BOSS Audio Systems CH6530

BOSS Audio Systems CH6530 Chaos Series 6.5 Inch Car Door Speakers

Model: CH6530 | Brand: BOSS Audio Systems

Introduction Features What's in the Box Specifications Setup & Installation Operation Maintenance Troubleshooting Warranty & Support

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your BOSS Audio Systems CH6530 Chaos Series 6.5 Inch Car Door Speakers. These 3-way, full-range coaxial speakers are designed to deliver enhanced audio performance in automotive environments. Please read this manual thoroughly before installation and use to ensure proper functionality and safety.



Figure 1.1: BOSS Audio Systems CH6530 Chaos Series 6.5 Inch Car Door Speakers (Pair).

2. Key Features

The CH6530 speakers incorporate several design elements for optimal audio reproduction and durability:

- **Speaker Type:** 3-Way, Full Range Coaxial Speakers.
- **Size:** 6.5 inches (16.5 cm) diameter.
- **Peak Power Handling:** 300 Watts per pair.
- **Impedance:** 4 Ohms.
- **Frequency Response:** 100 Hz to 18 KHz.
- **Sensitivity:** 90 dB @ 1 watt/1 meter.
- **Woofer Cone:** Poly Injection Cone for durability and responsive bass.

- **Surround:** Rubber Surround for enhanced cone excursion and longevity.
- **Voice Coil:** 1-inch (2.54 cm) Voice Coil.
- **Tweeter:** 0.50-inch (1.27 cm) Piezo Tweeter for clear high frequencies.
- **Midrange:** 1-inch (2.54 cm) Polyimide Dome Midrange for balanced sound.
- **Basket:** Stamped Basket construction.
- **Mounting Depth:** 2.13 inches (5.4 cm).
- **Mounting Hole Diameter:** 5.5 inches (14 cm).
- **Color:** Red cone with black grille.



Figure 2.1: Illustration of 3-Way Speaker Components.

3. What's in the Box

Upon opening the product packaging, verify that all the following components are included:

- Two (2) BOSS Audio Systems CH6530 6.5 Inch Car Door Speakers.

- Mounting Screws (quantity sufficient for both speakers).
- Mounting Clips/Hardware.
- Speaker Wires.
- User's Manual (this document).



Figure 3.1: Included Components.

4. Technical Specifications

Attribute	Value
Model Name	CH6530
Speaker Type	Coaxial, 3-Way, Full Range

Attribute	Value
Speaker Size	6.5 Inches (16.5 cm)
Peak Power Output	300 Watts (per pair)
Impedance	4 Ohm
Frequency Response	100 Hz - 18 KHz
Sensitivity (Signal-to-Noise Ratio)	90 dB
Woofer Diameter	6.5 Inches
Tweeter Diameter	0.50 Inches (1.27 cm)
Midrange Diameter	1 Inch (2.54 cm)
Mounting Depth	2.13 Inches (5.4 cm)
Mounting Hole Diameter	5.5 Inches (14 cm)
Product Dimensions (D x W x H)	6.63" x 6.63" x 2.38" (16.84 x 16.84 x 6.05 cm)
Item Weight (Pair)	2.5 Pounds (1.13 kg)
Material	Rubber (Surround), Poly Injection (Cone)
Color	Red
Connectivity Technology	Wired, Coaxial
Recommended Uses	For automobiles

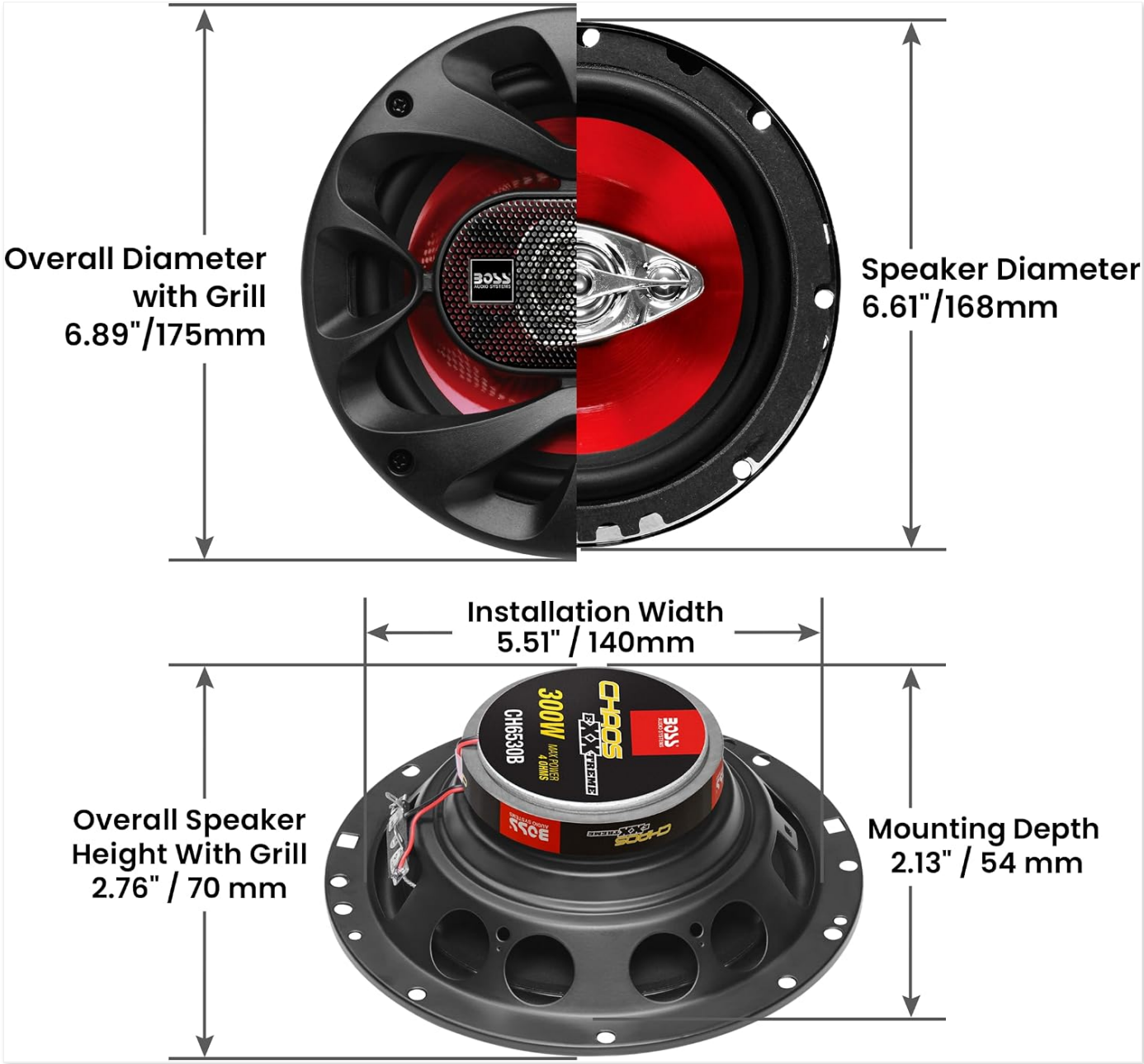


Figure 4.1: Speaker Dimensions and Mounting Specifications.

5. Setup & Installation

Professional installation of these speakers is strongly encouraged to ensure proper and safe functionality. Incorrect installation can lead to damage to the speakers, vehicle, or personal injury. If you choose to install them yourself, follow these general guidelines:

5.1 Safety Precautions

- Disconnect the vehicle's battery before beginning any electrical work.
- Wear appropriate safety gear, including eye protection.
- Ensure all wiring is properly insulated and secured to prevent short circuits.
- Do not obstruct any vehicle safety features (e.g., airbags, seatbelts).

5.2 Installation Steps

1. **Remove Existing Speakers:** Carefully remove the door panels and disconnect the wiring from the existing car speakers.
2. **Check Fitment:** Verify that the CH6530 speakers fit the existing mounting location. Refer to the "Technical

Specifications" section for mounting depth and hole diameter. Adapter rings may be required for some vehicle models.

3. **Wire Connection:** Connect the provided speaker wires to the terminals on the CH6530 speakers. Ensure correct polarity (positive to positive, negative to negative) to avoid phase issues and potential speaker damage. The terminals are typically marked.
4. **Mounting:** Secure the speakers into the door panel using the supplied mounting screws and clips. Ensure they are firmly seated and do not vibrate.
5. **Test Functionality:** Before reassembling the door panels, reconnect the vehicle's battery and test the speakers with your car's audio system to ensure they are working correctly and sound is clear.
6. **Reassemble:** Carefully reattach the door panels, ensuring all clips and screws are properly secured.

6. Operation

Once installed, the CH6530 speakers operate as part of your vehicle's existing audio system. They are designed to work with standard car audio head units and amplifiers.

6.1 Audio System Integration

- The speakers connect directly to the speaker outputs of your car's head unit or external amplifier.
- Adjust volume, balance, fader, and equalizer settings on your car's audio system to achieve desired sound quality.
- Avoid operating the speakers at excessively high volumes for prolonged periods, as this can lead to distortion and potential damage.

7. Maintenance

The BOSS Audio Systems CH6530 speakers require minimal maintenance to ensure long-lasting performance.

- **Cleaning:** Periodically wipe the speaker grilles and exposed surfaces with a soft, dry cloth to remove dust and debris. Do not use harsh chemicals or abrasive cleaners.
- **Protection:** Ensure the speakers are protected from direct exposure to water, extreme temperatures, and direct sunlight, which can degrade materials over time.
- **Inspection:** Occasionally inspect the speaker cones and surrounds for any signs of damage or deterioration.

8. Troubleshooting

If you experience issues with your CH6530 speakers, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound from speakers	Loose or disconnected wiring; incorrect polarity; audio system settings; faulty head unit/amplifier.	Check all wiring connections for security and correct polarity. Verify audio system settings (volume, fader, balance). Test with another known-good speaker or audio source.
Distorted or unclear sound	Overdriving speakers (volume too high); incorrect audio settings (bass/treble); loose mounting; damaged speaker cone/surround.	Reduce volume. Adjust equalizer settings. Ensure speakers are securely mounted. Inspect speaker for physical damage.

Problem	Possible Cause	Solution
Weak or no bass response	Incorrect wiring polarity; phase issues; insufficient power from head unit/amplifier; speaker not sealed properly in enclosure.	Verify correct wiring polarity. Check for air leaks around the speaker mounting. Consider adding an external amplifier or subwoofer for enhanced bass.

If the problem persists after attempting these solutions, contact BOSS Audio Systems customer support or consult a professional car audio technician.

9. Warranty & Support

9.1 Warranty Information

BOSS Audio Systems provides a powerful**3-Year Platinum Online Dealer Warranty** for the CH6530 speakers. This warranty is valid only on products purchased and shipped by Amazon.com. This offer is not valid on purchases made from third-party marketplace sellers. Please retain your proof of purchase for warranty claims.



Figure 9.1: Warranty and Feature Overview.

9.2 Customer Support

For technical assistance, warranty claims, or further inquiries, please visit the official BOSS Audio Systems website or

contact their customer support directly. You can also visit the **BOSS Audio Systems Store on Amazon** for more information and product resources.

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Model: CH6530

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question