

Infinity PR6512ISAM

Infinity Primus 6512 - 6-1/2" 2-way Multi-element Speaker Instruction Manual

Model: PR6512ISAM

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Infinity Primus 6512 - 6-1/2" 2-way Multi-element Speakers. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of your speakers.

The Infinity Primus speakers feature patented Plus One polypropylene woofers for increased output and edge-driven tweeters for superior high-frequency dispersion. Designed for easy installation, these speakers offer true 4-ohm architecture for optimal power handling and are built to last through rigorous testing.

WHAT'S IN THE BOX

- 2 x Speakers
- 2 x Grilles
- 2 x Plastic multi-hole adapter rings
- 1 x Foam gasket
- 16 x Screws
- 8 x Speed clips
- 2 x Brand stickers
- Owner's manual (this document)

SETUP AND INSTALLATION

The Infinity Primus 6512 speakers are designed for easy installation in various vehicle types. Ensure your vehicle's audio system is turned off before beginning installation.

Mounting Considerations

These speakers feature a flush mount design. Use the provided plastic multi-hole adapter rings for compatibility with different mounting locations. Always ensure a secure fit to prevent vibration and optimize sound quality.

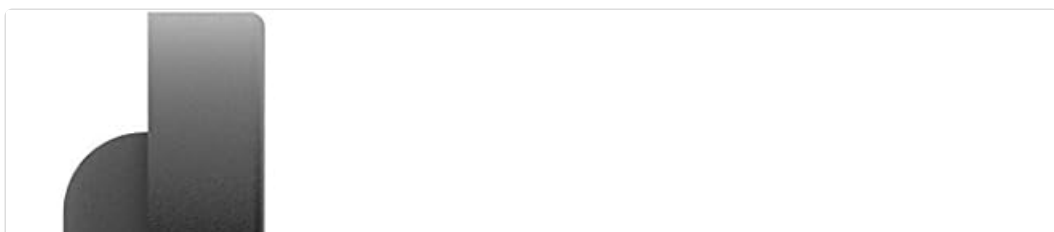






Figure 1: Side profile of the speaker, illustrating its mounting depth and frame structure.

Wiring

The speakers utilize a true 4-ohm architecture for optimal power handling. Connect the speaker wires to the appropriate terminals on your amplifier or head unit. Ensure correct polarity (positive to positive, negative to negative) for proper sound reproduction.



Figure 2: Rear view of the speaker, highlighting the magnet assembly and connection terminals.

Grille Installation

After mounting the speakers, attach the provided grilles to protect the speaker cones from damage. Align the grille with the speaker frame and gently press until it snaps into place.



Figure 3: Front view of the speaker with the grille in place, ready for use.

OPERATING INSTRUCTIONS

Once installed, your Infinity Primus 6512 speakers are ready for use. These speakers are designed to deliver superior sound across all frequencies.

Audio Playback

Connect your audio source (e.g., car stereo, smartphone via compatible device) to your vehicle's audio system. Adjust volume and equalizer settings on your head unit to achieve your desired sound profile. The edge-driven tweeters provide wide dispersion for a smooth high-frequency response, while the polypropylene woofers deliver increased low-frequency output.

Power Handling

The speakers have a maximum output power of 165 Watts. While designed for optimal power handling, avoid exceeding the recommended power limits to prevent damage to the speakers and ensure long-term performance.

MAINTENANCE

Regular maintenance will help preserve the performance and appearance of your Infinity Primus 6512 speakers.

Cleaning

Use a soft, dry cloth to wipe down the speaker grilles and frames. Avoid using abrasive cleaners or solvents, as these can damage the speaker materials. For stubborn dirt, a slightly damp cloth can be used, followed by immediate drying.

Inspection

Periodically inspect the speaker cones and surrounds for any signs of damage or wear. Ensure all mounting screws remain tight. If any issues are observed, consult a professional audio technician.

TROUBLESHOOTING

If you experience issues with your speakers, refer to the following common troubleshooting steps:

- **No Sound:**
 - Check all wiring connections to ensure they are secure and correctly polarized.
 - Verify that your audio source and amplifier (if used) are powered on and functioning correctly.
 - Ensure the volume is turned up and not muted on your head unit.
- **Distorted Sound:**
 - Reduce the volume level. Overdriving the speakers can cause distortion.
 - Check your amplifier's gain settings. Too high a gain can lead to clipping and distortion.
 - Inspect speaker cones for physical damage.
- **Weak Bass:**
 - Ensure speaker polarity is correct. Incorrect polarity can cause bass cancellation.
 - Check for air leaks around the speaker mounting area. A proper seal is crucial for bass response.
 - Adjust bass settings on your head unit or amplifier.

If problems persist after attempting these steps, contact customer support or a qualified audio technician.

SPECIFICATIONS

Feature	Detail
Model Name	PRIMUS 6512IS
Speaker Type	Coaxial
Speaker Size	6.5 Inches
Woofer Diameter	6.5 Inches (16.51 Centimeters)
Speaker Maximum Output Power	165 Watts

Connectivity Technology	Coaxial
Mounting Type	Flush Mount
Item Weight	4.53 pounds
Product Dimensions	6 x 6 x 2.75 inches
Manufacturer	Infinity
Date First Available	November 15, 2019

PRODUCT OVERVIEW VIDEO

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Video 1: A comprehensive overview of the Infinity Primus 6512 speakers, detailing their features and design.

WARRANTY AND SUPPORT

Warranty Information

The Infinity Primus 6512 speakers come with a **Limited Warranty**. Please refer to the warranty card included in your product packaging for specific terms and conditions, including coverage duration and claim procedures.

Customer Support

For technical assistance, troubleshooting not covered in this manual, or warranty claims, please visit the official Infinity website or contact their customer support. Keep your purchase receipt and product model number (PR6512ISAM) handy when contacting support.

You can also visit the [Infinity Store on Amazon](#) for more information and resources.