

**3M Personal Safety Division**

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**FOR MORE INFORMATION**

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FP3869REVB

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**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](http://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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**3M**

**PELTOR™**

# ComTac™ VII



# LABORATORY ATTENUATION

U.S. EPA specifies the NRR as the measure of hearing protector noise reduction. However, 3M makes no warranties as to the suitability of the NRR for this purpose. 3M strongly recommends personal fit testing of hearing protectors. Research suggests that users may receive less noise reduction than indicated by the attenuation label value(s) on the packaging due to variation in fit, fitting skill, and motivation of the user. Refer to applicable regulations for guidance on how to adjust attenuation label values. It is recommended that the NRR be reduced by 50% to better estimate typical protection. The attenuation rating (NRR) was obtained with the device powered off.

## STANDARD ANSI S3.19-1974

### MT14H41A-300NA



**A:A Headband with foam cushion**

A:1 Frequency (Hz) (f)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
A:2 Mean attenuation (dB) (Mf)	14.0	19.4	27.9	32.3	31.7	39.7	44.5	40.1	41.0	22	
A:3 Standard deviation (dB) (sf)	2.7	3.2	2.6	2.1	2.8	3.6	3.4	2.6	2.2		B

### MT14H41A-300NA with HY80



**A:B Headband with gel cushion**

A:1 Frequency (Hz) (f)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
A:2 Mean attenuation (dB) (Mf)	14.9	18.5	27.1	34.5	34.1	39.8	42.1	40.9	40.1	23	
A:3 Standard deviation (dB) (sf)	2.6	2.4	2.5	2.8	2.5	3.2	3.4	2.7	2.9		A

### MT14H41A-300NA



**A:C Helmet attachment with foam cushion on  
3M Combat High Cut Ballistic Helmet C105HC**

A:1 Frequency (Hz) (f)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
A:2 Mean attenuation (dB) (Mf)	13.1	19.2	27.0	31.0	31.4	39.0	43.1	42.0	42.2	22	
A:3 Standard deviation (dB) (sf)	2.9	2.7	2.2	2.0	2.8	2.9	3.2	3.0	3.3		B

### MT14H41A-300NA with HY80



**A:D Helmet attachment with gel cushion on  
3M Combat High Cut Ballistic Helmet C105HC**

A:1 Frequency (Hz) (f)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
A:2 Mean attenuation (dB) (Mf)	13.7	17.5	25.8	34.2	34.9	39.7	42.3	41.9	40.8	22	
A:3 Standard deviation (dB) (sf)	2.8	2.5	2.2	2.1	2.3	2.8	3.8	2.9	2.3		A





# **3M™ PELTOR™ ComTac™ VII**

EN	1-16
ES	17-32
FR	33-48

## 3M™ PELTOR™ ComTac™ VII Headset

MT14H41A-300NA (all product variants)

### 1. INTRODUCTION

Congratulations and thank you for choosing 3M™ PELTOR™ protective communication solutions! Welcome to the next generation of protective communication.

#### 1.1. INTENDED USE

These 3M™ PELTOR™ headsets are intended to help protect against hazardous noise levels and loud sounds while allowing the user to hear the surroundings via the ambient/environmental microphones, listen to connected communication devices, and communicate face-to-face with integrated Natural Interaction Behavior (NIB) Technology in high levels of steady state noise. It is expected that all users read and understand the provided user instructions as well as be familiar with the use of this device.

### 2. SAFETY

#### 2.1. IMPORTANT

Please read, understand, and follow all safety information in these instructions prior to use. Retain these instructions for future reference. For additional information or any questions, contact 3M Technical Services. Refer to contact information listed on the last page of this manual.

#### WARNING

- This hearing protector helps reduce exposure to hazardous noise and other loud sounds. Misuse or failure to wear hearing protection at all times when exposed to hazardous noise may result in hearing loss or injury. For correct use, consult supervisor and User Instructions, or call 3M Technical Services. 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, leave the noisy environment immediately and consult a medical professional and/or your supervisor.

##### **Failure to follow these instructions may result in serious injury or death:**

- Listening to audio communication may reduce your situational awareness and ability to hear warning signals. Stay alert and adjust the audio volume to the lowest acceptable level.
- To reduce the risks associated with igniting an explosion, do not use this product in a potentially explosive atmosphere.

##### **Failure to follow these instructions may reduce the protection provided by the earmuff and may result in hearing loss:**

- U.S. EPA specifies the NRR as the measure of hearing protector noise reduction. However, 3M makes no warranties as to the suitability of the NRR for this purpose. 3M strongly recommends personal fit testing of hearing protectors. Research suggests that users may receive less noise reduction than indicated by the attenuation label value(s) on the packaging due to variation in fit, fitting skill, and motivation of the user. Refer to applicable regulations for guidance on how to adjust attenuation label values. It is recommended that the NRR be reduced by 50% to better estimate typical protection.
- Ensure the hearing protector is properly selected, fit, adjusted, and maintained. Improper fit of this device will reduce its effectiveness in attenuating noise. Consult the enclosed instructions for proper fit.
- DO NOT use the headset in Earplug Mode without properly fitted earplugs under the earcups, as the increase in audio volume may reach an unsafe level. Failure to wear properly fitted earplugs while operating in Earplug Mode may result in hearing loss or injury.
- Inspect the hearing protector before each use. If damaged, select an undamaged hearing protector or avoid the noisy environment.
- When additional personal protective equipment is necessary (e.g. safety glasses, respirators, etc.) select flexible, low profile temples or straps to minimize interference with the earmuff cushion. Remove all other unnecessary articles (e.g. hair, hats, jewelry, headphones, hygiene covers, etc.) that could interfere with the seal of the earmuff cushion and reduce the protection of the earmuff.
- Do not bend or reshape the headband or neckband, and ensure there is adequate force to hold the earmuffs firmly in place.
- Earmuffs, and in particular cushions, may deteriorate with use and should be examined at frequent intervals for cracking and leakage, for example. When used regularly, replace the ear cushions and foam liners at least twice a year to maintain consistent protection, hygiene, and comfort.
- The output of the electrical audio circuit of this hearing protector may exceed the daily limit sound level. Adjust the audio volume to the lowest acceptable level. Sound levels from any connected external device such as 2-way radios and phones may exceed safe levels and must be appropriately limited by the user. Always use external devices at the lowest sound level possible for the situation and limit the amount of time you are exposed to unsafe levels as determined by your employer and applicable regulations. If your hearing seems dulled or you hear a ringing or buzzing during or after any sound exposure, or for any other reason you suspect a hearing problem, go to a quiet environment immediately and consult a medical professional and/or your supervisor.

- If the requirements above are not adhered to, the protection afforded by the earmuffs will be severely impaired.

## 2.2. CAUTION

- Risk of explosion if battery is replaced by an incorrect type.
- Always use product-specific 3M replacement parts. Use of unauthorized replacement parts may reduce the protection you receive from this product.

## 2.3. NOTE

- When worn according to these 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. To learn more about hearing protection for impulse noise, visit [www.3M.com/hearing](http://www.3M.com/hearing).
- This earmuff is provided with electrical audio input. The wearer should check correct operation before use. If distortion or failure is detected, the wearer should refer to the manufacturer's advice.
- In Canada, users of hard hats combined with earmuffs must refer to CSA Standard Z94.1 on industrial protective headwear.
- When selecting accessories to respiratory personal protective equipment, such as hard hat mounted hearing protection, please consult the NIOSH approval label or consult 3M Technical Services for approved configurations.

## 2.4. U.S. EPA REQUIRED STATEMENTS

Improper fit of this device will reduce its effectiveness in attenuating noise. Consult the enclosed instructions for proper fit.

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

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 NRR.

*Example*

1. The environmental noise level as measured at the ear is 92 dB(A).
2. The NRR is 22 decibels (dB).
3. The level of noise entering the ear is approximately equal to 70 dB(A).

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

## 3. FCC AND IC INFORMATION

This device complies with Part 15 of the FCC rules and Industry Canada's license-exempt 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:** Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

**Note:** This equipment 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 equipment 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 equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment 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 between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This portable device with its antenna complies with FCC/IC RF exposure limits for general population / uncontrolled exposure. The antenna used for this device must not be co-located or operating in conjunction with any other antenna or transmitter.

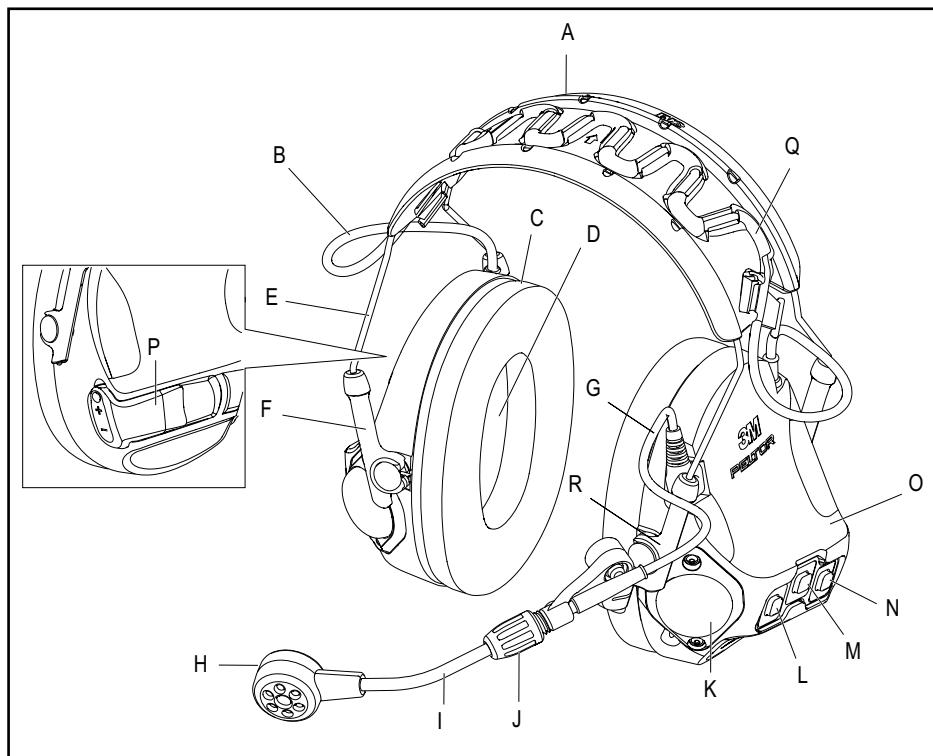
This Device complies with Industry Canada License-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

## 4. LABORATORY ATTENUATION

### 4.1. EXPLANATION OF LABORATORY ATTENUATION TABLES

A:A	Headband with foam cushion
A:B	Headband with gel cushion
A:C	Helmet attachment with foam cushion
A:D	Helmet attachment with gel cushion
A:1	Frequency (Hz) (f)
A:2	Mean attenuation (dB) (Mf)
A:3	Standard deviation (dB) (sf)

## 5. OVERVIEW



- |                                      |                                    |
|--------------------------------------|------------------------------------|
| A Headband                           | K Environmental/Ambient microphone |
| B Headband cable                     | L + button                         |
| C Ear cushion                        | M NIB button                       |
| D Foam liner                         | N - button                         |
| E Headband wire                      | O Earcup                           |
| F Guide                              | P Battery compartment cover        |
| G Communication microphone connector | Q Guide for the headband cable     |
| H Communication microphone           | R Communication microphone guide   |
| I Communication microphone arm       |                                    |
| J Adjustable screw                   |                                    |

## 6. EXPLANATION OF SYMBOLS



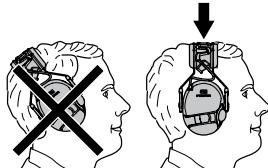
Recycling Symbol. Recycle this product at a recycling station for electrical and electronic equipment.

NOTE: Other symbols/decals may occur on the product due to certification requirements for some commercial areas.

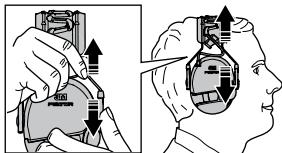
## 7. TO FIT THE HEADSET

### 7.1. TO FIT THE HEADBAND

1. Put the earmuffs in position over your ears.  
**NOTE:** Make sure that the headband is in position across the top of your head.

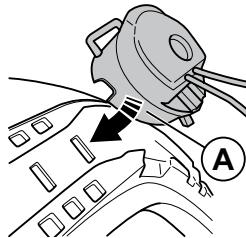


2. Hold the earcup and push the headband wire up or down.



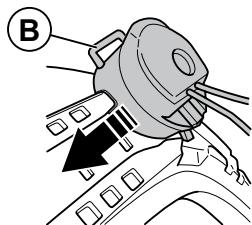
### 7.2. TO FIT THE HELMET ATTACHMENT

1. Insert the lower lip (A) of the Accessory Rail Connectors (ARC) connector attachment in the rail entry slot of the ARC.



**Note:** Make sure the ARC connector is positioned according to the illustration.

2. Slide forward to lock into position. Ensure the square loop (B) is up.

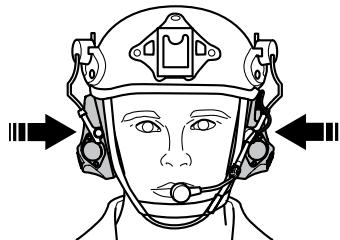


**Caution:** The ARC connector should be positioned directly above the ear to ensure correct positioning of the headset earcup.



#### 7.2.1. TO PUT THE HELMET ATTACHMENT INTO TACTICAL MODE

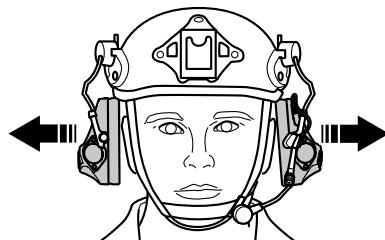
- Push the earcup inwards until a click sound ensures the earmuffs are locked into position.  
**Note:** Ensure the ear fits within the cushion.



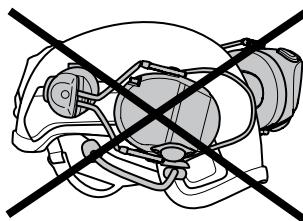
#### 7.2.2. TO PUT THE HELMET ATTACHMENT INTO VENTILATION MODE

- Pull the earcups up and outwards until the earmuffs lock into position, allowing a space between the cushion and the ear.

**Note:** The headset does not offer any hearing protection when in ventilation mode.



**Note:** To avoid damage to the earcup adjustment arm, do not rotate the earcups placing them against the helmet.



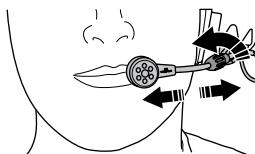
## 7.3. COMMUNICATION MICROPHONE

To maximize the performance of the communication microphone in noisy areas, position the communication microphone very close to your mouth (< 3 mm / < 1/8 in.).

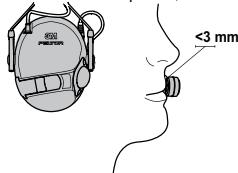
**Note:** When used in high altitudes/aviation the surrounding pressure can be reduced rapidly and affect the communication microphone sensitivity, for example during helicopter ascent. If this occurs position the microphone closer and/or speak louder to increase the pressure on the communication microphone membrane.

### 7.3.1. TO ADJUST THE MICROPHONE

1. Fold the microphone towards the corner of your mouth.
2. Release the adjustable screw.



3. Set the distance of the microphone, < 3 mm / < 1/8 in.

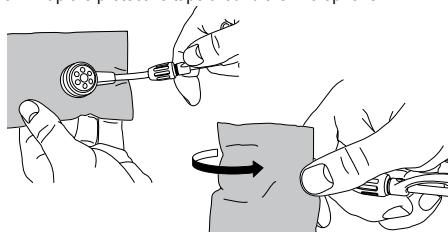


4. Tighten the adjustable screw.

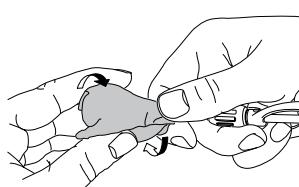
## 7.4. TO INSTALL THE PROTECTIVE TAPE

**Note:** For best performance, replace the protective tape when damaged, dirty or deformed.

1. Cut approximately 10 cm/4 in. of the protective tape. Refer to "14. Accessories".
2. Remove the backing from the protective tape.
3. Wrap the protective tape around the microphone.



4. Apply pressure to the protective tape.



## 8. INSTRUCTIONS FOR OPERATION

### 8.1. OPERATING TEMPERATURE

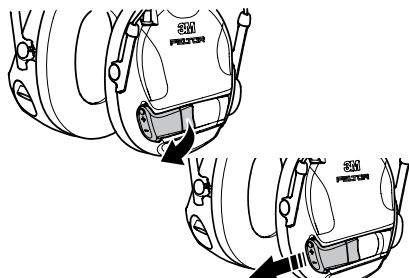
-20°C/-4°F to 50°C/122°F.

### 8.2. TO REPLACE THE BATTERIES

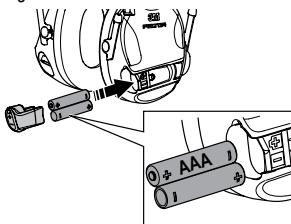
The ComTac™ VII headset requires 2 AAA batteries to operate.

**Note:** The headset will indicate low battery level with an audio message "Low battery".

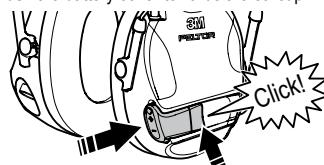
1. Lift the inner side of the battery cover.
2. Push the battery cover outwards.



3. Insert the batteries into the battery compartment according to the illustration.

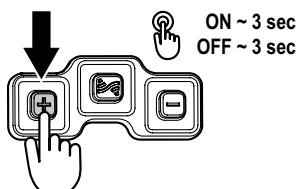


4. Close the battery cover.
5. Push the battery cover towards the earcup.



### 8.3. TO POWER ON/OFF THE HEADSET

1. Press and hold the + button for minimum of 3 seconds.



The headset will indicate power mode with appropriate audio message of "Power on" or "Power off".

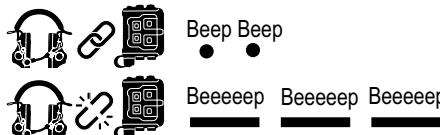
**Note:** A beeping sound indicates the headset is not connected to the SCU-300. Refer to section "8.4. To connect the headset to a paired SCU-300".

## 8.4. TO CONNECT THE HEADSET TO A PAIRED SCU-300

This product uses Near Field Magnetic Induction (NFMI), to connect wirelessly to the SCU-300. NFMI is a short range wireless physical layer that communicates by coupling a tight, low-power, non-propagating magnetic field between devices. The range is  $\approx 50\text{ cm}/20\text{ in}$ . NFMI systems are designed to contain transmission energy within the localized magnetic field and the energy does not radiate into free space.

If previously connected with the SCU-300, the ComTac™ VII will connect automatically when within range of the SCU-300.

1. Start the headset. Refer to "8.3. To power On/Off the headset".
2. Press the menu button on the SCU-300 for  $\sim 2$  seconds.
3. The headset will indicate pairing.
  - a. 2 short beeps, indicates a successful pairing to the SCU-300.
  - b. 3 long beeps, indicates a failed pairing to the SCU-300.



**Note:** Beeping sounds only occurs if the headset has previously been paired with the SCU.

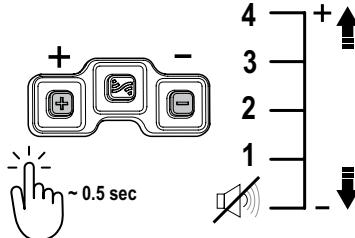
If the pairing fails, press the menu button on the SCU-300 for  $\sim 10$  seconds. Or until 2 short beeps are heard in the headset. For more information, refer to user instructions for the SCU-300.

### 8.4.1. TO CONNECT THE HEADSET TO THE SCU-300 FOR THE FIRST TIME

- Refer to the manual for SCU-300.

## 8.5. TO ADJUST THE VOLUME

- Short press the + button to turn up the ambient (environmental) volume.
- Short press the - button to lower the ambient (environmental) volume.
- To turn off the ambient microphone, press the - button until "Ambient listening off" is heard. The headset is now in Silent Mode.



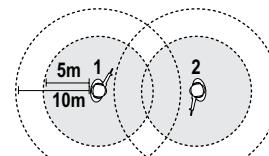
The headset will indicate reaching maximum volume with a beeping sound.

## 8.6. TO USE THE NIB FUNCTION

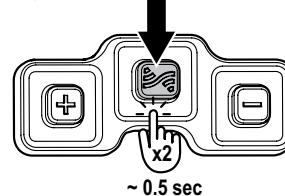
NIB offers electronic, headset-to-headset communication with a transmission range of  $\approx 10\text{ m}/11\text{ yd}$  from the speaker. There is no limit regarding how many people within that transmission range that can receive the transmission.

Up to 4 users within  $\approx 150\text{ m}/165\text{ yd}$  can transmit simultaneously using 1 of 4 open slots/channels. Once all 4 channels are active, no one else in the group can transmit until a channel becomes available. If a fifth person tries to transmit, a beeping sound will indicate that the message was not transmitted. This  $\approx 150\text{ m}/165\text{ yd}$  range is in an open field (line in sight) and may be reduced by physical structures.

**Note:** Optimal signal for communication is reached within a radius of  $\approx 5\text{ m}/5.5\text{ yd}$ . NIB volume within the  $\approx 5\text{ m}/5.5\text{ yd}$  is maximized. NIB volume will decrease in the  $\approx 5\text{--}10\text{ m}/5.5\text{--}11\text{ yd}$  range as the listener gets further from the speaker.



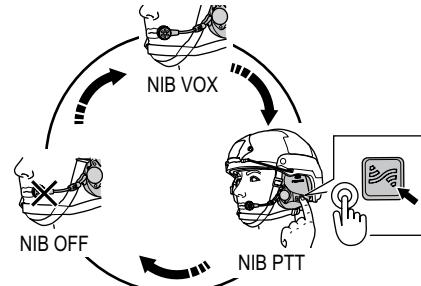
1. Double tap on the NIB button to access the NIB menu.



There are 3 different NIB modes.

- NIB VOX
- NIB PTT
- NIB OFF

**Note:** The NIB is constantly active in both NIB PTT and NIB VOX Modes. To silence all NIB activity completely, switch headset to NIB OFF Mode.



### 8.6.1. NIB VOX

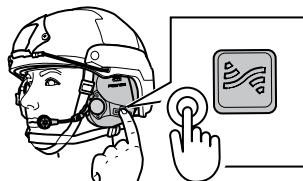
NIB VOX Mode allows for hands free communications using NIB when noise levels rise to approximately 80 dB Sound Pressure Level (SPL). The NIB Button can be used as a PTT for NIB communications in noise levels less than 80 dB SPL.

For environments with irregular noise levels the PTT button can also be used to manually control the voice transmit.

**Note:** NIB is equipped with a busy channel signal (three beeps), to notify the user that the headset did not transmit an outgoing NIB transmission. In NIB VOX Mode, loud sounds, such as weapons fire, or wind striking the communications mic at high speed, can activate NIB transmission. If more than four connected headsets are in NIB VOX Mode and operating in one of the conditions listed, the headset misinterprets the loud sound to be that of a user attempting to transmit. When this happens, the user will hear a repeating busy channel signal in their headset. If this occurs, the user can place the headset in NIB PTT or NIB OFF Mode to reduce the busy channel signal. Additionally, a user can turn off warning signals in the headset menu.

### 8.6.2. NIB PTT

1. Press and hold the NIB button when speaking into the microphone.



2. Release the NIB button when the message is complete.
- NOTE:** Make sure that the NIB button is not pressed when you are not speaking into the microphone.

### 8.6.3. NIB OFF

The NIB function is off.

## 8.7. DUAL PROTECTION AND EARPLUG MODE

The Tactical Modular Audio System (TMAS) is designed to allow dual hearing protection for high noise exposures. The TEP-300 or a non-electronic (passive) hearing protector can be worn under the ComTac™ VII to achieve dual hearing protection. When a non-electronic (passive) hearing protection device is used, it may be necessary to place the ComTac™ VII in Earplug Mode to maintain environmental auditory awareness and communications.

**NOTE:** The user must achieve an adequate hearing protector fit for both in-ear and over-ear hearing protectors to receive dual protection.

### 8.7.1. DUAL PROTECTION WITH TEP-300

1. Insert and power-on the TEP-300. Refer to TEP-300 User Instructions.
2. Place the ComTac™ VII over the ears and power-on. Refer to section "8.3. To power On/Off the headset".
3. Start the SCU-300. Refer to SCU-300 and TMAS User Instructions.
4. The headset and SCU will automatically detect the TEP-300.

### 8.7.2. DUAL PROTECTION WITH PASSIVE HEARING PROTECTOR AND EARPLUG MODE

Earplug Mode is useful when dual hearing protection is required, and the user prefers a passive hearing protection device, such as the 3M™ E-A-R™ Classic™ earplug.

**WARNING!** DO NOT use the headset in Earplug Mode without properly fitted earplugs under the earcups, as the increase in audio volume may reach an unsafe level. Failure to wear properly fitted earplugs while operating in Earplug Mode may result in hearing loss or injury.

1. Properly fit the passive hearing protector.
2. Place the ComTac™ VII over the ears.

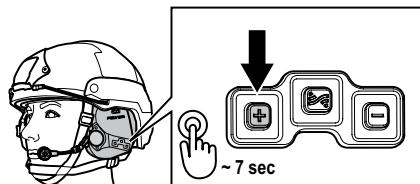
**If the headset is powered off:**

3. Press and hold the + button until an audio message says "Power on".
4. Keep pressing the + button until an audio message confirms "Earplug Mode".

5. Turn off ComTac™ VII to turn off the Earplug Mode.

**If the headset is powered on:**

3. Press and hold the + button until an audio message says "Power off".
4. Keep pressing the + button until an audio message confirms "Earplug Mode".
5. Turn off ComTac™ VII to turn off the Earplug Mode.

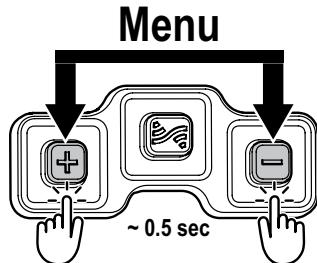


**Note:** The headset will first indicate that product is off. Keep pressing the + button until an audio message indicates Earplug Mode.

## 9. MENU FUNCTIONS COMTAC™ VII

### 9.1. TO NAVIGATE THE MENU SYSTEM

- Press the + button and the - button at the same time to enter the menu system. The headset will indicate that the user has entered the menu with an audio message "Menu". For more information about the menu, refer to "9. Menu functions ComTac™ VII".



- Short press the - button to move forward in the menu system.
- Short press the + button to confirm or to access a sub-menu.

**Note:** Menu options and settings will be heard as an audio message in the headset.

To exit the menu, press the + and - buttons at the same time. The headset will automatically exit the menu if no button is pressed for 10 seconds.

#### 9.1.1. COMTAC™ VII MENU

- Ambient listening mode
- Battery
- Balance
- Warning signals
- Automatic power off
- NIB Frequency
- Factory reset

### 9.2. AMBIENT (ENVIRONMENTAL) LISTENING MODE

The ComTac™ VII can be set to different sound profiles depending on the acoustical environment and auditory needs. Regardless of the environmental listening setting, sounds above 82 dB are compressed to limit the output.

#### 9.2.1. AMBIENT LISTENING MODE - CLASSIC

This setting offers 4 preset volume levels and Silent Mode.

#### 9.2.2. AMBIENT LISTENING MODE - ADVANCED

This setting offers Mission Audio Profiles, designed to maximize environmental listening in the following situations.

- Silent Mode - Optimized for communicating via NIB or radio in high levels of noise. Ambient listening mode is set to OFF.
- Comfort - Optimized for long periods in high levels of noise such as aircraft/vehicle transport.
- Conversation - Optimized for face-to-face communications.

- Patrolling - Optimized for enhanced auditory awareness when moving by foot by reducing sounds such as footsteps and personal equipment noise.
- Observation - Optimized for enhanced auditory awareness when still and in quiet.

### 9.3. BATTERY

Set the type of battery used on the ComTac™ VII. Battery type is used for battery life estimations.

- Alkaline - Sets the battery mode to alkaline battery.
- Rechargeable - Sets the battery mode to rechargeable battery.

### 9.4. BALANCE

The balance setting adjusts the volume balance between the right and left ear. There are 7 level settings:

- Center
- Left 1
- Left 2
- Max left
- Max right
- Right 2
- Right 1

**Note:** Changing the balance from center to a specific earcup does not increase the maximum output to that earcup.

### 9.5. WARNING SIGNALS

Enables or disables the different audio messages/warning signals heard in the headset.

- ON - Enables all warning signals.
- OFF - Disables all warning signals.

### 9.6. AUTOMATIC POWER OFF

The headset is equipped with an auto shut-off to save battery life if the user forgot to power off after use. This function can be turned off in the menu.

- ON - The ComTac™ VII automatically turns off after 4 hours of the last button push. Pressing a control button resets the 4-hour timer.
- OFF - The ComTac™ VII does not turn off automatically.

**Note:** The headset will not power off automatically after 4 hours when connected to the SCU-300.

### 9.7. NIB FREQUENCY

The NIB frequency must be set for the users location to meet regulatory compliance requirements.

- 915 MHz - Is used for communication in North America, Australia and New Zealand.
- 864 MHz - Is used for communication in Europe, South America, Asia and Africa.

**Note:** Make sure that you are using the approved frequency for the region you are operating in.

### 9.8. FACTORY RESET

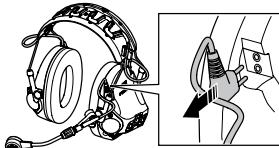
Resets the ComTac™ VII to the original settings.

## 10. TROUBLESHOOTING

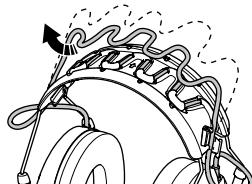
Problem	Solution
The ComTac™ VII will not power on.	Replace the batteries if necessary. Refer to "8.2. To replace the batteries".
	Make sure that the batteries are placed correctly in the battery compartment of the ComTac™ VII. Refer to "8.2. To replace the batteries".
	Make sure that the battery cover is fully closed.
Environmental sounds are difficult to hear.	Make sure the headset is powered on. Increase or decrease the volume setting to the level that maximizes hearing.
Will not send and/or receive radio communications.	For transmit issues, check the positioning of the communication microphone. Refer to "7.3. Communication microphone".
	Make sure that the radio is on. Ensure radio volume is turned up to an audible level.
	Make sure that all cables are connected securely and to the correct port on the SCU-300. Ensure the correct PTT button on the SCU-300 or RCU-300 is being pressed when transmitting.
Will not send and/or receive NIB communications.	Ensure you are pressing and holding the NIB button on the headset when transmitting. Refer to the manual for "3M™ PELTOR™ Tactical Modular Audio System".
	Make sure that the NIB button is pressed down during the complete message.
	Make sure NIB is not in the "NIB OFF" Mode.
	Make sure to use the correct NIB frequency for your country. Refer to "9.7. NIB frequency".
	Ensure all headsets are set to the correct frequency.
	The listener may be too far from the person transmitting. Refer to the manual for "3M™ PELTOR™ Tactical Modular Audio System".
	Too many people transmitting within the range of approximately 150 m/165 yd. Refer to "8.6. To use the NIB function".

## 11. TO CONVERT THE HEADSET FROM HEADBAND TO A HELMET ATTACHMENT

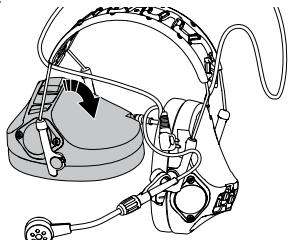
1. Unplug the microphone cable from the left earcup.



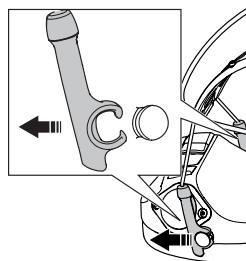
2. Remove the headband cable from the headband.



3. Turn the earcup without microphone 90 degrees to unlock position.

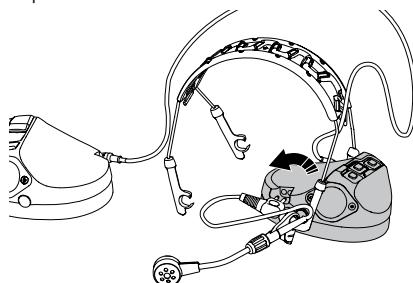


4. Pull the guide outwards.

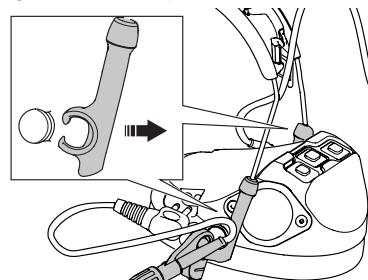


**NOTE:** Mild force may be needed to remove the guides from the earcup.

5. Turn the earcup with the microphone 90 degrees to unlock position.

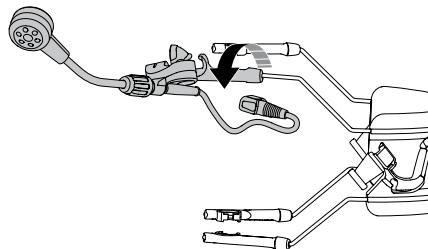


6. Pull the guides and the microphone holder outwards.

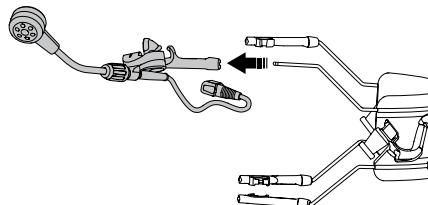


**NOTE:** Mild force may be needed to remove the guides from the earcup.

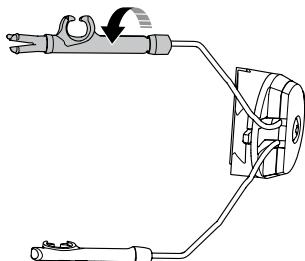
7. Turn the microphone holder 90 degrees on the headband to unlocked position.



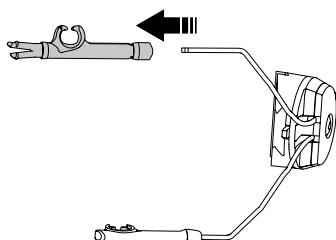
8. Remove the microphone holder from the headband by pulling it straight out.



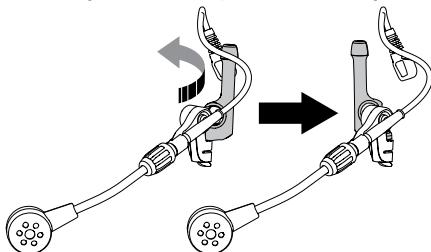
9. Turn the guide on the right headband wire on the hardhat attachment 90 degrees to unlocked position.



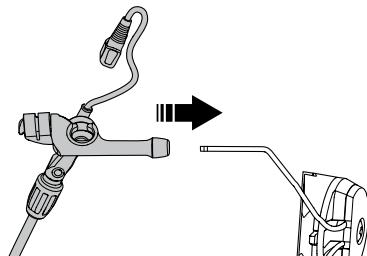
10. Remove the guide by pulling it straight out.



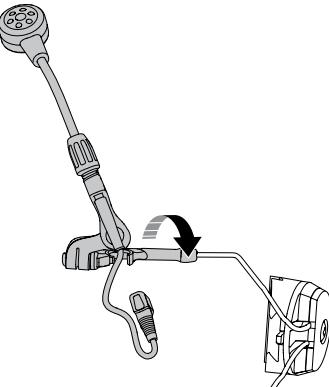
11. Turn the guide on the microphone holder 180 degrees.



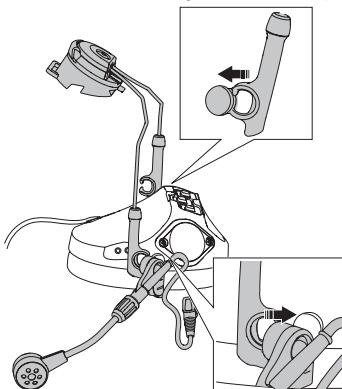
12. Attach the microphone holder and guide to the headband wire on the helmet attachment.



13. Turn the guide 90 degrees to locked position.



14. Turn the earcup without battery compartment according to the illustration and attach the guides to the earcup.

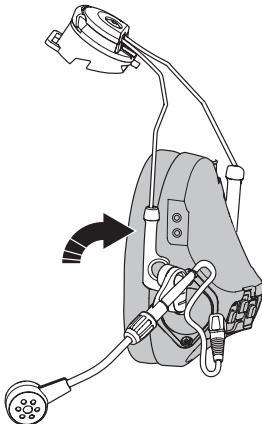


**Note:** The helmet attachment with the boom microphone must be attached to the earcup without the battery compartment.

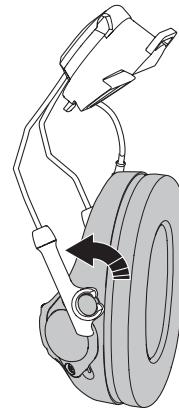
**Note:** The communication microphone guide is installed in the opposite direction from the other guides.

**Note:** Make sure the headband cable is placed inside the headband wire.

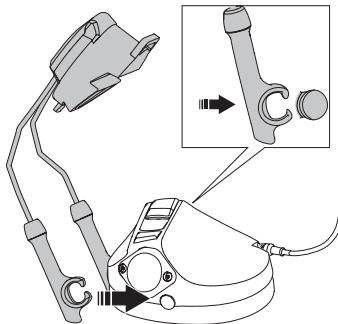
15. Turn the earcup 90 degrees to lock position.



17. Turn the earcup 90 degrees to lock position.

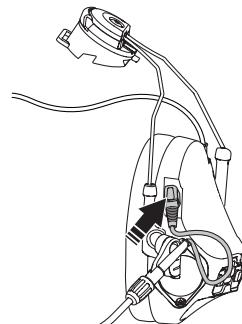


16. Turn the other earcup according to the illustration and attach the guides to the earcup.

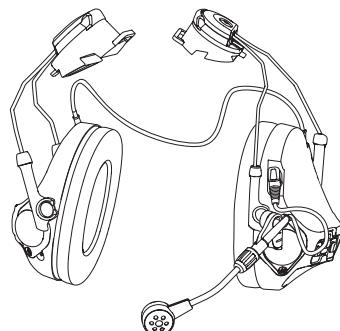


**Note:** Make sure the headband cable is placed inside the headband wire.

18. Connect the microphone cable to the earcups.



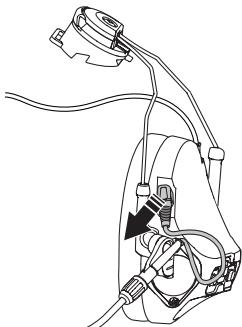
19. The headset is now ready to attach to a helmet.



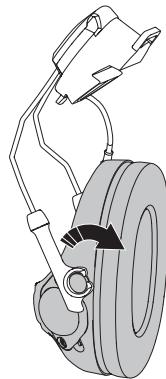
**Note:** For more information about how to attach the helmet adapter to the helmet. Refer to section "7.2. To fit the helmet attachment".

**TO CONVERT THE HEADSET FROM HELMET ATTACHMENT TO HEADBAND**

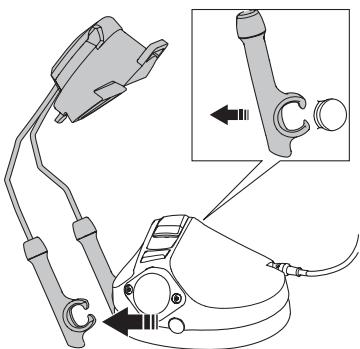
1. Unplug the microphone cable from the left earcup.



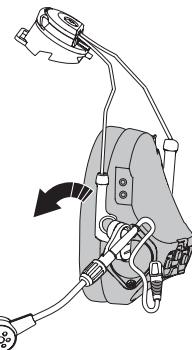
2. Turn the earcup without microphone 90 degrees to unlock position.



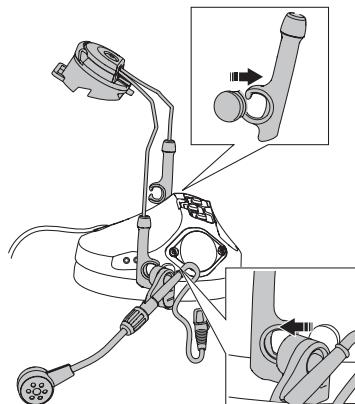
3. Pull the guides outwards.



4. Turn the earcup with microphone 90 degrees to unlock position.



5. Pull the guide outwards.



6. Turn the guide on the microphone holder 180 degrees according to the illustration.

