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JBL 12SWMS350

JBL 12SWMS350 Subwoofer Instruction Manual

Model: 12SWMS350

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your JBL 12SWMS350 12-inch subwoofer. The JBL Multisystem line is recognized for its performance and durability, designed for integration into original car audio systems to deliver quality sound.

The JBL 12SWMS350 is a 12-inch subwoofer with 350W RMS power, designed to enhance the low-frequency audio experience in your vehicle.

SAFETY INFORMATION

- Always disconnect the vehicle's battery before performing any electrical work.
- Ensure all wiring is properly insulated to prevent short circuits.
- Mount the subwoofer securely to prevent movement during vehicle operation.
- Consult a professional car audio installer if you are unsure about any installation steps.

SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your subwoofer. It is recommended that installation be performed by a qualified professional.

Mounting the Subwoofer

The JBL 12SWMS350 is designed for flush mounting. Ensure the mounting location provides adequate clearance for the subwoofer's depth and allows for proper air circulation around the magnet structure.

1. Choose a sturdy, flat surface for mounting, typically within an enclosure.
2. Cut an appropriate size hole for the subwoofer (refer to specifications for cutout diameter).
3. Secure the subwoofer using appropriate screws, ensuring an airtight seal if installed in a sealed enclosure.



Image: Side view of the JBL 12SWMS350 subwoofer, showing the cone and surround. This view helps in understanding the depth required for mounting.

Wiring Connections

The subwoofer features terminals for connecting to an amplifier. Pay close attention to polarity to ensure correct phase and optimal sound performance.

1. Connect the positive (+) terminal of the subwoofer to the positive (+) output of your amplifier.
2. Connect the negative (-) terminal of the subwoofer to the negative (-) output of your amplifier.

3. Ensure all connections are secure and free from corrosion. The subwoofer has a 4 Ohm impedance. Verify your amplifier is stable at this impedance.



Image: Rear view of the JBL 12SWMS350 subwoofer, highlighting the speaker terminals for wiring connections. Note the positive and negative markings.

OPERATING INSTRUCTIONS

Once installed, proper tuning of your amplifier and head unit settings will maximize the subwoofer's performance.

- **Gain Setting:** Adjust the amplifier's gain control to match the output voltage of your head unit. Start with the gain at minimum and slowly increase it until the desired volume is achieved without distortion.
- **Crossover Frequency:** Set the low-pass filter (LPF) on your amplifier or head unit. A common starting point is between 80 Hz and 100 Hz. This ensures the subwoofer only reproduces low frequencies.
- **Phase Control:** If your amplifier has a phase switch (0°/180°), experiment with both settings to determine which provides the most impactful bass response in your vehicle.
- **Bass Boost:** Use bass boost sparingly, if at all, as excessive boosting can lead to distortion and

potential damage to the subwoofer.

MAINTENANCE

Regular maintenance helps ensure the longevity and performance of your subwoofer.

- **Cleaning:** Use a soft, dry cloth to gently wipe down the cone and surround. Avoid using harsh chemicals or excessive moisture.
- **Inspection:** Periodically check the subwoofer for any signs of damage, such as tears in the cone or surround, or loose connections.
- **Environment:** Ensure the subwoofer is not exposed to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture.

TROUBLESHOOTING

If you experience issues with your JBL 12SWMS350 subwoofer, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No Sound	<ul style="list-style-type: none">◦ Loose or incorrect wiring.◦ Amplifier not powered on or in protect mode.◦ Head unit output issues.	<ul style="list-style-type: none">◦ Check all wiring connections for proper polarity and security.◦ Verify amplifier power, ground, and remote turn-on connections. Check amplifier fuses.◦ Test head unit with another speaker or source.
Distorted Sound	<ul style="list-style-type: none">◦ Amplifier gain set too high.◦ Crossover frequency set incorrectly.◦ Damaged subwoofer.	<ul style="list-style-type: none">◦ Reduce amplifier gain.◦ Adjust LPF to a suitable frequency (e.g., 80-100 Hz).◦ Inspect subwoofer for physical damage.
Weak or No Bass	<ul style="list-style-type: none">◦ Incorrect phase setting.◦ Low-pass filter set too high or too low.◦ Subwoofer enclosure issues.	<ul style="list-style-type: none">◦ Toggle phase switch (0°/180°) on amplifier.◦ Adjust LPF.◦ Ensure enclosure is properly sealed and sized for the subwoofer.

If these steps do not resolve the issue, contact JBL customer support or your authorized dealer.

SPECIFICATIONS

Feature	Detail
Brand	JBL
Model	12SWMS350
Speaker Type	Subwoofer

Feature	Detail
Subwoofer Diameter	12 Inches
RMS Power	350 Watts
Maximum Output Power	700 Watts
Impedance	4 Ohms
Product Dimensions (Depth x Width x Height)	14.5 cm x 31 cm x 31 cm (approx. 5.7 x 12.2 x 12.2 inches)
Product Weight	4 Kilograms (approx. 8.8 lbs)
Included Components	12-inch Speaker
Control Method	Touch (refers to system control, not direct subwoofer control)
Power Source	AC/DC (refers to amplifier power, not subwoofer directly)
Waterproof	No

WARRANTY INFORMATION

The JBL 12SWMS350 subwoofer comes with a limited warranty. Specific terms and duration of the warranty may vary by region and retailer.

Please retain your proof of purchase for any warranty claims. For detailed warranty information, refer to the documentation provided with your purchase or contact JBL customer support.

Extended warranty options may be available through your retailer at the time of purchase.

SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact JBL customer support or your authorized JBL dealer.

You can also visit the official JBL store for more product information and support resources:[JBL Official Store](#)