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> JBL GX402 4" 210W Peak Power 2-Way GX Series Coaxial Car Audio Loudspeakers User Manual

JBL GX402

JBL GX402 Coaxial Car Loudspeakers User Manual

Model: GX402

INTRODUCTION

Welcome to the user manual for your JBL GX402 4" 2-Way GX Series Coaxial Car Audio Loudspeakers. These high-quality speakers are engineered to deliver clear and powerful audio performance in your vehicle. This manual provides essential information for proper installation, optimal operation, routine maintenance, and effective troubleshooting to ensure you get the best experience from your JBL speakers.



Figure 1: Front view of JBL GX402 Coaxial Car Loudspeakers.

SETUP AND INSTALLATION

Before You Begin

- Always disconnect the vehicle's battery before beginning any electrical installation to prevent short circuits and damage.
- Professional installation is highly recommended for optimal performance and to avoid damage to your vehicle or speakers.
- Ensure you have all necessary tools and mounting hardware before starting.

Mounting Considerations

The JBL GX402 speakers are designed for easy integration into most vehicle audio systems. Pay close attention to the dimensions to ensure proper fitment in your car's speaker locations.

- **Top-mount Depth:** 1.88 inches (47.75 mm)
- **External Diameter:** 4.125 inches (104.78 mm)
- **Cutout Diameter:** 3.75 inches (95.25 mm)
- **Total Depth (top of tweeter):** 2.60 inches (66.04 mm)



Figure 2: Angled view of JBL GX402 Coaxial Car Loudspeakers, highlighting mounting points.

Wiring

Connect the speaker wires from your car's audio system to the terminals on the JBL GX402 speakers. Ensure correct polarity (positive to positive, negative to negative) to avoid phase issues and ensure optimal sound quality. The nominal impedance for these speakers is 2.3 ohms.

OPERATING YOUR SPEAKERS

Once properly installed, your JBL GX402 speakers will function as an integral part of your car's audio system. The sound quality will largely depend on the source unit (head unit) and amplifier (if used).

- **Volume Control:** Adjust the volume through your car's head unit. Avoid excessively high volumes that cause audible distortion, as this can damage the speakers.
- **Equalization:** Use your head unit's equalizer settings to fine-tune the sound to your preference. Start with flat settings and make small adjustments.
- **Fader/Balance:** Adjust the fader (front-to-rear) and balance (left-to-right) controls to optimize the sound stage within your vehicle.

MAINTENANCE

Your JBL GX402 speakers are built for durability and require minimal maintenance to ensure long-lasting performance.

- **Cleaning:** Use a soft, dry, lint-free cloth to gently wipe down the speaker grilles and surrounds. Avoid using harsh chemicals, solvents, or abrasive cleaners, as these can damage the speaker materials.
- **Inspection:** Periodically check the speaker connections to ensure they are secure and free from corrosion.
- **Environment:** While designed for automotive use, avoid exposing the speakers to excessive moisture or extreme temperatures beyond normal vehicle operating conditions.

TROUBLESHOOTING

If you encounter issues with your JBL GX402 speakers, refer to the table below for common problems and their solutions.

Problem	Possible Cause	Solution
No sound from speakers	Loose or incorrect wiring; Head unit not powered; Amplifier (if used) off or faulty.	Check all speaker connections for proper polarity and secure fit. Ensure head unit and amplifier are powered on and functioning.
Distorted or unclear sound	Volume too high; Incorrect gain settings; Damaged speaker cone/surround; Incorrect impedance match.	Reduce volume. Adjust amplifier gain settings. Inspect speaker for physical damage. Ensure speakers are compatible with your amplifier's impedance requirements.
Weak or no bass	Incorrect wiring polarity; Speaker not properly sealed in mounting location.	Verify correct positive/negative wiring. Ensure the speaker is securely mounted and sealed to prevent air leaks around the frame.
Intermittent sound	Loose connections; Frayed speaker wire; Faulty head unit or amplifier.	Check all wiring connections. Inspect speaker wires for damage. Test with a different audio source or component if possible.

TECHNICAL SPECIFICATIONS

Detailed specifications for the JBL GX402 Coaxial Car Loudspeakers:

Feature	Specification
Model Name	GX402
Speaker Type	2-Way Coaxial Loudspeakers (with Balanced Dome Tweeter)
Speaker Size	4 Inches
Power Handling (Peak)	210 watts per pair / 105 watts each
Power Handling (RMS)	70 watts per pair / 35 watts each
Nominal Impedance	2.3 ohms
Frequency Response	75 - 21,000 Hz
Sensitivity (2.8V/m)	90 dB
Cone Material	Plus One polypropylene cone
Surround Material	Rubber
Top-mount Depth	1.88 inches (47.75 mm)
External Diameter	4.125 inches (104.78 mm)
Cutout Diameter	3.75 inches (95.25 mm)
Total Depth (top of tweeter)	2.60 inches (66.04 mm)
Item Weight	1.32 pounds (0.6 Kilograms)
Product Dimensions	1.65"D x 3.94"W x 3.94"H
Included Components	GX402 (speakers)

WARRANTY AND SUPPORT

Your JBL GX402 loudspeakers come with a **Limited Warranty**. For specific details regarding the warranty period and coverage, please refer to the warranty card included with your product or visit the official JBL website. For technical support, service, or warranty claims, please contact JBL customer service or visit the official JBL store online:

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