3M WORKTUNES™/MC

CONNECT WIRELESS HEARING PROTECTOR
featuring Bluetooth® wireless technology

PROTECTION DE L'OUÏE SANS FIL CONNEXION
avec technologie sans fil Bluetooth®

PROTECTOR AUDITIVO INALÁMBRICO CON CONEXIÓN
con tecnología Bluetooth® inalámbrica

DISTRIBUTED BY:
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1-800-494-3552 651-737-6501
MADE IN CHINA.

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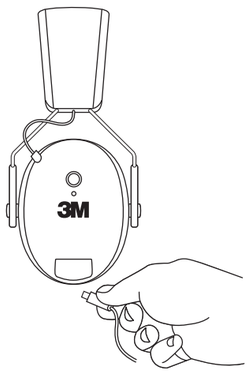
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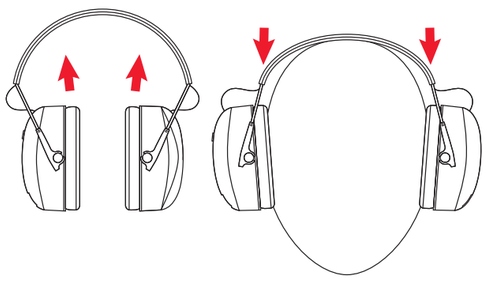
Basic Operations



Charging the Headset:

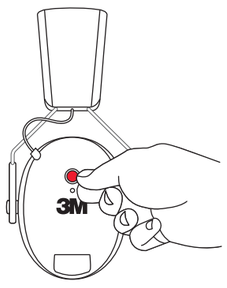
To comply with regulatory guidelines, your hearing protector has been shipped to you with only a partial charge on its integrated lithium ion battery pack. To charge the hearing protector, insert the supplied micro-USB connector cable into the micro-USB jack located on the bottom of the right cup of the hearing protector. Connect the other end of the cable to a suitable USB power source such as a computer or third party certified (UL, Intertek, etc.) AC to USB wall adapter.

The LED will be blink blue while charging and change to solid blue when complete.



Fitting the Headset:

Fully extend sliders and place cups over ears. Then, tighten headband using sliders.



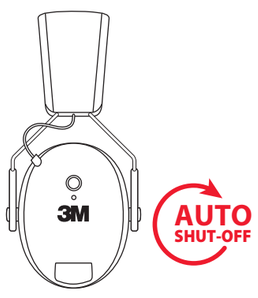
Power and Volume:

Press and hold power button for 3 seconds to power ON/OFF headset. Voice Assist will announce "Power ON" or "Power OFF." Voice assist will also provide a battery status update – "Battery High," "Battery Medium," "Battery Low," or "Battery Empty." Adjust the volume using your connected device.



Low Battery Warning:

Hearing protector will also provide a "Battery Low" warning every 20 minutes when battery voltage is low. An additional "Battery Empty" warning will occur as hearing protector powers down. Recharge the unit at this time.

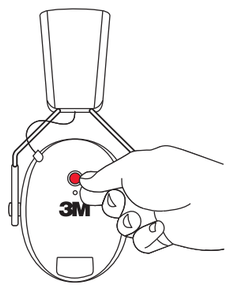


Auto Shut-Off:

5 minutes after either Bluetooth® or the audio input is disconnected, the hearing protector will automatically power down.

After auto shut-off, press and hold the ON/OFF button for 3 seconds to turn back on.

Bluetooth® Operation



Pairing the Device:

Once powered on, double press the button on the hearing protector's right cup to enter pairing mode. You will hear "Bluetooth Pairing ON." Make sure your Bluetooth® enabled device is scanning/searching for devices. Check your device to make sure it has discovered "WorkTunes Connect." Select "WorkTunes Connect" to connect to the hearing protector. Once connected successfully, you will hear "Bluetooth Connected" and the LED on the right cup will turn blue.

Your Bluetooth® audio volume will be controlled by your device.

The next time you power up, your hearing protector will automatically connect to your device and say "Bluetooth Connected."

Forward/Back or Pause/Play*

To pause or play audio on your device, you can single press the button on the right cup. To advance tracks, double press the button. Triple press to select the previous track.

*Some devices may not be compatible with this feature and will have to be operated using their native controls.

Incoming Calls

In Bluetooth® Mode, incoming phone calls will cause the music to be muted and you will hear your phone's ringtone until the call has ended. To answer an incoming call, press the button on the hearing protector once. To disconnect from a call, press the button once more. After disconnecting from the call you will hear "Call Terminated."

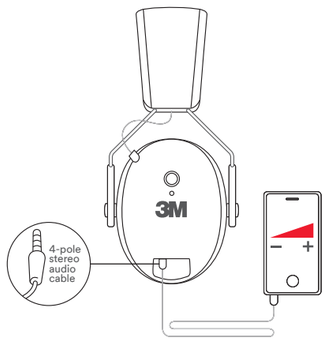
To reject a call and return to Bluetooth® audio, press and hold the button. After rejecting a call you will hear "Call Terminated."

WorkTunes™ Connect Wireless Hearing Protector Bluetooth® Range

The typical range between a Bluetooth® device and the WorkTunes™ Connect Wireless Hearing Protector is approximately 25 feet. This distance may vary depending on the device. As the distance between the Bluetooth® device and the hearing protector is increased, the risk of signal dropouts will also increase. For best results, keep your Bluetooth® device on your body or within arm's length of the WorkTunes™ Connect Wireless Hearing Protector while using Bluetooth® mode.

Bluetooth® Technical Details
Transmission power range: -6 dBm to +4 dBm (ERP)
Operating frequency band: 2402 MHz – 2480 MHz

Audio Input Mode



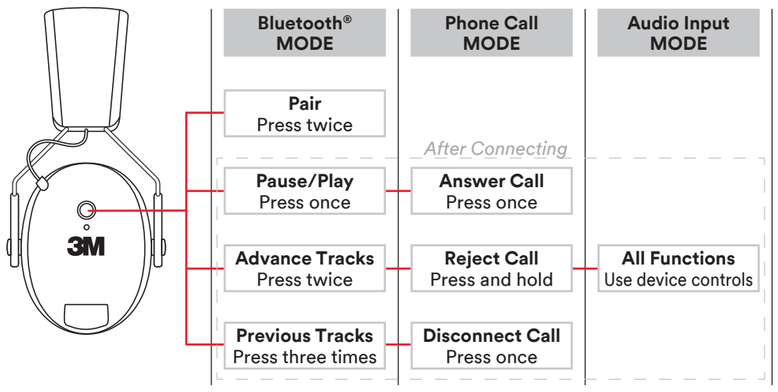
Connect Device:

Connect the device using a compatible 3 or 4-pole 3.5mm stereo audio cable. Turn on the hearing protector.

Control device:

Use the native controls on the device to control input volume, pause/play, and select tracks.

Quickstart Guide



Some devices may not be compatible with this feature and will have to be operated using their native controls.

SAFETY INFORMATION

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.

Explanation of Signal Word Consequences	
⚠ **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.
  - Only charge using 3rd party certified (such as UL, Intertek, etc.) equipment.
  - Do not disassemble, modify, or service this device. The unit contains no user serviceable parts.
- **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.
  - Earmuffs must be regularly inspected for cracks, worn parts, and for proper fitting. Replace as needed.
  - Do not immerse in water. Clean with a damp cloth and mild soap. Do not use harsh or abrasive chemicals.
  - Do not store the hearing protector in direct sunlight or at temperature above 131°F (55°C).
  - (Devices with Safe Volume Technology) Do not change between 'Safe Volume Control' and 'Limiter' settings during a single workday.

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.

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.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

ISEDC WARNING:

This device complies with Innovation, Science, and Economic Development 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.

Radio apparatus containing digital circuitry which can function separately from the operation of a transmitter or an associated transmitter, shall comply with ICES-003. In such cases, the labelling requirements of the applicable RSS apply, rather than the labelling requirements in ICES-003.

Warning:

This Class B digital apparatus complies with Canadian ICES-003.

The device has been tested and compliance with SAR limits, users can obtain Canadian information on RF exposure and compliance.

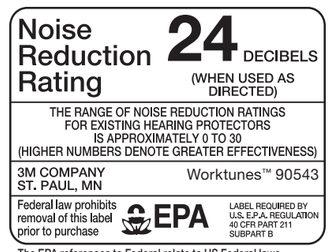
NOISE REDUCTION RATING (NRR)

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 www.3Mcom/hearing.

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 the NRR be reduced by 50% or in accordance with applicable regulations, for estimating the amount of noise reduction provided.

The NRR for the WorkTunes™ Connect Wireless Hearing Protector is 24 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 (ANSI S3.19-1974)

Test Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
Mean Attenuation (dB)	18.6	21.0	28.5	32.4	35.1	39.1	41.4	41.7	41.1	24	A
Standard Deviation	3.2	2.3	2.6	3.2	2.6	3.3	3.1	3.1	3.3		

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 24 dB(A).
3. The level of noise entering the ear is approximately 68 dB(A).

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 example was achieved under laboratory conditions.

AS/NZS 1270:2002

Test Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	21.6	27	37.4	42	38.6	41.2	41
Standard Deviation	3.5	3	3.1	3.8	2.6	2.2	3.8

SLC_{80} 36 dB Class 5 Clamping Force: 9.8 N Mass: 353 g

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. The maximum permitted audio input level for 8 hours of usage time, compressed speech and music is 2.12 V.

WARRANTY

The WorkTunes™ Connect Wireless 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.