

JBL JBLSUBST102AM

JBL Stage 102AM 10-inch Car Audio Subwoofer User Manual

Model: JBLSUBST102AM

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your JBL Stage 102AM 10-inch car audio subwoofer. Please read this manual thoroughly before attempting installation or use to ensure optimal performance and safety.

IMPORTANT SAFETY INFORMATION

Always observe the following safety precautions:

- Disconnect the vehicle's negative battery terminal before beginning any electrical work.
- Ensure all wiring is properly insulated and secured to prevent short circuits and damage.
- Mount the subwoofer securely to prevent movement during vehicle operation.
- Avoid exposing the subwoofer to excessive moisture or extreme temperatures.
- Consult a professional installer if you are unsure about any aspect of the installation process.

WHAT'S IN THE BOX

Verify that all components are present:

- 1x JBL Stage 102AM 10-inch Subwoofer
- Adhesive-backed foam gasket
- Owner's manual (multi-language)

Note: A protective grille for the subwoofer is not included and must be purchased separately if desired.

SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your subwoofer. The JBL Stage 102AM is designed for car mount applications and can be used in both sealed or ported enclosures.

1. Enclosure Selection

The subwoofer performs well in both sealed and ported enclosures. The choice of enclosure will affect the bass response. Sealed enclosures typically provide tighter, more accurate bass, while ported enclosures can offer louder, more extended bass at lower frequencies. Refer to your amplifier's recommendations and personal preference for enclosure type.

2. Mounting the Subwoofer

Ensure the enclosure has the correct cutout diameter for a 10-inch subwoofer. Use the provided adhesive-backed foam gasket to create an airtight seal between the subwoofer frame and the enclosure. Secure the subwoofer using appropriate screws through the mounting holes on the frame.



Image: Front view of the JBL Stage 102AM 10-inch subwoofer, showing the polypropylene cone and 'STAGE' branding.

3. Wiring Connections

The JBL Stage 102AM has an impedance of 4 Ohms. Connect the subwoofer to a compatible amplifier using appropriate gauge speaker wire. Ensure correct polarity (positive to positive, negative to negative) to avoid phase issues that can degrade sound quality.



Image: Rear view of the JBL Stage 102AM 10-inch subwoofer, displaying the magnet structure and spring-loaded wiring terminals.

The subwoofer is designed to handle up to 225 watts RMS and 900 watts peak power. Ensure your amplifier's output matches these specifications to prevent damage to the subwoofer or amplifier.

OPERATING THE SUBWOOFER

Once installed and connected, the subwoofer will reproduce low-frequency audio signals from your car's audio system. Adjust the amplifier's gain, crossover, and phase settings to achieve balanced sound with your other speakers.

- **Gain Setting:** Adjust the amplifier's gain to match the output voltage of your head unit. Avoid setting the gain too high, as this can lead to distortion and potential damage.
- **Crossover Frequency:** Set the low-pass filter on your amplifier to direct only low frequencies to the subwoofer. A common starting point is between 80 Hz and 100 Hz.
- **Phase Control:** If your amplifier has a phase switch (0°/180°), experiment with both settings to find the one that provides the most cohesive bass response with your main speakers.

MAINTENANCE

The JBL Stage 102AM subwoofer requires minimal maintenance:

- Keep the subwoofer cone and surround free from dust and debris. Use a soft, dry cloth for cleaning.
- Periodically check all wiring connections to ensure they remain secure.
- Avoid placing heavy objects on the subwoofer cone, which can cause damage.

TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No sound from subwoofer	No power to amplifier; incorrect wiring; amplifier in protect mode; low-pass filter set too high/low.	Check amplifier power and ground connections; verify speaker wire polarity; check amplifier fuses; adjust low-pass filter.
Distorted sound	Amplifier gain set too high; damaged subwoofer; incorrect enclosure.	Reduce amplifier gain; inspect subwoofer for physical damage; ensure enclosure is appropriate for the subwoofer.
Weak or muddy bass	Incorrect phase setting; low-pass filter set too low; insufficient amplifier power.	Adjust phase switch; increase low-pass filter frequency; ensure amplifier provides adequate power.

If problems persist, contact JBL customer support or a qualified car audio technician.

SPECIFICATIONS




Feature	Specification
Model Name	Stage 102AM
Subwoofer Diameter	10 Inches
Speaker Type	Woofer
Material	Polypropylene cone, Rubber surround
Impedance	4 Ohm
RMS Power Handling	225 Watts
Peak Power Handling	900 Watts
Maximum Output Power	1000 Watts
Product Dimensions (D x W x H)	12.2" x 12.2" x 6.1"
Item Weight	6.6 pounds (3 Kilograms)
Recommended Uses	Car audio systems
Mounting Type	Car Mount
UPC	050036381505

The JBL Stage 102AM subwoofer comes with a **1-Year Manufacturer Warranty**. This limited warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. For full warranty terms and conditions, refer to the documentation included with your product or visit the official JBL website.

For technical assistance, warranty service, or additional product information, please contact JBL customer support. You can typically find contact details on the official JBL website or within the included owner's manual.

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	<p>JBL Arena SUB 100P 250mm (10-inch) Active Subwoofer - Product Overview</p> <p>Detailed product information for the JBL Arena SUB 100P active subwoofer, featuring a 250mm (10-inch) woofer, 100W RMS amplifier, dual rear-firing ports, and modern design. Includes specifications, features, and what's in the box.</p>
	<p>JBL Stage 2 Architectural Loudspeakers Installation Guide</p> <p>Comprehensive installation guide for JBL Stage 2 Series architectural loudspeakers, covering in-wall and in-ceiling models, safety precautions, installation steps, and detailed specifications.</p>
	<p>JBL Stage 1200S Subwoofer Owner's Manual and Installation Guide</p> <p>This document provides the owner's manual, installation instructions, technical specifications, and warranty information for the JBL Stage 1200S sealed slim enclosure subwoofer. It guides users on proper installation, care, and safe listening practices.</p>

Documents - JBL – JBLSUBST102AM



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