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› [PRV AUDIO 3-inch Full-Range Neodymium Speaker 3MR40-NDY-4 PRO Audio Midrange with 40 Watts Power Handling, 4 Ohm, and Versatile Performance for Car Audio Applications \(Single\) - Instruction Manual](#)

PRV AUDIO 3MR40-NDY-4

PRV AUDIO 3MR40-NDY-4 3-inch Full-Range Neodymium Speaker

INSTRUCTION MANUAL

Introduction

Thank you for choosing the PRV AUDIO 3MR40-NDY-4 3-inch Full-Range Neodymium Speaker. This compact and powerful loudspeaker is engineered for versatile performance in portable speaker systems, line arrays, and car audio applications where space and weight are critical factors. With its high efficiency and robust power handling, this driver delivers remarkable audio output for its size.

Key features include 40 Watts RMS music power handling, 91 dB sensitivity, a 0.75-inch voice coil, and a strong neodymium motor for enhanced efficiency in a compact design. Its very low profile allows for easy integration into tight spaces, and it offers a super well-balanced frequency response from 120 to 20,000 Hz, providing high-fidelity sound as a midbass, midrange, or full-range speaker.

Product Overview



Front angled view of the PRV AUDIO 3MR40-NDY-4 speaker, showcasing its compact design and durable construction.

PRVA
audio
BRAZIL

40
WATTS

91
SENSITIVITY



0.75"
VOICE COIL

4Ω

3MR40-NDY-4

An illustration highlighting key performance metrics: 40 Watts power handling, 91 dB sensitivity, and a 0.75-inch voice coil diameter.



Overall Size
3.25" x 3.25"

3.69"

Mounting Depth
1.59"

Front Mount Baffle Cutout
2.79"

3MR40-NDY-4

Detailed dimensional drawing of the speaker, including overall size, mounting depth, and front mount baffle cutout for installation planning.



Rear view of the speaker, illustrating the compact neodymium motor and the speaker terminals for wiring connections.



Direct front view of the speaker, highlighting the cone and surround.



Top-down view of the speaker, showing the mounting holes and overall octagonal frame.

Setup

Mounting

The PRV AUDIO 3MR40-NDY-4 is designed for easy installation in various enclosures. Ensure the mounting surface is flat and secure. Use the following dimensions for proper fitment:

- **Overall Diameter:** 3.69 inches (93.7 mm)
- **Front Mount Baffle Cutout:** 2.79 inches (71 mm)
- **Mounting Depth:** 1.59 inches (40.5 mm)
- **Overall Depth:** 1.83 inches (46.5 mm)

Secure the speaker using appropriate screws through the mounting holes. Avoid overtightening to prevent damage to the speaker frame.

Wiring

This speaker has a nominal impedance of 4 Ohm. Ensure your amplifier or audio system is compatible with a 4 Ohm load. Connect the positive (+) terminal of the speaker to the positive output of your amplifier and the negative (-) terminal of the speaker to the negative output of your amplifier. Maintain correct polarity for optimal sound reproduction.

Crossover Settings

For full power handling and to protect the speaker from low-frequency damage, a recommended high-pass crossover setting is **160 Hz with a 12 dB per octave slope**. This will ensure the speaker operates within its optimal frequency range.

Operating Instructions

Power Handling

The 3MR40-NDY-4 speaker is rated for the following power handling capabilities:

- **Nominal Power Handling:** 20 Watts
- **Continuous Program Power (RMS):** 40 Watts
- **Max Peak Power:** 80 Watts

It is crucial to match the speaker's power handling with your amplifier's output to prevent damage. Overpowering the speaker can lead to distortion and permanent failure.

Frequency Response and Sensitivity

The speaker provides a wide frequency response from **120 Hz to 20,000 Hz**, ensuring clear and detailed audio across the midrange and high frequencies. With a sensitivity of **91 dB (2.00V at 1m)**, this speaker is efficient and capable of producing significant sound levels with relatively low power input.

Optimal Performance

For optimal sound quality, ensure your audio source is clean and free of distortion. Adjust volume levels gradually and avoid prolonged listening at maximum volume, especially if distortion is audible. Proper enclosure design and acoustic treatment can further enhance the speaker's performance.

Maintenance

To ensure the longevity and optimal performance of your PRV AUDIO 3MR40-NDY-4 speaker, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to gently wipe down the speaker cone and frame. Avoid using harsh chemicals, solvents, or abrasive materials, as these can damage the speaker's components.
- **Environmental Conditions:** Protect the speaker from direct exposure to moisture, extreme temperatures (both hot and cold), and direct sunlight for extended periods. While the speaker is robust, these conditions can degrade materials over time.
- **Connection Check:** Periodically inspect all wiring connections to ensure they are secure and free from corrosion. Loose connections can lead to signal loss or intermittent sound.
- **Physical Inspection:** Gently check the speaker cone and surround for any signs of damage, tears, or

punctures. If any damage is observed, consult with a qualified audio technician.

Troubleshooting

If you encounter issues with your PRV AUDIO 3MR40-NDY-4 speaker, refer to the following common troubleshooting steps:

No Sound

- **Check Connections:** Ensure all speaker wires are securely connected to both the speaker terminals and the amplifier outputs, maintaining correct polarity.
- **Amplifier Power:** Verify that your amplifier is powered on and functioning correctly. Check its fuses or circuit breakers.
- **Audio Source:** Confirm that the audio source (e.g., head unit, media player) is active and sending a signal. Test with a different source if possible.
- **Volume Levels:** Ensure the volume on your audio system and amplifier is turned up and not muted.

Distorted Sound

- **Input Level:** Reduce the input gain or volume from your audio source or amplifier. Overdriving the input can cause distortion.
- **Power Matching:** Ensure your amplifier's power output is within the speaker's rated power handling. Underpowering or overpowering can cause distortion.
- **Crossover Settings:** Verify that the recommended high-pass crossover (160 Hz, 12 dB/octave) is correctly applied to prevent low frequencies from distorting the speaker.
- **Impedance Mismatch:** Confirm that the amplifier's output impedance matches the speaker's 4 Ohm impedance.
- **Physical Damage:** Inspect the speaker cone and surround for any visible damage or tears that could cause distortion.

Weak or Muffled Sound

- **Polarity:** Double-check the wiring polarity. Incorrect polarity can cause phase cancellation, leading to weak or thin sound.
- **Crossover:** Ensure the crossover settings are not too high, which might cut off too much of the speaker's intended frequency range.
- **Enclosure:** Verify that the speaker is properly mounted in an appropriate enclosure. An unsealed or improperly sized enclosure can negatively impact sound quality.

If these steps do not resolve the issue, it is recommended to consult a professional audio technician or contact PRV AUDIO customer support.

Specifications

Nominal Diameter	3 inches (76.2 mm)
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Nominal Impedance	4 Ohm
Nominal Power Handling*	20 Watts
Continuous Program Power (RMS)**	40 Watts
Max Peak Power***	80 Watts
Sensitivity 2.00V at 1m	91 dB
Recommended Hi Pass Crossover	160Hz 12db Per Octave Crossover
Frequency Response	120 - 20,000 Hz
Voice Coil Diameter	0.75 inches (19 mm)
Voice Coil Wire	CCAW
Voice Coil Winding Depth	4.8 mm
Former Material	Polyimide
Magnetic Gap Depth	4 mm
Frame Material	Stamped Steel
Overall Diameter	3.69 inches (93.7 mm)
Front Mount Baffle Cutout	2.79 inches (71 mm)
Mounting Depth	1.59 inches (40.5 mm)
Overall Depth	1.83 inches (46.5 mm)
Net Weight	0.51 Lb (0.23 kg)
Shipping Weight	0.55 Lb (0.25 kg)
UPC	810075522921
Model Name	3MR40-NDY-4
Manufacturer	PRV AUDIO

Warranty and Support

Warranty Information

The PRV AUDIO 3MR40-NDY-4 speaker comes with a Limited Warranty. For specific details regarding the terms and conditions of your warranty, please refer to the documentation included with your purchase or visit the official PRV AUDIO website.

Protection Plans

Additional protection plans may be available for purchase to extend coverage beyond the standard manufacturer's warranty. These plans can offer extended service and support for your product. Please check with your retailer for

available options, such as 2-Year or 3-Year Protection Plans.

Customer Support

For technical assistance, troubleshooting not covered in this manual, or warranty claims, please contact PRV AUDIO customer support. You can find contact information on the official PRV AUDIO website or through your product's purchase documentation. You may also visit the [PRV AUDIO Store on Amazon](#) for more information.

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Model: 3MR40-NDY-4