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CT Sounds MESO-6-5-3WAY-COM

CT Sounds Meso 6.5-inch 3-Way Component Car Speaker Set

Model: MESO-6-5-3WAY-COM | Brand: CT Sounds

Introduction

Thank you for choosing the CT Sounds Meso 6.5-inch 3-Way Component Car Speaker Set. This premium audio system is designed to deliver exceptional sound quality and powerful performance in your vehicle. This manual provides essential information for proper installation, operation, and maintenance to ensure optimal performance and longevity of your speakers.



Image: The complete CT Sounds Meso 6.5-inch 3-Way Component Speaker Set, showcasing the woofer, midrange, and tweeter components.

What's in the Box

Carefully unpack the contents and ensure all items are present and in good condition. If any items are missing or damaged, please contact your dealer immediately.

- (2) Meso 6.5" Midrange Woofers
- (2) Meso 3.5" Neo Midrange Woofers
- (2) Meso 25 mm Silk-Dome Tweeters
- (2) 18 dB Passive Crossover Networks
- Screws and Mounting Brackets



Image: All components included in the CT Sounds Meso 3-Way Component Speaker Set, laid out for inspection.

Setup & Installation

Proper installation is crucial for optimal performance and safety. It is highly recommended that installation be performed by a qualified professional. Incorrect wiring or mounting can damage the speakers, your vehicle, or cause personal injury.

General Guidelines:

- **Safety First:** Disconnect the vehicle's battery before starting any electrical work.

- **Mounting Location:** Choose suitable locations for the woofers, midranges, and tweeters that allow for proper sound dispersion and secure mounting. Ensure adequate clearance behind the speakers.
- **Wiring:** Use appropriate gauge wiring for all connections. Ensure all connections are secure and insulated to prevent short circuits.
- **Crossovers:** Mount the passive crossover networks in a dry, accessible location, away from heat sources and moisture.

Component Overview:



Image: CT Sounds Meso 6.5-inch Midrange Woofer.



Image: CT Sounds Meso 3.5-inch Neo Midrange Woofer.



Image: CT Sounds Meso 25mm Silk-Dome Tweeter.



Image: CT Sounds Meso 18 dB Passive Crossover Networks.

Wiring Diagram

The CT Sounds Meso 3-Way Component Set utilizes passive crossover networks to properly distribute audio frequencies to each speaker. Follow the diagram below for correct wiring connections.

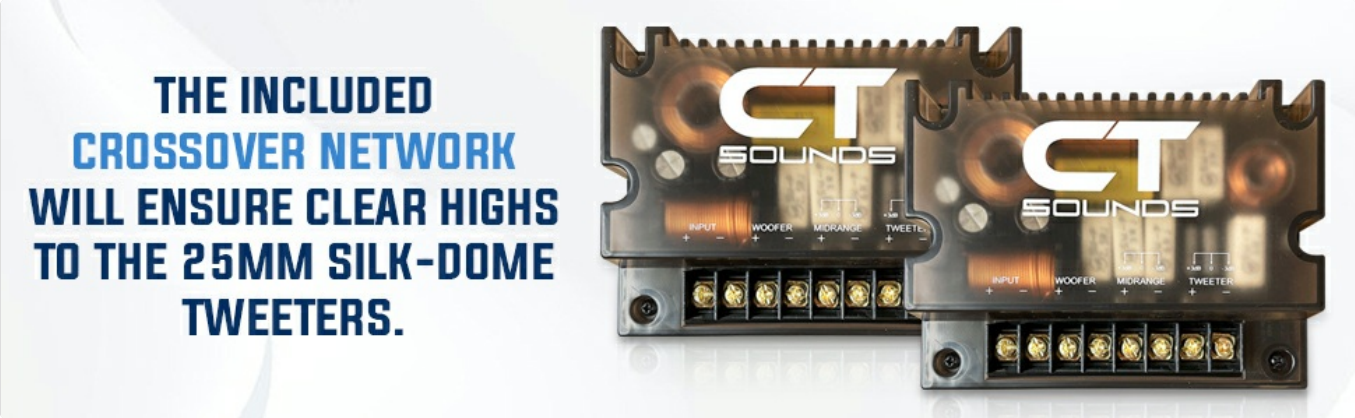


Image: Close-up of the CT Sounds Meso 18 dB Passive Crossover Networks, showing input and output terminals for woofer, midrange, and tweeter.

1. Connect the amplifier's full-range output to the**INPUT** terminals on the passive crossover network. Ensure correct polarity (+ to + and - to -).
2. Connect the **WOOFER** output terminals from the crossover to the 6.5-inch midrange woofer.
3. Connect the **MIDRANGE** output terminals from the crossover to the 3.5-inch neo midrange woofer.
4. Connect the **TWEETER** output terminals from the crossover to the 25mm silk-dome tweeter.
5. Repeat the process for the other side of the vehicle.

Always double-check all connections before applying power to prevent damage.

Operating Instructions

Once installed, follow these guidelines for optimal sound and speaker longevity.

Break-in Period:

Allow a break-in period of approximately 10-20 hours of normal listening before pushing the speakers to their limits. This allows the speaker components to loosen up and perform optimally.

Amplifier Settings:

- **Gain Setting:** Set your amplifier's gain correctly to match the output voltage of your head unit. Avoid setting the gain too high, as this can lead to distortion and speaker damage.
- **Crossover Frequencies:** While the passive crossovers handle the frequency division for the speakers, ensure your amplifier's internal crossovers (if used) are set appropriately to avoid sending full-range signals to the component set, which could cause distortion or damage.
- **Equalization:** Adjust your head unit's or amplifier's equalizer settings to fine-tune the sound to your preference. Start with flat settings and make small adjustments.

Volume Levels:

Avoid prolonged listening at extremely high volume levels that cause audible distortion. Distortion is a sign that the speakers or amplifier are being overdriven, which can lead to permanent damage.

Maintenance

Regular maintenance will help preserve the performance and appearance of your CT Sounds Meso speakers.

- **Cleaning:** Use a soft, dry cloth to gently wipe down the speaker grilles and surrounds. Avoid using harsh chemicals or abrasive cleaners.
- **Check Connections:** Periodically inspect all wiring connections to ensure they remain secure. Loose connections can lead to intermittent sound or reduced performance.
- **Environmental Factors:** Protect speakers from extreme temperatures, direct sunlight, and excessive moisture.

Troubleshooting

If you experience issues with your speaker set, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
No sound from one or more speakers	Loose or incorrect wiring; amplifier off or in protect mode; damaged speaker.	Check all wiring connections at the amplifier, crossover, and speaker terminals. Verify amplifier is powered on and not in protect mode. Test speaker with a known good source if possible.
Distorted or unclear sound	Amplifier gain too high; incorrect crossover settings; damaged speaker; poor quality audio source.	Reduce amplifier gain. Ensure amplifier's internal crossovers are set correctly (if used). Check speaker for physical damage. Try a different audio source.
Unbalanced sound (one side louder)	Head unit balance setting; unequal amplifier gain settings; wiring issue.	Check head unit balance control. Verify amplifier gain settings are identical for left and right channels. Inspect wiring for loose connections or shorts.
Intermittent sound	Loose wiring connection; faulty component.	Thoroughly check all wiring connections. If problem persists, consult a professional.

Specifications

Detailed technical specifications for the CT Sounds Meso 6.5-inch 3-Way Component Car Speaker Set.

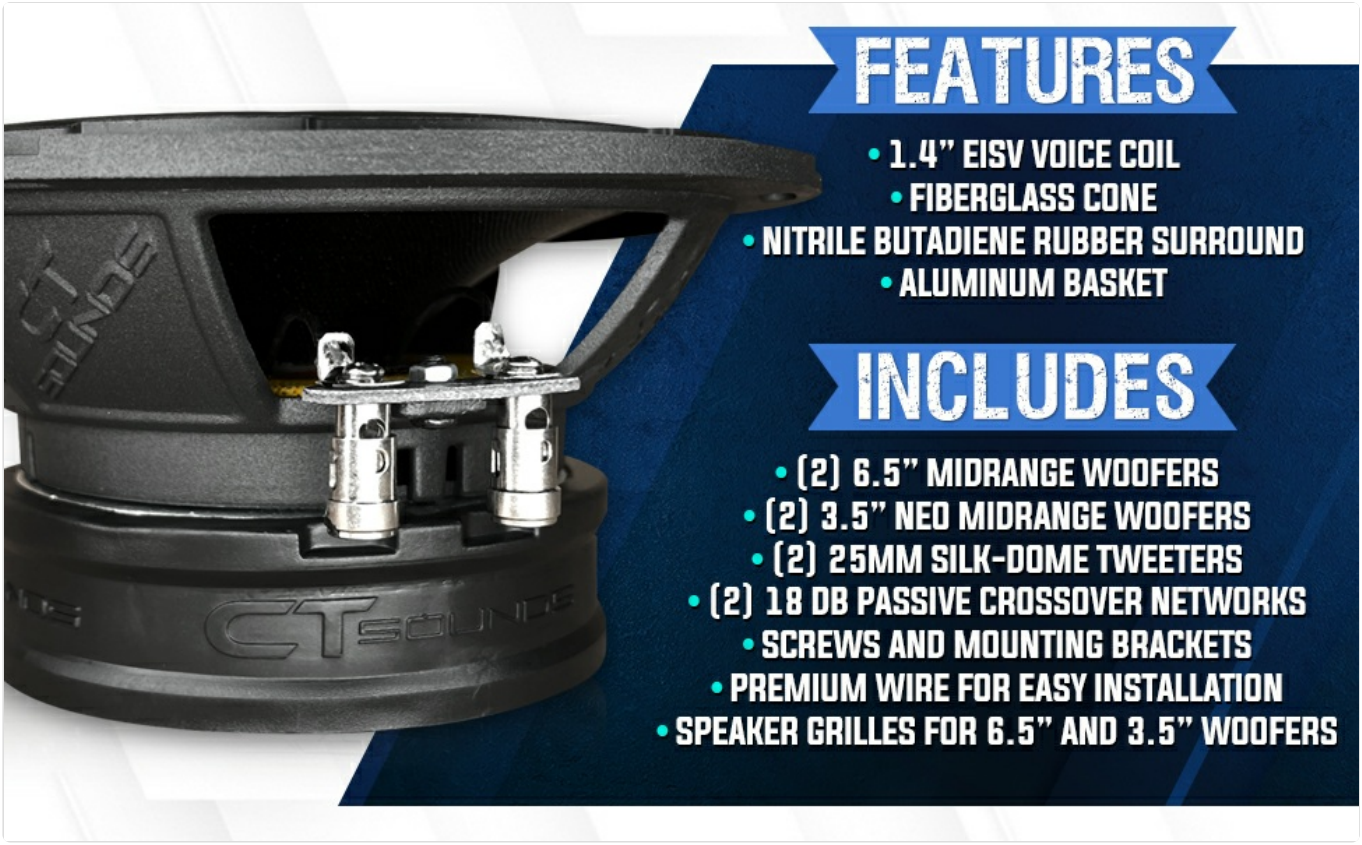


Image: Overview of features and included components for the CT Sounds Meso 3-Way Component Speaker Set.



Image: Detailed specifications for the CT Sounds Meso 6.5-inch 3-Way Component Speaker Set, including woofer, tweeter, and crossover parameters.

Component	Specification
System Power (RMS | MAX)	250W RMS | 500W MAX

Component	Specification
Speaker Size	6.5 inches (Woofer), 3.5 inches (Midrange), 25 mm (Tweeter)
Impedance	4 Ohm per speaker
Frequency Response	Woofer: 50 Hz - 4.5 kHz, Midrange: 300 Hz - 1500 Hz, Tweeter: 500 Hz - 20 kHz
Woofer Voice Coil	1.4" EISV
Woofer Cone Material	Fiberglass
Woofer Surround Material	Nitrile Butadiene Rubber
Tweeter Type	Silk-Dome
Crossover Network	18 dB Passive Crossover Networks
Mounting Type	Car Mount
Item Weight	12.4 pounds
Model Number	MESO-6-5-3WAY-COM

Warranty & Support

CT Sounds products are manufactured to high-quality standards and are backed by a limited warranty. Please refer to the warranty information provided with your purchase or visit the official CT Sounds website for details regarding warranty coverage, terms, and conditions.
For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact CT Sounds customer support directly. Contact information can typically be found on the product packaging or the official CT Sounds website.
Online Support: www.ctsounds.com

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