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> CLARION SE1625R 6.5-inch 2-Way Car Audio Speakers Instruction Manual

CLARION SE1625R

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1. INTRODUCTION

This instruction manual provides essential information for the safe and effective installation, operation, and maintenance of your CLARION SE1625R 6.5-inch 2-Way Car Audio Speakers. Please read this manual thoroughly before attempting installation or use to ensure optimal performance and longevity of your speakers.

The CLARION SE1625R speakers are designed to deliver clear and dynamic audio in a vehicle environment. They feature a MIPP (Mica Injection Polypropylene) cone for low distortion and high-speed response, coupled with a powerful ferrite magnet for robust bass reproduction.



Figure 1.1: Front view of two CLARION SE1625R speakers with grilles.

2. SAFETY INFORMATION

Always observe the following safety precautions during installation and operation:

- **Professional Installation Recommended:** Car audio installation can be complex and may require specialized tools and knowledge. If you are unsure about any step, consult a qualified professional installer.
- **Disconnect Battery:** Before beginning any electrical work, disconnect the vehicle's negative battery terminal to prevent short circuits and electrical damage.
- **Wiring:** Ensure all wiring is correctly routed and secured to prevent pinching, chafing, or interference with vehicle components. Use appropriate gauge wiring for speaker connections.
- **Mounting:** Securely mount speakers to prevent them from becoming loose during vehicle operation, which could cause injury or damage.
- **Volume Levels:** Prolonged exposure to high volume levels can cause hearing damage. Adjust volume to a safe and comfortable level.
- **Heat Dissipation:** Ensure speakers are installed in a location that allows for adequate heat dissipation.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- CLARION SE1625R 6.5-inch 2-Way Car Audio Speakers (2 units)
- Speaker Grilles (2 units)
- Mounting Hardware (screws, clips, etc. - specific contents may vary)

4. FEATURES

The CLARION SE1625R speakers incorporate advanced design elements for superior audio performance:

- **MIPP Cone Woofer:** The Mica Injection Polypropylene cone provides low distortion and high-speed response, ensuring clear and accurate sound reproduction.
- **Powerful Ferrite Magnet:** Equipped with a robust ferrite magnet, these speakers deliver dynamic and impactful bass response.
- **2-Way Coaxial System:** Integrates a woofer and tweeter for a full-range audio experience.
- **Grille Included:** Protective grilles are provided for speaker protection and a finished aesthetic.



Figure 4.1: Detail of the MIPP cone and tweeter.



Figure 4.2: Bottom view showing the ferrite magnet.

5. SETUP AND INSTALLATION

Follow these general steps for installing your CLARION SE1625R speakers. Specific vehicle requirements may vary.

1. Preparation:

- Gather necessary tools (screwdrivers, wire strippers, drill, etc.).

- Disconnect the vehicle's negative battery terminal.
- Remove existing speakers or access the speaker mounting locations (e.g., door panels, rear deck).

2. Mounting:

- Ensure the mounting location has sufficient depth and clearance for the speaker. Refer to the specifications section for speaker dimensions.
- Use the provided mounting hardware to securely fasten the speakers. Do not overtighten screws.



Figure 5.1: Side profile of the speaker, illustrating mounting depth.

3. Wiring:

- Connect the speaker wires from your car's audio system (head unit or amplifier) to the speaker terminals. Observe correct polarity (+ to + and - to -). Incorrect polarity can lead to poor sound quality.
- Secure all wire connections.



Figure 5.2: Rear view with wiring terminals.

4. Testing:

- Before reassembling vehicle panels, reconnect the battery and test the speakers with your audio system.
- Ensure sound is clear and balanced from all speakers.

5. Reassembly:

- Carefully reassemble any removed vehicle panels.
- Install the speaker grilles if desired.

6. OPERATING INSTRUCTIONS

Once installed, the CLARION SE1625R speakers operate in conjunction with your vehicle's head unit or amplifier. No direct controls are present on the speakers themselves.

- **Audio Source:** Select your desired audio source (radio, CD, Bluetooth, etc.) from your head unit.

- **Volume Control:** Adjust the volume level using your head unit's controls. Avoid excessively high volumes to prevent speaker damage and hearing loss.
- **Tone Controls:** Utilize your head unit's equalizer, bass, and treble controls to fine-tune the sound to your preference. The SE1625R speakers are designed to reproduce a wide frequency range, allowing for effective customization.
- **Fader/Balance:** Adjust the fader (front-to-rear) and balance (left-to-right) settings on your head unit to optimize the sound stage within your vehicle.

7. MAINTENANCE

Proper maintenance ensures the longevity and performance of your speakers:

- **Cleaning:** Use a soft, dry cloth to gently wipe dust from the speaker grilles and cones. Avoid using harsh chemicals or abrasive cleaners.
- **Avoid Moisture:** Keep speakers dry. While car environments can be humid, direct exposure to water or excessive moisture should be avoided.
- **Inspect Wiring:** Periodically check speaker wiring for any signs of wear, fraying, or loose connections.
- **Protect from Damage:** Ensure no objects can fall onto or press against the speaker cones, especially if grilles are not used.

8. TROUBLESHOOTING

If you encounter issues with your CLARION SE1625R speakers, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound from speakers	Loose or incorrect wiring Head unit/amplifier issue Speaker damage	Check all speaker connections for proper polarity and secure fit. Ensure head unit/amplifier is powered on and functioning. Test with another known-good speaker if possible.
Distorted sound	Volume too high Incorrect gain settings on amplifier Damaged speaker cone/voice coil	Reduce volume. Adjust amplifier gain settings. Inspect speaker cones for physical damage.

Problem	Possible Cause	Solution
Weak or no bass	Incorrect wiring polarity	Verify speaker wire polarity. Adjust bass settings on head unit. Ensure all speakers are wired in phase.
	Head unit bass settings	
	Speaker phase issues	
Intermittent sound	Loose connections Frayed wiring	Check all wiring connections for tightness. Inspect wires for damage and replace if necessary.

If these steps do not resolve the issue, consult a professional car audio technician.

9. SPECIFICATIONS

Detailed technical specifications for the CLARION SE1625R speakers:

Specification	Value
Model Number	SE1625R
Speaker Type	6.5-inch (16cm) 2-Way Coaxial System
Maximum Music Peak Power	300 Watts
RMS Power	40 Watts
Frequency Response	60 Hz – 20 kHz
Impedance	4 Ohms
Cone Material	MIPP (Mica Injection Polypropylene)
Magnet Type	Ferrite
Connectivity Technology	Wire
Audio Output Mode	Stereo
Mounting Type	Car Mount
Compatible Vehicle Type	Car
UPC	613817031701



Figure 9.1: Product label with key specifications.

10. WARRANTY AND SUPPORT

CLARION products are manufactured to high-quality standards. For information regarding warranty coverage, terms, and conditions, please refer to the warranty card included with your product or visit the official CLARION website. For technical support, product inquiries, or service, please contact CLARION customer service through their official channels. Keep your purchase receipt as proof of purchase for warranty claims.

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