

## Sami ZCWR125B20/OEM 3099

# SAMI 5-inch Mid-Woofer Speaker Instruction Manual

Model: ZCWR125B20/OEM 3099

## 1. INTRODUCTION

Thank you for choosing the SAMI 5-inch Mid-Woofer Speaker. This speaker is designed for audio applications requiring a dedicated mid-range frequency reproduction. It features an 8-ohm voice coil and is rated for 20 watts RMS power handling, making it suitable for various car audio and custom speaker enclosure projects. Please read this manual thoroughly before installation and use to ensure proper performance and longevity of your speaker.

## 2. SAFETY INFORMATION

- **Power Handling:** Do not exceed the rated power handling of 20 watts RMS (40 watts peak) to prevent damage to the speaker.
- **Impedance Matching:** Ensure your amplifier or audio system is compatible with an 8-ohm load. Mismatched impedance can lead to amplifier or speaker damage.
- **Wiring:** Always disconnect power from your audio system before making any wiring connections. Ensure correct polarity (+ to + and - to -) to avoid phase issues and poor sound quality.
- **Mounting:** Securely mount the speaker to prevent vibration and potential damage.
- **Environment:** This speaker is not waterproof. Avoid exposure to moisture, extreme temperatures, or direct sunlight.

## 3. PACKAGE CONTENTS

- 1 x SAMI 5-inch Mid-Woofer Speaker (Model ZCWR125B20/OEM 3099)

## 4. PRODUCT FEATURES

- 5-inch (12.7 cm) diameter mid-woofer
- 8 Ohm impedance
- 20 Watts RMS / 40 Watts Peak power handling
- 6.5 oz magnet

- 1-inch voice coil
- Frequency response: 75Hz-12kHz
- Durable foam surround
- Paper cone for clear mid-range reproduction
- Flush mount design

## 5. SETUP AND INSTALLATION

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Proper installation is critical for optimal performance and speaker longevity. If you are unsure about any steps, consult a professional audio installer.

### 5.1 Mounting the Speaker

1. **Choose Location:** Select a suitable mounting location, typically a speaker enclosure or a factory speaker opening in a vehicle door or dashboard. Ensure there is sufficient depth and clearance for the speaker magnet.
2. **Prepare Opening:** If creating a new opening, carefully cut a circular hole with a diameter appropriate for a 5-inch speaker, ensuring a snug fit for flush mounting.
3. **Secure Mounting:** Place the speaker into the opening. Align the mounting holes on the speaker frame with the corresponding holes in the mounting surface. Use appropriate screws (not included) to secure the speaker firmly. Do not overtighten, as this can warp the speaker frame.

### 5.2 Wiring Connections

The speaker features two spade terminals for electrical connection. One terminal is typically marked for positive (+) and the other for negative (-). Refer to your amplifier or audio system's manual for specific wiring instructions.

- **Identify Polarity:** Connect the positive (+) terminal of the speaker to the positive (+) output of your amplifier.
- **Connect Negative:** Connect the negative (-) terminal of the speaker to the negative (-) output of your amplifier.
- **Secure Connections:** Ensure all connections are tight and free from short circuits. Use insulated speaker wire of appropriate gauge.



This image displays the rear of the Sami 5-inch mid-woofer speaker. Visible components include the circular magnet structure, the two spade terminals for electrical connection, and the speaker frame. Text on the magnet indicates 'CW-125B20U', '20W 8Ω', 'SAMMI', 'B5G2', and 'MADE IN KOREA'.

## 6. OPERATING INSTRUCTIONS

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Once the speaker is correctly installed and wired to a compatible amplifier or audio system, you can begin operation.

1. **Power On:** Turn on your audio system and amplifier.
2. **Volume Control:** Start with the volume at a low level and gradually increase it to your desired listening level.
3. **Audio Settings:** Adjust your amplifier's equalizer or crossover settings to optimize the mid-range output for this speaker. A high-pass filter set around 75-100Hz is recommended to protect the speaker from low-frequency distortion.

## 7. MAINTENANCE

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The SAMI mid-woofer speaker requires minimal maintenance to ensure long-term performance.

- **Cleaning:** Gently wipe the speaker cone and surround with a soft, dry cloth to remove dust. Do not use harsh chemicals or excessive moisture.
- **Inspection:** Periodically inspect the speaker for any signs of damage to the cone, surround, or wiring connections.
- **Environment:** Keep the speaker away from direct sunlight, extreme heat, and moisture.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound from speaker	<ul style="list-style-type: none"><li>Loose or incorrect wiring</li><li>Amplifier off or faulty</li><li>Source unit issue</li></ul>	<ul style="list-style-type: none"><li>Check all wiring connections for proper polarity and tightness.</li><li>Ensure amplifier is powered on and functioning.</li><li>Verify audio source is playing.</li></ul>
Distorted sound	<ul style="list-style-type: none"><li>Overpowering the speaker</li><li>Incorrect amplifier settings</li><li>Loose mounting</li></ul>	<ul style="list-style-type: none"><li>Reduce volume.</li><li>Check amplifier gain and crossover settings.</li><li>Ensure speaker is securely mounted.</li></ul>
Intermittent sound	<ul style="list-style-type: none"><li>Loose wiring connection</li><li>Damaged speaker wire</li></ul>	<ul style="list-style-type: none"><li>Inspect and re-secure all wiring connections.</li><li>Replace any damaged speaker wire.</li></ul>

## 9. SPECIFICATIONS

<b>Speaker Type</b>	Mid Woofer
<b>Size</b>	5 inches (12.7 cm)
<b>Impedance</b>	8 Ohms
<b>RMS Power Handling</b>	20 Watts
<b>Peak Power Handling</b>	40 Watts
<b>Magnet Weight</b>	6.5 oz
<b>Voice Coil</b>	1 inch
<b>Frequency Response</b>	75Hz - 12kHz
<b>Cone Material</b>	Paper
<b>Surround Material</b>	Foam
<b>Mounting Type</b>	Flush Mount
<b>Model Number</b>	ZCWR125B20/OEM 3099
<b>Brand</b>	Sami
<b>Manufacturer</b>	SAMI

<b>Waterproof</b>	No
<b>Compatible Vehicle Type</b>	Car

## 10. WARRANTY AND SUPPORT

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This SAMI speaker comes with a limited warranty. Please refer to the warranty documentation provided at the time of purchase for specific terms and conditions. For technical support or inquiries, please contact your retailer or the manufacturer directly.

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