

5 CORE CS 05 2W

5 CORE CS 05 2W 5-Inch 2-Way Coaxial Car Speaker Instruction Manual

Model: CS 05 2W | Brand: 5 CORE

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1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your 5 CORE CS 05 2W 5-inch 2-way coaxial car speakers. Please read this manual thoroughly before using the product to ensure proper setup and optimal performance. These speakers are designed to deliver clear, powerful audio for an enhanced in-car listening experience.

2. KEY FEATURES

- **Powerful Audio Output:** 350W maximum power and 35W RMS for loud, distortion-free sound.
- **2-Way Coaxial Design:** Features an 88dB sensitivity rating for balanced highs, mids, and lows, providing enhanced stereo clarity.
- **Wide Frequency Response:** Covers 75Hz to 20KHz, ensuring rich bass and crisp treble.
- **4-Ohm Impedance:** Compatible with most car audio systems, reducing distortion for high-quality sound.
- **Durable Construction:** Built with a rubber edge and injection cone for long-lasting performance.
- **Easy Installation:** Compact 58 ±1.0mm mounting depth for versatile fit in car doors and trucks.



Figure 2.1: Overview of the 5 CORE CS 05 2W car speaker.

UNCOMPROMISING POWER. UNMATCHED CLARITY



350W
Max Power



1"
Voice Coil Size



4 Ohm
Impedance



Figure 2.2: Key power specifications including 350W Max Power, 1-inch Voice Coil Size, and 4 Ohm Impedance.

5 CORE



Premium Powerhouse

Unstoppable Bass



**5.2 OZ
MAGNET**



**1" ASV
VOICE COIL**



TAKE YOUR SYSTEM TO THE NEXT LEVEL

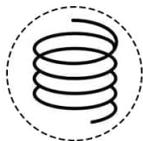
Figure 2.3: Details on the 5.2 oz magnet and 1-inch ASV voice coil for robust bass performance.

HIGHLIGHTED FEATURES

5 CORE



**BUILT-IN SUPER
TWEETER**



**ALUMINUM VOICE
COIL**



**FLEXIBLE RUBBER
SURROUND**



**FREQUENCY
75-20KHZ**



**RUBBER EDGE
INJECTION CONE**

Figure 2.4: Visual representation of highlighted features: built-in super tweeter, aluminum voice coil, flexible rubber surround, 75-20KHz frequency, and rubber edge injection cone.

CAR SPEAKER ANATOMY

RUBBER EDGE: Allows for smooth and precise cone movement, delivering clean and distortion-free bass.

BUILT-IN METAL BASKET: Resistant to cracking, warping, or wear over time. Adds a premium touch to your audio setup

2-WAY SYSTEM WITH BUILT-IN TWEETER: Engineered to deliver a broad frequency range, from rich bass to crystal-clear highs.

STURDY METAL FRAME: Enhances durability but also reduces vibrations and resonance, providing cleaner and more accurate sound

4 PRE-DRILLED HOLES: Ensure a secure and stable fit, saving your time and effort.

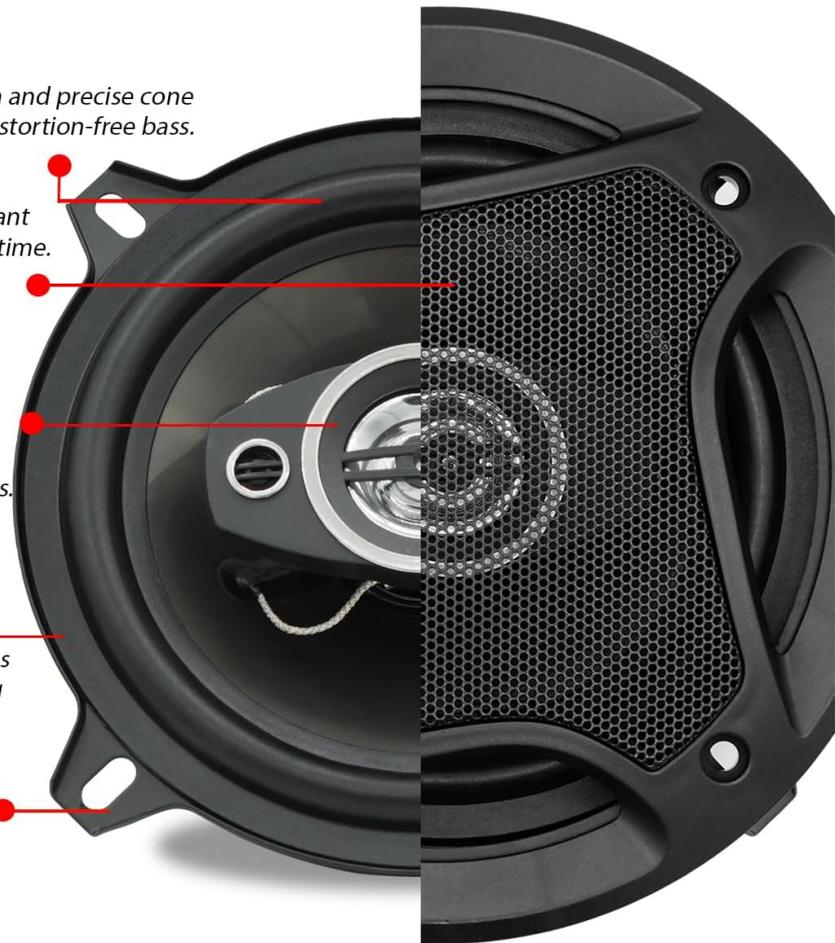


Figure 2.5: Diagram illustrating the internal components of the car speaker, including the rubber edge, built-in metal basket, 2-way system with built-in tweeter, sturdy metal frame, and pre-drilled holes.

3. PACKAGE CONTENTS

Ensure all items are present upon unboxing:

- 2x 5 CORE CS 05 2W Car Speakers

4. TECHNICAL SPECIFICATIONS

5 CORE



SPECIFICATIONS

- ➔ **Speaker Size : 5 Inch**
- ➔ **Speaker Type : 2 Way Speaker**
- ➔ **Impedance: 4 Ohm**
- ➔ **Material Type : Rubber Edge Injection Cone**
- ➔ **Voice Coil : 1" Asv Voice Coil**
- ➔ **Sensitivity: 88 ±3dB**
- ➔ **Magnet Grade: Y25**
- ➔ **Frequency: 75-20KHz**

350 Watts
Max Power

Figure 4.1: Visual summary of key technical specifications.

| Specification | Value |
|------------------------------|-----------------------------------|
| Model Name | 5 Inch 2 Way |
| Speaker Size | 5 Inches |
| Speaker Type | 2 Way Coaxial |
| Speaker Maximum Output Power | 350 Watts |
| Impedance | 4 Ohms |
| Frequency Response | 75Hz - 20KHz |
| Sensitivity | 88 ±3dB |
| Voice Coil | 1 Inch ASV Voice Coil |
| Magnet Grade | Y25 |
| Material | Metal, Rubber Edge Injection Cone |
| Mounting Type | Door Mount |

| Specification | Value |
|-------------------------|---------------------|
| Mounting Depth | 58 ±1.0mm |
| Product Dimensions | 6.3"D x 1.8"W x 5"H |
| Item Weight | 2.7 pounds |
| Connectivity Technology | Wired |
| Audio Output Mode | Stereo |



CS 05 2W SPL vs FREQ

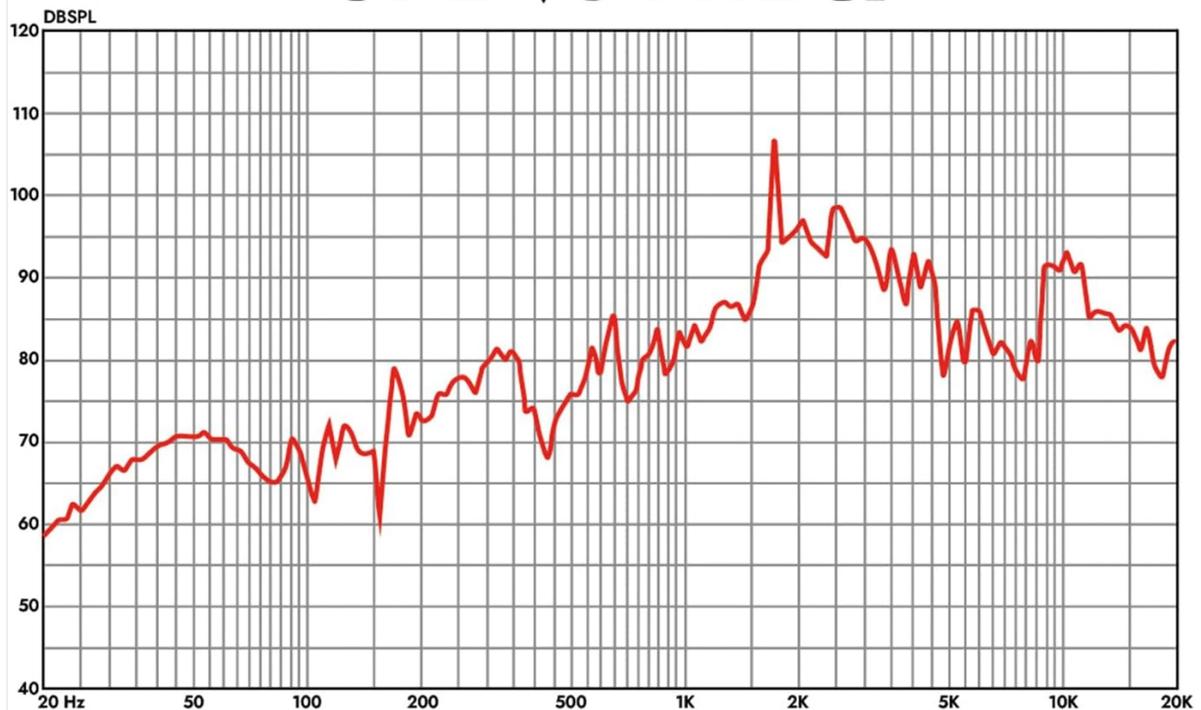


Figure 4.2: SPL vs. Frequency graph illustrating the speaker's audio performance across different frequencies.



| | |
|--------------------|------------------|
| <i>Sd</i> | 8.659 |
| <i>Mms</i> | 7.381 |
| <i>Qms</i> | 1.302 |
| <i>Cms</i> | 226.229 |
| <i>Qes</i> | 1.266 |
| <i>Qts</i> | 0.642 |
| <i>Re</i> | 3.6 |
| <i>Vas</i> | 2.409 |
| <i>Bl</i> | 3.8 |
| <i>Levc</i> | 161.096uH |
| <i>MMd</i> | 12.2g |
| <i>Fs</i> | 123.168 |
| <i>Sensitivity</i> | 87.4 |

Figure 4.3: Small Parameters (Thiele-Small parameters) providing detailed electro-mechanical characteristics of the speaker.

5. SETUP AND INSTALLATION

Proper installation is crucial for optimal sound quality and speaker longevity. If you are unsure about any steps, it is recommended to seek professional assistance.

5.1 Before You Begin

- Disconnect the car battery's negative terminal to prevent electrical shorts.
- Gather necessary tools: screwdriver set, wire strippers, crimping tool, electrical tape, mounting hardware (if not included).
- Ensure the mounting location (e.g., car door) has sufficient depth ($58 \pm 1.0\text{mm}$) and clearance for the speaker.

5.2 Mounting the Speakers

1. Carefully remove the existing car speakers or access panels from the desired mounting location.
2. Position the 5 CORE CS 05 2W speaker in the opening. The speaker features pre-drilled holes for easy alignment.

3. Secure the speaker using appropriate screws and mounting hardware. Do not overtighten.

5.3 Wiring Connections

The speakers are designed for hassle-free connections. Ensure correct polarity (+ to + and - to -) to avoid phase issues and ensure proper sound reproduction.



Figure 5.1: Rear view of the speaker showing quick-connect wiring terminals.

1. Connect the positive (+) speaker wire from your car's audio system to the positive terminal on the 5 CORE speaker.
2. Connect the negative (-) speaker wire from your car's audio system to the negative terminal on the 5 CORE speaker.
3. Ensure all connections are secure and insulated with electrical tape or heat shrink tubing to prevent short circuits.

5.4 Final Steps

1. Reinstall any removed panels or grilles.
2. Reconnect the car battery's negative terminal.
3. Test the audio system to ensure both speakers are functioning correctly and producing clear sound.

6. OPERATING INSTRUCTIONS

Once installed, your 5 CORE CS 05 2W speakers will operate as part of your car's existing audio system. Follow these general guidelines for optimal listening:

- **Volume Control:** Adjust the volume through your car's head unit. Avoid excessively high volumes for prolonged periods to prevent speaker damage.
- **Equalizer Settings:** Experiment with your head unit's equalizer settings to fine-tune the sound to your preference. The wide frequency response of these speakers allows for versatile sound customization.
- **Balance and Fader:** Adjust the balance (left/right) and fader (front/rear) to create an optimal sound stage within your vehicle.

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Video 6.1: An overview of the 5 CORE 2 Way 5 Inch Car Stereo Speakers, demonstrating features and potential use cases. This video is provided by the seller, Kaneer Ent.

7. MAINTENANCE

To ensure the longevity and performance of your 5 CORE CS 05 2W speakers, follow these simple maintenance tips:

- **Cleaning:** Gently wipe the speaker grilles and surrounds with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners, which can damage the speaker materials.
- **Protection:** Keep the speakers free from excessive dust, dirt, and moisture. If your car is exposed to extreme conditions, consider additional protection for the speakers.
- **Inspection:** Periodically check the speaker connections to ensure they remain secure. Loose connections can lead to intermittent sound or reduced performance.

8. TROUBLESHOOTING

If you encounter 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 | Check all speaker wire connections at both the speaker and the head unit. Ensure correct polarity. |
| | Head unit or amplifier issue | Verify the head unit is powered on and functioning. Test with another known-good speaker if possible. |
| Distorted or unclear sound | Volume too high or improper equalizer settings | Reduce volume. Adjust equalizer settings to a flatter response and gradually fine-tune. |
| | Loose speaker mounting | Ensure speakers are securely mounted and not vibrating against the car panel. |

| Problem | Possible Cause | Solution |
|-------------------------|--------------------------|---|
| One speaker not working | Faulty wiring or speaker | Check wiring for the specific speaker. Swap speakers (if possible) to determine if the issue is with the speaker or the wiring/head unit channel. |

If the problem persists after attempting these solutions, please contact customer support.

9. WARRANTY INFORMATION

The 5 CORE CS 05 2W speakers come with a **Limited Warranty**. Please refer to the warranty card included with your purchase or visit the official 5 CORE website for detailed terms and conditions regarding coverage, duration, and claims procedures. Keep your proof of purchase for warranty validation.

10. CUSTOMER SUPPORT

For further assistance, technical support, or inquiries regarding your 5 CORE CS 05 2W speakers, please contact 5 CORE customer service through their official website or the contact information provided with your product. When contacting support, please have your product model number (CS 05 2W) and proof of purchase readily available.