick the microphone with nail, pin, etc., because this may damage the microphone.
- Do not disassemble or attempt any repairs by yourself. Ask the dealer for repair.

OPERATING INSTRUCTIONS

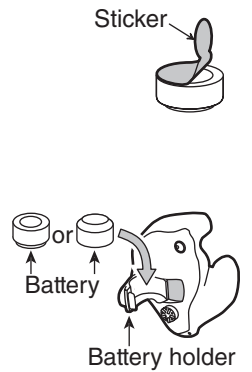
Parts and Controls



- Depending on the shape of the user's ear, there may be no vent, or the vent may be in a different position.
- The communication connector serves for adjustment of the hearing aid by the hearing aid professional.

Battery Placement/Life/Change/Remove

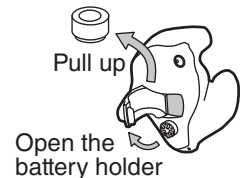
1. Peel off the sticker of the battery (PR48 (13) zinc-air battery) before loading.
2. Hold the hearing aid upside down and open the battery holder.
3. Insert a PR48 (13) battery sideways into the battery holder. **You do not have to worry about the polarity.**
4. Close the battery holder.



Battery life (PR48 (13), for continuous use)
Approx. 290 hours

- Battery life will change depending on the operating condition.
- When the battery is almost depleted, a warning beep sounds. This is not a malfunction. This warning beep sounds every five minutes. Depending on operating conditions, however, the battery may run out of charge before the next beep sounds.

When remove the battery, grasp it and pull it up. Be sure to remove the battery when the hearing aid is not to be used.

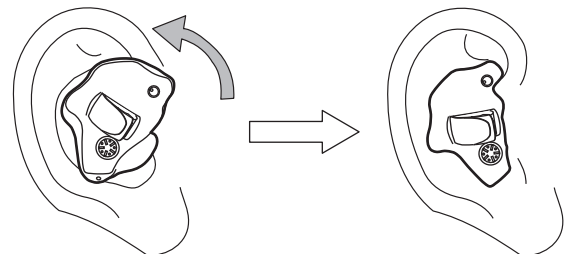


Inserting Hearing Aid in Your Ear

This hearing aid does not have a power switch. The battery holder also functions as power switch.

- Power / OFF: Open the battery holder.
- Power / ON: Close the battery holder firmly.

1. Open the battery holder slightly, so that the hearing aid is set to the OFF condition.
2. Hold the hearing aid while tilted slightly forward and insert the sound outlet into the ear. Then gently push the hearing aid in while rotating it backwards.

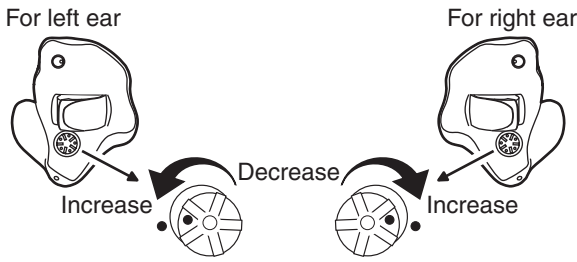


- Lightly push the top section of the hearing aid until it fits snugly into the ear.

Note: If the hearing aid is inserted with the battery holder closed (ON), acoustic feedback may occur.

3. When the hearing aid is properly seated in your ear, close the battery holder to turn it on.

4. Adjust the volume control to a suitable level. Turn the control forward to increase the volume, or backward to decrease the volume. When the black dots match, the volume is set to minimum.



- Turn the volume control while lightly pushing it with the ball of your finger.

Removing Hearing Aid

Open the battery holder (power off) and remove the hearing aid while gently rotating it forward (if not, whistling may result).

TECHNICAL DATA (According to ANSI standard S3.22 2003)

Maximum-OSPL90	131 dB (1700 Hz)
HFA-OSPL90	126 dB
HFA-full-on Acoustic Gain	59 dB
Reference Test Gain	49 dB
Frequency Range	200 Hz to 4800 Hz
Equivalent Input Noise Level	21 dB
Total Harmonic Distortion	500 Hz: 2% 800 Hz: 2% 1600 Hz: 1%
AGC (Attack/Recovery Time)	Input AGC/Output AGC Attack: 4 msec Recovery: 80 msec
Battery Type/Supply Voltage	13/1.4 V
Battery Current	0.9 mA
Battery Life	Approx. 290 hours

(Typical value)

Turn-on precaution

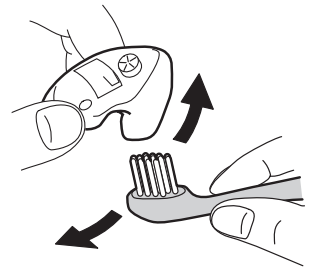
If the hearing aid is turned on again immediately after turning it off, there may be no sound, but this is not a defect. In such a case, turn the power off (open battery holder) and wait 10 seconds. Then turn the power on again (close battery holder).

Adjusting the Controls

This hearing aid is a digital type. Any adjustments must be done at the dealer. For details, please contact the dealer.

Cleaning Your Hearing Aid

We recommend that you clean your hearing aid twice a week (more or less needed) to remove any earwax that may build up as a result of regular use. Too much earwax build up can prevent your hearing aid from working. Hold the hearing aid as the illustration, brush off the earwax of the sound outlet.

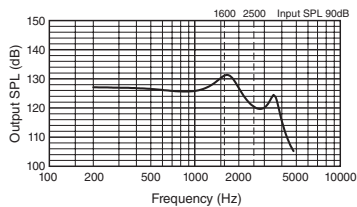


TECHNICAL DATA (According to IEC Standard 60118-7:2005)

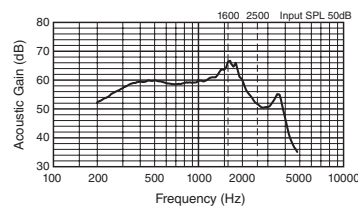
HFA-Reference Test Gain	49 dB
Maximum-OSPL ₉₀	131 dB (1700 Hz)
HFA-OSPL ₉₀	126 dB
Maximum-Full-on Acoustic Gain	67 dB (1650 Hz)
HFA- Full-on Acoustic Gain	59 dB
Band width frequencies f_1, f_2	$f_1 < 200$ Hz, $f_2 > 4800$ Hz
Equivalent Input Noise Level	21 dB (low level expansion is active)
Total Harmonic Distortion	500 Hz: 2% 800 Hz: 2% 1600 Hz: 1%
AGC (Attack/Recovery Time)	Input AGC/Output AGC Attack: 4 msec Recovery: 80 msec
Battery Type/Supply Voltage	PR48/1.4 V
Battery Current	0.9 mA
Battery Life	Approx. 290 hours

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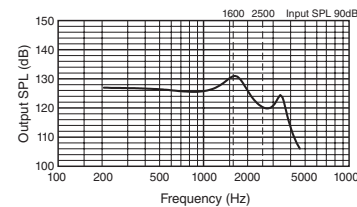
OSPL90 curve



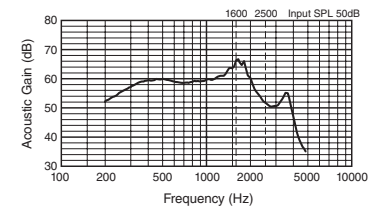
Full-on gain curve



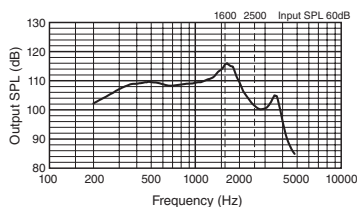
OSPL90 curve



Full-on acoustic gain frequency response curve



Frequency response curve



Basic frequency response curve

