

Diamond Audio MSPRO65

Diamond Audio MSPRO65 6.5-inch Motorsport Midrange Speakers User Manual

1. INTRODUCTION

Thank you for choosing Diamond Audio Motorsport Pro Speakers. The MSPRO65 speakers are engineered for high-performance audio in demanding environments, such as motorcycles, UTVs, and boats. This manual provides essential information for proper installation, operation, and maintenance to ensure optimal performance and longevity of your speakers.

2. WHAT'S IN THE BOX

Your Diamond Audio MSPRO65 package includes the following components:

- MSPRO65 6.5-inch Motorsport Midrange Speakers (2 units)

Note: Additional mounting hardware or wiring may be required and sold separately, depending on your specific installation.

3. INSTALLATION GUIDE

Proper installation is crucial for the performance and durability of your MSPRO65 speakers. These speakers feature a robust design and weather-resistant components, making them suitable for outdoor applications.

3.1 Mounting Considerations

- **Location:** Choose a mounting location that provides adequate space for the speaker's dimensions (6.5 inches diameter, 2.62 inches depth) and allows for clear sound projection.
- **Surface Preparation:** Ensure the mounting surface is clean, flat, and free from obstructions.
- **Drilling:** If drilling new holes, use appropriate tools and ensure precise measurements to avoid damage to the speaker or vehicle.
- **Weather Protection:** While the speakers are waterproof, ensure wiring connections are properly sealed and protected from direct water exposure to prevent corrosion.

3.2 Wiring Connections

Connect the speaker wires to your amplifier or head unit. Pay close attention to polarity (positive to positive, negative to negative) to ensure correct phase and optimal sound quality. Incorrect wiring can lead to poor

audio performance.



Image: Side view of the Diamond Audio MSPRO65 speaker, highlighting the speaker terminals for wiring connections. The barcode visible on the magnet reads 'MSPRO65200600424'.



Image: Diagram illustrating the physical dimensions of the MSPRO65 speaker, including its 6.5-inch diameter and 2.62-inch mounting depth. This is crucial for planning installation space.



Image: A Diamond Audio MSPRO65 speaker professionally installed within the fairing of a motorcycle, demonstrating a typical application.

4. OPERATING INSTRUCTIONS

Once installed, your MSPRO65 speakers are ready for operation. These speakers are designed for high-output sound with minimal power draw, providing crystal-clear highs and an immersive listening experience.

- **Power On:** Turn on your audio system (head unit/amplifier).
- **Volume Control:** Start with the volume at a low level and gradually increase it to your desired listening level. Avoid excessive volume that causes distortion, as this can damage the speakers.
- **Audio Settings:** Adjust your amplifier's gain, crossover settings, and equalization (EQ) to optimize sound quality for your specific vehicle and listening preferences. Refer to your amplifier's manual for detailed instructions.
- **Break-in Period:** Allow a short break-in period (typically 10-20 hours of normal use) for the speaker components to loosen up and achieve their full sound potential.

5. MAINTENANCE

The MSPRO65 speakers are built with superior durability and weather-resistant components. Regular maintenance will help preserve their performance and appearance.

- **Cleaning:** Use a soft, damp cloth to wipe down the speaker grilles and cones. Avoid harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically inspect the speaker surrounds and cones for any signs of damage or wear. Check wiring connections for corrosion or looseness.
- **Protection:** While waterproof, prolonged exposure to extreme conditions (e.g., direct high-pressure water jets) should be avoided.

6. TROUBLESHOOTING

If you encounter issues with your MSPRO65 speakers, refer to the following troubleshooting tips:

Problem	Possible Cause	Solution
No Sound from Speaker	<ul style="list-style-type: none"> Loose or disconnected wiring Amplifier/head unit not powered on Blown fuse in amplifier/head unit Speaker damaged 	<ul style="list-style-type: none"> Check all wiring connections for secure contact and correct polarity. Ensure amplifier and head unit are powered on and functioning. Inspect fuses and replace if necessary. If speaker is damaged, contact support.
Distorted Sound	<ul style="list-style-type: none"> Volume too high Incorrect amplifier gain settings Improper crossover settings Damaged speaker cone/surround 	<ul style="list-style-type: none"> Reduce volume to a comfortable level. Adjust amplifier gain to match head unit output. Verify crossover settings are appropriate for midrange speakers. Inspect speaker for physical damage.
Intermittent Sound	<ul style="list-style-type: none"> Loose wiring connection Faulty audio cable Overheating amplifier 	<ul style="list-style-type: none"> Check and secure all wiring connections. Test with a different audio cable if possible. Ensure amplifier has adequate ventilation.

7. SPECIFICATIONS

Detailed technical specifications for the Diamond Audio MSPRO65 Motorsport Midrange Speakers:

Feature	Specification
Brand	Diamond Audio
Model Number	MSPRO65
Model Name	Motorsport Pro Speakers
Speaker Size	6.5 Inches
Speaker Maximum Output Power	400 Watts
Frequency Response	20 KHz
Impedance	4 Ohms
Connectivity Technology	Coaxial, Wired
Audio Output Mode	Surround
Mounting Type	Flush Mount

Feature	Specification
Enclosure Material	Polycarbonate (Enclosure), Thermal Molded Waterproof Paper (Cone), Polycarbonate Cloth (Surround)
Speaker Type	Component
Water Resistance Level	Waterproof
Item Dimensions (D x W x H)	4"D x 6.5"W x 6.5"H
Number of Items	2
UPC	789993544189
Manufacturer	Diamond Audio, Inc

8. WARRANTY AND SUPPORT

Diamond Audio provides a limited warranty for the MSPRO65 speakers. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official Diamond Audio website. For technical support or service inquiries, please contact Diamond Audio customer service.

Warranty Type: Limited

Manufacturer: Diamond Audio, Inc

For further assistance, please visit the [Diamond Audio Store on Amazon](#).