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## Alpine BRV-S65C

# Alpine BRV-S65C BassRev Component Speaker Set User Manual

Model: BRV-S65C

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## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Alpine BRV-S65C 6.5" BassRev Component Speaker Set. Designed for high-fidelity audio reproduction in automotive environments, these speakers feature advanced engineering to deliver enhanced bass response and clear sound quality. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of your product.

The BRV-S65C speakers are part of the Alpine BassRev series, engineered to integrate seamlessly with Alpine's Optim8 amplifier (PXE-C80-88) for a fully optimized audio experience. This integration allows for precise tuning and enhanced performance, leveraging the amplifier's built-in Digital Signal Processor (DSP).

### Package Contents:

- Two 6.5" BassRev Woofers
- Two Tweeters
- Mounting Hardware
- Speaker Wire
- User Manual (this document)

## 2. SETUP AND INSTALLATION

Proper installation is crucial for achieving the best sound quality and ensuring the safety of your vehicle's electrical system. It is recommended that installation be performed by a qualified professional. If you choose to install the speakers yourself, please follow these guidelines carefully.

### 2.1 Safety Precautions

- Disconnect the vehicle's negative battery terminal before starting any electrical work.
- Ensure all wiring is properly insulated to prevent short circuits.
- Mount speakers securely to prevent movement during vehicle operation.
- Avoid installing speakers in locations that obstruct airbags or other safety features.

## 2.2 Component Overview



Figure 2.2.1: Top view of the Alpine BRV-S65C 6.5-inch BassRev woofer, showcasing its metallic cone and ribbed rubber surround.



Figure 2.2.2: A close-up view of the BRV-S65C woofer cone, highlighting the unique lapel shape and the High Excursion Design Gathered Edge (H.E.D.G.E.) rubber surround for increased output and low-frequency extension.



Figure 2.2.3: Side profile of the Alpine BRV-S65C woofer, showing its mounting depth and robust construction.



Figure 2.2.4: The tweeters included with the Alpine BRV-S65C component speaker set, designed for clear high-frequency reproduction.

## 2.3 Wiring and Connection

The BRV-S65C component speakers are designed to run in a full active configuration, meaning they do not utilize a passive crossover. This design requires direct connection to a Digital Signal Processor (DSP) amplifier, such as the Alpine PXE-C80-88 Optim8 amplifier, for proper frequency division and tuning.

- Connect the woofers and tweeters directly to the appropriate channels of your DSP amplifier.
- Ensure correct polarity (+ to + and - to -) for all speaker connections.
- Refer to your DSP amplifier's manual for specific wiring diagrams and channel assignments.

## 2.4 Mounting

Mount the woofers and tweeters in suitable locations within your vehicle, typically in factory speaker locations or custom-

fabricated mounts. Ensure adequate clearance behind the speakers and secure them firmly to prevent vibrations and rattles.

- Use the provided mounting hardware.
- Avoid mounting speakers where they will be exposed to excessive moisture or direct sunlight.

### 3. OPERATING INSTRUCTIONS

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Once installed and connected to a compatible DSP amplifier, your Alpine BRV-S65C speakers are ready for operation. Optimal performance is achieved through proper tuning of the DSP amplifier.

#### 3.1 DSP Tuning with Alpine Optim8 Amplifier

The Alpine BassRev speaker line is specifically designed to work with the Alpine PXE-C80-88 Optim8 amplifier. This amplifier features built-in tuning presets for BassRev speakers, simplifying the setup process.

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Video 3.1.1: An overview of the Alpine BassRev Series, demonstrating how the speakers are designed to integrate with the Optim8 amplifier for enhanced audio performance and simplified tuning. This video highlights the benefits of the integrated DSP for achieving optimal sound quality.

- Access the tuning interface of your Alpine PXE-C80-88 amplifier (requires 3.0 or newer update).
- Select the appropriate speaker size (6.5" component) from the pre-EQ selection options.
- The amplifier will apply optimized crossover points, equalization, and time alignment settings for your BRV-S65C speakers.
- Further fine-tuning can be done manually if desired, referring to the Optim8 amplifier's user manual.

The High Excursion Design Gathered Edge (H.E.D.G.E.) rubber surround and unique lapel cone shape contribute to increased output and extended low-frequency response, providing more mid-bass than traditional speakers of similar size.

### 4. MAINTENANCE

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Your Alpine BRV-S65C speakers are designed for durability and long-term performance with minimal maintenance. Follow these simple guidelines to keep them in optimal condition:

- **Cleaning:** Use a soft, dry cloth to wipe down the speaker grilles and cones. Avoid using harsh chemicals, abrasives, or excessive moisture, which can damage the materials.
- **Inspection:** Periodically check speaker mounts and connections to ensure they remain secure. Loose connections can lead to poor sound quality or intermittent operation.
- **Environmental Protection:** While designed for automotive use, avoid prolonged exposure to extreme temperatures, direct sunlight, or excessive moisture when possible.

### 5. TROUBLESHOOTING

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If you experience issues with your Alpine BRV-S65C speakers, consult the following table for common problems and solutions. For more complex issues, contact Alpine customer support or a certified installer.

Problem	Possible Cause	Solution
No sound from speakers	<ul style="list-style-type: none"> <li>Loose or incorrect wiring connections.</li> <li>Amplifier not powered on or in protect mode.</li> <li>Incorrect DSP settings.</li> </ul>	<ul style="list-style-type: none"> <li>Check all speaker and amplifier wiring for secure connections and correct polarity.</li> <li>Verify amplifier power and check for protection indicator lights. Consult amplifier manual.</li> <li>Ensure correct speaker type and settings are selected in the DSP.</li> </ul>
Distorted or unclear sound	<ul style="list-style-type: none"> <li>Gain levels set too high on amplifier or source unit.</li> <li>Incorrect DSP equalization or crossover settings.</li> <li>Speaker cone damage.</li> </ul>	<ul style="list-style-type: none"> <li>Reduce gain levels.</li> <li>Reset DSP settings to factory presets for BRV-S65C or re-tune carefully.</li> <li>Inspect speaker cones for physical damage.</li> </ul>
Lack of bass response	<ul style="list-style-type: none"> <li>Incorrect crossover settings (high-pass filter too high).</li> <li>Phase issues.</li> <li>Loose speaker mounting.</li> </ul>	<ul style="list-style-type: none"> <li>Adjust high-pass filter settings in the DSP to a lower frequency.</li> <li>Check speaker polarity and phase settings in the DSP.</li> <li>Ensure speakers are securely mounted.</li> </ul>

## 6. SPECIFICATIONS

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Feature	Detail
Brand	Alpine
Model Number	BRV-S65C
Speaker Type	Component
Speaker Size	6.5 Inches
Speaker Maximum Output Power	100 Watts
Frequency Response	20 Hz (Lower limit, actual range depends on tuning)
Audio Output Mode	Stereo
Mounting Type	Flush Mount
Enclosure Material	Metal, Polypropylene
Unit Count	1.0 Count (Refers to the set)
Audio Driver Size	6.5 Inches
UPC	793276002341
Compatible Vehicle Type	SUVs, Select Cars, Truck
Special Features	High Excursion Design Gathered Edge (H.E.D.G.E.) rubber surround, Unique lapel cone shape, OPTIM Sync Technology compatibility, Polypropylene and Mica Cone Material, Gun metal chemical topcoat.

## 7. WARRANTY AND SUPPORT

### 7.1 Manufacturer's Warranty

The Alpine BRV-S65C Component Speaker Set is covered by a **1-Year Manufacturer Warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. For full details regarding warranty terms, conditions, and exclusions, please refer to the official Alpine warranty documentation included with your product or visit the Alpine website.

### 7.2 Customer Support

For technical assistance, troubleshooting, or service inquiries, please contact Alpine customer support. You can find contact information on the official Alpine website or through your authorized dealer.

**Online Resources:** Visit the official Alpine website for FAQs, product registration, and additional support materials.

