JBL SW8A-MS

JBL SW8A-MS 8-inch Amplified Subwoofer User Manual

Model: SW8A-MS

1. Introduction

The JBL SW8A-MS Amplified Subwoofer is designed to bring the legendary JBL sound to your car audio system. Individually tuned by expert transducer engineers, this unit ensures unmistakable JBL signature sound. It is ideal for enhancing in-car sound systems by providing deep, distortion-free bass without occupying significant space or interfering with the vehicle's originality.

This manual provides essential information for the proper installation, operation, and maintenance of your JBL SW8A-MS subwoofer to ensure optimal performance and longevity.

2. Package Contents

Please check the box for the following items:

- 1x JBL SW8A-MS Active Amplified Subwoofer
- 1x Installation Cable
- 1x Subwoofer Remote Control
- 1x User Manual and Warranty Certificate

3. Key Features

- Integrated 8-inch amplified subwoofer with two passive radiators for enhanced bass response.
- 200W RMS power output for the subwoofer.
- Two additional amplification channels (2x100W RMS) to power car speakers, eliminating the need for an extra amplifier.
- Compact design allows for flexible installation under front seats or in the trunk.
- Wired remote control for convenient bass gain adjustment.
- Provides deep and distortion-free bass for an immersive audio experience.

4. Setup and Installation

The JBL SW8A-MS is designed for practical and easy installation. Due to its compact dimensions, it can be installed in various locations within your vehicle, such as under the front seats of most car models or in the trunk, occupying minimal space.

4.1. Choosing an Installation Location

Select a location that is dry, well-ventilated, and protected from direct sunlight or excessive heat. Ensure there is enough space for proper air circulation around the unit. Common locations include:

- Underneath the front passenger or driver seat.
- In the trunk, secured to prevent movement.

4.2. Wiring Connections

Refer to the diagram below for proper wiring connections. It is highly recommended that installation be performed by a qualified professional to ensure correct wiring and optimal performance.



Figure 1: Rear panel with connection points for power, inputs, and outputs.

1. **Power Connection:** Connect the power cable to the vehicle's battery (positive terminal) via an appropriate fuse. Connect the ground cable to a clean, unpainted metal surface on the vehicle chassis.
2. **Remote Turn-On:** Connect the remote turn-on wire to your head unit's remote output.
3. **Audio Input:** Use either the high-level (speaker level) inputs or low-level (RCA) inputs from your head unit.
4. **Speaker Output:** If utilizing the additional amplification channels, connect your car speakers to the designated speaker outputs.
5. **Remote Control:** Connect the wired remote control to the dedicated port for bass gain adjustment.

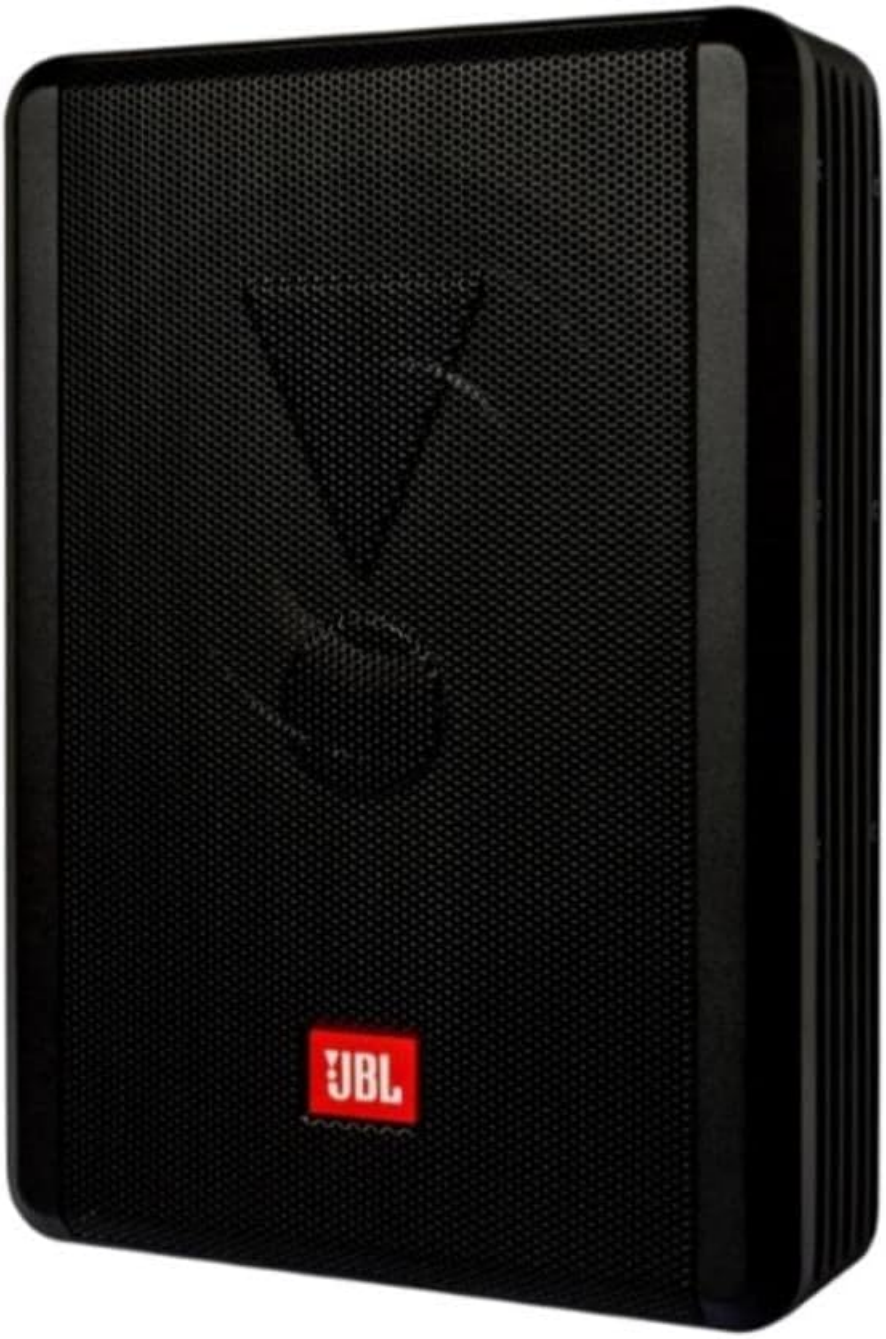


Figure 2: Front view of the JBL SW8A-MS subwoofer.

5. Operating Instructions

Once properly installed, the JBL SW8A-MS is ready for operation. The unit will power on automatically when it receives a signal from your head unit (if using high-level input with auto-on feature) or via the remote turn-on wire.

5.1. Adjusting Settings

The rear panel of the subwoofer features several controls for fine-tuning the audio output:

- **LPF (Low-Pass Filter):** Adjust this knob to set the upper frequency limit for the subwoofer. This ensures that only low frequencies are reproduced by the subwoofer.
- **Subwoofer Gain:** Controls the overall output level of the subwoofer. Start with a low setting and gradually increase until the desired bass level is achieved.
- **Front Gain:** Adjusts the output level for the additional front channels, if connected.
- **Phase Switch:** Allows you to adjust the phase of the subwoofer output (0° or 180°) to match the phase of your main speakers, ensuring optimal bass integration.
- **Bass Boost:** Provides an additional boost to specific bass frequencies for a more pronounced low-end.

5.2. Using the Remote Control

The included wired remote control allows for convenient adjustment of the subwoofer's bass gain from your driving position. This enables on-the-fly adjustments to suit different music genres or personal preferences.



Figure 3: Angled view of the JBL SW8A-MS, highlighting its compact form factor.

6. Maintenance

To ensure the longevity and optimal performance of your JBL SW8A-MS subwoofer, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe down the unit. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the finish or internal components.
- **Ventilation:** Ensure that the subwoofer's ventilation grilles are not obstructed. Proper airflow is crucial to prevent overheating.
- **Connections:** Periodically check all wiring connections to ensure they are secure and free from corrosion. Loose connections can lead to poor performance or damage.
- **Environment:** Protect the unit from extreme temperatures, moisture, and direct exposure to water.

7. Troubleshooting

If you experience issues with your JBL SW8A-MS subwoofer, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No Sound from Subwoofer	• No power to the unit. • Loose or incorrect audio input connection. • Gain setting too low. • Head unit settings incorrect.	• Check power and ground connections, fuse. • Verify RCA or high-level input connections. • Increase subwoofer gain. • Check head unit's subwoofer output settings.
Distorted Sound	• Gain set too high. • Incorrect LPF setting. • Poor quality audio source.	• Reduce subwoofer gain. • Adjust LPF to a suitable frequency (e.g., 80-120Hz). • Try a different audio source.
Subwoofer Overheating	• Insufficient ventilation. • Playing at excessively high volumes for extended periods.	• Ensure clear airflow around the unit. • Reduce volume or allow unit to cool down.

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

8. Specifications

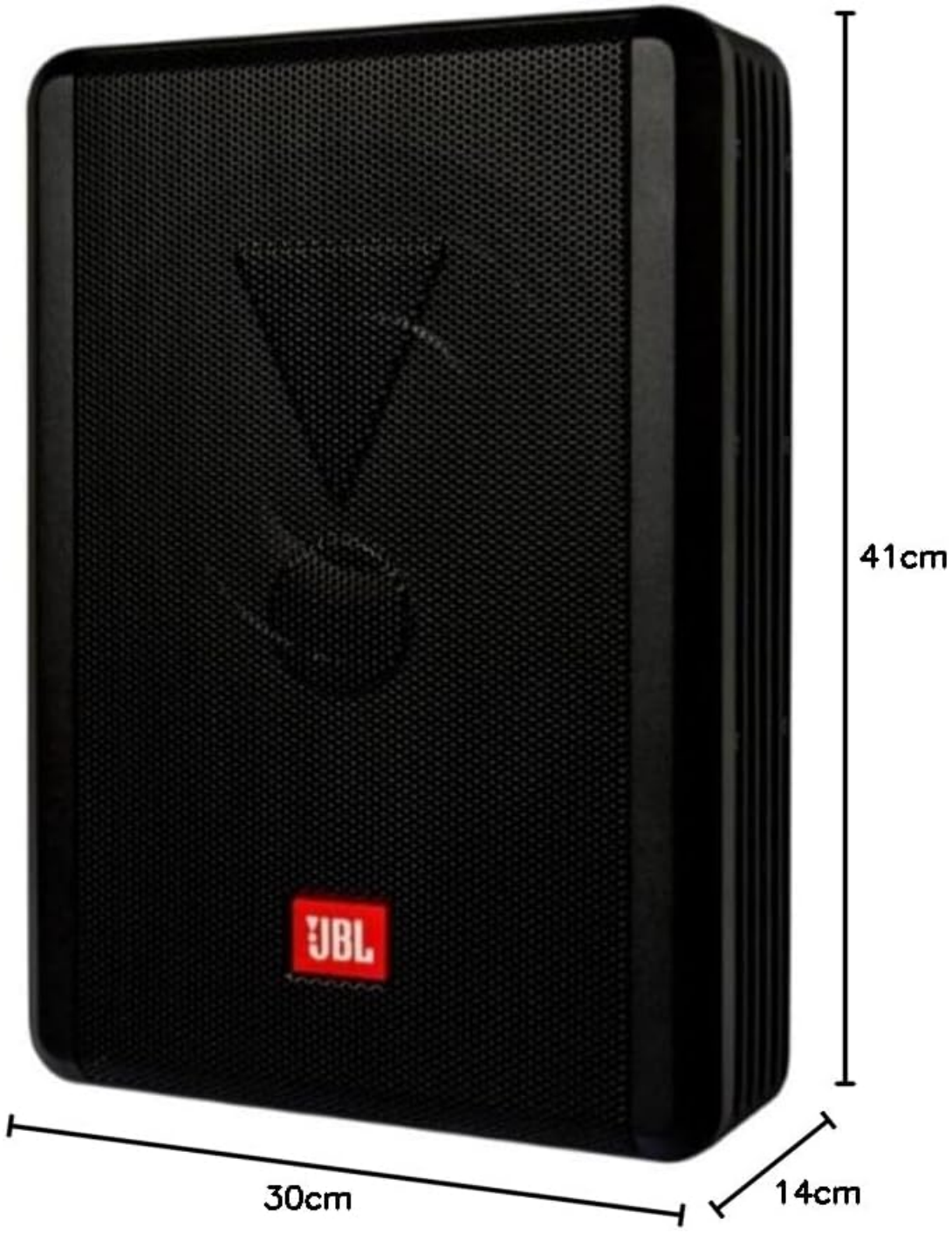


Figure 4: Dimensions of the JBL SW8A-MS subwoofer.

8.1. Subwoofer Section

- **Size:** 8 Inches
- **Impedance:** 2 Ohms
- **RMS Power:** 200W @ 2 Ohms
- **Frequency Response:** 20Hz - 150Hz
- **Input Sensitivity (High Level):** 0.5V
- **Input Sensitivity (Low Level):** 100mV
- **Low-Pass Filter:** 50Hz - 150Hz
- **Bass Boost:** +12dB
- **Subsonic Filter:** 20Hz

8.2. Front (Stereo) Channels

- **RMS Power:** 2x100W @ 2 Ohms

- **Frequency Response:** 30Hz - 20KHz
- **Input Sensitivity (High Level):** 1.0V
- **Input Sensitivity (Low Level):** 300mV
- **Bass Boost:** +6dB
- **Subsonic Filter:** 30Hz

8.3. General Specifications

- **Model Name:** SW8A-MS
- **Material:** Aluminum
- **Color:** Black
- **Product Dimensions (WxDxH):** 34.50 x 24.55 x 7.46 cm (13.58 x 9.67 x 2.94 inches)
- **Product Weight:** 6.4 kg (14.1 lbs)
- **Input Voltage:** 12 Volts
- **Connectivity Technology:** RCA
- **Speaker Amplification Type:** Active

9. Warranty and Support

This JBL SW8A-MS product comes with a**12-month manufacturer's warranty**. The warranty is limited to the exchange of any product found with manufacturing defects, provided it has been used correctly and installed by a Qualified Professional.
For technical support, warranty claims, or further assistance, please refer to the contact information provided on the warranty certificate included in your package or visit the official JBL support website.

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