

3M		SGK Job No: 402222705					
File Information		Rev. Date: 02-16-21					
Description: 90545H1-DC-PS P INS 34-8726-6409-8		Ink Colors					
Cyan	Magenta	Yellow	Black	PMS 8409.7			
File Name: 90545H1-DC-PS P INS 34-8726-6409-8		Special Instructions					
Catalog #: 90545H1-DC-PS		Program: Adobe InDesign CC 2017					
Item #: 34-8726-6409-8		Tint Match					
Supersede #: N/A		UPC Check					
Stock #: 70-0091-2742-7		Proofread/OC					
UPC: N/A		Initial Date Schawlkowski Numerical Score Only Pass Fail					
Blueline #: SS-74950		Proofreader Date Initial					
Requester/Ref: Mollie Lady		Quality Control Initial					
Text Size		Contents:	Signal Word:	Hazard:	Other Cautionary Information:		
The color on this copy will not match the final printed package. Schawk Minneapolis has checked this artwork for accuracy. Final approval is the client's responsibility. Please double check for errors before reproduction.							



402222705_90345H1-DC-PS P INS 34-8726-6409-8_v2.indd 2

2/16/21 4:29 PM



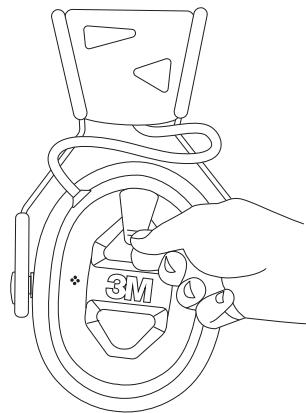
PRO-PROTECT | PRO-COMMS ELECTRONIC HEARING PROTECTION

BASIC OPERATIONS	4 – 6
BLUETOOTH® OPERATIONS.	7 – 8
NAVIGATION	9 – 10
MICROPHONE PLACEMENT	11
COMMUNICATIONS SET-UP INSTRUCTIONS	12 – 13
HARD HAT ATTACHMENT	14 – 17
SAFETY INFORMATION	18 – 20
NOISE REDUCTION RATING (NRR)	21 – 27

BASIC OPERATIONS

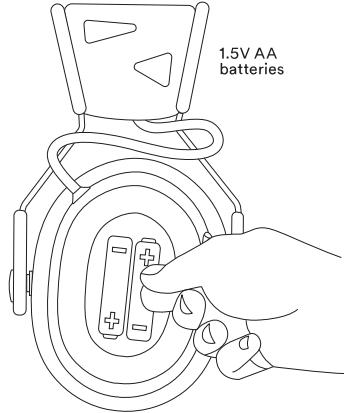
PRO-PROTECT | PRO-COMMS ELECTRONIC HEARING PROTECTION

INSTALLING BATTERIES:



Release the latch by pushing upwards.
Battery door will hinge open.

INSTALLING BATTERIES:



Install two 1.5V AA batteries as shown.
Replace battery door top-end first.

Note:

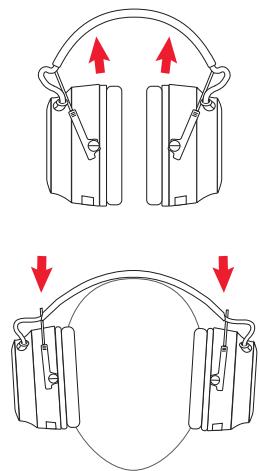
- Do not mix old and new batteries
- Do not mix alkaline, standard or rechargeable batteries

4 English

BASIC OPERATIONS

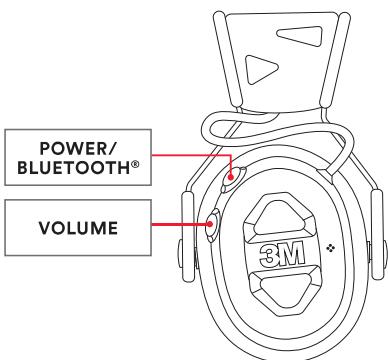
PRO-PROTECT | PRO-COMMS ELECTRONIC HEARING PROTECTION

FITTING HEADSET:



Fully extend sliders and place cups over ears so that microphones are facing forward. Then, tighten headband using sliders.

POWER AND VOLUME:



Press and hold power button for 3 seconds to power ON/OFF headset. Voice Assist will announce "Power ON" or "Power OFF."

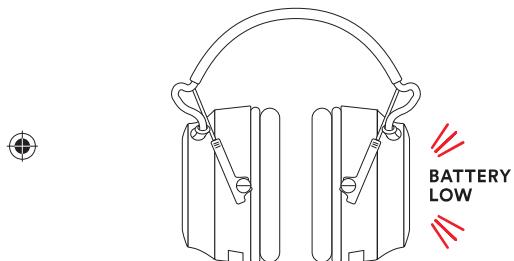
Adjust ambient volume by selecting one of the four levels by pressing the volume button (SPEAKER). To mute the ambient volume, press and hold the volume button. While muted, press the volume button once to return to your last volume setting.

Performance is best when volume is set to lowest level needed for conversation.

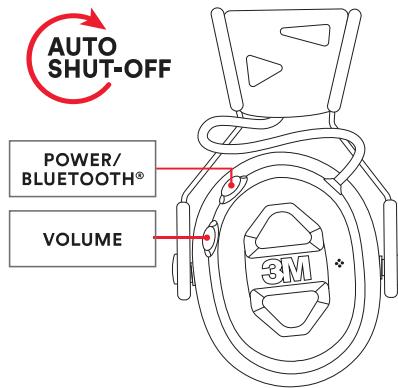
BASIC OPERATIONS

PRO-PROTECT | PRO-COMMS ELECTRONIC HEARING PROTECTION

LOW BATTERY WARNING:



AUTO SHUT-OFF:



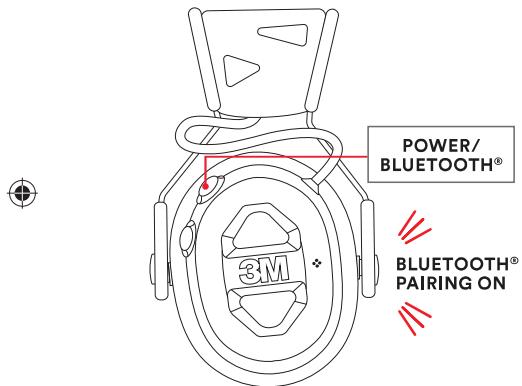
Headset will give a "Battery Low" warning every 20 minutes when battery voltage is low. Additional warnings will occur as hearing protector powers down. Replace batteries at this time.

After a period of inactivity for 2 hours, a 10-second countdown will begin before hearing protector automatically powers down. To reset Auto Shut-Off, simply adjust volume. After Auto Shut-Off, press and hold the power button for 3 seconds to turn the unit on.

BASIC OPERATIONS

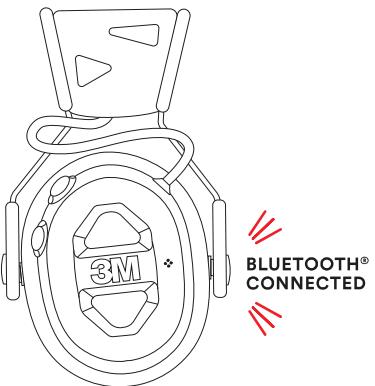
PRO-PROTECT | PRO-COMMS ELECTRONIC HEARING PROTECTION

PAIR DEVICE FUNCTION:



Double-press the Bluetooth® button to enter pairing mode. You will hear "Bluetooth Pairing". Make sure your Bluetooth® enabled device is scanning/searching for devices. Check your device to make sure it has discovered "3M Pro-Protect" or "3M Pro-Comms" as appropriate. Select to connect to the hearing protector.

ONCE YOUR DEVICE IS PAIRED:



Once connected successfully, you will hear "Bluetooth Connected".

Once your device has been connected successfully to the "3M Pro-Protect" or "3M Pro-Comms" as appropriate, it will automatically link the next time you turn on the hearing protector. A "Bluetooth Connected" voice message will play once the connection is successfully established.

English 7

BLUETOOTH® OPERATIONS

PRO-PROTECT | PRO-COMMS ELECTRONIC HEARING PROTECTION

INCOMING CALLS, MESSAGES, ALERTS & AUDIO PLAYBACK:

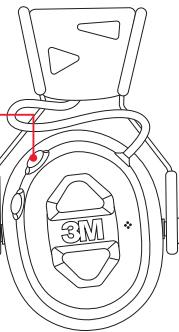
PAUSE/PLAY
Press once

ADVANCE TRACKS
Double Press Quickly

PREVIOUS TRACKS
Triple Press Quickly

ANSWER / TERMINATE CALL
Press once

REJECT A CALL
Press and hold

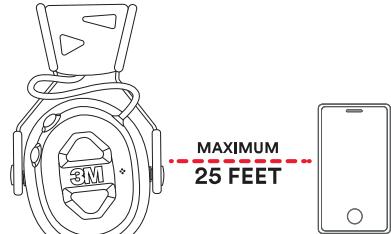


To answer or disconnect a call, press the Bluetooth® button once.

To reject a call and return to Bluetooth® from a "3M Pro-Protect" or "3M Pro-Comms," press and hold the Bluetooth® button.

After disconnecting from the call you will hear "Call terminated".

3M PRO ELECTRONIC HEARING PROTECTORS WIRELESS BLUETOOTH® RANGE:

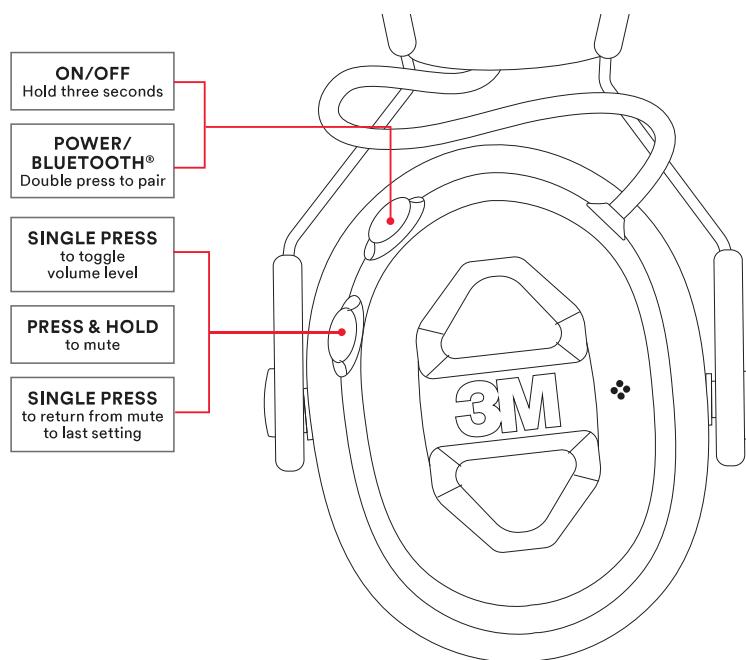


The typical range between a Bluetooth® enabled device and the 3M Pro Electronic Hearing Protectors is approximately 25 feet. This distance may vary depending on the device. As the distance between the Bluetooth® enabled device and the hearing protector increases, the risk of the signal dropping also increases.

For best results, keep your Bluetooth® enabled device on your body or within an arm's length of the 3M Pro Electronic Hearing Protectors while using Bluetooth® Mode.

NAVIGATION

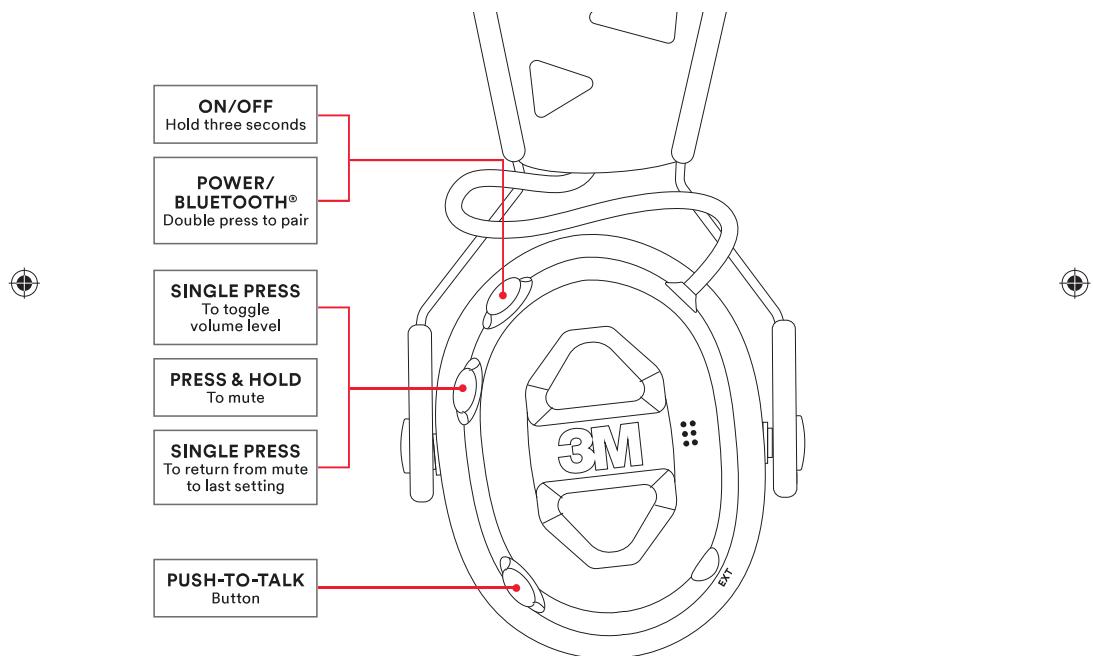
PRO-PROTECT ELECTRONIC HEARING PROTECTION



English 9

NAVIGATION

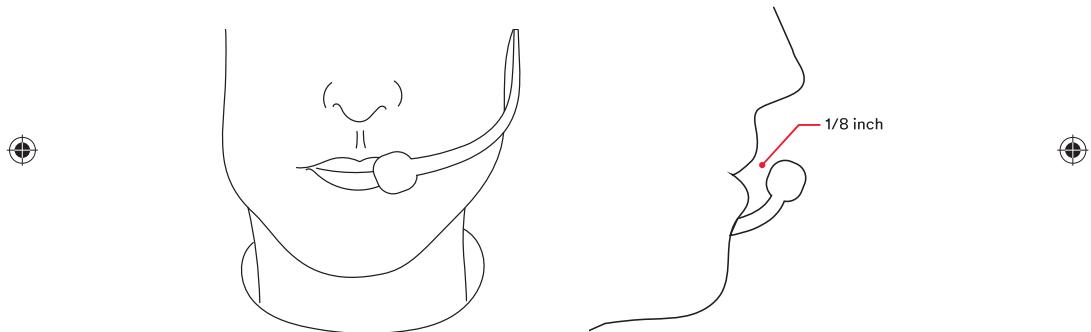
PRO-COMMS ELECTRONIC HEARING PROTECTION





MICROPHONE PLACEMENT

PRO-COMMS ELECTRONIC HEARING PROTECTION



For clearest communications, place microphone directly in front of mouth 1/8 inch away as shown in picture.

To adjust length of boom mic, loosen the locking ring on the microphone shaft and extend or shorten as needed. Tighten locking ring when desired length is obtained.

English 11

COMMUNICATIONS SET-UP

ANDROID PUSH-TO-TALK INSTRUCTIONS

Pairing to the Pro-Comms Hearing Protector

Pair your phone with the Pro-Comms Hearing Protector by following the steps listed in the BASIC OPERATIONS ...PAIR DEVICE Function section.

Install Zello (Android)

Find the Zello Walkie Talkie app in the Google Play app store and tap INSTALL to download it and install directly onto your Android device. After download is complete, tap OPEN to open Zello and create your account.

Create Account

1. Tap Sign Up
2. Enter your desired username, e-mail and password. Please note that a username cannot be changed. Tap "Create Account."
3. Enter your Display Name and optional phone number. This information is kept private and only used to reset your password and allow your contacts to find you by email or phone number. You can always add your phone number after creating your profile.

Set Up PTT Button

1. After tapping the 3 bars in the upper-right corner of your screen, select Options.
2. Select Push-to-talk buttons
3. Select "Add New Device". Make sure your Bluetooth and Location are enabled on your phone.
4. Follow the instructions on your screen and select "3M Pro" or "PTT-Z".
5. You may now use the push-to-talk button on your 3M™ Pro-Comms hearing protector as you would the push-to-talk button in the Zello app.

Note: Some Android phones may experience issues automatically releasing from Hands-Free Profile (HFP) after engaging the push-to-talk button on the hearing protector. To help resolve this issue, follow the procedure below:

1. Open the Zello app and click the three vertical dots at the top right corner of the screen.
2. Select Options, then Audio, then for Legacy Bluetooth Mode, choose On from the drop-down menu.

When you turn on this mode, it will automatically exit HFP after releasing the PTT button for three seconds. When you receive a Zello message, the unit will enter HFP mode, and you can exit HFP mode with a short press of the top button.

From here you can proceed to set up the push-to-talk button per the above.

Note: If you have issues configuring or using the Zello app please contact the Zello Customer Support for assistance.

COMMUNICATIONS SET-UP

iOS PUSH-TO-TALK INSTRUCTIONS

Pairing to the Pro-Comms Hearing Protector

Pair your phone with the Pro-Comms Hearing Protector by following the steps listed in the BASIC OPERATIONS ...PAIR DEVICE Function section.

Install Zello (iOS)

Find the Zello Walkie Talkie app in the iOS app store and tap GET to download it and install directly onto your iPhone device. After download is complete, tap OPEN to open Zello and create your account.

Create Account

1. Tap Sign Up
2. Enter your desired username, e-mail and password. Please note that a username cannot be changed. Tap "Create Account."
3. Enter your Display Name and optional phone number. This information is kept private and only used to reset your password and allow your contacts to find you by email or phone number. You can always add your phone number after creating your profile.

Set Up PTT Button

1. After tapping the 3 bars in the upper left corner of your screen, select Options.
2. Select Push-to-talk buttons
3. Select "Add New Device". Make sure your Bluetooth and Location are enabled on your phone.
4. Follow the instructions on your screen and select "3M Pro" or "PTT-Z".
5. You may now use the push-to-talk button on your 3M™ Pro-Comms hearing protector as you would the push-to-talk button in the Zello app.

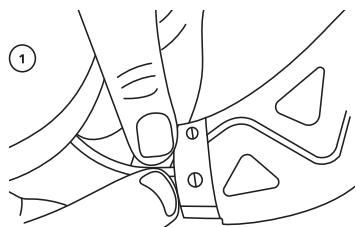
Note: If you have issues configuring or using the Zello app please contact the Zello Customer Support for assistance.

English 13

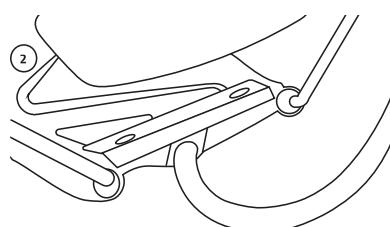
HARD HAT ATTACHMENT

PRO-PROTECT | PRO-COMMS ELECTRONIC HEARING PROTECTION

Please note – in order to attach 3M™ Pro-Protect or 3M™ Pro-Comms to a hard hat, you will need to use the hard hat earmuff adapters, 3M™ PELTOR™ Hard Hat Guide Arms Assembly, part number P3EG-PK.



1. Grab headband near the cable on the inside and outside of the end cap. Lift up to pop off the end cap from the mounting plate on the headband. Repeat on the other side.

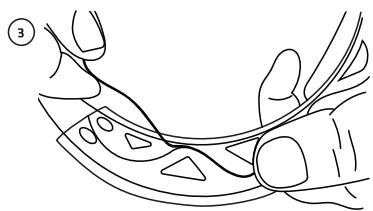


2. Headband with end caps removed.

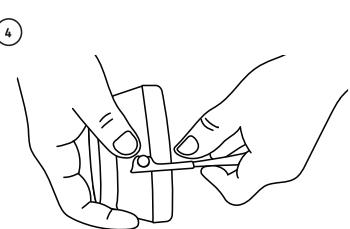
14 English

HARD HAT ATTACHMENT

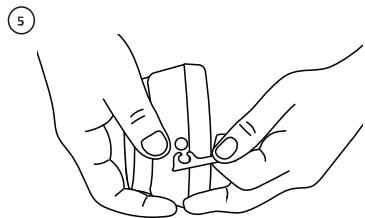
PRO-PROTECT | PRO-COMMS ELECTRONIC HEARING PROTECTION



3. Once end caps are removed, dislodge the headband cable from the headband channel by grasping the cable near the end cap, and start to pull slowly until the headband cable is free.



4. In order to detach the cups from the headband, start by rotating one of the cups inward so that it is at a 90 degree angle to the headband forks.



5. Once 90 degrees, push on each side of the fork until it dislodges. Repeat this for the other cup on the cup. Repeat for other cup.

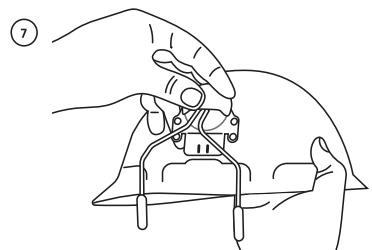


6. Cups are now free from the headband.

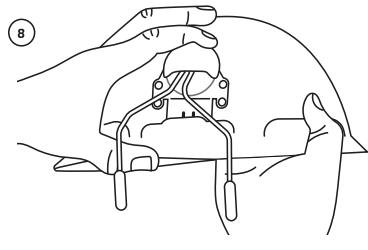
English 15

HARD HAT ATTACHMENT

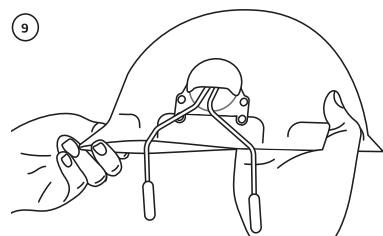
PRO-PROTECT | PRO-COMMS ELECTRONIC HEARING PROTECTION



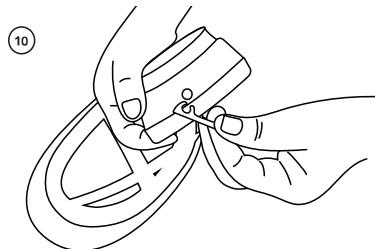
7. Align the hard hat adaptor tabs with the hard hat mounting slots.



8. Press the hard hat adaptor down into the hard hat slots until the adaptor clicks in place.



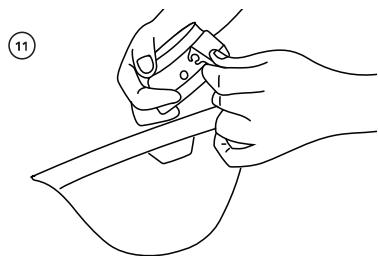
9. Once in place the hard hat and adaptor should look like above image.



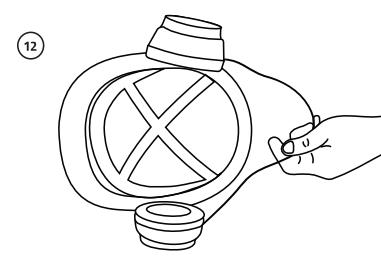
10. Reattach the cups to the headband by rotating the cups 90 degrees.

HARD HAT ATTACHMENT

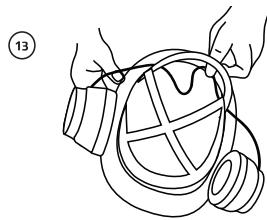
PRO-PROTECT | PRO-COMMS ELECTRONIC HEARING PROTECTION



11. Push each side of the fork until hinge locks onto the fork. Repeat for each fork.



12. Remove the two suspension keys near the back of the hard hat (as shown in picture) by pulling them out of their key slots.



13. Place the cord inside the hard hat under the suspension so that it is out of the way. Reattach the suspension keys by pushing them back into the key slots until they are seated firmly.

SAFETY INFORMATION

PRO-PROTECT | PRO-COMMS ELECTRONIC HEARING PROTECTION

Please read, understand, and follow all safety information contained in these instructions prior to the use of this electronic hearing protection product. Retain these instructions for future reference.

INTENDED USE:

This electronic hearing protection product is intended to help protect against harmful noise. This electronic hearing protection product is used in loud noise environments. Use in any other application has not been evaluated by 3M and may lead to an unsafe condition.

 **WARNING:**

Indicates a hazardous situation which, if not avoided, could result in serious injury or death.

 **CAUTION:**

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury and/or property damage.

WARNING

These hearing protectors help reduce exposure to hazardous noise and other loud sounds. Misuse or failure to wear hearing protectors at all times that you are exposed to noise may result in hearing loss or injury. For proper use, see user instructions or call 3M Technical Service toll free at 1-800-494-3552.

To reduce the risks associated with hazardous voltage and fire:

- Never use this product, or charge/replace batteries, in an explosive environment.
- Do not mix old and new batteries.
- Do not mix alkaline, standard or rechargeable batteries.
- Risk of explosion if battery is replaced by an incorrect type.
Dispose of used batteries according to the instructions.



SAFETY INFORMATION

PRO-PROTECT | PRO-COMMS ELECTRONIC HEARING PROTECTION

TO REDUCE THE RISKS ASSOCIATED WITH HARMFUL NOISE:

- Always wear hearing protectors when you are exposed to noise.
- Ensure hearing protection is properly fitted. Follow any fitting instructions included with this product.
- Do not bend or reshape the headband as this will cause a loose fit and sound leakage.
- For best protection, the ear cushions should seal firmly against your head. Anything that interferes with the seal, such as long hair (pull back to the extent possible), thick or poorly fitting eyeglass temples, pencils or caps, will lessen the protection.
- Do not immerse in water. Clean with a damp cloth and mild soap. Do not use harsh or abrasive chemicals.
- Earmuffs must be regularly inspected for cracks or worn parts and for proper fitting. Replace as needed.
- Do not store the hearing protector in direct sunlight or at temperature above 131°F (55°C).
For example, behind a windshield or in a window.



⚠ CAUTION

TO REDUCE THE RISKS ASSOCIATED WITH CHEMICAL EXPOSURE AND FIRE:

- Do not store with the batteries installed. A leaking battery may cause bodily injury or damage to the hearing protector.



The WEEE logo (shown at the left) appears on the product to indicate that this product must not be disposed of or dumped with your other household wastes. You are liable to dispose of all your electronic or electrical waste equipment by relocating over to the specified collection point for recycling of such hazardous waste. Dispose of components in accordance with all applicable local and governmental regulations.

English 19

SAFETY INFORMATION

EMC REGULATORY INFORMATION

FCC WARNING:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. 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 undesired operation.

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.

ISED (Innovation, Science and Economic Development) Canada Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(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.

CAN ICES-3 (B)/NMB-3(B)

NOISE REDUCTION RATING (NRR)

PRO-PROTECT | PRO-COMMS ELECTRONIC HEARING PROTECTION

The Environmental Protection Agency (EPA) has selected the Noise Reduction Rating (NRR) as the measure of a hearing protector's noise-reducing capabilities. 3M makes no warranties as to the suitability of the NRR as a measure of actual protection from any noise level since such protection depends on the sound level (loudness), how long you listen to the loud sound and how well you fit the earmuff over your ears. Although hearing protectors can be recommended for protection against harmful effects of impulse noise, the NRR is based on the attenuation of continuous noise and may not be an accurate indicator of the protection attainable against impulse noise such as gunfire.

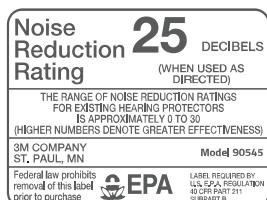
When worn according to the User Instructions, this hearing protector helps reduce exposure to both continuous noises, such as industrial noises and noises from vehicles and aircraft, as well as very loud impulse noises, such as gunfire. It is difficult to predict the required and/or actual hearing protection 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 3M.com/hearing.

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. 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, including for guidance on how to adjust attenuation label values. It is recommended that the NRR be reduced by 50% to better estimate typical protection.

English 21

NOISE REDUCTION RATING (NRR)

PRO-PROTECT HEARING PROTECTION



The NRR for the 3M Pro-Protect is 25 dB(A). Improper fit of this device will reduce its effectiveness in attenuating noise. Consult the enclosed instructions for proper fit.

The EPA references to Federal relate to US Federal laws.

ATTENUATION DATA | 3M PRO-PROTECT WITH STANDARD SEALING RINGS

ANSI S3.19-1974

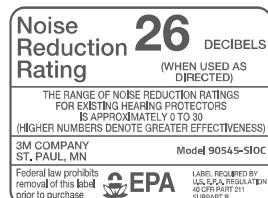
TEST FREQUENCIES (HZ)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
Mean Attenuation (dB)	18.4	22.6	30.6	38.4	32	37.8	38.8	38.9	38.3	25	B
Standard Deviation	2.9	2.2	3.0	2.6	2.9	3.9	4.2	3.4	2.6		

The level of noise entering a person's ear when a 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 decibels dB(A).
2. The NRR is 25 dB(A).
3. The level of noise entering the ear is approximately 67 dB(A).

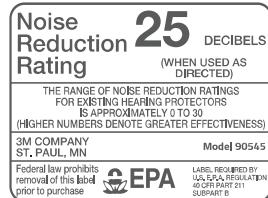
NOISE REDUCTION RATING (NRR) PRO-PROTECT HEARING PROTECTION



ATTENUATION DATA | 3M PRO-PROTECT WITH GEL SEALING RINGS

ANSI S3.19-1974

TEST FREQUENCIES (HZ)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
Mean Attenuation (dB)	18.8	21.8	31.0	38.0	35.5	40.5	43.2	43.0	42.9	26	A
Standard Deviation	2.8	1.9	3.0	3.3	3.1	3.8	4.0	2.6	2.2		



ATTENUATION DATA | 3M PRO-PROTECT WITH STANDARD SEALING RINGS ON HARD HAT

ANSI S3.19-1974

TEST FREQUENCIES (HZ)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
Mean Attenuation (dB)	16.7	21.2	30.4	36.8	31.7	37.9	39.6	40.0	38.8	25	B
Standard Deviation	2.3	2.0	3.0	2.1	2.6	3.0	3.6	4.4	3.2		

English 23

NOISE REDUCTION RATING (NRR) PRO-PROTECT HEARING PROTECTION



The EPA references to Federal relate to US Federal laws.

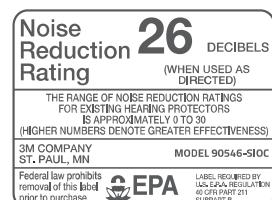
ATTENUATION DATA | 3M PRO-PROTECT WITH GEL SEALING RINGS ON HARD HAT

ANSI S3.19-1974

TEST FREQUENCIES (HZ)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
Mean Attenuation (dB)	16.7	21.2	30.4	36.8	31.7	37.9	39.6	40.0	38.8	26	B
Standard Deviation	2.3	2.0	3.0	2.1	2.6	3.0	3.6	4.4	3.2		

24 English

NOISE REDUCTION RATING (NRR) PRO-COMMS ELECTRONIC HEARING PROTECTION



The NRR for the 3M Pro-Comms is 26 dB(A). Improper fit of this device will reduce its effectiveness in attenuating noise. Consult the enclosed instructions for proper fit.

The EPA references to Federal relate to US Federal laws,

ATTENUATION DATA | 3M PRO-COMMS WITH GEL SEALING RINGS

ANSI S3.19-1974

TEST FREQUENCIES (HZ)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
Mean Attenuation (dB)	19.6	23.3	30.8	36.8	35.9	42.7	43.5	43.2	43.7	26	A
Standard Deviation	2.8	2.7	3.2	2.7	2.8	3.4	2.9	3.1	2.7		

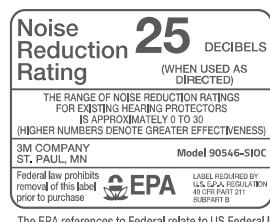
The level of noise entering a person's ear when a hearing protector is worn as directed is closely approximated by the difference between the A-weighted environmental noise level and the NRR.

EXAMPLE

1. The environmental noise level as measured at the ear is 92 decibels dB(A).
2. The NRR is 26 dB(A).
3. The level of noise entering the ear is approximately 66 dB(A).

English 25

NOISE REDUCTION RATING (NRR) PRO-COMMS ELECTRONIC HEARING PROTECTION



The EPA references to Federal relate to US Federal laws.

ATTENUATION DATA | 3M PRO-COMMS WITH GEL SEALING RINGS ON HARD HAT

ANSI S3.19-1974

TEST FREQUENCIES (HZ)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
Mean Attenuation (dB)	19.2	20.5	30.1	37.1	33.2	40.3	42.8	43.5	42.6	25	A
Standard Deviation	3.1	1.8	2.9	3.5	2.5	4.2	4.3	3.2	3.3		

26 English

NOISE REDUCTION RATING (NRR)

PRO-PROTECT | PRO-COMMS ELECTRONIC HEARING PROTECTION

CAUTION

For noise environments dominated by frequencies below 500 Hz, the C-weighted environmental noise level should be used. The NRR used in the above examples was achieved under laboratory conditions.

AUDIO INPUT LEVEL

The audio level in the hearing protector is dependent on the audio input level. To prevent harmful noise levels, the hearing protector audio level is limited to 82 dB(A) when connected to a Personal Music Player (PMP). If the hearing protector is connected to a PMP or other device with a very high output level, it is the user's responsibility to set the audio input level to a safe level.

WARRANTY

The 3M Pro-Protect and 3M Pro-Comms Hearing Protector is warranted to be free of defects in material and workmanship for a period of one (1) year from the date of original purchase. 3M will, at its option, repair or replace without charge, except for transportation costs, parts that fail under normal use and service when operated and maintained in accordance with our instructions. This warranty does not cover damage caused by misuse, abuse or unauthorized modifications. Proof of purchase is required to verify eligibility.

Limitation of Liability: 3M will not be liable for any loss or damage arising from use of this product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability. Some states and countries do not allow the exclusion of limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

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Hereby, 3M declares that the radio equipment type *3M Pro-Protect and Pro-Comms wireless Hearing protector* is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: 3Msafety.com

EUT Temperature	-20°C - +55°C
Operating Frequency (RF):	BT:2402-2480MHz
Max RF output power	Pro-Protect 3.9dBm(EU) Pro-Comms BT (EDR):-0.9dBm (EU) BLE:3.4 dBm(EU)

English 27