

HOW TO USE YOUR FIRST HEARING AID

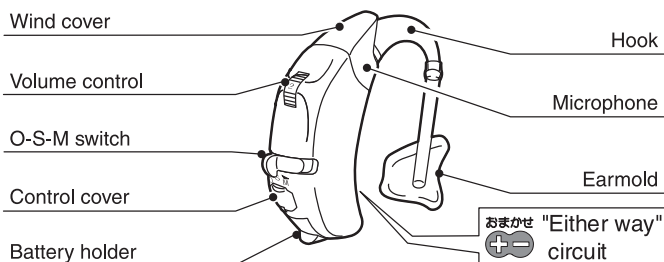
- Any hearing aid cannot return level of your hearing to normal or halt further hearing deterioration, but proper use of your hearing aid can help you hear what is going on around you and let you get more enjoyment of life.
- If this is your first hearing aid, you - like most new users - will probably 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 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. 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.

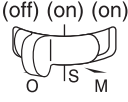
OPERATING INSTRUCTIONS

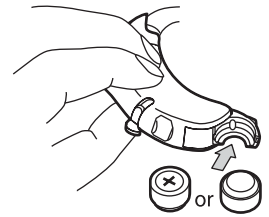
Parts and Controls



- Earmold shown above are not included as standard accessories.

Battery Placement

1. Set the O-S-M switch of the hearing aid to "O" (power off). 
2. Peel off the sticker on the positive side of battery (PR48 or 13 zinc-air battery).
3. Open the battery holder with the tip of your finger.
4. Insert a PR48 or 13 battery into the battery holder. You do not have to worry about the polarity.
5. Close the battery holder.



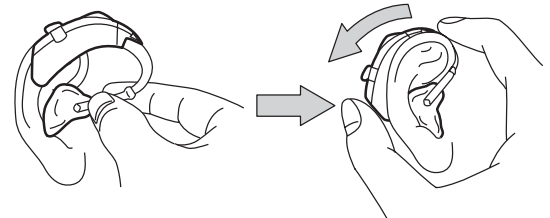
Battery life (PR48 or 13, for continuous use)

Approx. 230 hours

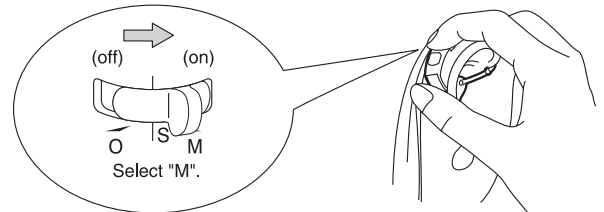
- Battery life will change depending on the operating condition.

Putting on Hearing Aid

1. Place the hearing aid on the ear.

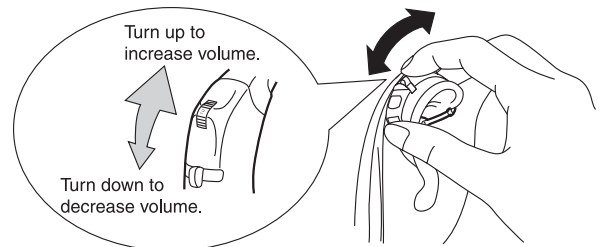


2. Turn the power on.



3. Adjust the volume control to a suitable level.

- Volume control
Higher numbers mean louder sound.



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

O-S-M switch

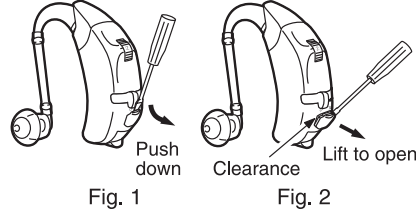
- O: Hearing aid is turned off and no sound is heard.
- S: Hearing aid is turned on and noise suppressor is active. Use this position when wishing improve speech clarity in a noisy environment, such as in car, in shops, or on the street.
- M: Hearing aid is turned on and noise suppressor is not active. This is the normal operating position.

Removing Hearing Aid

1. Set the switch to "O" (power off) before removing the hearing aid. If the switch is left in the "M" or "S" position, acoustic feedback (howling) may occur.
2. Be sure to set the switch to "O" and take out the battery, when not using the hearing aid.

Opening / closing the control cover

1. Insert a screwdriver into the notch of the control cover, as shown in Fig. 1, and push the cover down. (Only the top section of the cover will open.)



2. When the top of the cover opens, insert the screwdriver into the clearance, as shown in Fig. 2, and push the cover out to open it fully.
3. To close the cover, push the entire cover in with finger.

TECHNICAL DATA (According to ANSI standard S3.22 1996)

Maximum-OSPL90	124 dB (1100 Hz)
HFA-OSPL90	116 dB
HFA-full-on Acoustic Gain	45 dB
Reference Test Gain	36 dB
Frequency Range	200 Hz to 6900 Hz
Equivalent Input Noise Level	29 dB
Total Harmonic Distortion	800 Hz: 7% 1600 Hz: 3%
Operating Switch	O-S-M
Output Limiting Control	MOP (range: 15 dB)
Tone Control	TONE H
Gain Control	Main (range: 42 dB)
Battery Type / Supply Voltage	13 / 1.3 V
Battery Current	1.25 mA
Battery Life	Approx. 230 hours
Dimensions	3.75 x 1.27 x 0.88 cm
Weight	4.0 g (excluding battery)

(Typical value)

Adjusting the controls

Tone control (Tone H) and Output limiting control (MOP) should be set at the position of comfortable sound by the screw driver.

● Tone control (TONE H)



In the factory default condition, this control is set to the "N" position. Turning the control from the "N" to the "H" position, low frequencies are attenuated and high frequencies emphasized.

● Output limiting control (MOP)



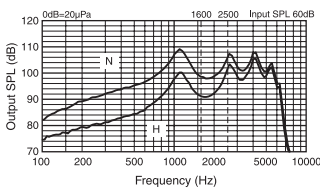
This control prevents the hearing aid from outputting excessively loud sounds. Turning the control towards the left reduces the maximum output level of the hearing aid.

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

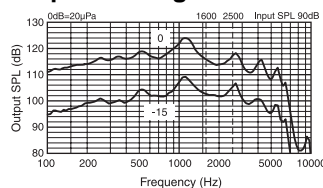
Reference Test Frequency	1600 Hz	
OSPL ₉₀	124 dB	
	500 Hz	123 dB
	Peak	129 dB
Full-on Acoustic Gain	54 dB	
Equivalent Input Noise Level	27 dB	
Total Harmonic Distortion	800 Hz: 9% 1600 Hz: 5%	
Operating Switch	O-S-M	
Output Limiting Control	MOP (range: 15 dB)	
Tone Control	TONE H	
Gain Control	Main (range: 42 dB)	
Battery Type / Supply Voltage	PR48 / 1.3 V	
Battery Current	1.25 mA	
Battery Life	Approx. 230 hours	
Dimensions	3.75 x 1.27 x 0.88 cm	
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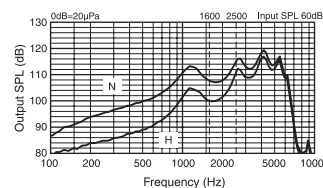
Frequency response curve and effect of Tone H



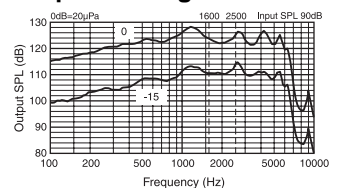
OSPL 90 curve and effect of output limiting control



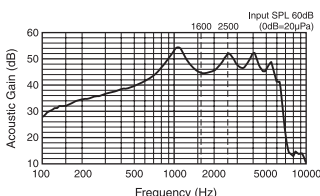
Basic frequency response curve and effect of Tone H



OSPL₉₀ curve and effect of output limiting control



Full-on gain 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.

Full-on acoustic gain frequency response curve

