

MTX 3512-02

MTX Audio 3500 Series Subwoofer User Manual

Model: 3512-02

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your MTX Audio 3500 Series Subwoofer. The 3500 series features improvements in voice coil design, power handling, and overall aesthetics, designed to deliver high-quality bass performance. Its robust construction, including a stitched cone and high-temperature voice coil, ensures durability and long-term reliability.

SAFETY INFORMATION

Always ensure proper installation and wiring to prevent damage to the subwoofer or your vehicle's electrical system. Disconnect the vehicle's battery before beginning any installation work. Consult a professional if you are unsure about any steps.

- Do not expose the subwoofer to excessive moisture or extreme temperatures.
- Ensure adequate ventilation around the subwoofer to prevent overheating.
- Use appropriate gauge wiring for power and speaker connections.
- Avoid overdriving the subwoofer beyond its rated power handling capabilities.

SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your subwoofer. The MTX 3512-02 is designed for flush mounting.

Choosing an Enclosure

The performance of your subwoofer is highly dependent on the enclosure it is installed in. Consult the subwoofer's Thiele-Small parameters for recommended sealed or ported enclosure volumes. An appropriately sized and constructed enclosure will maximize bass response and minimize distortion.

Wiring Connections

The 3512-02 model features a 2 Ohm impedance. Ensure your amplifier is stable at this impedance. Connect the positive (+) terminal of the subwoofer to the positive (+) output of your amplifier and the negative (-) terminal of the subwoofer to the negative (-) output of your amplifier.



Image: Close-up view of the subwoofer's push terminals, showing the red positive and black negative connections. These terminals provide a secure connection for speaker wires.

The subwoofer features 2.0" High Temperature Voice Coils, designed for robust power handling. Use high-quality speaker wire of sufficient gauge to minimize power loss and ensure stable operation.



Image: Side profile of the MTX 3512-02 subwoofer, highlighting the robust basket structure and the location of the speaker wire terminals at the bottom.

OPERATING INSTRUCTIONS

Once installed, the subwoofer is ready for operation. It is recommended to start with low volume levels and gradually increase them to allow the subwoofer to break in. This process helps the suspension components to loosen up, leading to better long-term performance.

Amplifier Settings

- **Gain Control:** Set the amplifier's gain control carefully. It should be set to match the output voltage of your head unit, not as a volume control. Incorrect gain settings can lead to distortion and damage.
- **Low-Pass Filter (LPF):** Use the amplifier's LPF to filter out high frequencies, allowing only bass frequencies to reach the subwoofer. A typical setting is between 80Hz and 120Hz, depending on your system and preference.
- **Subsonic Filter:** If your amplifier has a subsonic filter, enable it and set it slightly below the tuning frequency of your ported enclosure (if applicable) or around 25-30Hz for sealed enclosures. This protects the subwoofer from playing frequencies too low for its design.

The subwoofer features an Expanded Surface Area, which allows for increased volume displacement and SPL (Sound Pressure Level). Its Progressive Suspension controls excursion at high power, reducing distortion and ensuring clear bass reproduction.



Image: An angled perspective of the MTX 3512-02 subwoofer, highlighting the black cone with red stitching detail and the durable surround, designed for high excursion.

MAINTENANCE

The MTX 3500 Series Subwoofer is designed for durability and requires minimal maintenance. Regular inspection can

help ensure its longevity.

- **Cleaning:** Use a soft, dry cloth to wipe down the cone and surround. Avoid using harsh chemicals or abrasive cleaners.
- **Connection Check:** Periodically check all wiring connections to ensure they are secure and free from corrosion. Loose connections can lead to poor performance or damage.
- **Environmental Factors:** Protect the subwoofer from direct sunlight, extreme temperatures, and excessive moisture, which can degrade materials over time.

TROUBLESHOOTING

If you experience issues with your subwoofer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Sound from Subwoofer	Power issue to amplifier Loose or incorrect wiring Amplifier in protect mode Head unit settings	Check amplifier power, ground, and remote turn-on connections. Verify all speaker and RCA connections are secure and correct. Check amplifier fuses. Disconnect power, wait, and reconnect. Ensure subwoofer output is enabled and volume is up on head unit.
Distorted Sound	Amplifier gain set too high Clipping from head unit Incorrect LPF setting Damaged subwoofer	Reduce amplifier gain. Lower head unit volume. Adjust LPF to filter out higher frequencies. Inspect subwoofer cone and surround for physical damage.
Weak Bass Output	Incorrect enclosure volume Phase issue Low amplifier power	Ensure enclosure matches recommended specifications. Check phase setting on amplifier or head unit. Verify amplifier power output is sufficient for the subwoofer's RMS rating.

SPECIFICATIONS

Key technical specifications for the MTX Audio 3512-02 3500 Series Subwoofer:

Feature	Detail
Model Name	3512-02
Speaker Type	Subwoofer
Mounting Type	Flush Mount
Speaker Size	12 Inches
Impedance	2 Ohm
Speaker Maximum Output Power	500 Watts (Peak)
RMS Power Handling	250 Watts

Feature	Detail
Frequency Response	35 Hz
Product Dimensions	12"D x 12"W x 6.8"H
Item Weight	10.15 Pounds
Included Components	Subwoofer
Voice Coil	2.0" High Temperature Voice Coils
Connectivity Technology	Wired



Image: The rear of the MTX 3512-02 subwoofer, displaying the robust magnet structure and the central product label with model number and power ratings.

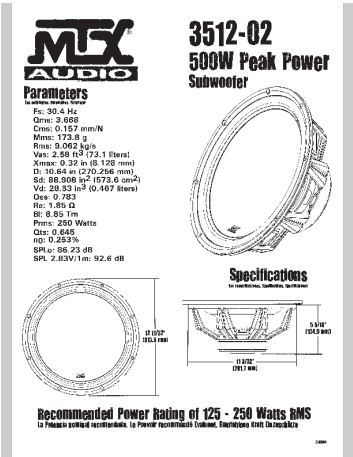
The MTX Audio 3512-02 Subwoofer comes with a Limited Warranty. For specific terms and conditions, including duration and coverage details, please refer to the warranty card included with your product or visit the official MTX Audio website. Keep your proof of purchase for warranty claims.

CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact MTX Audio customer support. You can find contact information on the official MTX Audio website or through the retailer where you purchased the product. Visit the [MTX Store on Amazon](#) for more product information and resources.

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