

MTX Audio 5515-44

MTX Audio 5500 Series Subwoofer Instruction Manual

Model: 5515-44

INTRODUCTION

Thank you for choosing the MTX Audio 5500 Series Subwoofer. This manual provides essential information for the proper installation, operation, and maintenance of your 5515-44 subwoofer. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of your product.

The MTX 5500 Series subwoofers are engineered to deliver powerful, clear bass with high reliability. Featuring high-temperature voice coils, a robust basket design, and a double-stitched cone, these subwoofers are built for demanding audio environments.

SAFETY INFORMATION

Always observe the following safety precautions:

- **Power Handling:** Do not exceed the recommended RMS power handling of 400 Watts or peak power of 800 Watts. Overpowering can lead to damage and void the warranty.
- **Impedance Matching:** Ensure your amplifier's output impedance matches the subwoofer's 4 Ohm impedance. Incorrect impedance can damage both the amplifier and the subwoofer.
- **Wiring:** Always use appropriate gauge wiring for power and speaker connections. Consult a professional if unsure about wiring diagrams.
- **Enclosure:** Install the subwoofer in a properly designed and constructed enclosure to prevent damage and ensure optimal sound quality.
- **Ventilation:** Ensure adequate ventilation around the subwoofer and amplifier to prevent overheating.
- **Moisture:** This product is **NOT waterproof**. Avoid exposure to water or excessive moisture.
- **Hearing Protection:** Prolonged exposure to high sound pressure levels can cause permanent hearing damage. Use caution when adjusting volume levels.

WHAT'S IN THE BOX

Upon opening the package, you should find the following:

- MTX Audio 5515-44 Subwoofer (1 unit)

Please inspect the contents for any signs of damage during shipping. Contact your dealer immediately if any items are missing or damaged.

SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your subwoofer. It is recommended that installation be performed by a qualified professional.

1. Enclosure Selection and Mounting

The 5515-44 subwoofer is designed for flush mounting in a suitable enclosure. The enclosure type (sealed, ported, bandpass) will significantly affect the subwoofer's performance. Consult MTX Audio's official resources or a car audio specialist for recommended enclosure specifications for optimal sound.



Figure 1: Angled view of the MTX Audio 5515-44 Subwoofer, showcasing its robust construction and red stitching detail.



Figure 2: Side profile of the subwoofer, highlighting the sturdy basket design and mounting depth.

2. Wiring Connections

The 5515-44 features dual 4 Ohm voice coils, allowing for flexible wiring configurations to achieve different impedances (e.g., 2 Ohm or 8 Ohm) depending on your amplifier's capabilities. Always ensure correct polarity (+ to + and - to -) to avoid phase issues and damage.



Figure 3: Detailed view of the dual 4 Ohm wiring terminals on the subwoofer, showing positive (+) and negative (-) connections.

- **Parallel Wiring (2 Ohm Load):** Connect both positive terminals together and both negative terminals together. This configuration presents a 2 Ohm load to the amplifier.
- **Series Wiring (8 Ohm Load):** Connect the positive terminal of one voice coil to the negative terminal of the other voice coil. Then connect the remaining positive and negative terminals to the amplifier. This configuration presents an 8 Ohm load.

Refer to your amplifier's manual for compatible impedance loads and wiring recommendations. Use high-quality RCA cables for signal connection from your head unit to the amplifier.

OPERATING YOUR SUBWOOFER

Once installed, proper operation involves setting up your amplifier and head unit for optimal sound. The 5515-44 is designed to reproduce low frequencies down to 21 Hz.

- **Amplifier Gain Setting:** Set the amplifier gain correctly to match the output voltage of your head unit. Incorrect gain settings can lead to distortion and damage. Start with the gain at minimum and slowly increase it until you hear distortion, then back off slightly.

- **Crossover Settings:** Use the low-pass filter (LPF) on your amplifier or head unit to send only low frequencies to the subwoofer. A common starting point is 80-100 Hz, but this can be adjusted based on your vehicle's acoustics and personal preference.
- **Subsonic Filter:** If your amplifier has a subsonic filter, set it slightly below the tuning frequency of your ported enclosure (if applicable) to protect the subwoofer from over-excitation at very low frequencies.
- **Break-in Period:** Allow a break-in period of several hours of moderate listening before pushing the subwoofer to its limits. This allows the suspension components to loosen up and perform optimally.

MAINTENANCE

The MTX 5515-44 subwoofer requires minimal maintenance to ensure long-term performance.

- **Cleaning:** Use a soft, dry cloth to wipe down the cone and surround. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically check all wiring connections for tightness and corrosion. Ensure the subwoofer is securely mounted in its enclosure.
- **Environmental Protection:** As the subwoofer is not waterproof, protect it from direct exposure to water, extreme temperatures, and direct sunlight, 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	<ul style="list-style-type: none"> • No power to amplifier • Loose or incorrect wiring • Amplifier in protect mode • Head unit settings 	<ul style="list-style-type: none"> • Check amplifier power connections and fuses. • Verify all speaker and RCA connections are secure and correct. • Check amplifier's protect light; consult amplifier manual. • Ensure subwoofer output is enabled and volume is up on head unit.
Distorted Sound	<ul style="list-style-type: none"> • Amplifier gain set too high • Clipping from amplifier • Incorrect crossover settings • Damaged subwoofer 	<ul style="list-style-type: none"> • Reduce amplifier gain. • Ensure amplifier is not clipping (indicated by a distortion light or audible distortion). • Adjust LPF settings; ensure no full-range signal is sent to subwoofer. • Inspect subwoofer cone and surround for physical damage.

Problem	Possible Cause	Solution
Weak Bass Output	<ul style="list-style-type: none"> Incorrect wiring (out of phase) Insufficient amplifier power Improper enclosure design 	<ul style="list-style-type: none"> Reverse polarity on one voice coil or speaker wire to check for phase correction. Ensure amplifier provides adequate RMS power for the subwoofer. Verify enclosure volume and port tuning (if applicable) are correct.
Subwoofer Overheating	<ul style="list-style-type: none"> Overpowering Improper impedance match Poor ventilation 	<ul style="list-style-type: none"> Reduce volume or amplifier gain. Verify correct impedance match between subwoofer and amplifier. Ensure adequate airflow around the subwoofer and amplifier.

If problems persist after attempting these solutions, contact MTX Audio customer support or a certified car audio technician.

SPECIFICATIONS

Below are the key specifications for the MTX Audio 5515-44 Subwoofer:

Feature	Specification
Model Name	5515-44
Speaker Type	Subwoofer
Speaker Size	15 Inches
Subwoofer Diameter	14.38 Inches
Woofer Diameter	13.88 Inches
Impedance	Dual 4 Ohm
RMS Power Handling	400 Watts
Speaker Maximum Output Power	800 Watts
Frequency Response	21 Hz
Product Dimensions (D x W x H)	15.5"D x 15.5"W x 8.31"H
Item Weight	15.5 Pounds
Mounting Type	Flush Mount
Connectivity Technology	RCA (for amplifier input)
Is Waterproof	FALSE
Included Components	Subwoofer

WARRANTY INFORMATION

The MTX Audio 5515-44 Subwoofer comes with a Limited Warranty. Please refer to the warranty card included with your product or visit the official MTX Audio website for detailed terms and conditions regarding coverage, duration, and claim procedures. Keep your proof of purchase for warranty claims.

CUSTOMER SUPPORT

For further assistance, technical support, or warranty inquiries, please visit the official MTX Audio website or contact their customer service department. You can also visit the [MTX Audio Store on Amazon](#) for more product information and resources.

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Inverted Apex Surround
Creates higher volume displacement, higher SPL and less distortion.

Progressive Suspension
Controls excursion at high power lowering 3rd order distortion.

Radial Ribbed T-Yoke
Dissipates heat and decreases distortion.

The 55 Series Legacy
The 55 Series, MTX's best selling subwoofer family, is a perfect mix of performance and value for enthusiasts that want to add extra bass to their system without breaking the bank. The 55 Series is an overhauled core line that's been updated to 12", 15" and 18" bass drivers in the 5512, 5515 and 5518 models. The woofers now have a more linear audio playback as it's much more efficient when you're rocking out. The special suspension easily controls when you're putting the sub hard. Some would say that you have space for 10, 12 or 15 inch, we have the **Best For You!**

The MTX Inverted Apex Surround
This subwoofer features the MTX Inverted Apex Surround. This is a design that allows the subwoofer to move inwards and outwards, thereby increasing the surface diameter of the subwoofer core enabling it to displace more air and generate higher SPL. The 55s are designed with a progressive suspension that lowers distortion resulting in improved sound quality and a longer life.

55 Series Spider Plateau Venting
This subwoofer also incorporates Spider Plateau Venting which is a mechanical cooling process that targets cool air at the voice coil and a radial ribbed t-yoke that acts as a heat sink effectively managing the subwoofer temperature for long term rocking performance.

Learn more about Subwoofers on our website.

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Inverted Apex Surround Creates higher volume displacement, higher SPL and less distortion. Progressive Suspension Controls excursion at high power lowering 3rd order distortion. Radial Ribbed T-Yoke Dissipates heat and decreases distortion. The 55 Series Legacy The 55 Series, MTX's best selling s...

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