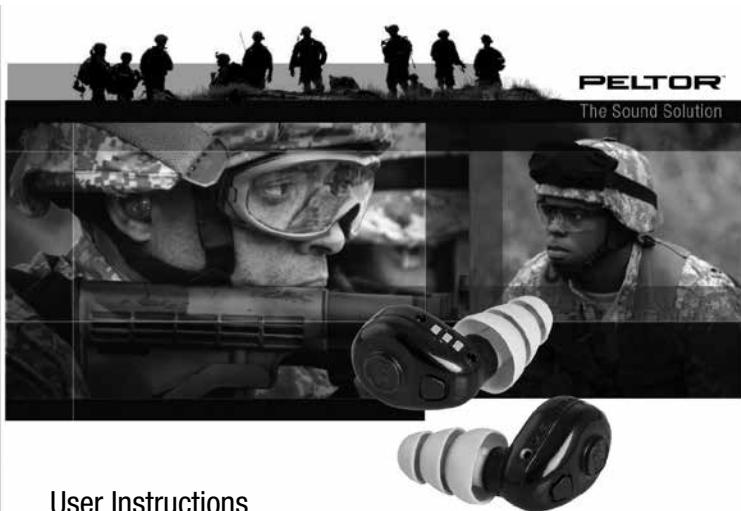


3M | PELTOR™

3M™ PELTOR™ Tactical Earplug, TEP-100

Protector de oídos táctico PELTOR™, TEP-100 de 3M™

Bouchon d'oreille tactique PELTOR™, TEP-100



User Instructions

Instrucciones de uso

Guide de l'utilisateur

3M™ PELTOR™ Tactical Earplug, TEP-100 User Instructions

Introduction

The 3M™ PELTOR™ Tactical Earplug, TEP-100 is a hearing protection device that helps provide the wearer with environmental listening capabilities.

Auditory Environmental Awareness describes the ability to use information gathered from the users environment through his/her sense of hearing. This includes sound detection, localization, distance estimation, face to face communication, and any other use of human hearing. Individuals such as soldiers or hunters spend significant time in a quiet environment where auditory environmental awareness is critical, yet have the need for on-demand hearing protection from weapons fire and other hazardous noise. A familiarization period, where the user adapts to the differences in auditory information as it comes through the tactical earplug, is highly recommended.

Important

Please read, understand, and follow all safety information in these instructions prior to use. Retain these instructions for future reference. **If these recommendations are not followed, both attenuation and function may be impaired.**

Warnings!

- **Misuse or failure to wear hearing protectors at all times that you are exposed to hazardous noise may result in hearing loss or injury.** For proper use, see supervisor, User Instructions, or contact 3M Technical Service. This hearing protector helps reduce exposure to hazardous noise and other loud sounds.
- Ensure the hearing protector is fitted, adjusted, regularly checked for serviceability, and maintained in accordance with these user instructions. **Improper fit of this device will reduce its effectiveness in attenuating noise. Consult the enclosed instructions for proper fit.**
- If there is any drainage from your ear or you have an ear infection, consult with your physician before wearing eartips. Failure to do so may result in hearing loss or injury.
- In instances where dual hearing protection is required, the tactical earplug should be powered off prior to use.

Cautions!

- For greater comfort and safety when using the three-flange 3M UltraFit Eartips, remove the eartip slowly with twisting motion to gradually break the seal.
- Only use compatible 3M™ PELTOR™ Eartips. Do not insert the earplug directly into the ear without a correctly attached 3M PELTOR eartip.
- When worn according to the User Instructions, this hearing protector helps reduce exposure to both *continuous* noises, such as industrial noises and noises from vehicles and aircraft, as well as very loud *impulse* noises, such as gunfire. It is difficult to predict the required and/or actual hearing protection obtained during exposure to impulse noises. For gunfire, the weapon type, number of rounds fired, proper selection, fit and use of hearing protection, proper care of hearing protection, and other variables will impact performance. If your hearing seems dulled or you hear a ringing or buzzing during or after any noise exposure (including gunfire), or for any other reason you suspect a hearing problem, your hearing may be at risk. To learn more about hearing protection for impulse noise, visit www.3M.com/hearing.

- 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 noise reduction ratings (NRR) are based on the attenuation of continuous noise and may not be an accurate indicator of the protection attainable against impulsive noise such as gunfire.

Attenuation Data

The Noise Reduction Rating (NRR) was obtained with the device powered Off. The NRR may overestimate the hearing protection provided during typical use due to variation in fit, fitting skill and motivation of the user. 3M recommends reducing the NRR by 50% or in accordance with applicable regulations. Improper fit or inconsistent use of this device will reduce its effectiveness in attenuating noise. Consult the fitting instructions illustrated in this instruction manual for proper fit.

Example:

- The environmental noise level as measured at the ear is 92 dB(A).
- The NRR is 23 decibels (dB).
- The level of noise entering the ear is approximately equal to 69 dB(A).

Note: 3M recommends fit testing of hearing protectors.

LABORATORY ATTENUATION

3M™ UltraFit™ Communication Eartips

ANSI S3.19-1974

Test frequencies (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA CLASS
Mean attenuation (dB)	36.2	33.7	34.7	32.0	34.5	37.4	35.6	38.0	37.5	23	AL
Standard deviation (dB)	5.1	5.2	5.5	3.9	3.4	5.3	6.5	4.4	5.4		

3M™ PELTOR™ CCC-GRM-25 Communication Eartips

ANSI S3.19-1974

Test frequencies (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA CLASS
Mean attenuation (dB)	34.5	30.6	36.3	35.2	35.5	38.6	37.6	44.6	45.7	27	AL
Standard deviation (dB)	4.2	3.9	4.1	3.0	3.5	3.3	3.8	3.6	4.3		

3M™ Skull Screws™ Communication Eartips (not included)

ANSI S3.19-1974

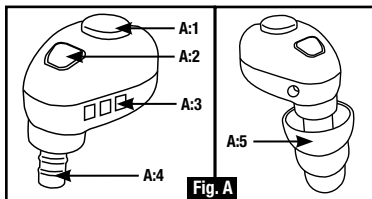
Test frequencies (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA CLASS
Mean attenuation (dB)	36.3	35.7	39.8	41.4	40.4	43.0	41.9	48.2	46.0	30	AL
Standard deviation (dB)	5.3	5.5	5.5	4.2	3.4	4.6	3.5	4.6	4.2		

Product Note

- Operating temperature range for the earpiece: -4°F to 122°F (-20°C to 50°C).
- Storage temperature range (complete kit): -4°F to 122°F (-20°C to 50°C).
- Charging temperature range: 32°F to 122°F (0°C to 50°C).

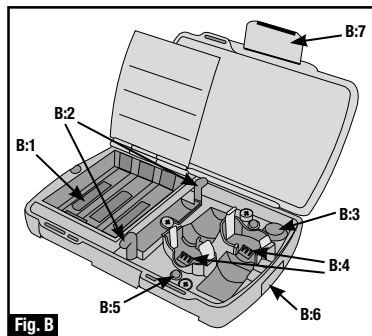
Product Components: Earpiece

1. Power / Volume Button (Fig. A:1)
2. Microphone (Fig. A:2)
3. Charging contacts (Fig. A:3)
4. Eartip stem (Fig. A:4)
5. Eartip (Fig. A:5)



Charging Case

1. Battery compartment (Fig. B:1)
2. Retention cord storage posts (Fig. B:2)
3. Test / Status button (Fig. B:3)
4. Earpiece charging receptacle (Fig. B:4)
5. Indicator light (Fig. B:5)
6. Micro B USB charging port (Fig. B:6)
7. Latch (Fig. B:7)

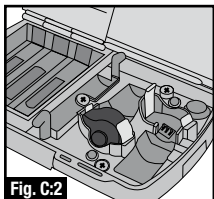
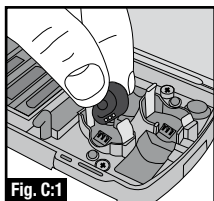


Charging

The 3M™ PELTOR™ Tactical Earplug, TEP-100 should be charged before first use. The 3M PELTOR Tactical Earplugs, TEP-100 are charged inside the charging case using 3 AA batteries or Micro B USB cord (not provided). Charging takes approximately 90 minutes, regardless of charging method.

Charging by Battery

1. To insert the 3 AA batteries into the battery compartment (Fig.B:1), open the charging case by firmly lifting up on the latch (Fig.B:7).
2. Gently open the battery compartment door inside the charging case.
3. Insert the batteries while ensuring (+)(-) poles are aligned according to the diagram on the charging case.
4. Close the battery compartment door.
5. Locate and line up the charging contacts on both the earpiece (Fig.A:3) and charging receptacle inside the case (Fig.B:4). Insert the narrow end of the earpiece first (Fig.C:1), then gently rock and snap it into the receptacle (Fig.C:2).
6. Repeat for second earpiece.



Important: Ensure the charging contacts (Fig.A:3) on the earpiece are pointed down so contact is made with the charging points in the receptacle. Push the test status/button (Fig.B:3) to verify a good connection is made between the earpieces and the charging points in the receptacle. Observe the indicator light (Fig. B:5 and Fig.D).

Fig. D	LIGHT SEQUENCE	STATUS
	Solid Red	Charging
	Blinking Red	Not Charging
	Fast Blinking Red	Temperature Fault
	Solid Yellow	Charging - Low Battery
	Blinking Yellow	Not Charging - Low Battery
	Solid Green	Charging Complete

Charging via Micro B USB Port

To charge the earpieces (not the AA batteries), follow below:

1. Plug the Micro B end of the USB cable (not included) into the charging case (Fig.B:6) and the opposite end into a USB power source. The charger will automatically detect the USB connection and draw power from it instead of from the AA batteries.
2. Push the test/status button (Fig.B:3) to make sure a good connection is made between the earpieces and the charging points in the receptacle (Fig.B:4). Observe the indicator light (Fig.B:5) to ensure the earpieces are charging (Fig.D).

Removing the Earpieces from the Charging Unit

1. To remove the earpieces from the charging unit, gently lift up on the earpiece while holding on to the charging case.

Note: With Effect of Temperature, the charging case is designed to prevent charging in temperatures below -4°F (-20°C) and above 122°F (50°C).

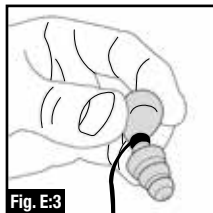
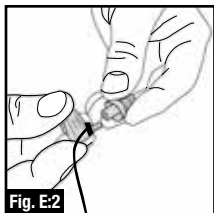
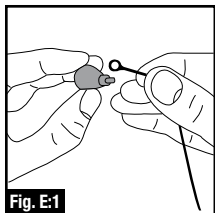
Eartip Selection

Three 3M™ UltraFit™ Eartip sizes (small: 7-12mm; medium: 8-13mm; and large: 9-16mm) are provided as well as a single size of the 3M™ PELTOR™ CCC-GRM-25 Eartips. To choose the appropriate 3M UltraFit eartip size as well as a single size 3M PELTOR CCC-GRM-25 Eartips, begin with the medium size. Ensure that it is small enough to penetrate the ear canal and provide a secure fit, but is also large enough that at least one flange seals the ear canal at the canal entrance. If the medium size does not provide a proper fit, proceed with the small or large size eartips as these were designed to fit users for whom the medium size is not suitable. With the 3M Skull Screws (not included) and 3M CCC-GRM-25 Eartips, one size is intended to fit most. **Do not use product if the proper size and fit cannot be obtained.**

Attaching Eartips and Optional Retention Cord

Use only 3M™ PELTOR™ Eartips designed for use with this product. Do not insert the earpiece (Fig. A:4) directly into the ear without a correctly attached 3M PELTOR eartip.

1. To attach the optional retention cord, place one end of the retention cord onto the eartip stem (Fig. A:4 and Fig. E:1).
2. Push eartips (Fig. A:5) onto the eartip stem (Fig. A:4 and Fig. E:2).
3. Fully seat the eartip at the base of the eartip stem (Fig. E:3).

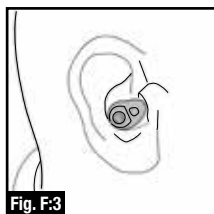
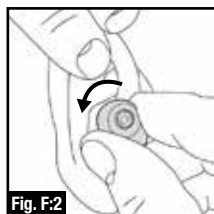
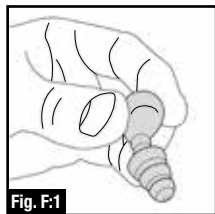


Fitting 3M PELTOR Tactical Earplug, TEP-100

The earpiece should be powered off prior to insertion. Eartips should be clean and in good condition before fitting.

1. Select a proper eartip size for your ear canal.
2. Hold the tactical earplug with the eartip attached (Fig.F:1).
3. Insert rounded eartip into ear canal while pulling the ear outward away from the head and upward with the opposite hand (Fig.F:2).
4. Rotate the tactical earplug toward the back of the head (Fig.F:3).
5. With the tactical earplug powered off, **check to ensure you have a good eartip fit.** Pull the earpiece gently. It should not come out of ear easily. If it does, repeating insertion. Listen to steady loud noise with eartips in both ears. The noise should sound softer. Cover ears with tightly cupped hands. Noise should sound about the same whether or not ears are covered. If you cannot obtain a good fit, try a different type or size of eartip.

CAUTION! For greater comfort and safety when using the three-flange 3M UltraFit Eartips, remove the eartip slowly with twisting motion to gradually break the seal.



Operating 3M PELTOR Tactical Earplug, TEP-100

1. **Power On:** Press and hold the Power/Volume button (Fig.A:1) for two seconds. You may release the button when you hear a tone. The earpiece should now be on and in the normal volume setting. Repeat this process for the other earpiece.

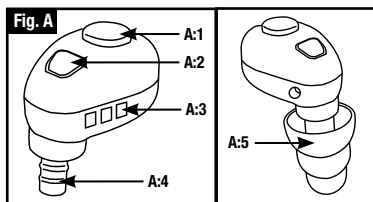
Note: When the earpiece is turned on and properly fitted in your ear, sound entering your ear should not sound distant, faint, or muffled. If it does, make sure the device is turned on.

2. **To change between the two listening levels,** quickly press and release the Power/Volume button to toggle between the “normal” and “high” volume settings. A short, high pitch tone will be heard when moving to the “high” volume setting and a short, low pitch tone will be heard when moving to the “normal” volume setting. When using the “normal” volume setting, sounds entering the ear canal should be about the same volume as if the user was not wearing hearing protection. The “high” volume setting should give the user a sense of amplification.

3. **Automatic shutoff:** To conserve battery power, the device has an automatic shutoff timer. The 3M PELTOR Tactical Earplug, TEP-100 will automatically shutoff when the Power/Volume button has not been pressed for 2 hours. During the last 60 seconds before shutoff, a warning tone will sound every 10 seconds indicating the automatic shutoff timer. To reset the automatic shutoff timer, the user should press the Power/Volume button.

4. **Power Off:** Press and hold the Power/Volume button for two seconds, until a double beep is heard. Then the button can be released and the earpiece is powered off. Repeat this process for the other earpiece.

Note: When the earpiece is powered off, and the devices are in the ear canals and properly fitted, noise reduction is similar to having conventional earplugs in your ears.

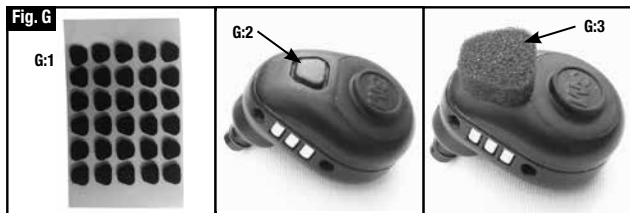


Windscreen: Attach/Detach

The windscreen may be used in high wind conditions and should help minimize wind noise.

1. Remove a disposable windscreen from the perforated windscreen sheet backing (Fig.G:1).
2. Locate the tactical earplug microphone (Fig.G:2).
3. Carefully center the disposable windscreen over the microphone port and press the adhesive backed windscreen to the microphone port (Fig.G:3).
4. To detach, remove the windscreen and dispose when necessary. To attach, follow steps 1-3.

Note: After storing and/or recharging the tactical earplug in the charging case, it may be necessary to remove the old disposable windscreen and replace with a new screen.



Storage

Remove the batteries when storing the charging case for extended periods of time. Please refer to the storage temperature ranges listed in the “Product Note” section.

Cleaning and Maintenance

Charging Case

The interior of the charging case should be kept free from dust and debris. The charging points must make direct contact with the charging contact on the earpiece to ensure charging. Cleaning these contact points with a cotton swab or soft cloth is recommended if visual inspection reveals debris or if the user experiences problems charging the earpieces.

To maintain water resistance capability, the perimeter of the charging case and seal ring must be kept free of dirt and other materials that would prevent proper closing of the case and the Micro B USB charging port cover must be closed.

3M PELTOR Tactical Earplug, TEP-100

The tactical earplug can be cleaned with a lightly damp cloth. Using a cotton swap to clean the charging contacts may be required if debris is visible or if the user experiences problems charging the earpieces.

3M UltraFit Eartips

Wash eartips with warm water and soap as needed. Look for tears or cracks under any of the flanges. Replace as needed.

3M Skull Screws Eartips and 3M CCC-GRM-25 Eartips

Clean by wiping with a clean, dry cloth. Replace if the eartip is damaged, detached from the stem, or is not soft and pliable.

Maintenance and Use: Important

1. Use only new alkaline, AA or LR6 type batteries.
2. If using an external power supply for charging the earplugs, only connect to a listed power supply certified to IEC/UL/CSA 60950-1 or an equivalent local safety standard. The power supply shall have a rated output of 5Vdc, 200mA (minimum).

Reorder: Product and Accessories

Replacement eartips are available from 3M. Navigate to 3M.com/PELTOR for additional ordering information. To reorder additional eartips, use 3M ID/product codes.

3M Stock Number	Product Number	Description
70-0716-5628-7	TEP-100	3M™PELTOR™ Tactical Earplug, TEP-100 Kit
70-0716-7379-5	TEP-CORD	3M™ PELTOR™ Tactical Earplug Replacement Cord
70-0716-5025-6	TEP-100E	3M™ PELTOR™ Replacement Earpiece
70-0716-5026-4	TEP-100C	3M™ PELTOR™ Tactical Earplug Replacement Case
70-0716-7374-6	370-TEPL-25	3M™ PELTOR™ UltraFit™ Communication Tips Replacement, Large
70-0716-7373-8	370-TEPM-25	3M™ PELTOR™ UltraFit™ Communication Tips Replacement, Medium
70-0716-7372-0	370-TEPS-25	3M™ PELTOR™ UltraFit™ Communication Tips Replacement, Small
70-0716-1527-5	370-1019-10	3M™ PELTOR™ Skull Screw™ Communication Tips Replacement
70-0716-7521-2	CCC-GRM-25	3M™ PELTOR™ CCC-GRM-25 Communication Tips Replacement

EMC Compliance

This device complies with Part 15 of the FCC rules and Industry Canada's Radio Standards Specifications. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesirable operation.

Note: This device has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation distance between the two interfering devices.
- Consult 3M Technical Support.
CAN ICES-3 (B)/NMB-3(B)

Battery Disposal

The 3M Tactical Earplugs have a non-replaceable lithium-ion battery. Many rechargeable batteries are required to be recycled by local, state/province, and national laws. To properly recycle/dispose of the battery, always follow local solid waste disposal regulations. Additionally in the United States and Canada, 3M Company is partnering with Call2Recycle (RBRC) to provide recycling service to you to help ensure that the rechargeable batteries within our products are recycled properly. To assist you in using this service call the Call2Recycle battery recycling information help line at 1-800-8-BATTERY (1-800-822-8837) or consult Call2Recycle's battery recycling guidance online at www.call2recycle.org.



Battery Note

Do not mix old and new batteries.

Do not mix alkaline, standard, or rechargeable batteries.

To properly dispose of the AA batteries, follow local solid waste disposal regulations.

No Modifications: Modifications to this device shall not be made without the written consent of the 3M Company. Unauthorized modifications may void the warranty and the authority granted under Federal Communications Commission rules permitting the operation of this device.

WARRANTY AND LIMITATION OF LIABILITY

Note: The following statements do not apply in Australia and New Zealand.

Consumers should rely on their statutory rights.

WARRANTY: In the event any 3M Personal Safety Division product is found to be defective in material, workmanship, or not in conformity with any express warranty for a specific purpose, 3M's only obligation and your exclusive remedy shall be at 3M's option, to repair, replace or refund the purchase price of such parts or products upon timely notification of the issue by you and substantiation that the product has been stored, maintained and used in accordance with 3M's written instructions. EXCEPT WHERE PROHIBITED BY LAW, THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHER WARRANTY OF QUALITY, OR THOSE ARISING FROM A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE, EXCEPT OF TITLE AND AGAINST PATENT INFRINGEMENT. 3M has no obligation under this warranty with respect to any product that has failed due to inadequate or improper storage, handling, or maintenance; failure to follow product instructions; or alteration or damage to the product caused by accident, neglect, or misuse.

LIMITATION OF LIABILITY: EXCEPT WHERE PROHIBITED BY LAW, IN NO EVENT SHALL 3M BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL LOSS OR DAMAGES (INCLUDING LOST PROFITS) ARISING FROM THIS PRODUCT, REGARDLESS OF THE LEGAL THEORY ASSERTED. THE REMEDIES SET FORTH HEREIN ARE EXCLUSIVE.



3M Personal Safety Division

3M Center
St. Paul, MN 55144-1000

FOR MORE INFORMATION

In United States, contact:

Website: www.3M.com/PELTOR
Technical Assistance: 1-800-665-2942
PELTOR.comms@mmm.com

In Canada, contact:

1-855-484-3093
PELTOR.comms.canada@mmm.com

3M PSD products are occupational use only

For other 3M products:
1-800-3M-HELPS or 1-651-737-6501

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Patent: www.3M.com/patent

3M Personal Safety Division

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FOR MORE INFORMATION/ POUR OBTENIR DE PLUS AMPLES RENSEIGNEMENTS

In Canada, contact/Au Canada, communiquer avec :

Internet : www.3M.ca/safety Technical
Assistance/Assistance technique :
1 800 267-4414 Centre d'aide à la
clientèle/Customer Care Center :
1 800 364-3577

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In Australia, contact:

Customer Service: 1300 363 565
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E-mail: techassist@mmm.com.au
Website: www.3M.com/au/PPESafety

In New Zealand, contact:

Customer Service: 0800 252 627
TechAssist Helpline: 0800 364 357
www.3M.com/nz/PPESafety

PARA OBTENER MÁS INFORMACIÓN en los Estados Unidos:

Internet: www.3M.com/PELTOR
Información técnica: 1-800-665-2942

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