

# HB-G4PE



3-20-41 Higashimotomachi, Kokubunji, Tokyo 185-8533, Japan

### HOW TO USE YOUR FIRST HEARING AID

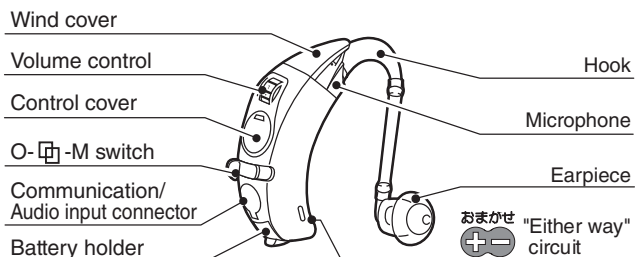
- Any hearing aid cannot return level of your hearing to normal or halt further hearing deterioration, but proper use of your hearing aid can help you hear what is going on around you and let you get more enjoyment of life.
- If this is your first hearing aid, you - like most new users - will probably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

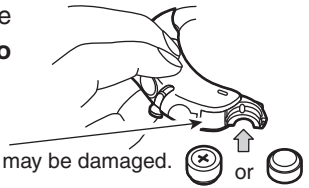
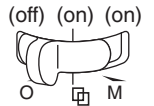
#### Parts and Controls



\* The communication connector serves for adjustment of the hearing aid by the hearing aid professional. Using the optional Audio input Controller and dedicated cable, external equipment can be connected directly to HB-G4PE, allowing the wearer to listen to the sound from various devices.

### Battery Placement

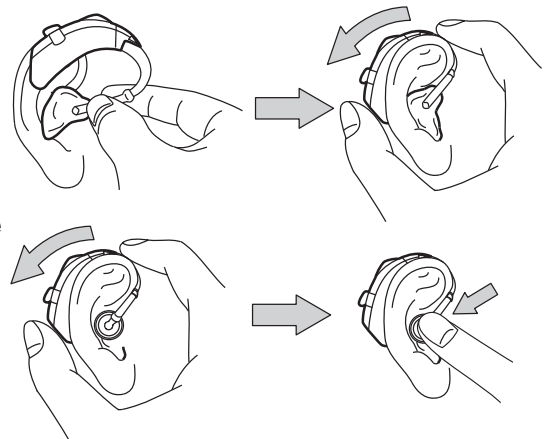
1. Set the O--M switch of the hearing aid to "O" (power off).
2. Peel off the sticker on the positive side of battery (PR44 or 675 zinc-air battery).
3. Open the battery holder with the tip of your finger.
4. Insert a PR44 or 675 battery into the battery holder. **You do not have to worry about the polarity.**
5. Close the battery holder.



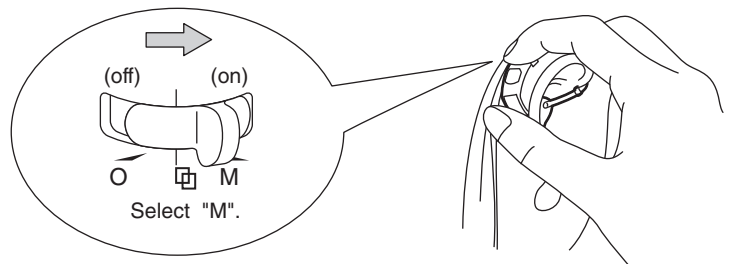
**Battery life** (PR44 or 675, for continuous use)  
 Approx. 180 hours  
 - Battery life will change depending on the operating condition.

### Putting on Hearing Aid

1. Place the hearing aid on the ear.
  - Earmold
  - Earpiece

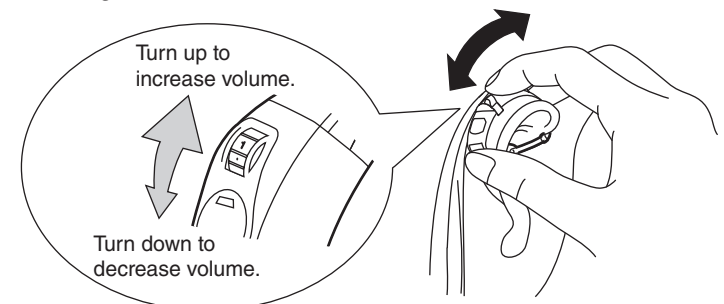


2. Turn the power on.



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- [M] -M Switch

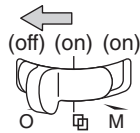
- O: Hearing aid is turned off and no sound is heard.
- [M]: Sounds through both the microphone and telephone coil can be heard. Set to "[M]" position when using your hearing aid for telephone or induction loop system in combination with the MT balancer.

When the switch of the hearing aid is set to [M], noise may be heard in the vicinity of electromagnetic fields, such as generated for example by electronically secured gates or similar.

M: Microphone for ordinary use. 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 "[M]" position, acoustic feedback (high-pitched sounds) may occur.
2. Be sure to set the switch to "O" and take out the battery, when not using the hearing aid.



**Turn-on precaution**

If you switch the hearing aid off and then immediately on again, there may be no sound, but this is not a defect. In such a case, return the switch to "O" (Off), wait for at least 10 seconds, and then set the switch to "M" or "[M]" again.

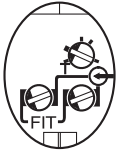
**Adjusting the Controls**

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

**Factory default setting for communication/Audio input selector**

The default setting is as shown at right.

- FIT: Position for hearing aid fitting adjustment
- ⊕: Position for Audio input



**Other setting**

- O - [M] - M switch: "O"
- Volume control (1 to 4): "1"

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

Maximum OSPL90	134 dB (870 Hz)
HFA-OSPL90	130 dB
HFA-full-on Acoustic Gain	65 dB
Reference Test Gain	53 dB
Frequency Range	200 Hz to 5000 Hz
Equivalent Input Noise Level	29 dB
Total Harmonic Distortion	500 Hz: 1% 800 Hz: 1% 1600 Hz: 1%
HFA-SPLITS (HFA-SPLIV)	108 dB (120 dB at 31.6 mA/m)
AGC (Attack / Recovery Time)	Input AGC Attack / Recovery: 8 or 256 msec
	Output AGC Attack / Recovery: 0.25 msec
Battery Type/Supply Voltage	675/1.4 V
Battery Current/Battery Life	2.5 mA/180 hours
Dimensions/Weight	4.67 × 1.62 × 0.97 cm / 6.7 g (excluding battery)

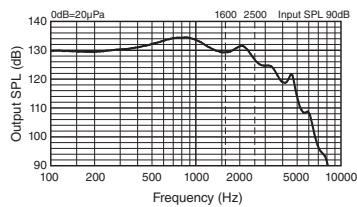
(Typical value)

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

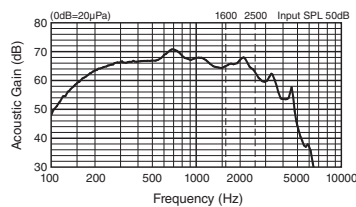
Reference Test Frequency	1600 Hz	
OSPL <sub>90</sub>	136 dB	
	500 Hz	135 dB
	Peak	139 dB
Full-on Acoustic Gain	72 dB	
Equivalent Input Noise Level	26 dB	
Total Harmonic Distortion	500 Hz: 1% 800 Hz: 1% 1600 Hz: 1%	
Induction Coil Sensitivity	112 dB at 1 mA/m	
AGC (Attack / Recovery Time)	Input AGC Attack / Recovery: 8 or 256 msec	
	Output AGC Attack / Recovery: 0.25 msec	
Battery Type/Supply Voltage	PR44 (675)/1.4 V	
Battery Current/Battery Life	2.5 mA/180 hours	
Dimensions/Weight	4.67 × 1.62 × 0.97 cm / 6.7 g (excluding battery)	

(Typical value)

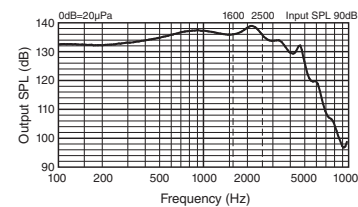
**OSPL<sub>90</sub> curve**



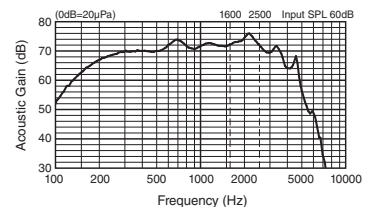
**Full-on gain curve**



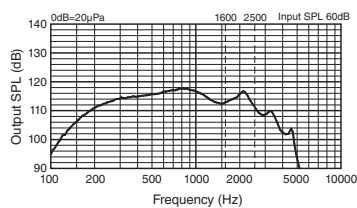
**OSPL<sub>90</sub> curve**



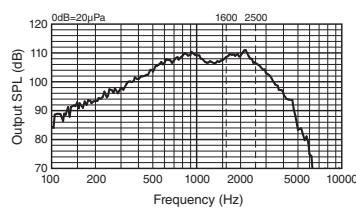
**Full-on acoustic gain frequency response curve**



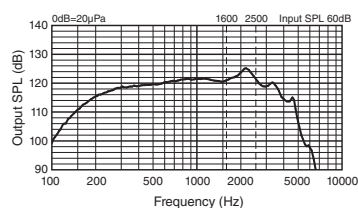
**Frequency response curve**



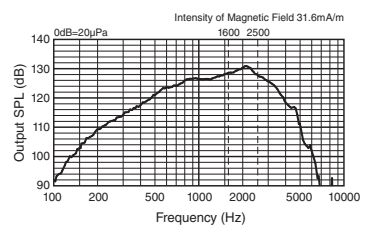
**SPLITS curve**



**Basic frequency response curve**



**Induction Coil Input 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.