

GENTEX[®]

USER MANUAL

DC2

Hearing Protection System

PIN: 05-028001

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Overview

The DC2 circumaural hearing protector is a unique earcup/ear-cushion design that provides excellent safety for both single and double hearing protection applications. The inner earcup is surrounded by a second outer earcup offering extra performance in high noise applications.

Features

- Unique double-cup double-seal design with custom foam earseals for lasting comfort and improved protection.
- Earmuff and headband assembly are designed to increase population fit rate and prevent foreign object damage (FOD).
- Both large and small volume, rugged earcups are designed to provide excellent overall sound attenuation and meet harsh environmental and handling requirements.



Before Usage

Always evaluate the adequacy of your protective gear before entering hazardous environments.

The wearer should ensure that:

- The earmuff is fitted and maintained in accordance with the manufacturer's instructions. Improper fit of this device will reduce its effectiveness in attenuating noise. Consult the included instructions for proper fit.
- The earmuff has been inspected for serviceability.
- The earmuff is worn at all times in noisy surroundings.

The use of any hearing protective device will not guarantee adequate protection for hearing loss for all persons under all circumstances. Consult your physician frequently when being exposed to high noise levels. If exposure to high noise levels occurs during employment activities, consult your employer regularly as well.

US Federal Law requires the following additional statements:

The level of noise entering a person's ear, when hearing protector is worn as directed, is closely approximated by the difference between the A-weighted environmental noise level and the Noise Reduction Rating (NRR).

Example:

1. The environmental noise level as measured at the ear is 92 dBA.
2. The NRR is 31 decibels (dB).
3. The level of noise entering the ear is approximately equal to 61 dB(A).

Caution:

For noise environments dominated by frequencies below 500 Hz, the C-weighted environmental noise level should be used.

Although hearing protectors can be recommended for protection against the harmful effects of impulsive noise, the 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.

Switching Between Single and Double Hearing Protection

The DC2 can be worn in either a single hearing protection (SHP) or double hearing protection (DHP) configuration. Both large and small volume, rugged earcups are designed to provide excellent overall sound attenuation and meet harsh environmental and handling requirements.



Double hearing protection should be worn at all times in high noise environments above 104 dB(A). Single hearing protection is only acceptable in moderate to low noise environments.

Headband Adjustment

The headband is assembled to slide for adjustment. The friction required to adjust the headband or to fix the headband in place may be adjusted by tightening or loosening the lock nut on each side of the headband near the headpad with an 1/32 inch or adjustable wrench.



Replacing Earseals



1. Remove the old earseals by pulling the inner and outer earseals from the earcups.



2. Remove the new earseals from the adhesive paper backing.



3. Align and orient the inner earseal onto the inner earcup and press it in place.

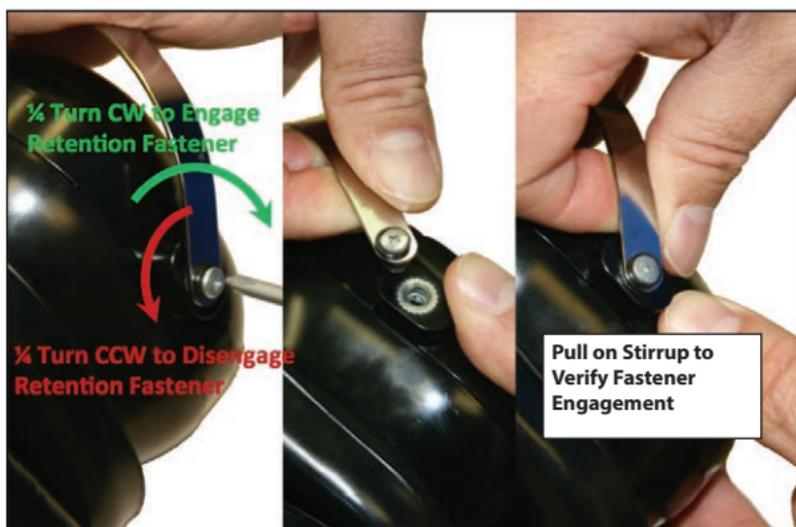


4. Orient the outer earseal onto the outer earcup and press it in place.

Earcup Removal

To install the headset into some head protective devices, one or both of the earcups may need to be temporarily removed.

1. Use a #1 Phillips screw driver to remove the $\frac{1}{4}$ turn fastener holding each side of the earcup to the metal strap.
2. To remove, gently rotate the fastener $\frac{1}{4}$ turn counterclockwise (CCW). The cam will disengage, and the fastener head will stop turning when the fastener is disengaged. Too much applied torque may damage the fastener or insert.
3. Pull the strap away from the earcup. The fastener is captured on the strap so it should not fall away.
4. To reinstall the earcup, insert the fastener into the insert, and gently rotate the fastener $\frac{1}{4}$ turn clockwise (CW) to reengage the fastener. A click should be heard as the fastener cam engages the insert. Too much torque may cause damage to the fastener or the insert.
5. Gently try to pull the strap away from the earcup to verify the fastener is reengaged.
6. Repeat for the opposite earcup side.



Cleaning

1. Clean the headset and the ear seals using a cloth dampened with mild soap and tap water.
2. Wipe it clean with a cloth dampened with tap water to remove soap residue.
3. Surfaces may be wiped with alcohol or disinfecting wipes if desired.

Replacement Parts

To reorder parts or to order replacement parts, please contact Gentex Corporation at **(603) 657-1200**, or visit our website at **www.gentexcorp.com**

Please refer to the following part numbers when ordering:

Part Number	Description
05-028001	DC2 Headset
05-028002	DC2 Foam Earseal Kit
05-999002	Ear Gel

Warning



Always wear both the headset and earplugs when in high noise environments.



Never remove earplugs or the headset while in high noise environments.



Failure to comply with general safety precautions violates the safety intent of this product and may result in bodily harm or damage to the product. Gentex Corporation claims no liability for damage or injury resulting from a failure to comply with the safety precautions outlined in this manual.

DC2 tested to ANSI S3.19-1974

Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
Mean (dB)	21.4	30.3	45.5	44.0	41.5	43.4	44.3	43.3	45.6
Stand. Dev. (dB)	3.0	3.9	4.8	3.9	3.8	3.8	3.3	3.9	2.9
Mean-2SD (dB)	15.4	22.5	35.9	36.2	33.9	35.8	37.7	35.5	39.8

**Noise
Reduction
Rating**

31 DECIBELS

(WHEN USED AS DIRECTED)

THE RANGE OF NOISE REDUCTION RATINGS FOR EXISTING HEARING PROTECTORS IS APPROXIMATELY 0 TO 30 (HIGHER NUMBERS DENOTE GREATER EFFECTIVENESS).

Gentex Corporation
Manchester, New Hampshire

DC2

Federal law prohibits
removal of this label
prior to purchase



Label Required by U.S. EPA
regulation 40 CFR part 211,
subpart B

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