

Fitting the Communications Earplug

- This presentation will provide the user of the CEP a detailed process for fitting and use.
- Proper fitting of the CEP is critical to attain optimum performance as with any other piece of life support equipment. While the techniques are not complicated, they must be followed to insure optimum hearing protection, communication effectiveness and comfort.



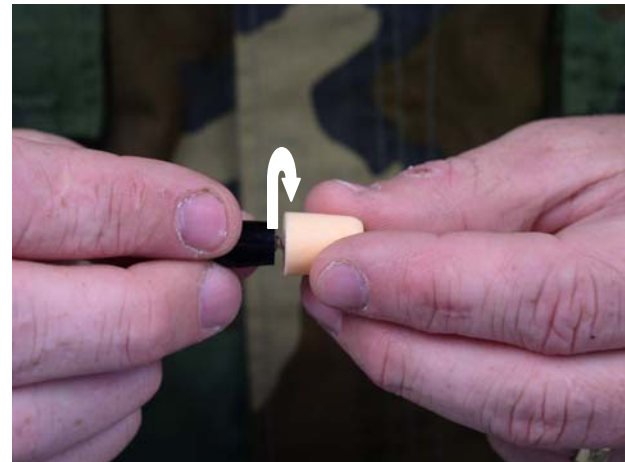
CEP Description and Interface

- The CEP is composed of two parts: screw-on foam tips and the CEP which consists of two earplug transducers that are encased and are connected by thin wires to an SMB connector. The CEP wires are two different lengths.
- For all CEP installations in HGU and SPH-series Helmets, the short wire is for the right ear because the SMB plug interface is on the right rear side of the helmet. The long wire allows the CEP to be attached to the helmet interface either behind the head or under the chin.



Preparations for CEP Use

- Thread the foam eartip onto the CEP threaded tube mounted on the transducer until the foam touches the black housing. About one complete revolution of the foam tip (right hand threads) is all that is required.
- Then tightly grip the housing and the foam tip in each hand and tighten a additional $\frac{1}{4}$ turn.



Preparations for CEP Use

- If you are going to wear the CEP behind your head, place the end of the CEP with the SMB connector over your head with the long wire resting on your left shoulder and the short wire resting on your right shoulder.
- To prepare the CEP for insertion, compress the tip by rolling it between your thumb and forefinger into a small diameter cone.



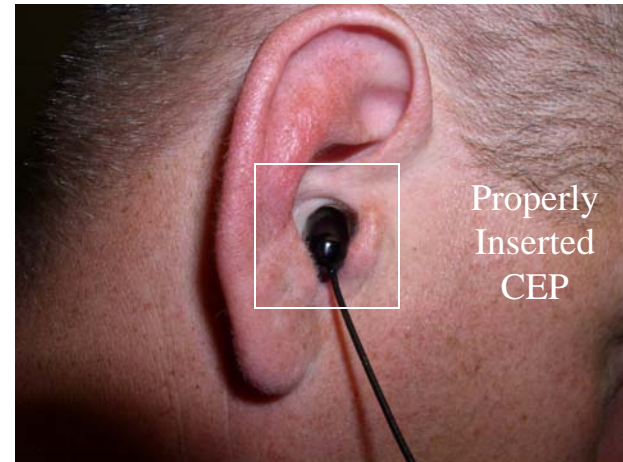
Inserting the CEP

- When compressed this tip should be smaller than the transducer housing of the CEP.
- Pulling the external ear out and forward slightly straightens the ear canal for proper insertion of the foam tip. Releasing the ear permits the ear canal to return to its normal state closing around the foam tip and providing for its proper retention.



Inserting the CEP

- Once inserted, very little foam should be visible at the ear canal opening. Position the transducer housing during the insertion so that the wire exits through the tragus notch of the external ear.
- At this point you may test to determine if you have inserted the earplug properly and have a good fit. Cup your hand over your ear and move your hand back and forth away from, and then against your external ear. If you hear nothing, you have a good fit and good seal from noise. If you hear white noise, you have a sound leak and you need to redo the fitting process.



Inserting the CEP

- Assuming a good fit, complete the insertion process for your other ear.
- **REMEMBER: ALWAYS COMPRESS THE TIP BEFORE INSERTION. NEVER FORCE OR SHOVE THE TIP INTO THE EAR CANAL.** Forcing an uncompressed ear tip into the canal will pull the foam portion away and expose the hard plastic insert. This exposed insert will cause pain if it touches the ear canal.



Interfacing the CEP with the Helmet

- Don and adjust your helmet. With your helmet in place and adjusted, Insert the CEP connector into the mating connector on the lower right back edge of the helmet. You will feel it snap into place. When inserting the connector keep the two connectors straight relative to each other.
- At this point, you may wish to attach the CEP wire to the back of your helmet with a small Velcro strip. This serves to keep the wires off of your neck during flight.



Removing and Storing the CEP

- When your mission is completed, disconnect the CEP before removing your helmet. Remove the CEP by grasping the transducer housing. You may again pull your ear out and forward to facilitate removal.
- Store the CEP in the hinged lid plastic container when not in use to protect the system and extend the life of the eartips.



Care of Eartips

- Ear tips can be cleaned, using mild hand soap and hot water. Hold the core of the tip and rotate while scrubbing the ear tip surface with the fingers of the other hand. Don't squeeze water through the foam while wet. After rinsing the tip, leave the water in the foam, set it aside for slow drying.
- With reasonable care , your CEPs will provide excellent hearing protection and communication effectiveness for many years. If you have questions related to the use and care of the CEP, please contact CEP, Inc.

