

SYMPTOM	POSSIBLE CAUSES	SOLUTIONS
Magnum Ear Instrument Sounds Weak	Wax obstruction in earmold or ear canal	Clean wax from instrument
Magnum Ear Instrument Intermittent	Weak battery or defective component	Change battery or send in for service
Soreness or Irritation	Improper earmold insertion	Review insertion instructions



The following operations manual will describe the various models of Magnum Ear and their features. Remember to always protect your hearing from loud sounds as they are one of the leading causes of hearing loss. NOTE: When shooting indoors, sound levels increase dramatically. It is recommended that you wear earmuffs over your Magnum Ear to increase your level of protection.

Magnum Ear's original packaging was intentionally designed to be recyclable. We recommend that you keep it to help protect your devices when not in use.

For service, ship to:

**Magnum Ear**  
6700 Washington Avenue South  
Eden Prairie, MN 55344  
1.800.262.8611

[www.magnumear.com](http://www.magnumear.com)

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## BEHIND-THE-EAR

The Magnum Ear BTE features a volume control and two response adjustments. This allows you to adjust it to your personal listening preference. Regardless of your settings, it will automatically limit your exposure level to the muzzle blast.

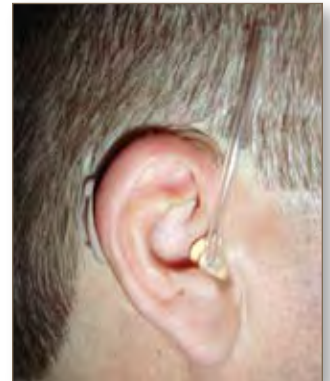


Designed to be worn over your ear, it will need to be adjusted prior to use. Begin by attaching the foam tip to the threaded end of the tubing. Compress the foam tip and insert into your ear as shown.



## BEHIND-THE-EAR

Place the BTE device on your ear as indicated and cut the clear tubing attached to the tip approximately 1/8 of an inch past the end of the ear hook. Slide the tubing onto the ear hook.



Compress the foam tip and insert deeply into your canal as shown. It will gradually expand to fill the canal and form a seal. Place the BTE over your ear and adjust the volume as needed.



Improper fit of this device will reduce its effectiveness in attenuating noise. Consult the enclosed instructions for proper fit.

Although hearing protectors can be recommended for protection against the harmful effects of impulsive noise, the Noise Reduction Rating (NRR) is based on the attenuation of continuous noise and may not be an accurate indicator of the protection attainable against impulsive noise such as gunfire.

The level of noise entering a person's ear, when a hearing protector is worn as directed, is closely approximated by the difference between the Aweighted environmental noise level and the NRR.

**EXAMPLE:**

1. The environmental noise level as measured at the ear is 92 decibels dB(A).
2. The NRR is 29 decibels (dB).
3. The level of the noise entering the ear is approximately 63 dB(A).

**CAUTION:** For noise environments dominated by frequencies below 500Hz, the Cweighted environmental noise level should be used.

ATTENUATION CHART (ANSI S3.19-1974)										
Test Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	
MEAN ATTENUATION (DB)	29.7	34.2	39.7	42.1	38.0	43.2	43.5	47.5	46.1	
STANDARD DEVIATION (DB)	5.3	5.9	4.7	5.1	3.2	3.2	3.5	4.5	4.4	

CANAL

The Magnum Ear Canal features a volume control and two response adjustments. It utilizes a soft sponge tip which needs to be threaded onto the unit prior to being worn. Once you have done this, compress the soft tip and insert it into your ear canal as shown.

Regardless of the volume setting, it will automatically limit your exposure to the muzzle blast.



Magnum Ear warrants this product against defects in materials and workmanship for 12 months following the purchase date. Internal components and the external shell of the device are covered by this warranty. However, product or component failures as a result of misuse, accident or neglect (as determined by representatives of Magnum Ear) are not included in this warranty. There are no other warranties, express or implied, except as set forth here.

To obtain service for your Magnum Ear, please call our Customer Service Center at 1-800-262-8611, Monday through Friday 8 a.m. to 5 p.m. Central Time. To return your Magnum Ear for service or repair, please send the fully packaged product to:

Magnum Ear  
6700 Washington Avenue South  
Eden Prairie, MN 55344

Please ship postage prepaid and insure against loss or damage. Please remember to include a brief description of the problem you are experiencing along with your receipt, name, address and a daytime phone number.

BATTERIES AND CLEANING

Magnum Ear products are designed to run on hearing aid batteries. Size 13 has an orange sticker, and the size 312 sticker is brown. The battery turns on when you remove the sticker. Battery life will exceed 150 hours of continuous use with a size 312 and over 300 with a size 13. Left unused, the battery will eventually run down after a few months. This is normal for zinc air batteries.

Use the cleaning brush and/or a soft, dry cloth to remove earwax or other particles that may accumulate around the canal, volume control, and battery compartment; never use water, solvents, cleaning fluids or oil to clean your Magnum Ear.

