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## Motorola Solutions NNTN8235A

# Motorola Solutions NNTN8235A Remote Speaker Microphone User Manual

For SRX2200 Combat Radios

## INTRODUCTION

The Motorola Solutions NNTN8235A Remote Speaker Microphone (RSM) is designed for use with SRX2200 Combat Radios. This rugged microphone features an IP57 submersible rating and Windporting technology, ensuring clear communication in challenging environments. Its Coyote Brown color is suitable for military applications.



Image: The NNTN8235A Remote Speaker Microphone shown with its accompanying documentation.

## Key Features:

- **SRX2200 Military Designed:** Optimized for compatibility and performance with SRX2200 Combat Radios.

- **Windporting Technology:** Effectively reduces background noise from high winds and severe weather for clearer audio.
- **IP57 Submersible Rating:** Provides protection against dust and water immersion up to 1 meter for 30 minutes.
- **Intrinsically-Safe Rated:** Designed for safe operation in hazardous environments.
- **Coyote Brown:** Color matched for military and tactical applications.

## SETUP

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Follow these steps to properly connect your NNTN8235A Remote Speaker Microphone to your SRX2200 Combat Radio.

1. **Power Off Radio:** Ensure your SRX2200 radio is powered off before connecting any accessories.
2. **Locate Accessory Connector:** Identify the accessory connector port on the side of your SRX2200 radio. This port is typically covered by a protective cap.
3. **Remove Protective Cap:** Carefully remove the protective cap from the radio's accessory connector.
4. **Connect RSM:** Align the connector of the NNTN8235A RSM with the radio's accessory port. Gently push the connector in until it clicks securely into place. Ensure a firm connection to maintain the IP57 rating.
5. **Secure Connection (if applicable):** Some radio models may have a screw or locking mechanism to further secure the accessory. If present, tighten it hand-tight.
6. **Power On Radio:** Once the RSM is securely connected, power on your SRX2200 radio. The radio should recognize the connected microphone.





Image: An SRX2200 Combat Radio, compatible with the NNTN8235A RSM.

## OPERATING INSTRUCTIONS

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The NNTN8235A Remote Speaker Microphone provides convenient and clear communication. Familiarize yourself with its functions for optimal use.

### Push-to-Talk (PTT) Button:

- **Transmit:** Press and hold the large PTT button located on the side of the RSM to transmit your voice. Speak clearly into the microphone grille.
- **Receive:** Release the PTT button to stop transmitting and listen for incoming communications through the RSM's speaker.

### Speaker:

The integrated speaker on the front of the RSM allows you to hear incoming radio transmissions directly from the microphone, providing clear audio output.



Image: Detailed view of the NNTN8235A RSM, highlighting the speaker grille and PTT button area.

### **Windporting Technology:**

The Windporting feature is automatically active. It uses a specialized microphone port design to minimize wind noise and other environmental sounds, ensuring your voice is transmitted clearly even in adverse conditions.

### **Accessory Jack (if present):**

Some RSM models may include an accessory jack (e.g., 3.5mm) for connecting an external earpiece. If present, insert your compatible earpiece into this jack for private listening.

## MAINTENANCE

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Proper maintenance ensures the longevity and reliable performance of your NNTN8235A Remote Speaker Microphone.

- **Cleaning:**

- Wipe the exterior of the RSM with a soft, damp cloth.
- Do not use harsh chemicals, solvents, or abrasive cleaners.
- Ensure the microphone grille and speaker openings are free from dirt and debris. Use a soft brush if necessary.

- **Water Exposure:**

- While the RSM is IP57 rated, always ensure the accessory connector is securely attached to the radio to maintain its water resistance.
- After exposure to water, especially saltwater, rinse the RSM with fresh water and dry thoroughly with a clean cloth before storage or further use.

- **Storage:**

- Store the RSM in a clean, dry environment away from extreme temperatures.
- Avoid kinking or sharply bending the coiled cable to prevent internal wire damage.

## TROUBLESHOOTING

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If you encounter issues with your NNTN8235A Remote Speaker Microphone, refer to the following common problems and solutions.

| Problem                             | Possible Cause   | Solution  |
|-------------------------------------|--|---|
| No audio from RSM speaker.          | RSM not fully connected.<br>Radio volume too low.<br>Radio settings incorrect.<br>Faulty RSM or radio.   | Ensure RSM connector is firmly seated in the radio's accessory port.<br>Increase the radio's volume.<br>Check radio menu settings for external speaker/microphone options.<br>Test with another known-good RSM or radio if available. |
| Others cannot hear my transmission. | PTT button not pressed or faulty.<br>Microphone grille blocked.<br>Radio not transmitting.   | Ensure PTT button is fully depressed while speaking.<br>Clear any debris from the microphone grille.<br>Check radio's channel and transmit status.  |
| Distorted or unclear audio.         | Microphone grille partially blocked.<br>Speaking too close or too far from microphone.<br>Environmental noise (though Windporting helps).<br>Damaged cable or connector. | Clean microphone grille.<br>Maintain a consistent speaking distance (approx. 1-2 inches).<br>Move to a quieter location if possible.<br>Inspect cable and connector for visible damage.   |

If the problem persists after trying these solutions, contact Motorola Solutions customer support or your authorized dealer.

## SPECIFICATIONS

| Feature                               | Detail   |
|---------------------------------------|--|
| <b>Model Number</b>                   | NNTN8235A  |
| <b>Brand</b>                          | Motorola Solutions                               |
| <b>Compatibility</b>                  | SRX2200 Combat Radios                            |
| <b>Ingress Protection (IP) Rating</b> | IP57 (Submersible up to 1 meter for 30 minutes)  |
| <b>Special Features</b>               | Windporting Technology, Intrinsically-Safe Rated |
| <b>Color</b>                          | Coyote Brown                                     |
| <b>Microphone Form Factor</b>         | Handheld   |
| <b>Polar Pattern</b>                  | Unidirectional                                   |
| <b>Item Dimensions (L x W x H)</b>    | 5 x 3.5 x 1.5 inches                             |
| <b>Enclosure Material</b>             | Metal, Plastic                                   |
| <b>Included Components</b>            | Microphone                                       |

## WARRANTY INFORMATION

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The Motorola Solutions NNTN8235A Remote Speaker Microphone comes with a standard manufacturer's warranty.

**Warranty Description:** 1 Year Standard Manufacturer Warranty.

For detailed terms and conditions, or to initiate a warranty claim, please refer to the official Motorola Solutions warranty documentation provided with your product or visit the official Motorola Solutions website.

## SUPPORT

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For further assistance, technical support, or inquiries regarding your Motorola Solutions NNTN8235A Remote Speaker Microphone, please contact Motorola Solutions directly.

- **Official Website:** Visit the Motorola Solutions official website for product information, FAQs, and support resources.
- **Customer Service:** Refer to your product packaging or the Motorola Solutions website for specific customer service contact numbers or email addresses in your region.
- **Authorized Dealers:** Contact the authorized Motorola Solutions dealer from whom you purchased the product for local support and service.

When contacting support, please have your product model number (NNTN8235A) and any relevant purchase information ready.