Manuals+ — User Manuals Simplified.

Motorola Solutions PMMN4093 Active Noise-Cancelling Remote Speaker Microphone User Guide

MOTOROLA SOLUTIONS

IMPRESTMATEX/IECEx
ACTIVE NOISE-CANCELLING REMOTE
SPEAKER MICROPHONE
PMMN4093 and PMMN4101

FOREWORD
RF ENERGY EXPOSURE AND PRODUCT SAFETY GUIDE FOR MOBILE 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 regulations.
The Remote Speaker Microphone is compatible with these radio models, MTP8000Ex Series.

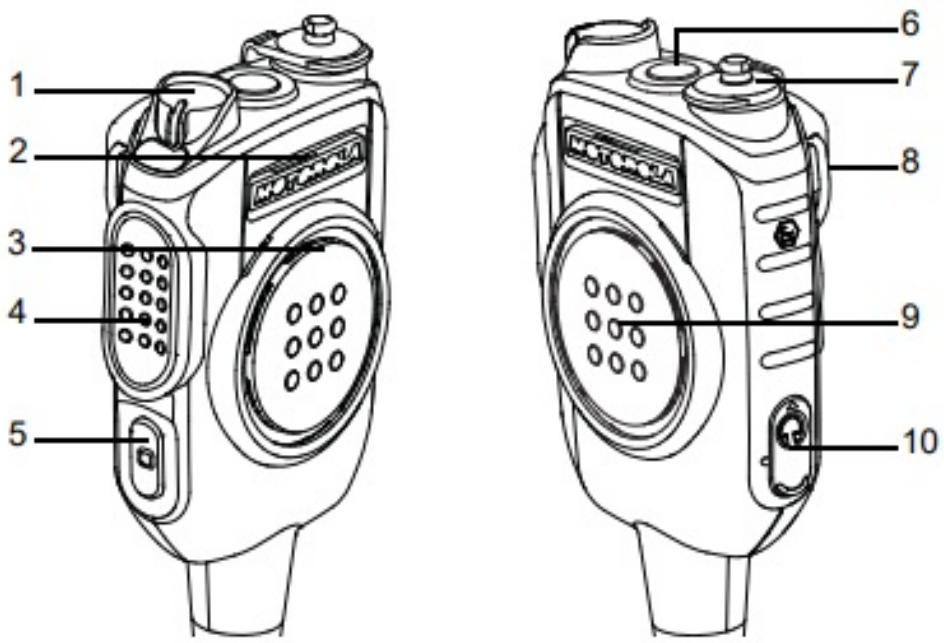
ACOUSTIC SAFETY

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 can be affected. Hearing damage from loud noises is sometimes undetectable at first and can have a cumulative effect.

To protect your hearing:

- Use the lowest volume necessary to do your job.
- Increase the volume only if you are in noisy surroundings.
- Reduce the volume before connecting the 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.

REMOTE SPEAKER MICROPHONE (RSM) OVERVIEW



1. Hi-Lo Volume Toggle Knob *
2. Active Noise-Canceling 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. 3.5 mm Audio Jack **

* Applicable to RSM Speaker only.

SERVICE AND WARRANTY

The RSM is not repairable.

The following optional accessories and replacement parts are available for order from Motorola Solutions Radio

Products and Services Division (RPSD) or Accessories and Aftermarket Division (AAD).

REPLACEMENT PART

Part Number	Description
0104064J25_	Belt Clip

The RSM is covered under the standard Motorola Solutions one-year limited warranty.
Refer to your Motorola Solutions dealer or point-of-purchase for detailed information on a warranty replacement.

EARPIECE

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

NEXUS ACCESSORIES

Part Number	Description
PMLN6087_	Peltor Standard Headset with Headband

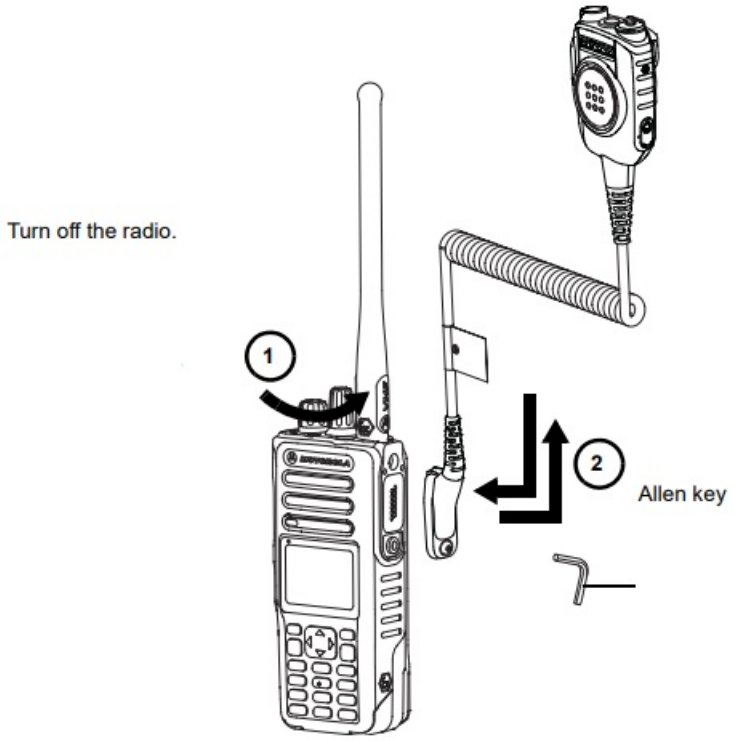
PMLN6089_	Peltor Tactical Headset with Helmet
PMLN6090_	Peltor Tactical Headset with Headband
PMLN6092_	Peltor Standard Headset with Helmet
PMLN6333_	Peltor Twin Cup Heavy Duty Headset with Helmet
RMN5123_	SAVOX HC-1 Ex
GMMN4580_	SAVOX HC-2 Ex

IMPORTANT NOTE: Other Nexus accessories or earpieces used with this RSM invalidates ATEX/IECEx conformance. Only replacement parts, earpieces and Nexus accessories listed in the tables can be used. Select 3.5mm or Nexus accessory on the radio settings when either is connected to the ANC RSM.

AUDIO ROUTING PRIORITIZATION

Audio	Transmit	Receive
RSM only	RSM	RSM
RSM +Nexus Accessories	Nexus Accessories	Nexus Accessories
RSM + Nexus'Accessories + as mm Receive-Only Jack	Nexus Accessories	Nexus Accessories
RSM +3.5 mm Receive-Orgy Jack	RSM	3.5 mm Receive-Only Jack

ATTACH AND DETACH RSM



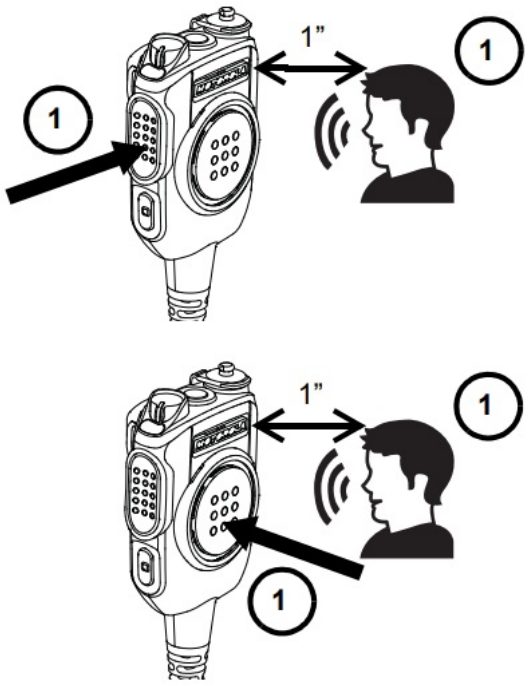
NOTE: Use an Allen key (size 3 mm) to tighten or loosen the screw.

RECEIVE FROM RSM

NOTE: Refer to the table in the Audio Routing Prioritization section for more information.

TRANSMIT FROM RSM

Press and hold the PTT button.



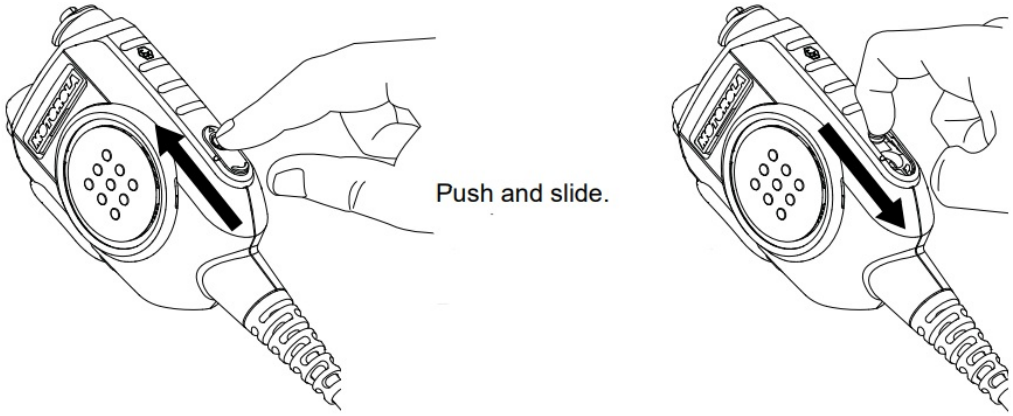
NOTE: The microphone and PTT button of the radio is not disabled when RSM is connected. Check with your dealer or system administrator on the operational details for the microphone and PTT button.
Speak closely to the microphone for best intelligibility performance.

RECOMMENDED RADIO SETTINGS

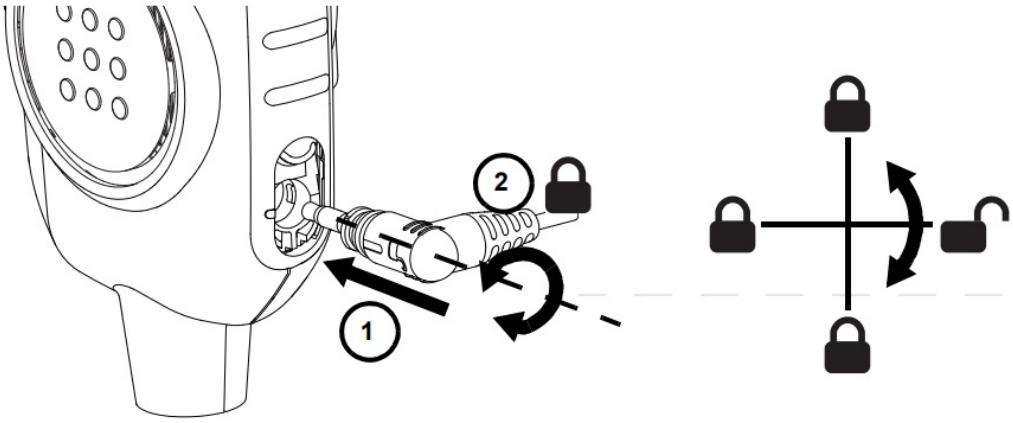
Main Menu → Utilities → Radio Settings

Talk around	Enabled
AF Suppressor	Enabled
Intelligence Audio	Enabled
Mic Distortion	Enabled
Mic AGC-D	Enabled

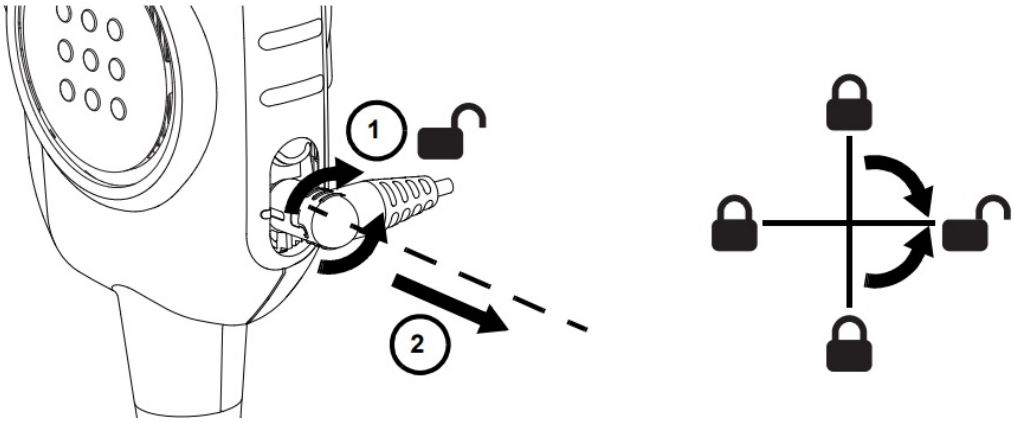
OPEN AND CLOSE AJ COVER



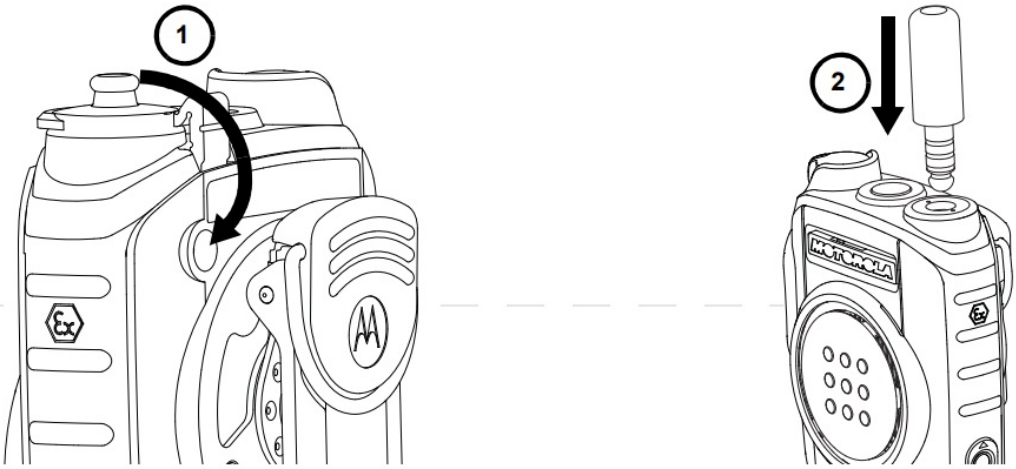
PLUG-IN AUDIO JACK



UNPLUG AUDIO JACK



PLUG-IN NEXUS JACK

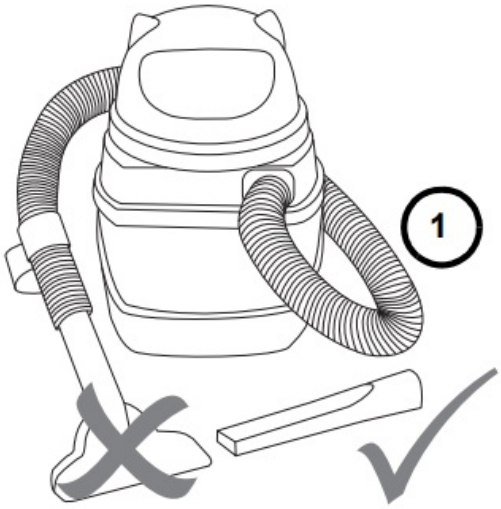


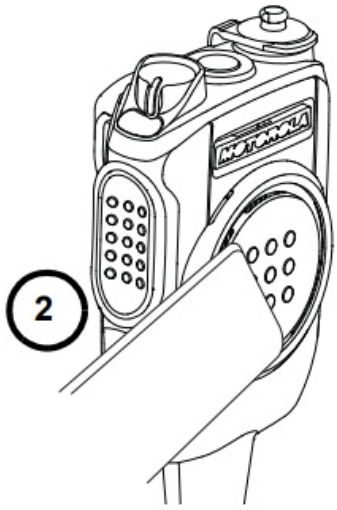
NOTE: It is recommended to turn off the radio before plugging in or unplugging the Nexus accessories. It is also recommended to close the dust cap when the Nexus Jack is not plugged in.

RECOMMENDED WEARING POSITION

Best Practise: **www.motorolasolutions.com/ancrsm/PMMN4093**

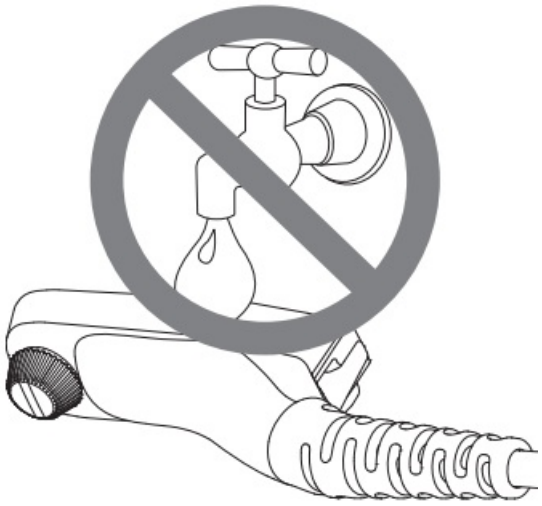
CLEANING PROCEDURES
OPTIONAL STEP FOR HIGH DEBRIS ENVIRONMENT
Vacuum the front surface of the RSM before general cleaning.





WARNING: Use of more than 4 hp/3 kW vacuum, any nozzle other than a crevice nozzle, and/or any other cleaning method will void the warranty.

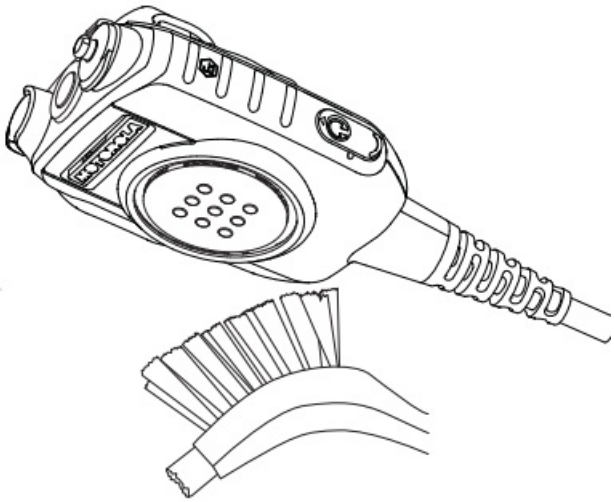
GENERAL CLEANING



WARNING:
Do not get the connector wet at all.

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

1. Mix one teaspoon of mild dishwasher detergent to one gallon of water (0.5% solution).



2. apply the solution with a stiff, nylon, 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 a 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.

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Contents [hide

1 Documents / Resources
2 Related Posts

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	Motorola Solutions PMMN4093 Active Noise-Cancelling Remote Speaker Microphone [pdf] User Guide PMMN4093, PMMN4101, Active Noise-Cancelling Remote Speaker Microphone