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Alpine SPE-6000

Alpine SPE-6000 6.5-inch 2-Way Coaxial Car Speaker Instruction Manual

Model: SPE-6000

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Alpine SPE-6000 6.5-inch 2-Way Type-E Coaxial Car Speakers. These speakers are designed to deliver clear and balanced audio performance in your vehicle. Please read this manual thoroughly before installation and use to ensure proper function and longevity of your product.



Image: Front view of the Alpine SPE-6000 speaker, showcasing its design with a protective grille and central tweeter.

The SPE-6000 features a polypropylene cone with pearl mica injection for robust bass response, a 3/4-inch silk soft dome tweeter for clear highs, and a durable injection-molded frame. The speakers are rated for 60 watts RMS power handling per speaker (120 watts per pair) and have a 4-ohm impedance.

SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. If you are unsure about any steps, consult a professional installer.

1. Unpacking and Inspection

- Carefully remove all components from the packaging.
- Verify that all parts are present and undamaged. Refer to the "What's in the Box" section for a list of included items.

2. Mounting Considerations

These speakers are designed for a mounting diameter of 5-1/2 inches (13.97 cm) and a top-mount depth of 2-3/8 inches (6.03 cm). Ensure the chosen mounting location in your vehicle provides adequate space and clearance for the speaker magnet and frame.



Image: Side profile of the Alpine SPE-6000 speaker, illustrating its compact design and mounting depth for installation planning.

3. Wiring Connections

1. Disconnect the vehicle's battery negative terminal before starting any wiring.
2. Connect the speaker wires from your amplifier or head unit to the corresponding terminals on the SPE-6000 speakers. Ensure correct polarity (positive to positive, negative to negative) to prevent phase issues.
3. Secure all connections using appropriate connectors or soldering, and insulate them to prevent short circuits.
4. The speakers have a 4-ohm impedance. Ensure your amplifier or head unit is stable at this impedance.

4. Securing the Speakers

- Once wired, carefully place the speakers into their mounting locations.
- Use the provided screws or appropriate fasteners to secure the speakers firmly. Do not overtighten.
- Reinstall any grilles or trim panels.

5. Final Check

- Reconnect the vehicle's battery negative terminal.
- Test the audio system at a low volume level to confirm proper operation of all speakers.

OPERATING YOUR SPEAKERS

The Alpine SPE-6000 speakers are designed to reproduce a wide range of frequencies with clarity. Once installed, their operation is primarily controlled by your car's head unit or amplifier.

Audio Settings

- **Volume Control:** Adjust the volume to a comfortable listening level. Avoid excessively high volumes for prolonged periods to prevent speaker damage.
- **Bass/Treble Adjustment:** Use your head unit's equalizer or tone controls to fine-tune the sound to your preference. The SPE-6000 speakers have a frequency response of 68-20,000 Hz.
- **Fader/Balance:** Adjust these settings to optimize the sound stage within your vehicle.
- **Crossover Settings (if applicable):** If using an external amplifier with crossover functions, set the high-pass filter (HPF) to protect the speakers from extreme low frequencies, typically around 80-100 Hz, depending on your system.

These speakers are not designed to function as subwoofers. While they provide good bass response for their size, they are optimized for mid-range and high-frequency reproduction.

MAINTENANCE AND CARE

To ensure the longevity and optimal performance of your Alpine SPE-6000 speakers, follow these simple maintenance guidelines:

- **Cleaning:** Gently wipe the speaker grilles and surrounds with a soft, dry, or slightly damp cloth. Avoid using harsh chemicals, solvents, or abrasive cleaners, as these can damage the speaker materials.
- **Environmental Protection:** While designed for automotive use, avoid exposing the speakers to excessive moisture, direct sunlight for prolonged periods, or extreme temperatures.
- **Volume Levels:** Operate the speakers within their rated power handling limits. Continuous operation at distorted or excessively high volume levels can cause damage.
- **Inspection:** Periodically check the speaker mounts and wiring connections to ensure they remain secure.

TROUBLESHOOTING

If you experience issues with your Alpine SPE-6000 speakers, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound from speakers	Power off/disconnected Incorrect wiring Head unit/amplifier issue Speaker damage	Ensure head unit/amplifier is on and connected. Check all wiring connections for correct polarity and secure contact. Test with another known-good speaker or audio source. Inspect speaker for visible damage.

Problem	Possible Cause	Solution
Distorted or unclear sound	Volume too high/clipping	Reduce volume.
	Incorrect audio settings	Adjust bass/treble settings on head unit.
	Loose connections	Check all wiring connections.
	Speaker damage	Inspect speaker for physical damage to cone or surround.
One speaker not working	Loose or incorrect wiring for that speaker	Check wiring to the non-working speaker.
	Speaker damage	Swap the non-working speaker with a working one (if possible) to isolate the issue.

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

TECHNICAL SPECIFICATIONS

Feature	Specification
Speaker Type	6.5-inch (16.5 cm) 2-Way Coaxial
Power Handling (RMS)	60 Watts per speaker (120 Watts per pair)
Power Handling (Peak)	240 Watts per speaker (480 Watts per pair)
Impedance	4 Ohms
Frequency Response	68 Hz - 20,000 Hz
Sensitivity	88.5 dB
Woofer Cone Material	Polypropylene with Pearl Mica Injection
Tweeter Type	3/4-inch Silk Soft Dome
Woofer Magnet	Ferrite
Tweeter Magnet	Neodymium
Top-Mount Depth	2-3/8 inches (6.03 cm)
Mounting Diameter	5-1/2 inches (13.97 cm)
Model Number	8542138519
UPC	613815576815
Item Weight	11 Pounds (for the pair)

WARRANTY INFORMATION

Alpine products are manufactured to high-quality standards. This product is covered by a manufacturer's limited warranty. The specific terms and duration of the warranty may vary by region and purchase location. Please retain your proof of purchase for warranty claims.

For detailed warranty information, including coverage, exclusions, and the claims process, please refer to the

warranty card included with your product or visit the official Alpine website.

CUSTOMER SUPPORT

If you require further assistance, have questions about your Alpine SPE-6000 speakers, or need technical support, please contact Alpine customer service.

You can typically find contact information (phone numbers, email, or support portals) on the official Alpine website or in the documentation provided with your purchase.

When contacting support, please have your product model number (SPE-6000) and proof of purchase readily available.