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Diamond Audio M01T

Diamond Audio M01T Motorsports Series High-Frequency Tweeter Drivers

Model: M01T | Brand: Diamond Audio

INTRODUCTION

Thank you for choosing Diamond Audio M01T Motorsports Series High-Frequency Tweeter Drivers. These 1-inch pro audio tweeters are designed to deliver crisp, detailed high-frequency sound with 100W maximum power handling. Their compact and durable construction makes them ideal for various motorsport and custom audio applications, ensuring reliable performance and outstanding sound quality.



Image: Diamond Audio M01T Tweeters highlighting key features such as swivel capability, high sensitivity, and a radial slit phase plug.

SAFETY INFORMATION

- Always disconnect the vehicle's battery before beginning any electrical installation to prevent short circuits and

electrical shock.

- Ensure all wiring is properly insulated and secured to prevent damage from vibration or sharp edges.
- Do not expose the tweeters to water or excessive moisture, as they are **not** waterproof.
- Professional installation is recommended for optimal performance and safety.
- Avoid mounting in locations that obstruct driver visibility or interfere with vehicle safety features.
- Use appropriate personal protective equipment (PPE) during installation.

PACKAGE CONTENTS

Verify that all items are present in the package before proceeding with installation:

- Diamond Audio M01T High-Frequency Tweeter Drivers (2 units)
- Wiring Harness (including passive crossovers)
- Mounting hardware (gaskets, rings, etc.)



Image: A pair of Diamond Audio M01T tweeters shown with included mounting accessories.

SETUP AND INSTALLATION

The M01T tweeters feature flexible mounting options for integration into various car audio systems. Follow these general steps for installation:

1. **Planning:** Determine the optimal mounting location for the tweeters. Consider sound staging, off-axis response, and physical clearance.
2. **Mounting:** Securely mount the tweeters using the provided hardware. Ensure a stable and vibration-free installation. The flexible mounting design allows for various custom placements.
3. **Wiring:** Connect the tweeters to your amplifier or head unit using the supplied wiring harness, which includes passive crossovers. The crossovers are essential for filtering out low frequencies that can damage the tweeters.
 - Connect the positive (+) terminal of the tweeter to the positive output of the crossover.
 - Connect the negative (-) terminal of the tweeter to the negative output of the crossover.
 - Connect the input of the crossover to the appropriate high-pass filtered output from your amplifier or head unit.
4. **Testing:** Before reassembling interior panels, perform a low-volume test to ensure proper functionality and sound quality. Gradually increase volume to check for distortion.



Image: Top and bottom view of an M01T tweeter, illustrating the positive (red) and negative (black) terminals for wiring connections, along with the model number label.

OPERATING INSTRUCTIONS

Once properly installed and connected to an appropriate audio system with a high-pass filter (via the included passive crossovers or an active crossover), the Diamond Audio M01T tweeters will operate automatically as part of your car audio setup. Ensure your amplifier's gain settings are correctly adjusted to prevent overdriving the tweeters, which can lead to distortion or damage.

- Always start with low volume and gradually increase it to a comfortable listening level.
- Avoid prolonged listening at extremely high volumes to protect your hearing and the longevity of the tweeters.
- Ensure the audio source (head unit, media player) is set to a neutral equalization before making adjustments on the amplifier or external processor.

MAINTENANCE

The Diamond Audio M01T tweeters require minimal maintenance to ensure long-lasting performance:

- **Cleaning:** Gently wipe the tweeter's surface with a soft, dry cloth to remove dust. Do not use harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically check wiring connections for tightness and ensure no wires are frayed or exposed.
- **Environment:** As these tweeters are not waterproof, avoid exposing them to direct water spray or extreme humidity.

TROUBLESHOOTING

If you encounter issues with your M01T tweeters, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No sound from tweeters	<ul style="list-style-type: none"> ◦ Loose or incorrect wiring ◦ Amplifier or head unit issue ◦ Crossover malfunction ◦ Damaged tweeter 	<ul style="list-style-type: none"> ◦ Check all wiring connections for tightness and correct polarity. ◦ Verify amplifier and head unit are powered on and functioning. ◦ Ensure crossovers are correctly installed and not damaged. ◦ If all else fails, the tweeter may be damaged and require replacement.
Distorted or poor sound quality	<ul style="list-style-type: none"> ◦ Overdriven signal (gain too high) ◦ Incorrect crossover settings ◦ Loose mounting ◦ Damaged tweeter 	<ul style="list-style-type: none"> ◦ Reduce amplifier gain or head unit volume. ◦ Ensure the high-pass filter is set correctly to protect the tweeter. ◦ Check mounting screws and ensure the tweeter is securely fastened. ◦ Inspect the tweeter for physical damage.

SPECIFICATIONS

Model Name	MOTORSPORTS SERIES TWEETERS
Item Model Number	M01T
Brand	Diamond Audio
Speaker Type	High-performance super tweeter
Speaker Size	2.28 Inches
Speaker Maximum Output Power	100 Watts
Recommended Uses	Car audio
Mounting Type	Flexible mounting
Included Components	Wiring Harness (Crossovers)
Number of Items	2
Is Waterproof	FALSE
UPC	847169052361

WARRANTY AND SUPPORT

The Diamond Audio M01T Tweeter Drivers come with a **Limited Warranty**. Please refer to the warranty card included with your product for specific terms and conditions, or visit the official Diamond Audio website for detailed warranty information.

For technical support, installation assistance, or warranty claims, please contact Diamond Audio customer service through their official website or authorized dealers. Keep your purchase receipt as proof of purchase for warranty services.