

PRO EARS

WORLD'S #1
*** SINCE 1992 ***

DIMENSION GOLD

The World's Most Advanced Electronic
Hearing Protection/Amplification Products.

Owner's Manual



For all Dimension GOLD &
Predator Series Models:

FIVE YEAR LIMITED WARRANTY

RidgeLine, Inc. warrants our PRO EARS series hearing protectors against any defects in manufacturing for a period of FIVE years from the date of purchase. Items covered include (Where applicable), circuit board, microphone and switches.

NOTE: For Warranty to be valid you must fill out and return Warranty Card within 30 days of purchase. You may also register Warranty at: www.pro-ears.com

For service under this Warranty please return complete set of PRO EARS, postpaid. For the first 90 days after purchase we will repair or replace at no charge. For the remaining 4 years, 9 months please return item with \$29.95 check or money order made out to RidgeLine, Inc to cover handling, processing, packaging and shipping. Please include a copy of your dated sales receipt showing the dealer's name, product and purchase price. We reserve the right to repair or replace the item and then will return postpaid. Prior to returning unit please call for a Return Authorization number.

This Warranty is limited to the original purchaser only and does not cover damage caused by abuse, misuse or accident. RidgeLine, Inc. is not responsible for any indirect or consequential damages arising from the use or inability to use its products. This disclaimer may not apply in your state.

While this Warranty gives you specific legal rights, you may also have other rights which vary from state to state.

In most cases, the product will be repaired or replaced and shipped back to you within five working days.

For Warranty Questions call: 1-800-891-3660

For all Warranty Repairs ship postpaid to: RidgeLine, Inc.
101 RidgeLine Dr.
Westcliffe, CO 81252

1-800-891-3660 • 1-719-783-4161 • 1-719-783-4162 (fax)

Service@Pro-Ears.com

Please check our web site at: www.Pro-Ears.com for current shipping information.



101 RidgeLine Dr. • Westcliffe, CO 81252

TEAR AT PERFORATION

REGISTRATION CARD

Please Complete and return

PURCHASERS NAME _____

(LAST)

(FIRST)

(ADDRESS)

(CITY)

(STATE)

(ZIP)

Date Purchased _____

Purchased From _____

(DEALERS NAME)

(CITY)

(STATE)

Primary Use: (Check all that apply)

Recreational _____ IPSC _____ Trap _____ Skeet _____ Sporting Clays _____ Sports Spectator _____

Hunting _____ Archery _____ Law Enforcement _____ Military _____ Industrial Use _____ Assisted Hearing _____

Other _____

CONGRATULATIONS, you have just purchased the finest, most advanced electronic hearing protection/enhancement system available today. Your PRO EARS were manufactured from the highest quality materials utilizing cutting edge technology. Each unit is designed to provide you with years of exceptional service with a minimum of maintenance. Unlike other electronic hearing protection units PRO EARS offer you all the following special features:

DIMENSION GOLD 1:

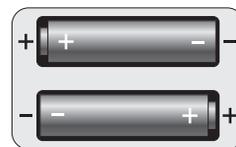
- Exclusive **8-Bit Micro-Processor** instantly performs a Complete Systems Diagnostic.
- Fully enclosed, **Military Grade Circuit Boards** for protection against the elements.
- **Gold Connectors** for the highest audiophile sound quality ever.
- **LED** indicator on Circuit Board shows you working order.
- Programmed **Auto-Shut Off**. We forget sometimes but no longer. Your unit will automatically shut it self off at 4 hours of operation.
- **Low Battery Indicator**. Let's you know when battery is getting low.
- World's Only **DLSC™ Technology** protects hearing while letting you hear softer sounds.
- **Fastest 'Attack Time'** - reacts/recovers in less than 1.5 milliseconds. The fastest in the industry.
- **Programmable/Automatic Gain Control** (AGC™). Available in all GOLD models only.
- **Stereo** for true directional sound detection. Multi-directional mics provide 360 degrees of hearing.
- **Independent Volume Controls**. No connecting wires between cups to snag or break.
- Special Replaceable, **ProForm Leather™ Ear Seals** for the ultimate in comfort and conformity for the tightest noise elimination seal. No plastic, no vinyl, no sweat.
- Comfortable, adjustable, **ProForm Leather™ Padded Headband**.
- **Modular Design** for easy carry/storage.
- **Dielectric Construction**. Will not conduct electricity.
- Slim Line, Chop Side and Mag designs to fit your need.
- 200 hours minimum battery life. Common 'N' Size Alkaline.
- **BATTERIES INCLUDED**
 - Improved Battery Retention
 - Industry's only **'5' Year Warranty**.
 - Proudly **MADE IN THE USA**.

DIMENSION GOLD 2: Everything found in Dimension 1 plus...

- Receiver/Input capabilities for: AM/FM Radio, CD or MP3 Player, many FRS radios or other electronic Communication/Entertainment Devices using a 3.5 'mini jack'. Audio cord supplied.

TROUBLE SHOOTING

1. One or both sides do not work. First, ensure the batteries are new, fully charged and installed properly in each ear cup, plus to plus as shown in this illustration. If a side does not work, if the headset 'clicks' On and Off when turned up or if a 'motor boat' type sound is heard, replace the batteries.



[[x -]]
1-800-891-3660
[[- x]]

2. We recommend removing the batteries for replacement by placing an object (knife, screw driver, etc) under the lip at the end of the battery and carefully applying enough pressure to ease the battery up and out of the compartment.
3. If, after doing all the above steps, one or both sides of the unit still do not work, it may be necessary to return the unit to the factory for repair. See back for return procedure.
4. On the Dimension 2 models if the Input or Output feature does not work, First check to ensure the outside unit, radio, CD Player, Tape Player etc, is working properly. If there is still a problem, check to make sure the connecting wires and the connection it self are correct. If the unit is still not working properly it may be necessary to return the unit to the factory. See back for return procedure.
5. All circuit boards are sealed against moisture during the manufacturing process however, this is an electrical device and all effort should be made to protect against exposure to excessive moisture from rain, snow, etc. Should the unit be exposed to moisture it will be necessary to allow the unit to dry overnight, naturally. If this is done, the unit should work normally once fully dried. CAUTION: NEVER DRY YOUR PRO-EARS UNIT WITH AN ELECTRONIC HAIR DRYER OR OTHER ARTIFICIAL MEANS. THIS COULD RESULT IN DAMAGE TO THE UNIT!
6. While we use the highest quality materials available, after an extended period of use the Sealing Rings should be replaced. Simply call PRO-EARS to order the appropriate 'Maintenance Kit'.
7. It is recommended that your model PRO-EARS be placed in a protective bag for storage and travel to protect its appearance. Suitable carrying bags are available by calling 1-800-891-3660.

Proper
Postage
Required

RidgeLine, Inc.
101 RidgeLine Dr.
Westcliffe, CO 81252

PARTS LIST

HB1	Head Band
CN1	Control Knob
MC2	Microphone Cover
HY6	Maintenance Kit for; PRO-MAG & PRO-SLIM Series
HY7	Maintenance Kit for; PREDATOR GOLD & PLUS Series
HY8	Maintenance Kit for; STALKER & CLAYS Series

Maintenance Kit Includes: (2) ProForm Leather™ Sealing Rings, plus (2) New Interior Foam and (2) foam Mic Covers.



HOW PRO EARS WORK

Our patented system has been designed to provide two main functions. First, they are the most advanced systems made today for protection against high decibel noise vibrations that can damage hearing. Secondly, they are used to enhance hearing both in sound clarity and range.

Along with our standard features the 'GOLD' Series also offers some new advanced features such as:

- **8-Bit Micro Processor** performs an instant and complete diagnostic of all electronic components in your unit. It performs up to 10,000 per second when you turn the cup's volume control knob on. An Interactive **LED** (light emitting diode) in the cup will also light during the Micro Processor's diagnostic. If the test finds all electronics in proper working order the LED will automatically extinguish and your unit will go to the ON stage. Test time is approximately 5 seconds. If there is a diagnostic failure the LED will shut off and the unit will not be activated.
- **Audible Battery Life Indicator.** When your batteries reach 50% remaining life the unit will emit a series of 10 audible beeps. This will let you know you have approximately 40 hours of continuous use remaining. When 10% battery life remains you will hear another series of 10 beeps. The unit will continue to beep once every minute thereafter until batteries are replaced.
- **Auto Shut-Off** feature that will shut the unit off every four hours. The timer is activated when the unit is turned on. If wearing the unit during shut off; simply turn off, wait 2 to 3 seconds and turn back on. Doing this will allow you to continue to use the unit and reset the automatic shut-off. If you have stored the unit without turning it off and the Auto Shut-Off feature will activate.
- All PRO EARS models use an advanced high-speed compression and limiting circuit coupled with an ultra, low noise amplification system. This incredible **'DLSC'™ Technology** (Dynamic Level Sound Compression) with **FSS™** (Full Spectrum Sound) circuitry instantly reacts in less than 1.5 milliseconds to high impulse noise by 'compressing' loud noise impulses starting at a safe 70 dB. Unlike other makes that react to loud noise impulses by 'shutting off' the amplification system, leaving gaps or dead spots in hearing, or reducing the volume input level which reduces all sounds, the PRO EARS user hears every sound safely, without interruption while being full protected against damaging noise levels. PRO EARS also use advanced, electronic condenser microphone technology to improve proximity of sound even in high noise environments.
- PRO EARS feature the latest **Surface Mount Design** and **Active Sound Control** technology with the highest available "Audiophile" (stereo) quality, to provide the best in acoustic protection. The GOLD Series also incorporates **Gold Connectors** proven to be the best metal for conducting purposes. This adds to the incredible sound quality for a natural, clear sound experience. PRO EARS also feature **'DSR'™** (Dynamic Sound Range) that lets you hear every sound, crisp, clear and distortion free, close and far away.

The combination of these technologies provide you with a safety and clarity quality unattainable with any other make, at any price.

TO USE

A) All PRO EARS electronic models come equipped with four 'N' size 1.5 volt batteries, two for each cup. These are superior batteries available where batteries are sold. Alkaline batteries provide the best service. To install, turn the volume controls to the 'Off' position. Carefully pull the inner surface foam down to reveal the battery holder. Remove the old batteries, replace with new batteries into the holder with the negative to negative and positive to positive side. The correct polarity is marked on the holders. Once installed, carefully replace foam. Even though your PRO EARS model has the longest life batteries



available, it is recommended that the volume controls be turned to the 'Off' position when not in use. Our Auto Shut-Off feature will help save battery life.

B) Headband may be adjusted to ensure cups fit correctly around the ears comfortably by sliding headband apart. Place the headband directly in the middle of the head with the cups over the ears. Place the thumb of each hand against each ear cup and press gently inward while simultaneously using your fingers to tighten the headband firmly against the top of your head. The special, replaceable ProForm Leather™ Sealing Rings are made for maximum comfort and noise protection and will contour snugly around ears even when wearing eyeglasses.

C) To adjust volume; Turn the volume knobs to the 'Off' position. Turn on and adjust as needed for comfort. Both sides should be adjusted equally depending on individual hearing ability and purpose.

D) Your Dimension Series model also features a special, internal set of connector pins (jumpers) that are used to alter the circuit board sensitivity and gain setting.

The Sensitivity setting is independent of the exterior volume controls and is set at the factory in the LOW position. This setting is preferred under certain consistent, high noise level situations such as industrial machinery, aviation, engine noise such as auto racing, or when unusually high (110 dB to 130 dB) levels are encountered, it is recommended that the circuit board sensitivity be set at the lower level. The LOW setting will further dampen the high background noise levels and increase the ability to hear lower level sounds such as conversation. (The DSTL model Gain settings however are factory set on HIGH)

Gain setting controls the distance at which sound is received by the electronics and sounds from a greater distance (up to 100 yards depending on conditions). Gain is also factory set in the LOW setting with the exception of the DSTL model which comes set in HIGH. This will enable you to increase hearing/range up to 8x normal hearing the unit's highest amplification setting. These programmable jumpers setting are

independent of each other so you may change Sensitivity jumpers and the Gain jumper to different settings depending on your specific needs.

For example: Setting the Mic Gain on high and leaving the Speaker Level on low is good for hearing distant sounds for those who do not require amplification due to hearing loss while maintaining a safe 70dB sound level.

Or:

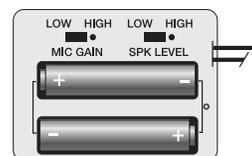
Setting the Speaker Level on high and leaving the Mic Gain on low is good for those who need amplification due to hearing loss but do not want to hear distant sounds. Again while maintaining a safe 70dB sound level.

To change the circuit board sensitivity setting, (See diagram) gently pull back the foam cover inside each cup. You will see that there are two easy-to-grab posts attached to the jumpers. To change the unit settings, first turn the cup side you wish to make the change off. Then carefully pull the jumper posts straight up with your fingers, a set of tweezers or small pair of needle nose pliers. Move the jumper to the desired pins and push straight down. Be careful not to apply too much pressure and stop when jumper is fully seated.

The left set of pins is for Mic Gain (as shown). When the black jumper is covering the left two pins the Gain is on low. This is how the Gain will be set from the factory, (except DSTL models).

The 2nd set of pins is for Speaker Level (as shown). When the jumper is covering the left two pins the Speaker Level is also on low, set at the factory.

NOTE: Changing the Jumper Settings is a delicate operation. Ridgeline is not responsible for damage caused as a result of this procedure.*



**Illustration Purposes only
Exact Configuration of circuit
board may vary over time**

IMPORTANT

- 1). PRO EARS GOLD SERIES are extremely durable however it is not advisable to expose them to extreme heat or cold.
- 2). Check to ensure batteries are in good condition. Even though PRO EARS GOLD SERIES use extremely long life batteries it is advisable to always carry a spare set.