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JVC CS-J520X

JVC CS-J520X 5.25-Inch 2-Way Coaxial Car Speakers User Manual

Model: CS-J520X

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1. INTRODUCTION

Thank you for choosing JVC CS-J520X 5.25-inch 2-Way Coaxial Car Speakers. These speakers are designed to provide enhanced audio performance in your vehicle. This manual provides essential information for proper installation, operation, and maintenance to ensure optimal performance and longevity of your speakers.



Figure 1: JVC CS-J520X 5.25-inch 2-Way Coaxial Car Speakers (Front View)

2. SAFETY INFORMATION

Please read all safety instructions carefully before installing or operating the speakers. Failure to follow these instructions may result in injury or damage to the product or vehicle.

- **Professional Installation Recommended:** Car audio installation can be complex. If you are unsure about any step, consult a qualified professional installer.
- **Disconnect Battery:** Always disconnect the vehicle's negative battery terminal before beginning any electrical work to prevent short circuits and electrical shock.
- **Proper Wiring:** Ensure all wiring connections are secure and correctly polarized. Incorrect wiring can damage the speakers or your vehicle's audio system.
- **Mounting Location:** Choose a mounting location that does not obstruct vehicle operation, safety features (e.g., airbags), or visibility. Ensure sufficient clearance for the speaker's depth.
- **Avoid Moisture:** These speakers are not waterproof. Avoid exposing them to water or excessive moisture.
- **Volume Levels:** Prolonged exposure to high volume levels can cause hearing damage. Adjust volume to a safe and comfortable level.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- JVC CS-J520X 5.25-inch 2-Way Coaxial Speakers (x2)

- Speaker Grilles (x2)
- Mounting Screws
- Speaker Wire (may vary by region/package)
- Instruction Manual (this document)

4. SETUP AND INSTALLATION

Proper installation is crucial for optimal sound quality and speaker longevity. Refer to your vehicle's service manual for specific panel removal and wiring diagrams.

4.1 Mounting Considerations

- **Mounting Depth:** The CS-J520X speakers feature a shallow mounting depth of 1-23/32 inches (approximately 43.5 mm). Ensure adequate clearance behind the mounting surface.
- **Location:** These speakers are designed for standard 5.25-inch openings in car doors or dashboards.
- **Adapters:** Some vehicles may require speaker mounting adapters or wiring harnesses for a seamless fit. Check your vehicle's specific requirements before installation.



Figure 2: Side profile of the JVC CS-J520X speaker, highlighting its shallow mounting depth.

4.2 Wiring Instructions

1. **Identify Terminals:** Locate the positive (+) and negative (-) terminals on the back of each speaker. These are typically marked.
2. **Connect Speaker Wires:** Connect the positive wire from your vehicle's audio system (or amplifier) to the speaker's positive (+) terminal. Connect the negative wire to the speaker's negative (-) terminal. Ensure a secure connection.
3. **Polarity:** Maintain correct polarity for all speakers in your system. Incorrect polarity can lead to reduced bass response and poor sound imaging.
4. **Secure Wiring:** Route speaker wires away from sharp edges, moving parts, and heat sources. Use cable ties to secure them.



Figure 3: Rear view of the JVC CS-J520X speaker, showing the positive and negative wiring terminals.

5. OPERATION

Once installed, the JVC CS-J520X speakers operate as part of your vehicle's audio system. They are designed to reproduce audio signals from your head unit or amplifier.

- **Power Handling:** These speakers can handle up to 250 Watts Peak Power and 30 Watts RMS Power. Ensure your amplifier or head unit's output does not exceed these ratings to prevent damage.
- **Sensitivity:** With a high sensitivity rating of 91dB, these speakers are efficient and can produce clear, loud sound even when powered by a factory radio or a low-power aftermarket head unit.
- **Sound Adjustment:** Use your head unit's equalizer and balance/fader controls to fine-tune the sound to your preference.

6. MAINTENANCE

The JVC CS-J520X speakers require minimal maintenance to ensure long-lasting performance.

- **Cleaning:** Gently wipe the speaker grilles and cones with a soft, dry cloth to remove dust. Do not use harsh chemicals or abrasive cleaners.
- **Avoid Water:** These speakers are not waterproof. Prevent water or other liquids from coming into contact with the speaker components.
- **Inspect Connections:** Periodically check wiring connections to ensure they remain secure and free from corrosion.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No sound from speaker(s)	Loose or incorrect wiring connection. Speaker wire shorted. Head unit or amplifier issue. Blown speaker fuse (if applicable).	Check all wiring connections for tightness and correct polarity. Inspect speaker wires for damage or shorts. Test with another known-good speaker or check head unit/amplifier functionality. Consult your vehicle's manual or a professional.
Distorted or unclear sound	Volume too high, causing clipping. Incorrect equalizer settings. Loose mounting. Damaged speaker cone or voice coil.	Reduce volume. Adjust equalizer settings on your head unit. Ensure speakers are securely mounted. If physical damage is suspected, contact support.
Weak or no bass	Incorrect wiring polarity. Bass settings on head unit too low. Speaker not sealed properly in enclosure.	Verify correct positive/negative wiring. Increase bass levels on your head unit. Ensure speaker is tightly mounted to prevent air leaks.

If the problem persists after trying these solutions, please contact JVC customer support or a qualified car audio technician.

8. SPECIFICATIONS

Feature	Detail
Model Number	CS-J520X
Speaker Type	5.25-inch (13 cm) 2-Way Coaxial
Woofer Cone Material	Mica Cone
Tweeter Type	1-inch Balanced Dome with Neodymium Magnet (0.79-inch actual)
Peak Power Handling	250 Watts

Feature	Detail
RMS Power Handling	30 Watts
Impedance	4 Ohms
Sensitivity (SPL)	91 dB
Mounting Depth	1-23/32 inches (43.5 mm)
Item Weight	Approximately 1 Pound (per speaker)
Connectivity	Wired
Water Resistance	Not Waterproof

9. WARRANTY AND SUPPORT

9.1 Warranty Information

The JVC CS-J520X speakers come with a Standard Manufacturer's Limited Warranty. This warranty covers defects in materials and workmanship under normal use. The duration and specific terms of the warranty may vary by region. Please retain your proof of purchase for warranty claims.

For detailed warranty terms and conditions, please refer to the warranty card included with your product or visit the official JVC website.

9.2 Customer Support

If you have any questions, require technical assistance, or need to make a warranty claim, please contact JVC customer support:

- **Online Support:** Visit the official JVC website for FAQs, support resources, and contact forms.
- **Phone Support:** Refer to the JVC website or your product packaging for regional customer service phone numbers.
- When contacting support, please have your product model number (CS-J520X) and proof of purchase readily available.

