

## Alpine S2-S69

# Alpine S2-S69 Next-Generation S-Series 6x9 Coaxial Speaker Set Instruction Manual

## 1. INTRODUCTION

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This manual provides essential information for the proper installation, operation, and maintenance of your Alpine S2-S69 Next-Generation S-Series 6x9 Coaxial Speaker Set. The S2-S69 speakers are designed to deliver high-resolution audio with reliable performance and immersive bass, featuring a 6x9-inch woofer and integrated 1-inch tweeters. Please read this manual thoroughly before attempting installation or operation.

## 2. WHAT'S IN THE BOX

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Verify that all components are present before beginning installation:

- S2-S69 owner's manual
- Two 2-way speakers
- 2 Bottom mount brackets
- Two 12" Lengths of speaker wire
- Eight 1-1/8" Screws
- Eight M4x60mm Machine screws
- Eight M4 Nuts
- 8 Speed clips
- 16 Flat washers
- 8 Spacers
- Warranty information
- Online product registration information

## 3. SETUP AND INSTALLATION

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Proper installation is crucial for optimal performance and longevity of your speakers. It is highly recommended

that installation be performed by a qualified professional. Refer to the detailed wiring diagrams and mounting instructions provided in the included S2-S69 owner's manual for specific vehicle applications.

### 3.1 Mounting Considerations

The S2-S69 speakers are designed for door mount applications. Ensure adequate clearance for the speaker depth and diameter. The overall dimensions are approximately 5.6 inches (D) x 10.9 inches (W) x 15.8 inches (H).



Figure 1: Alpine S2-S69 speaker with key dimensions.

For additional protection against potential damage, the KTE-S69G Speaker Grille (sold separately) is compatible with this speaker set.

### 3.2 Wiring

Connect the speakers to your car audio system using the provided speaker wire. Ensure correct polarity (+ to + and - to -) to prevent phase issues that can negatively impact sound quality. Refer to your head unit or amplifier manual for specific wiring instructions.



Figure 2: Rear view of the Alpine S2-S69 speaker, highlighting wiring terminals.

## 4. OPERATING INSTRUCTIONS

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Once properly installed, your Alpine S2-S69 speakers are ready for use. These speakers are designed to deliver a high-fidelity audio experience.

### 4.1 Audio Playback

Connect your audio source (e.g., smartphone, tablet, MP3 player, car head unit) to your car's audio system. The S2-S69 speakers will reproduce sound from the connected source. Adjust volume levels gradually to avoid sudden loud outputs.

### 4.2 Sound Quality Features

- **Hi-Res Audio Certified:** The speakers are certified for Hi-Res Audio, supporting frequencies up to 40kHz for a detailed and natural listening experience.
- **HAMR Surround:** Alpine's High Amplitude Multi-Roll (HAMR) Surround technology allows for maximum cone movement, contributing to powerful and precise bass reproduction.
- **Clean, Accurate Audio:** The construction utilizes Poly Propylene, Glass Fiber, and Mica Cone materials for high output and low distortion, ensuring clear sound reproduction.

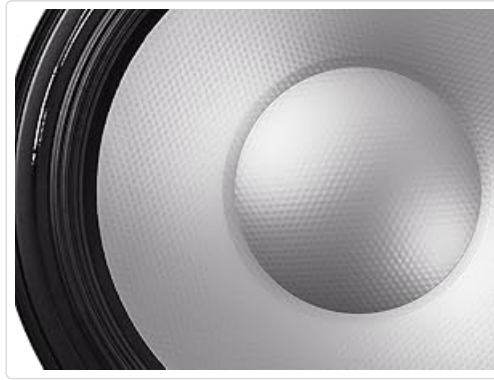


Figure 3: Speaker cone and surround detail for clean audio.



Figure 4: Front view of the Alpine S2-S69 speaker.

## 5. MAINTENANCE

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To ensure the longevity and optimal performance of your Alpine S2-S69 speakers, follow these simple maintenance guidelines:

- **Cleaning:** Gently wipe the speaker grilles and cones with a soft, dry cloth. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the speaker materials.
- **Inspection:** Periodically inspect the speaker surrounds and cones for any signs of damage, such as tears or cracks. Check wiring connections to ensure they remain secure.
- **Environment:** While the speakers are durable, avoid exposing them to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture. Note that the product is not waterproof.

## 6. TROUBLESHOOTING

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If you encounter issues with your Alpine S2-S69 speakers, refer to the following common troubleshooting steps:

### 6.1 No Sound from Speakers

- **Check Connections:** Ensure all speaker wires are securely connected to both the speakers and the amplifier/head unit. Verify correct polarity.

- **Power:** Confirm that your car audio system (head unit, amplifier) is powered on and functioning correctly.
- **Source Unit:** Check the audio source (radio, CD, Bluetooth device) to ensure it is playing and not muted.
- **Amplifier Settings:** If using an external amplifier, check its power, gain, and crossover settings. Ensure the amplifier is not in protection mode.

## 6.2 Distorted or Unclear Sound

- **Volume Level:** Reduce the volume on your head unit or amplifier. Distortion often occurs when the audio signal is overdriven.
- **Gain Settings:** Adjust the gain setting on your amplifier. If the gain is set too high, it can cause distortion.
- **Equalizer Settings:** Review your head unit's or amplifier's equalizer settings. Excessive bass or treble boost can lead to distortion.
- **Wiring:** Inspect speaker wires for any frayed strands or short circuits.
- **Physical Damage:** Visually inspect the speaker cones and surrounds for any physical damage.

## 6.3 Weak or Missing Bass

- **Polarity:** Incorrect wiring polarity can cause bass cancellation. Double-check that all speakers are wired with correct positive and negative connections.
- **Crossover Settings:** If using an amplifier with a built-in crossover, ensure it is set appropriately for full-range speakers or a low-pass filter is not engaged too high.
- **Enclosure:** Ensure the speakers are securely mounted and the mounting location is sealed to prevent air leaks, which can reduce bass response.

## 7. SPECIFICATIONS

The following table outlines the key technical specifications for the Alpine S2-S69 Coaxial Speaker Set:

Feature	Specification
Brand	Alpine
Model Number	S2-S69
Speaker Type	Coaxial, 2-way
Speaker Size	6x9 Inches
Woofer Diameter	22.86 Centimeters (9 Inches)
Tweeter Diameter	1 Inch
Speaker Maximum Output Power	170 Watts
Frequency Response	40000 Hz (Hi-Res Audio Certified)
Audio Output Mode	Stereo
Connectivity Technology	Coaxial
Mounting Type	Door Mount
Enclosure Material	Glass Fiber (cone material)
Item Dimensions (D x W x H)	5.6"D x 10.9"W x 15.8"H

Feature	Specification
Is Waterproof	FALSE
UPC	793276085061

## 8. WARRANTY INFORMATION

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The Alpine S2-S69 Coaxial Speaker Set comes with a **1-Year Manufacturer Warranty**. This warranty covers defects in materials and workmanship under normal use. Please refer to the warranty information included in your product packaging for full terms and conditions. Online product registration is available and recommended to activate your warranty and receive important product updates.

## 9. SUPPORT

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For further assistance, technical support, or inquiries regarding your Alpine S2-S69 speakers, please visit the official Alpine website or contact Alpine customer service. Contact information can typically be found on the Alpine website or in the included product documentation.