

HOW TO USE YOUR FIRST HEARING AID

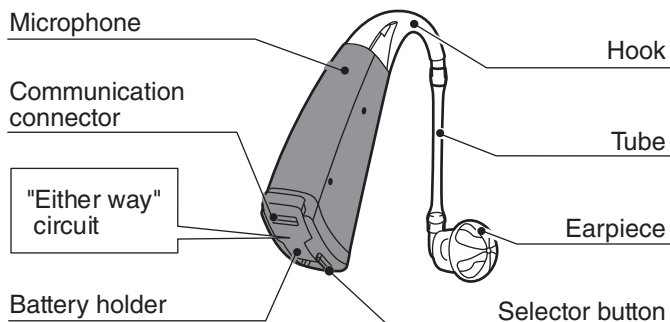
- Any hearing aid cannot return level of your hearing to normal or halt further hearing deterioration, but proper use of your hearing aid can help you hear what is going on around you and let you get more enjoyment of life.
- If this is your first hearing aid, you - like most new users - will probably 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 earpiece or earmold using eyebush 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. Do not press hard.
- If the hearing aid is dropped in water, wipe with dry cloth and ask the dispenser 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 dispenser for repair.

OPERATING INSTRUCTIONS

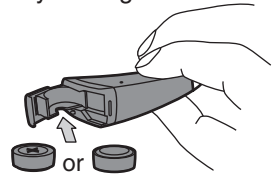
Parts and Controls



* The communication connector serves for adjustment of the hearing aid by the hearing aid professional.

Battery Placement

1. Peel off the sticker on the positive side of battery (PR41 or 312 zinc-air battery).
2. Open the battery holder with the tip of your finger.
3. Insert a PR41 or 312 battery into the battery holder. **You do not have to worry about the polarity.**
4. Close the battery holder.



Battery life (PR41 or 312, for continuous use)

ANSI: Approx. 160 hours

IEC: Approx. 170 hours

- Battery life will change depending on the operating condition.

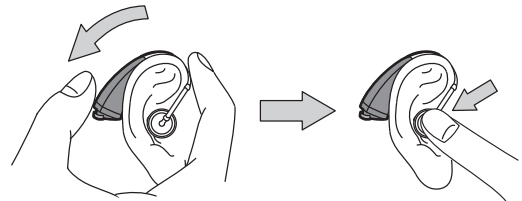
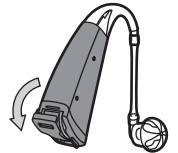
Putting on Hearing Aid

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

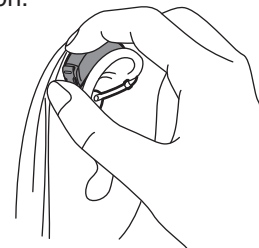
Power/OFF: Open the battery holder.

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. Place the hearing aid on the ear.

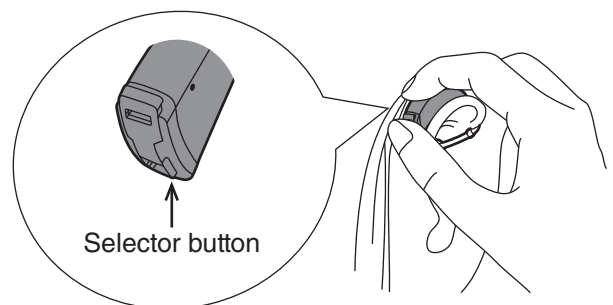


3. Turn the power on.



4. Press the selector button to adjust the volume to a suitable setting.

The selector button serves either for "volume switching" or for "memory switching", depending on which function was specified by the customer.

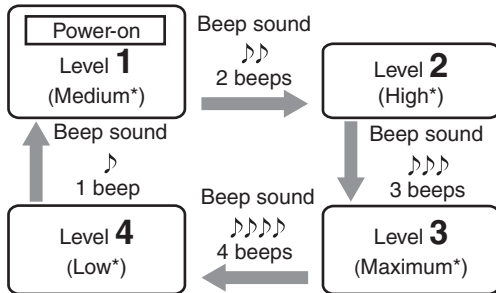


* Adjust the volume according to the situation (volume of other voices, ambient noise, etc.).

Volume switching

The selector button gives access to four different volume level settings *. Using the selector button in the way shown below lets you switch between the settings. When power to the hearing aid is turned on (the battery holder is closed), the volume setting will be "Level 1". Depending on the environment (noisy location, quiet location, etc.) you may want to change the setting. When you operate the button, a beep sound pattern indicates the change.

* These have been optimized for your individual requirements.



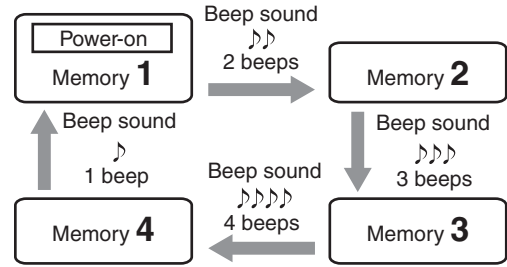
* These are the standard volume settings. They can be changed by your hearing aid professional.

Memory switching

The selector button gives access to four different memory settings *. Using the selector button in the way shown below lets

you switch between the settings. When power to the hearing aid is turned on (the battery holder is closed), the setting will be "Memory 1". Depending on the environment (noisy location, quiet location, etc.) you may want to change the setting. When you operate the button, a beep sound pattern indicates the change.

* These have been optimized for your individual requirements. There may be from 1 to 4 different memory settings.



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.

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

Maximum OSPL90	113 dB (660 Hz)
HFA-OSPL90	107 dB
HFA-full-on Acoustic Gain	38 dB
Reference Test Gain	30 dB
Frequency Range	200 Hz to 5000 Hz
Equivalent Input Noise Level	31 dB
Total Harmonic Distortion	500 Hz: 1% 800 Hz: 1% 1600 Hz: 1%
AGC (Attack / Recovery Time)	Input AGC Attack: 3 msec or 400 msec Recovery: 100 msec or 600 msec or 15 sec Output AGC Attack: 3 msec Recovery: 50 msec
Battery Type/Supply Voltage	312/1.4 V
Battery Current/Battery Life	0.90 mA/160 hours
Dimensions/Weight	3.82 × 2.03 × 0.80 cm / 1.9 g (excluding battery)

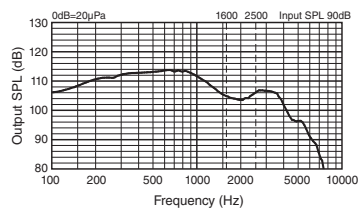
(Typical value)

TECHNICAL DATA (According to IEC standard Pub. 60118-0-1983 Amendment 1-1994)

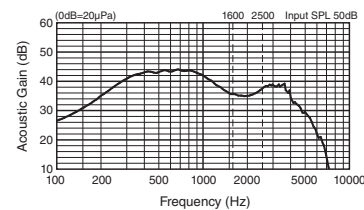
Reference Test Frequency	1600 Hz
OSPL90	113 dB
	500 Hz 116 dB Peak 117 dB
Full-on Acoustic Gain	43 dB
Equivalent Input Noise Level	30 dB
Total Harmonic Distortion	500 Hz: 1% 800 Hz: 1% 1600 Hz: 1%
AGC (Attack / Recovery Time)	Input AGC Attack: 3 msec or 400 msec Recovery: 100 msec or 600 msec or 15 sec Output AGC Attack: 3 msec Recovery: 50 msec
Battery Type/Supply Voltage	PR41 (312)/1.4 V
Battery Current/Battery Life	0.85 mA/170 hours
Dimensions/Weight	3.82 × 2.03 × 0.80 cm / 1.9 g (excluding battery)

(Typical value)

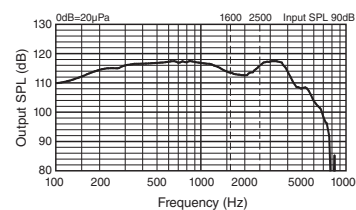
OSPL90 curve



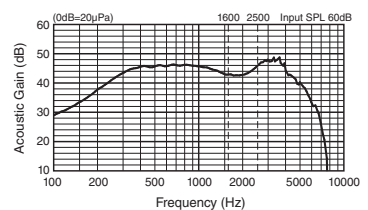
Full-on gain curve



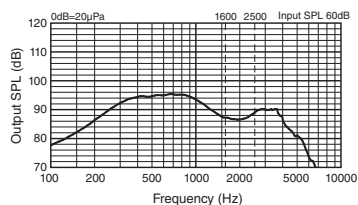
OSPL90 curve



Full-on acoustic gain frequency response curve



Frequency response curve



Note:

- (1) Production number (serial number) is indicated at the upper rear side of the unit.
- (2) Manufacturer's name is imprinted at the lower rear side of the unit.

Basic frequency response curve

