

Tactical PTT/VOX Interface Module with Ear Microphone



PMLN7632

Accessories



FOREWORD

RF Energy Exposure and Product Safety Guide for Portable Two-Way Radios

ATTENTION!

Before using this product, read the RF Energy Exposure and Product Safety Guide that ships with the radio which contains instructions for safe usage and RF energy awareness and control for compliance with applicable standards and regulation.

ACOUSTIC SAFETY

Exposure to loud noises from any source for extended periods of time may temporarily or permanently affect your hearing. The louder the radio's volume, the less time is required before your hearing could be affected. Hearing damage from loud noise is sometimes undetectable at first and can have a cumulative effect.

To protect your hearing:

- Use the lowest volume necessary to do your job.
- Turn up the volume only if you are in noisy surroundings.
- Turn down the volume before connecting headset or earpiece.
- Limit the amount of time you use headsets or earpieces at high volume.
- When using the radio without a headset or earpiece, do not place the radio's speaker directly against your ear.

DESCRIPTION

The Tactical PTT/VOX Interface Module with Ear Microphone consists of two parts, the Push-To-Talk (PTT) / Voice Operated Transmission (VOX) Interface Module and the Bone Conduction Ear Microphone.

The PTT / VOX Interface Module is equipped with high performance VOX interface and a large PTT button. The guarded ring around the PTT button secures the PTT button from any accidental actuate and can be removed when situations require.

The superior VOX interface is enhanced by high speed Digital Signal Processor (DSP) and detects only signal matching to human voices. The VOX circuit will be set off and recognized steady and trouble-free VOX transmission even under intense noise.

The module ensures transmission without clipping the initial part of the speech by temporarily storing the voice in memory and release it in tune with the radio's ready to transmit state. The built-in digital audio amplifier helps to increase the radio's volume with a lower audio output. The module operates on electrical power supplied from the radio.

The Bone Conduction Ear Microphone is equipped with a high performance bone conduction microphone and receiver built into the ear piece. Unlike the conventional boom microphone, the bone conduction microphone picks up your voice directly from the ear canal, so ambient noise is minimized to its lowest level.

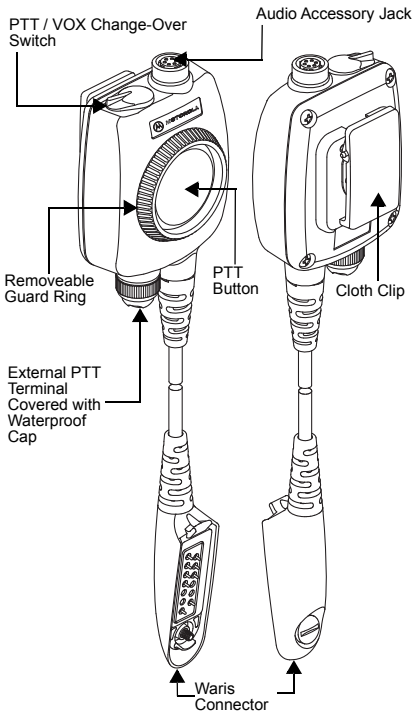


Figure 1. Overview of Interface Module

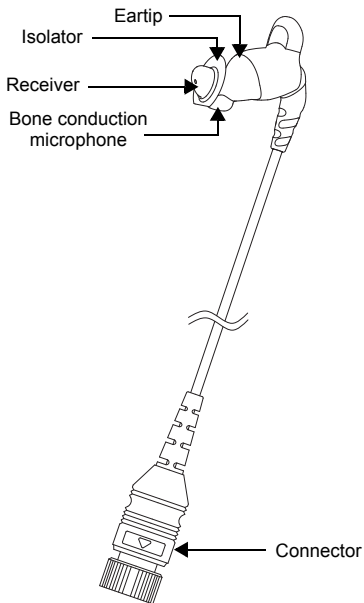


Figure 2. Overview of the Bone Conduction Ear Microphone

OPERATION

Attaching Bone Conduction Ear Microphone to Interface Module

1. Insert the Bone Conduction Ear Microphone's connector into the accessory jack of interface module.
2. Securely tighten the waterproof ring.

Note: Always ensure the waterproof ring is securely tightened at all times, if the ring is loose, waterproof function will be lost.



Figure 3. Location to Attach Bone Conduction Ear Microphone to Interface Module

IMPORTANT: When not in use, cover the external PTT terminal with waterproof cap to keep out dust and water.

Attaching Interface Module Connector To The Radio

1. Turn the radio **OFF**.
2. Connect the Interface Module connector to the radio.
3. Turn the radio **ON**, adjusting the audio volume to an appropriate level.

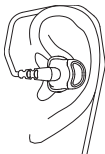


Caution

DO NOT set the volume level too loud.

Wearing Bone Conduction Ear Microphone

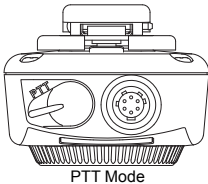
1. Insert the ear microphone into the ear canal and place the cable behind the ear as shown in the picture. The Bone Conduction Ear Microphone can be worn in the right or left ear.



Note: Once the kit has been installed, the radio microphone and the radio speaker will be disabled. The user must use the Bone Conduction Ear Microphone to transmit and receive calls.

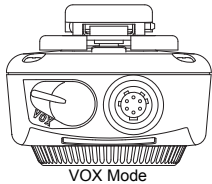
Performance

To minimize interference and optimize the Bone Conduction Ear Microphone performance, make sure the accessory cable does not coil around the radio antenna during use.



PTT Mode

Figure 4-A



VOX Mode

Figure 4-B

Figure 4. PTT / VOX Change-Over Switch

Transmitting By Using PTT Mode

1. Rotate the change-over switch to PTT mode as shown in Figure 4-A.
2. Press and hold down the Interface Module or Remote PTT button and begin speaking in order to transmit.
3. Your radio will return to receiving mode when you release the PTT button.

Transmitting By Using VOX Mode

1. Rotate the change-over switch to VOX mode as shown in Figure 4-B.
2. VOX automatically sets the radio on transmit mode, allowing hands free transmission without pressing the PTT switch.

Beep Sound

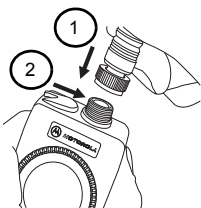
Beeps are emitted at the start / end of the transmission. A high-pitched sound at the start and low-pitched sound at the end.

Detaching Interface Module Connector From The Radio

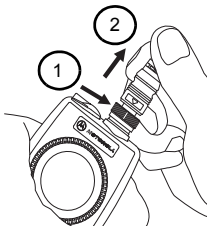
Turn the radio **OFF** before removing the Interface Module connector from the radio.

Detaching Bone Conduction Ear Microphone from Interface Module

1. Loosen the waterproof ring.
2. Remove the Bone Conduction Ear Microphone's connector from the accessory terminal of Interface Module.



Attaching



Detaching

Figure 5. Attaching and Detaching Bone Conduction Ear Microphone

SERVICE

The replacement and alternative parts shown in Table 1 are available for the Tactical PTT/VOX Interface Module with Ear Microphone kit. Please contact your local Motorola Representative or Dealer for details.

Table 1: Replacement Parts

Part Number	Part Description
PMLN5510_	Medium Eartip
PMLN5511_	Small Eartip
0180305J72	Cloth Clip

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