MOTOROLA SOLUTIONS

NS750 IMPRES™ Omnidirectional Remote Speaker Microphone PMMN4150 and PMMN4151

MN009160A01-AA

Refer to manual MN009167A01 for other languages:
https://learning.motorolasolutions.com/

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

Caution

Before using this accessory, read this guide which contains important operating instructions for safe usage and RF energy awareness and control for compliance with applicable standards and regulations.

The Remote Speaker Microphone (RSM), when attached to the radio, is restricted to occupational use only to satisfy FCC/ICNIRP RF energy exposure requirements. Before using this product, read the RF energy awareness information and operating instructions in the Product Safety and RF Exposure booklet enclosed with your radio to ensure compliance with RF energy exposure limits.

For information on radio compatibility, refer to the MN009167A01 online user manual.

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.
• If you experience hearing discomfort, ringing in your ears, or speeches that are muffled, you should stop listening to your radio through your headset or earpiece, and have your hearing checked by your doctor. To change the volume level, refer to Radio Product Safety Leaflet or Customer Programming Software (CPS) for Surveillance extra loud (xL) Kit Configurations.

RSM Overview

This manual is applicable for the following Remote Speaker Microphones (RSM):
• PMMN4150 - NS750 IMPRES™ Omnidirectional Remote Speaker Microphone (with long cable)
• PMMN4151 - NS750 IMPRES™ Omnidirectional Remote Speaker Microphone (with short cable)
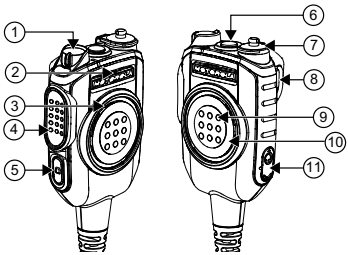
Table 1: RSM Overview and Description

No.	Description
1	Audio Switching Knob
2	Omni Microphone
3	Speaker
4	Side Push-to-Talk (PTT) Button
5	1-Dot Programmable Button
6	Accessory Orange Button
7	Nexus Jack
8	Belt Clip
9	Front PTT Button
10	Front PTT Paddle label placement
11	3.5 mm Audio Jack*

Note:
* 3.5 mm Audio Jack is compatible with PMLN7188_ kit only.

Approved Accessories

This section provides the list of approved accessories to be used with your RSM.

Table 2: Earpiece

Part Number	Description
PMLN7188_	ATEX 3.5 mm Receive-only Earpiece with Translucent Tube

Table 3: Audio Nexus Accessories

Power Indicator	Description
GMMN4585_*, **	Savox HC-1 Helmet Communication
GMMN4584_*, **	Savox HC-2 Helmet Communication

Table 3: Audio Nexus Accessories

Power Indicator	Description
PMLN8265_*, **	Headband Headset with Nexus
PMLN8266_*, **	Neckband Headset with Nexus
PMLN8267_*, **	Hardhat Headset with Nexus

Notes:
* The Audio Nexus accessories are non-UL approved accessory.
** The system level is non-UL when used with the RSM.

The audio performance of other Nexus plugs accessories connected to the RSM is not guaranteed as the compatibility is not tested. For optimal performance, place the Nexus accessories cable away from the radio antenna.

Replacement Parts

Your RSM is not repairable. The following optional accessories and replacement parts are available for order from Motorola Solutions.

Table 4: Replacement Parts

Power Indication	Description
0104068J78_	Belt Clip
PMLN8464_	Replacement Front PTT Paddle Label (Green)
PMLN8465_	Replacement Front PTT Paddle Label (Blue)
PMLN8466_	Replacement Front PTT Paddle Label (Red)
PMLN8468_	Replacement Front PTT Paddle Label (Yellow)
PMLN8469_	Replacement Front PTT Paddle Label (Silver)
PMLN8523_	Replacement Front PTT Paddle Label (Orange)

Audio Routing Prioritization

Table 5: RSM or with SAA Jack Toggle Mode 🎧

Configuration	Tx Routing	Rx Routing
RSM alone		RSM
RSM with Nexus SAA		Nexus SAA
RSM with 3.5 mm SAA + Nexus SAA		Nexus SAA
RSM with 3.5 mm SAA	RSM	3.5 mm SAA

Table 6: RSM Only Toggle Mode 🔊

Configuration	Tx Routing	Rx Routing
RSM alone		RSM
RSM with Nexus SAA		RSM
RSM with 3.5 mm SAA + Nexus SAA		RSM
RSM with 3.5 mm SAA		RSM

Audio Switching Reminder Alarm

This section provides information on audio switching reminder alarm.

A pulsing audible alarm is heard in the connected Nexus accessories when the audio routing is switched to the 🔊 mode.
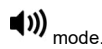
As part of the safety feature to prevent mistaken or forgotten audio switching, the audible alarm is always enabled. You are recommended to switch the audio to the 🎧 mode when wearing the Nexus accessory for operation.

Recommended Radio Settings

Note: Only applicable to MOTOTRBO R7 radios. To access radio settings, go to **Main Menu -->Utilities-->Radio Settings.**

Table 7: Radio Settings

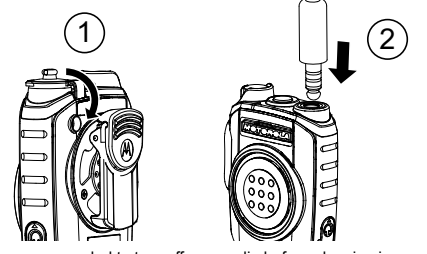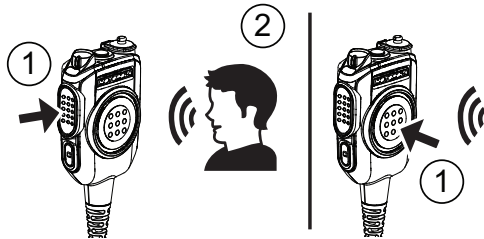| Radio Settings	Recommended Settings
AF Suppressor	Enabled
Audio Preference	Default
Intelligent Audio	Enabled
Mic AGC-D	Enabled
Noise Suppressor	Enabled
Talkaround	Enabled

Recommended Practices

This section provides information on the recommended practices for the RSM.

Receiving from RSM

Refer to "Audio Routing Prioritization" section for more information.


Transmitting from RSM

1. Press and hold the PTT button.
2. Speak closely to the microphone for the best intelligibility performance.

Audio Jack Usage

This section provides information on best practices for audio jack.
• Clean or remove any foreign material from audio jack before use.
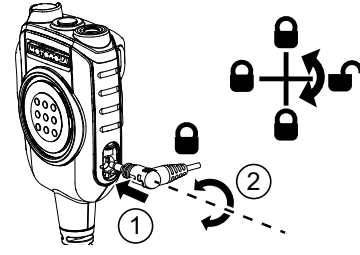• Always cover the audio jack with dust cover when it is not plugged in.

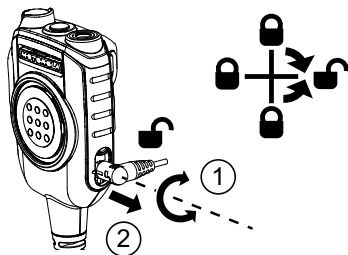### Opening and Closing the Audio Jack Cover
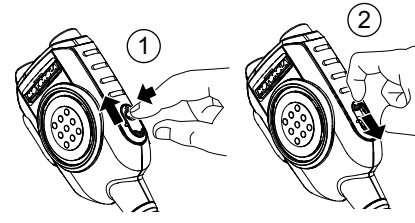
1. Push and slide the cover.
2. Slide the cover.

Inserting and Removing Audio Jack

Plugging in Audio Jack


Unplug Audio Jack

Nexus Jack

This section provides information on best practices for Nexus jack.
• Clean or remove any foreign material from jack before use.
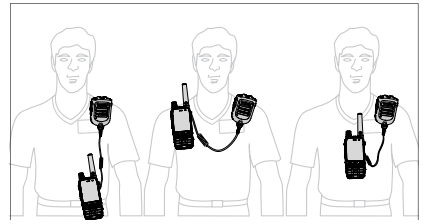• Always cover the Nexus jack with dust cover when it is not plugged in.

Plugging in Nexus Jack

Note: It is recommended to turn off your radio before plugging in or unplugging the Nexus accessories.

Recommended Wearing Positions

This section describes the Remote Speaker Microphone (RSM) recommenced wearing position.

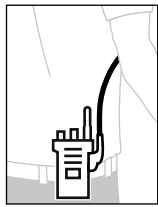### RSM with Long Cable
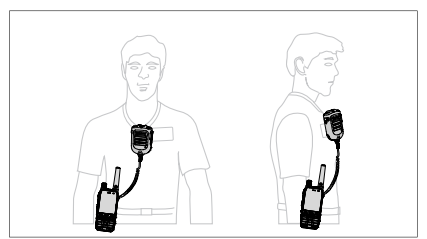
RSM with Short Cable

Note: Recommended radio wearing positions on the lapel is only for lightweight radio.
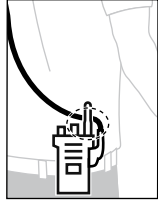
Cable Management

This section describes the recommended cable position.

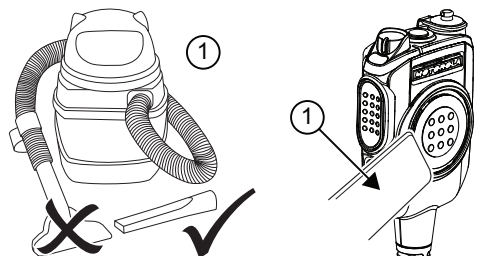### Recommended

Not Recommended

To ensure optimum range and user experience, it is recommended to avoid crossing accessory cable with the radio antenna.

Cleaning Procedures

This section provides information on cleaning procedures for the RSM.

Optional Step for High Debris Environment

Vacuum the front surface of the RSM before general cleaning.

WARNING

The following voids the warranty:
• Use of more than 4 hp/3 kW vacuum.
• Any nozzle other that a crevice nozzle.
• Any other cleaning method.

Operating Instructions

This section provides guidelines on how to use your Remote Speaker Microphone.

Attaching and Detaching Your RSM

1. Turn off the radio.
2. Tighten or loosen the screw to attach or detach the RSM from the radio.
3. Thumb screw.

Cleaning Procedures

WARNING
• Ensure that the connector do not get wet.
•Do not fill water into the Nexus jack or the audio jack.
•Cover the Nexus jack or the audio jack with the dust cover when it is not plugged with earpiece.
•If water enters the Nexus jack or the audio jack, remove water by shaking the RSM.

WARNING
Use only dish soap and water. Other cleaning solutions may permanently damage the RSM housing and will void the warranty. Do not soak more than 30 minutes.

1. Mix one teaspoon of mild dish-washing detergent to one gallon of water (0.5 % solution).
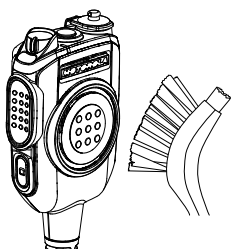2. Apply the solution sparingly with a stiff, nylon, and short bristled brush.

WARNING
Do not allow the bristles to enter the speaker or microphone porting areas, which can cause internal damage and will void the warranty.

3. Fully rinse the RSM with cold water and dry thoroughly with soft lint-free cloth.
4. Hold the RSM with the front surface down, and lightly shake it a few times to clear out water that may be underneath the speaker openings or microphone ports.

Service and Warranty

Motorola Solutions offers a standard one year warranty. Contact your Motorola Solutions dealer for detailed information on the standard warranty.

For More Information

Contact Motorola Solutions Authorized Dealer or visit us at www.motorolasolutions.com.

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