



THE SOUND OF SAFETY

USER MANUAL

Argonaut® Communication Earplugs

PIN 05-016017

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CE EN 352

Overview

The Aegisound Argonaut Communication Earplugs (ACE) are used with Aegisound's Argonaut DHPC headset, providing incoming communications to the ear. The Argonaut Communication Earplugs are also compatible with Aegisound's DANR THPC headset but do not provide active noise reduction functionality when used with the DANR headset.

The Argonaut Communication Earplugs are compatible with Gentex Low Profile Communication Earplugs (LPCCE) and Comply foam eartips.

Before Usage

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

The wearer should ensure that:

- The earmuffs and earplugs are fitted, adjusted, 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 earmuffs and earplugs have been inspected for serviceability
- The earmuffs and earplugs should be 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 or audiologist frequently when being exposed to high noise levels. If exposure to high noise levels occurs during employment activities, also consult your employer regularly.

Connecting ACE to Headset

1. Rotate the earcup to gain access to the earplug receptacle.

2. Grasp the earplug connector and insert the connector into either earcup by aligning the red dot on the connector with the red dot on the receptacle. Gently press the connector until it snaps in place.



3. To remove the connector, grip the connector's knurled sleeve and pull in direction indicated. DO NOT pull on the earplug cable.



Attaching Eartips

Before use, inspect the earplug cable assembly for signs of damage or wear. See the LPCCE User Manual for more detailed instructions for Gentex's compatible custom molded earplug products.

- Generic foam tips for the Argonaut Communication Earplug (ACE) come in two different sizes: standard and slim
 - Standard foam tips fit most individuals
 - If experiencing discomfort while using the standard foam tip, switch to the slim foam tip
 - Individuals with relatively small ear canals should use the slim foam tip
- The tip of the ACE is threaded and matches the foam tip threads
- Carefully, thread the foam tip on the ACE until the foam touches the black housing
- Grip the housing and the foam tip and tighten an additional $\frac{1}{4}$ turn – Do not over tighten
- This method ensures that flanking sound paths are minimized

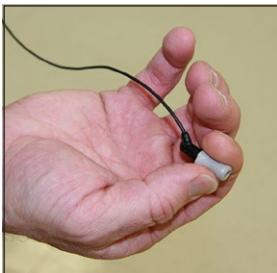
The nominal diameter designations of the Comply foam eartips, per EN 13819-1, are as follows:

- Standard: 7 - 10 mm
- Slim: 8 - 12 mm

Fitting Earplugs

See the LPCCE User Manual for more detailed earplug fitting instructions. The instructions below apply to foam eartips.

1. Using the thumb and index finger, roll the foam tip into the narrowest possible crease-free cylinder



2. Reach over your head with your free hand, pull your ear up and back, and before it expands, insert the compressed foam tip into your ear canal



3. Ensure that the foam tip is deeply seated in the ear canal and hold it to allow for expansion, such that it cannot be easily seen by others when fully inserted.

4. Fit the other ear in the same manner

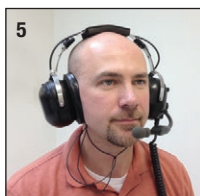
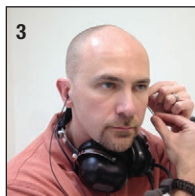
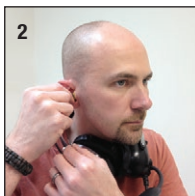
Cable Routing

The earplug cable can be oriented straight down or over the ear, depending upon the user's preference.



Fitting Headset

1. Position the headset so that the microphone is on the left side
2. Insert the right earplug into the right ear (Orientation not critical when using Generic Foam Earplugs)
3. Insert the left earplug into the left ear
4. Place the headset on the head
5. Place the headset comfortably over the ears, ensuring that the outer ear is completely seated in the earcups. Cinch the o-ring on the earplug cables to prevent a snag hazard



If the headset is installed in a helmet, the helmet should be placed on the head so that the earcups can be rotated away from the ears, allowing you to insert the earplugs before donning the headset.

CE Marking

Compliant with EN 352-2:2002

Notified Body:

SAI Global Assurance Services Ltd. (Notified Body: 2056)

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CE Attenuation

Argonaut/DANR Earmuff with Argonaut Communication Earplugs and
LPCCE Earplugs

Attenuation values to EN 24869-1

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean (dB)	37.1	38.3	43.8	41.5	42.4	49.7	45.8
Stand. Dev. (dB)	5.8	3.8	2.9	3.1	4.0	3.8	5.0
APV (dB)	31.3	34.5	40.9	38.4	38.4	45.9	40.8

SNR=41 dB H=40 dB M=39 dB L=37 dB

CE Attenuation

Argonaut/DANR Earmuff with Argonaut Communication Earplugs and Comply
Foam Earplugs

Attenuation values to EN 24869-1

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean (dB)	36.1	39.6	48.6	44.0	41.3	48.0	47.9
Stand. Dev. (dB)	5.2	4.1	3.8	3.5	3.6	3.9	4.6
APV (dB)	30.9	35.5	44.8	40.5	37.7	44.1	43.3

SNR=42 dB H=40 dB M=40 dB L=37 dB

Cleaning and Storage

The Argonaut Communication Earplugs should be cleaned periodically with warm, soapy water and/or wiped with alcohol to prevent buildup of dirt and to disinfect. Reference the LPCCE User Manuals for custom earplug maintenance. Foam eartips should be disposed of and replaced once they become soiled. The ACEs should be stored in the protective case used for the headset.

Replacement Parts

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

Please refer to the following part numbers when ordering:

Part Number	Description
05-016020	Low Profile Custom Communication Earplugs
05-016019	Replacement Foam Eartips, Standard & Slim, 1 Pair Each
05-016023	Replacement Foam Eartips, Slim, Box of 100 Pair
05-016024	Replacement Foam Eartips, Standard, Box of 100 Pair

Warning



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.



This product may be adversely affected by certain chemical substances. Further information should be sought from the manufacturer.



The earplugs should not be used where there is a risk that the connecting cord could be snagged during use.



The protection afforded by the earplugs will be severely impaired if:

- The earplugs are not fitted and maintained in accordance with the manufacturer's instructions
- The earplugs are not regularly inspected for serviceability
- The earplugs are not worn at all times in noisy surroundings

Caution



Inserting or removing the earplugs too quickly may result in air pressure or suction against the eardrum causing temporary pain. The earplugs should be inserted or removed slowly with a twisting motion to prevent excess pressure buildup. Gently moving the earplug while opening the jaw fully may remove excess pressure buildup.



Prolonged use of earplugs (exceeding several hours) may result in temporary soreness near the ear canal. Use of custom earplugs may reduce the risk of this irritation when compared to expandable foam type plugs. The use of earplugs may require a “break-in” period to accustom the ear canal to the presence of the earplug.



In order to ensure maximum performance, the ear canal should be clean and free of excess ear wax and debris before inserting the earplugs. Long term usage of earplugs could result in the buildup of ear wax within the ear. In the event that ear wax or debris becomes impacted in the ear canal, seek medical consultation.



Custom earplugs should be cleaned periodically with warm, soapy water to prevent buildup of dirt and bacteria. Generic earplugs should be disposed of and replaced once they become soiled. Ear inflammation, otitis externa, or other infection could result from the use of dirty earplugs. In the event of pain or discharge from the ear canal, seek medical consultation.



Gentex custom fit earplugs are made from an immunologically inert material and allergic reactions would be rare. In the event an allergic reaction is suspected, discontinue use and seek medical consultation.



DO NOT hang or swing the headset by the earplugs or the cables.



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