

Hyskore®

30063 30070

30067 30071

30069 30072

# **OVER & OUT®**

TACTICAL STEREO ELECTRONIC HEARING PROTECTION  
with LED Work & Safety Lights



This is the most advanced hearing protector available with the most usable features.

- User Selectable Impulse (Clipping) or Compression Protection
- Two Channel Stereo Reception
- Independent Left and Right Volume Balancing
- Talkabout/Communicator Input with Button Activated Microphone
- iPod/MP3 Input
- Hands Free Lighting with 6 Ultra Bright White LED's
- 4 Red Rear Facing Safety Lights
- 250% Amplification
- Uses 4 x AA Batteries

In the course of shipping and packing, parts may end up missing or damaged  
call us at 631.673.5975. 8:30 a.m. - 5:00 p.m. Eastern Time. We will promptly send replacements.

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## A WORD ABOUT HEARING PROTECTION

The new HYSKORE® Tactical Over & Out® #30063 Electronic Hearing Protector is not only the latest and most advanced electronic hearing protection from HYSKORE®, it represents the most advanced shooter's hearing protection available any place. In the passive or off mode with headband in place, they protect in an NRR of 24.

In the impulse mode, sometimes referred to as clipping, sounds are received by the microphones and then interpreted by the solid state circuit. If the volume/amplitude is below 85 dB, the sounds are transmitted to the speakers in each ear pod and volume can be adjusted according to preference. While in this mode the user can use the volume control on either ear to balance the output or to increase the volume, up to 250%. When the amplitude exceeds 85 dB, the circuit stops transmitting to the speakers and the hearing protection defaults to the passive (NRR 24) level. This type of hearing protection is perfect for situations when an individual experiences infrequent loud noises such as, shooting by themselves or with one or two other people. It is also perfect while using power equipment such as, chainsaws and weed trimmers.

In the compression mode, which is the next detent on the audio control, sounds are received by the microphones and passed on to the electronic circuit, but in this case they are handled differently. Sounds below 85 dB are still heard. The volume of these sounds is adjustable via the volume controls. Sounds above 85 dB are compressed by about 75%. The user adjusts the volume so the sound level is comfortable. The advantage to compression hearing protection is that it allows the user to hear normal conversation while still being involved in a noisy environment. For instance, while shooting on a range with multiple shooters firing multiple shots, impulse/clipping protection defaults every time a shot goes off. This is both annoying and distracting. With compression the sound level remains constant but reduced, and the user has the ability to hear range commands, safety commands, and normal conversation.

These hearing protectors have been tested to protect at an NRR of 24, with the headband in place, however, this level of protection is based upon standardized test fixtures in the laboratory without the intervention of any extraneous conditions. In other words, the shape of a person's head and/or how their hair is cut could permit sound incursion, which reduces the protection level. One of the most overlooked factors that reduces the effectiveness of any muff type hearing protection is eyeglasses. If you wear glasses your protection level could be compromised because the arms of the glasses prevent the ear cushions from making a tight seal against the head.

In order to maximize the level of hearing protection available from any electronic muff style hearing protection, the best procedure is to first use foam ear plugs (these usually protect at a level of NRR 25 to 30) and then wear the electronic hearing protection (over the foam plugs) with the volume level turned high enough so you can still hear comfortably. What will happen when there is a loud noise is that the hearing protectors will default and protect at their passive level, and the foam ear plugs will protect at their NRR. This is an effective technique used by many people in sustained high noise level environments.

## CONTROLS

### RIGHT EAR CUP



The audio control (A) is located on the right ear cup and has positions for off - impulse - compression (comp) and MP3 and communicator. There is a red LED "on" indicator (B) and the volume control (C) for the right ear.

### LEFT EAR CUP



The left ear cup has the left ear volume control (A) and the LED light control. The light control has the following positions: off, F/B (front & back), back (red), and front (white). The input jack (B) for iPod/MP3 or communicator has a weather resistant cover.

## ACCESSING BATTERIES



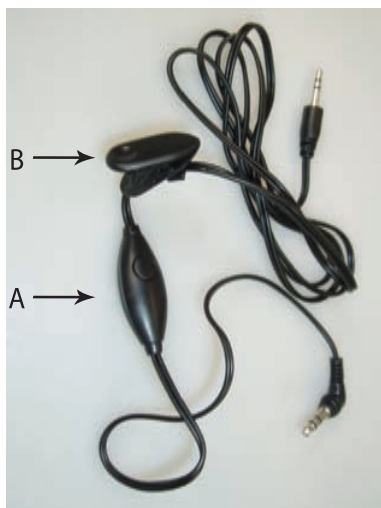
Insert a coin into the coin slot at the bottom of each ear cup and twist to open and access the batteries. When replacing the ear cushion, please note that it can fit either way.

## BATTERIES



This hearing protector requires 2 x AA alkaline batteries in each ear cup (total 4). Proper functioning of the electronic and LED lights is dependent on batteries in good condition. Pay attention to polarity - the negative (-) terminal (flat end) of the battery goes against the coil spring.

## INTERFACE CORDS



This is the communicator interface. It has a 3.5 mm plug at one end and a 2.5 mm plug at the other. It has a push button operated microphone (A) and a lapel clip (B).



This is the iPod/MP3 interface. It has 3.5mm plugs at each end.





The headband can adjust up to 1 1/2" on either side. The neckband is not adjustable.



With the headband in place, the unit can fold for more compact storage. The neckband does not.



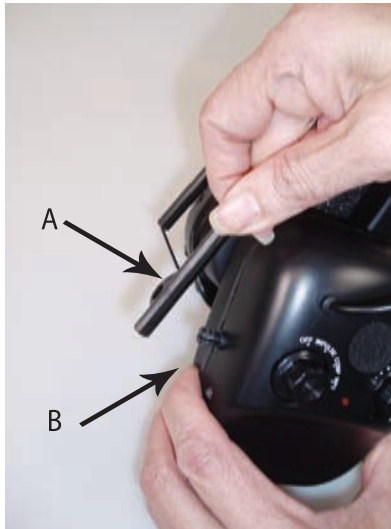
The hearing protector is shipped from the factory with the head band installed. A user installable behind the neckband is supplied with the set.

## REMOVING THE HEADBAND



To change from headband to neckband open the zipper along the top of the headband cushion and remove the wire and cushion.

Reverse this process when reinstalling the headband.



Pull the mounting eye (A) straight off the mounting stud (B). Do not bend, twist, or pull at an angle. Bending or twisting can break the eye or the stud. A flat blade screwdriver or coin is useful for prying with a gentle twisting motion.



After the headband is removed you will have 2 ear cups attached by a wire.

## INSTALLING THE NECKBAND



Press the mounting eyes over the mounting studs until they contact the ear cup with the lobes on the eyes facing inward. Before you begin this step, look at the finished item picture to get a clear idea of how the ear cups should be oriented.



The tubing that runs along the wire of the neckband is slotted to receive the wire. Open the slot at one end and push the wire into it along its entire length. Make sure that the wire is completely enclosed otherwise it may work its way out.



Push the wire into the plastic clips at each end (located on the wire bracket). Now you are all set.



The set includes a wire belt clip.

**Table 3.2: (30063, 30067, 30069, 30070, 30071, 30072) Ear Muff Mean Attenuation Levels**

Frequency	125	250	500	1000	2000	3150	4000	6300	8000
Mean Attenuation	3	11	13	26	40	38	37	35	38
Standard Deviation	2.9	4.7	2.2	4.8	4.6	3.2	4.3	3.5	1.6

- 4.0 Test Result Limitations** – This test report certifies that ONLY the ten (30063, 30067, 30069, 30070, 30071, 30072) ear muffs tested have the reported OSHA adjusted NRR ratings as shown in Table 3.1, and the mean attenuation levels listed in Table 3.2.
- 1.0 Test Articles** – Ten Model (30063, 30067, 30069, 30070, 30071, 30072) Helmet Mounted Hearing Protectors.
- 2.0 Applicable Specifications** – ANSI S12.42, (ANSI S3.19) Physical Method.
- 3.0 Test Results** – The results of the hearing protector acoustical tests and the Noise Reduction Rating (NRR) calculations are presented in Table 3.1. In accordance with 40CFR PART 211 – Product Noise Labeling, "Spectral uncertainty. Possible variation in exposure to the noise spectra in the workplace. (To avoid the under protection that would result from these variations relative to the assumed "Pink Noise" used to determine the NRR, an extra three decibel reduction is included when computing the NRR.)" The NRR rating in accordance with 40CFR211 is shown in Table 3.1.

**Table 3.1: Model (30063, 30067, 30069, 30070, 30071, 30072) Earmuff NRR Calculation Worksheet**

1/3 octave centerband frequency	Measured 1/3-octave Data			Exterior to Earmuff		A-weighted Sound Levels in Earmuff
	Sound levels exterior to Earmuff	Average Earmuff Attenuation	Standard Deviation of Attenuation	C-weighted Sound Levels	A-weighted Sound Levels	
125	81.5	1.8	2.9	81.3	65.4	66.5
160	81.3	5.2	3.9	81.2	67.9	66.5
200	78.8	8.6	4.8	78.8	67.9	64.1
250	79.6	12.0	4.7	79.6	71.0	63.7
315	81.2	13.2	3.9	81.2	74.6	65.3
400	82.0	12.4	2.8	82.0	77.2	67.5
500	80.2	12.5	2.2	80.2	77.0	66.6
630	81.3	14.9	3.1	81.3	79.4	67.6
800	83.7	25.9	8.8	83.7	82.9	65.8
1000	85.5	23.6	4.8	85.5	85.5	66.7
1250	86.3	30.7	6.6	86.3	86.9	62.8
1600	90.1	41.6	5.6	90.0	91.1	55.1
2000	95.2	42.3	4.6	95.0	96.4	58.7
2500	95.9	38.9	4.0	95.6	97.2	62.3
3150	89.7	37.7	3.2	89.2	90.9	56.5
4000	82.5	35.8	4.3	81.7	83.5	52.0
5000	75.5	34.5	4.4	74.2	76.0	45.9
6300	65.1	38.3	3.5	63.1	65.0	30.2
8000	62.9	39.8	1.6	59.9	61.8	23.5
Overall C Weighted Level =				100.3		
Overall A Weighted Level =				76.7		
Ear Muff NRR Value =				24		
OSHA Adjusted NRR =				21		

# • REPLACEMENT PARTS •



30063-1



30063-2



30063-3



30063-4



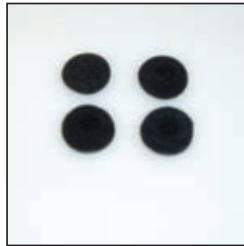
30063-5



30063-6



30063-7



30063-8



30063-9

## Parts List & Pricing:

30063-1	Neckband	\$ 10.00
30063-2	Headband with Cushion	\$ 12.50
30063-3	Cushion	\$ 7.50
30063-4	Ear Cushion Set	\$ 10.00
30063-5	Communicator Interface Card	\$ 8.50
30063-6	iPod/MP3 Interface Card	\$ 7.50
30063-7	Turn Knob Set (4 pcs)	\$ 7.50
30063-8	Foam Diffusers (4 pcs)	\$ 5.00
30063-9	Belt Clip	\$ 5.00

**These are replacement parts for purchase. Pictures do not represent contents of set.**  
 Visit Our Website For More Information or to Check Out Our Other Great  
 Shooting Accessories: **[www.hyskore.com](http://www.hyskore.com)**

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 Middleburgh, NY 12122  
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\*\* \$5.00 Shipping & Handling to  
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\*\* \$25.00 Shipping & Handling to  
 Alaska, Hawaii, Puerto Rico\*\*



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## Hyskore®

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### WARRANTY AND DISCLAIMERS FOR ELECTRONIC ITEMS

HYSKORE®/Power Aisle, Inc. guarantees that its products are free from defects in material and workmanship for a period of 90 days from the original date of purchase. This Warranty applies to non-commercial use only. Commercial use voids this warranty. In the event of any defects in material or workmanship, HYSKORE®/Power Aisle, Inc.'s sole liability therefore shall be the replacement of any such product(s) and/or components that are defective in material or workmanship. The replacement of any such product(s) and/or components shall be HYSKORE®/Power Aisle, Inc.'s sole responsibility. This warranty specifically excludes any and all consequential or accidental damages. No other warranties or liabilities whatsoever are either expressed or implied. If any such warranties shall be imposed by law, notwithstanding this provision, then such warranties shall be the responsibility of HYSKORE®/Power Aisle, Inc.'s immediate buyer. There shall be no warranties of merchantability, use of trade, or fitness for a particular purpose. Alteration of any product, misuse, or exceeding any stated product limitations voids this warranty. All returns, adjustments, etc. are the responsibility of the retailer/dealer that sold the product. HYSKORE®/Power Aisle, Inc. handles return issues through its dealers. It should be obvious when using some of these products that approved protective safety gear, including, but not limited to, eye and ear protection, should be utilized. Using the appropriate safety gear is the sole responsibility of the person(s) using the product. It should also be obvious that certain products such as silica gel, etc. must not be consumed, inhaled or taken internally. The user takes full responsibility for inappropriate or incorrect use of these items. In the event an inadvertent event takes place, Material Safety Data Sheets (MSDS) are available on the HYSKORE® website. [www.hyskore.com](http://www.hyskore.com). We do not sell guns, scopes, ammunition, cleaning accessories, etc. These accessories are used in many of our product pictures, as props to illustrate how the products are used. As such, they are not included with any product. All photographs, drawings, copy, instructions, etc. are the exclusive property of HYSKORE®/Power Aisle, Inc. All downloadable files are intended for the use of the end user of HYSKORE®/Power Aisle, Inc.'s products and cannot be reproduced without the express written permission of HYSKORE®/Power Aisle, Inc. 4/2010