

## CT Sounds MESO-5-25-COX

# CT Sounds Meso 5.25 Inch 2-Way Coaxial Car Speakers Instruction Manual

Model: MESO-5-25-COX

## 1. INTRODUCTION

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Thank you for choosing CT Sounds Meso 5.25 inch 2-Way Coaxial Car Speakers. This manual provides essential information for the proper installation, operation, and maintenance of your new car audio speakers. Please read this manual thoroughly before installation and retain it for future reference.

## 2. SAFETY INFORMATION

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Always observe the following safety precautions during installation and operation:

- Disconnect the vehicle's battery negative terminal before beginning any electrical work to prevent short circuits.
- Ensure all wiring is properly insulated to prevent electrical shorts and damage to components.
- Mount speakers securely to prevent them from becoming loose during vehicle operation.
- Avoid installing speakers in locations that obstruct vehicle safety features or driver visibility.
- Do not expose speakers to excessive moisture or extreme temperatures.
- Consult a professional car audio installer if you are unsure about any part of the installation process.

## 3. WHAT'S IN THE BOX

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Verify that all components are present before beginning installation:

- 2 x CT Sounds Meso 5.25 Inch Coaxial Speakers
- 2 x Speaker Grilles
- Installation Hardware (screws, clips, wiring)



Image 3.1: Package contents showing two speakers, grilles, wiring, and mounting hardware.

## 4. SETUP AND INSTALLATION

### 4.1 Pre-Installation Checks

- Confirm the speaker size (5.25 inches) and mounting depth (2.65 inches) are compatible with your vehicle's speaker locations.
- Ensure your amplifier or head unit can safely power 4 Ohm speakers with 60W RMS per speaker (120W RMS per pair).

### 4.2 Mounting the Speakers

Carefully remove existing speakers or trim panels to access the mounting location. Position the new CT Sounds Meso speakers and secure them using the provided screws and clips. Ensure a snug fit to prevent vibrations.



Image 4.1: Angled view of the CT Sounds Meso 5.25 inch coaxial speaker.



Image 4.2: Front view of the CT Sounds Meso 5.25 inch coaxial speaker.

### **4.3 Wiring Connections**

Connect the speaker wires to the push terminals on the back of each speaker. Ensure correct polarity (positive to positive, negative to negative) to avoid phase issues that can degrade sound quality. The speakers have a 4 Ohm impedance.



Image 4.3: Rear view of the speaker showing wiring terminals.



Image 4.4: Side view illustrating the integrated crossover circuit.

## 5. OPERATING INSTRUCTIONS

Once installed, connect your vehicle's battery and turn on your head unit or amplifier. Start with the volume low and gradually increase it to your desired listening level. Adjust audio settings (bass, treble, balance, fader) on your head unit for optimal sound reproduction.

- **Break-in Period:** Allow a break-in period of approximately 10-20 hours of normal listening to allow the

speaker components to loosen and achieve their optimal performance.

- **Volume Control:** Avoid prolonged listening at extremely high volumes to prevent speaker damage and hearing loss.

## 6. MAINTENANCE

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These speakers require minimal maintenance:

- **Cleaning:** Use a soft, dry cloth to gently wipe dust from the speaker grilles and cones. Do not use harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically check speaker mounting screws for tightness and wiring connections for security.

## 7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No Sound from Speakers	Loose or incorrect wiring connections. Amplifier/head unit off or faulty. Speaker damaged.	Check all wiring for secure connections and correct polarity. Verify amplifier/head unit power. Test with another known-good speaker if possible.
Distorted Sound	Volume too high. Amplifier clipping. Incorrect gain settings. Damaged speaker.	Reduce volume. Check amplifier gain settings. Inspect speaker cone for physical damage.
Weak Bass Response	Incorrect wiring polarity. Speaker not sealed properly in enclosure.	Verify correct wiring polarity. Ensure speaker is securely mounted and sealed.
Intermittent Sound	Loose wiring. Faulty connection.	Inspect all wiring connections for looseness or corrosion.

If troubleshooting steps do not resolve the issue, contact CT Sounds customer support.

## 8. SPECIFICATIONS

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Detailed technical specifications for the CT Sounds Meso 5.25 inch Coaxial Speakers:


**Speaker Size: 5.25"**  
**Speaker Type: Coaxial**  
**Voice Coil Configuration: Single 4-Ohm**  
**Power Per Speaker: 70W (RMS) | 140W (MAX)**  
**Total System Power: 140W (RMS) | 280W (MAX)**





**DIMENSIONS**  
**Overall Diameter: 5.10"**  
**Cutout Diameter: 4.54"**  
**Magnet Diameter: 4.17"**  
**Mounting Depth: 2.65"**  
**Overall Height: 2.85"**

Image 8.1: Key speaker specifications and dimensions.


**WOOFER**  
**Voice Coil Size: 1.4"**  
**Sweep Voltage: 12V**  
**Output SPL (@1w/1m): 89 dB**  
**X-Over Point: 4.5 kHz**  
**Resonant Frequency: 75 Hz**  
**Frequency Response: 50 Hz - 18 kHz**  
**Magnet Weight: 21 Oz**  
**Magnet Type: Ferrite**


**TWEETER**  
**Sweep Voltage: 2.8 V**  
**Output SPL (@1w/1m): 92 dB**  
**Frequency Response: 1500 Hz - 20 kHz**  
**Tweeter Size: 25mm**  
**Tweeter Type: Silk-dome**  
**Magnet Type: Neo**


**CROSSOVER**  
**Crossover Circuit: 2.2  $\mu$ F capacitor / 100 V**  
**Filter for Tweeter: 6 dB**




Image 8.2: Detailed woofer, tweeter, and crossover specifications.



## FEATURES

- 1.4" EISV VOICE COIL
- FIBERGLASS CONE
- NITRILE BUTADIENE RUBBER SURROUND
  - NOMEX BLEND SPIDER PACK
  - DURABLE STAMP STEEL BASKET
  - 25MM SILK-DOME TWEETER
- PUSH TERMINALS FOR SPEAKER CONNECTIVITY
- SIGNATURE CT SOUNDS SILVER CHROME PLATED RING SPEAKER GRILLES INCLUDED
  - PREMIUM WIRE AND SCREWS INCLUDED FOR EASY INSTALLATION

Image 8.3: Key features of the CT Sounds Meso 5.25 inch coaxial speakers.

- **Speaker Size:** 5.25 inches
- **Speaker Type:** 2-Way Coaxial
- **Impedance:** 4 Ohms
- **RMS Power (per speaker):** 60 Watts
- **MAX Power (per speaker):** 120 Watts
- **Total System RMS Power:** 120 Watts
- **Total System MAX Power:** 240 Watts
- **Woofer Cone Material:** Fiberglass
- **Surround Material:** Nitrile Butadiene Rubber
- **Tweeter Type:** Silk-dome, 25mm
- **Voice Coil:** 1.4 inch EISV
- **Frequency Response:** 50 Hz - 20 kHz
- **Mounting Depth:** 2.65 inches
- **Included Components:** 2 Speakers, Speaker Grilles, Installation Hardware
- **Model Name:** MESO-5-25-COX
- **UPC:** 760921473818

## 9. WARRANTY AND SUPPORT

### 9.1 Warranty Information

CT Sounds Meso 5.25 inch Coaxial Speakers come with a Limited Warranty. Please refer to the warranty card included with your product or visit the official CT Sounds website for detailed terms and conditions regarding warranty coverage and duration.

### 9.2 Customer Support

For technical assistance, installation questions, or warranty claims, please contact CT Sounds customer support through their official website or the contact information provided in your product packaging. Have your model

number (MESO-5-25-COX) and purchase details ready when contacting support.

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