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MTX Audio 7515-22

MTX Audio 7515-22 15-inch 750W RMS Dual 2-Ohm Subwoofer Instruction Manual

Model: 7515-22

1. INTRODUCTION

The MTX Audio 7515-22 is a 15-inch 75 Series SuperWoofers designed for high-performance car audio applications. This subwoofer incorporates advanced technologies to deliver powerful and clear bass reproduction. It features a dual 2-ohm voice coil configuration and is capable of handling up to 750W RMS power, making it suitable for demanding audio systems.

2. SAFETY INFORMATION

Please read and understand all instructions before installing and operating this subwoofer. Failure to follow these guidelines may result in injury or damage to the product or vehicle.

- **Power Connections:** Always disconnect the vehicle's battery before making any power connections to prevent electrical shorts.
- **Wiring:** Ensure all wiring is properly insulated and secured to prevent short circuits and potential fire hazards. Use appropriate gauge wire for power and speaker connections.
- **Mounting:** Securely mount the subwoofer within a suitable enclosure to prevent movement during vehicle operation, which could cause injury or damage.
- **Hearing Protection:** Prolonged exposure to high sound pressure levels can cause permanent hearing damage. Use caution when operating your audio system at high volumes.
- **Professional Installation:** If you are unsure about any aspect of the installation, consult a qualified car audio professional.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- MTX Audio 7515-22 15-inch Subwoofer
- Technical Data Sheet

4. FEATURES

- **Inverted Apex Surround:** Increases surface area, resulting in increased volume displacement and sound pressure level (SPL).
- **Spider Plateau Venting:** Directs cool air at the voice coil for improved thermal performance and reliability.
- **Progressive Suspension:** Controls excursion at high power, reducing distortion and improving sound quality.
- **Dual 2-Ohm Voice Coils:** Offers flexible wiring options for various amplifier configurations.
- **High Power Handling:** Designed to manage significant power input for robust bass output.

5. SETUP

5.1. Wiring Configurations

The MTX 7515-22 features dual 2-ohm voice coils, allowing for different wiring options to match your amplifier's impedance requirements. Always ensure your amplifier is stable at the chosen impedance.

- **4-Ohm Load (Series Wiring):** Connect the positive terminal of one voice coil to the negative terminal of the other voice coil. The remaining two terminals become the subwoofer's positive and negative inputs. This configuration presents a 4-ohm load to the amplifier.
- **1-Ohm Load (Parallel Wiring):** Connect the positive terminals of both voice coils together, and the negative terminals of both voice coils together. These combined connections become the subwoofer's positive and negative inputs. This configuration presents a 1-ohm load to the amplifier.

Refer to your amplifier's manual to determine its stable operating impedance before wiring.

5.2. Enclosure Recommendations

Proper enclosure design is crucial for optimal subwoofer performance. The following net internal volumes are recommended:

- **Sealed Enclosure Net Volume:** 1.5 cubic feet
- **Vented Enclosure Net Volume:** 2.48 cubic feet

Consult a car audio specialist or use specialized software for precise enclosure design, especially for vented enclosures, to ensure correct port tuning.

5.3. Mounting

Ensure the mounting location provides adequate clearance for the subwoofer's dimensions and allows for proper air circulation around the magnet structure.

- **Mounting Depth:** 8.375 inches
- **Cut Out Diameter:** 13.875 inches



Image 1: Front view of the MTX Audio 7515-22 15-inch subwoofer, showcasing the cone and surround.



Image 2: Side view of the MTX Audio 7515-22 subwoofer, highlighting the robust basket and dual voice coil terminals.

6. OPERATING

6.1. Power Handling

The MTX 7515-22 subwoofer is designed to handle significant power. Adhere to the following power ratings to ensure longevity and optimal performance:

- **RMS Power Handling:** 750 Watts
- **Peak Power Handling:** 1500 Watts
- **Recommended Amplifier Power:** 375-750 Watts RMS

Avoid exceeding the peak power handling to prevent damage to the voice coil and other components. Underpowering a subwoofer can also lead to damage due to amplifier clipping, which produces a distorted signal.

6.2. Break-in Period

Like many high-performance audio components, the MTX 7515-22 benefits from a break-in period. During the first 20-30 hours of use, operate the subwoofer at moderate volume levels. This allows the suspension components (surround and spider) to loosen up and reach their optimal compliance, leading to improved bass response and overall performance.

7. MAINTENANCE

Regular maintenance helps ensure the longevity and performance of your subwoofer.

- **Cleaning:** Periodically wipe down the cone and surround with a soft, dry cloth to remove dust and debris. Avoid using harsh chemicals or excessive moisture.
- **Inspection:** Regularly inspect the subwoofer for any signs of damage, such as tears in the surround or cone, loose terminals, or unusual odors. Address any issues promptly.
- **Enclosure Integrity:** Ensure the subwoofer enclosure remains sealed and free of air leaks, which can negatively impact performance.

8. TROUBLESHOOTING

If you experience issues with your MTX 7515-22 subwoofer, consult the following common troubleshooting steps:

Problem	Possible Cause	Solution
No Sound from Subwoofer	<ul style="list-style-type: none">• Loose or incorrect wiring• Amplifier not powered on or in protect mode• Head unit settings incorrect• Damaged voice coil	<ul style="list-style-type: none">• Check all speaker and power connections.• Verify amplifier power and check for fault indicators.• Ensure subwoofer output is enabled and volume is up on head unit.• Test voice coil continuity with a multimeter.
Distorted Sound	<ul style="list-style-type: none">• Amplifier clipping (overdriving)• Gain set too high• Incorrect crossover settings• Damaged subwoofer	<ul style="list-style-type: none">• Reduce amplifier gain or head unit volume.• Adjust amplifier gain to match head unit output.• Set low-pass filter correctly (typically 80-120Hz).• Inspect subwoofer for physical damage.
Subwoofer Overheating	<ul style="list-style-type: none">• Excessive power input• Improper enclosure ventilation• Voice coil damage	<ul style="list-style-type: none">• Reduce power or check amplifier settings.• Ensure adequate airflow around the subwoofer and amplifier.• If voice coil is damaged, replacement may be necessary.

9. SPECIFICATIONS

Specification	Value
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Specification	Value
Model Name	7515-22
Speaker Size	15 Inches
RMS Power Handling	750 Watts
Peak Power Handling	1500 Watts
Recommended Amp Power	375-750 Watts RMS
Impedance	Dual 2 Ohms
Frequency Response	20Hz - 140Hz
Sensitivity	87.53 dB
Voice Coil Diameter	2.5 inches (Dual)
Magnet Weight	119 oz.
Mounting Depth	8.375 inches
Cut Out Diameter	13.875 inches
Volume Displacement	91.66 cubic inches
Sealed Enclosure Net Volume	1.5 cubic feet
Vented Enclosure Net Volume	2.48 cubic feet
Product Dimensions (D x W x H)	18" x 18" x 11.13"
Item Weight	29.5 Pounds
UPC	715442352814

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official MTX Audio website or contact their customer service department. Keep your purchase receipt as proof of purchase for any warranty claims.

MTX Audio Website: www.mtx.com