

Infinity KAPPA203S

Infinity KAPPA203S 2" (50mm) Silk Dome Midrange with Bandpass Crossover Instruction Manual

Brand: Infinity | Model: KAPPA203S

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Infinity KAPPA203S 2" (50mm) Silk Dome Midrange with Bandpass Crossover. Please read this manual thoroughly before use to ensure proper functionality and longevity of your product.



Figure 1: Infinity KAPPA203S 2" (50mm) Silk Dome Midrange with Bandpass Crossover components.

WHAT'S IN THE BOX

- KAPPA203S Midrange Speakers (Quantity: 2)
- Bandpass Crossovers (Quantity: 2)



Figure 2: The Infinity KAPPA203S product packaging, containing the midrange speakers and bandpass crossovers.

FEATURES

- **Silk Dome Tweeters:** Edge-driven silk dome tweeters with oversized voice coils for smooth highs and impressive thermal power handling up to 40kHz.
- **Glass Fiber Woofer Cones:** Lighter and stiffer cones with increased surface area for high-output, deep, and robust bass.
- **Adjustable Tweeter Output:** Push-button on the angled tweeter allows output level control of 0dB or -3dB for system linearity optimization.
- **Compact Crossovers:** 2-way component system crossovers are compact and offer 2-way and 3-way selections for midrange upgrades.

SPECIFICATIONS

Model Name	KAPPA203S
Speaker Type	Component
Mounting Type	Flush Mount
Material	Glass Fiber
Speaker Size	2 Inches
Woofer Diameter	2 Inches
Tweeter Diameter	0.75 Inches
Impedance	3 Ohms
Speaker Maximum Output Power	100 Watts
Frequency Response	40 KHz

Signal-to-Noise Ratio	94 dB
Product Dimensions	6"D x 2"W x 4"H
Item Weight	1.8 Pounds

SETUP

Proper installation is crucial for optimal performance. The KAPPA203S system is designed for flexibility in vehicle integration.

Midrange Speaker Installation

The 2" (50mm) midrange speakers are designed for flush mounting. Ensure adequate space and secure mounting to prevent vibrations.



Figure 3: Detailed view of the Infinity KAPPA203S midrange speaker, highlighting its glass fiber cone.

Tweeter Installation and Orientation

The silk dome tweeters can be rotated 270° for excellent stereo imaging, allowing you to direct the sound precisely towards the listening area. This flexibility helps optimize the soundstage based on your vehicle's

interior.



Figure 4: The Infinity KAPPA203S silk dome tweeter, designed for high-resolution audio.

Crossover Network Configuration

The compact bandpass crossovers are essential for directing the correct frequency ranges to the midrange speakers. They feature 2-way and 3-way selections, enabling an upgrade from a 2-way component system to a 3-way system with perfect tonal balance by adding an optional 2" or 3" midrange speaker.



Figure 5: The compact bandpass crossover for the KAPPA203S system, showing input and output terminals.



Figure 6: The KAPPA203S crossover module, indicating the midrange output connection.

OPERATING

The KAPPA203S system is designed to deliver high-fidelity audio. Utilize the adjustable features to fine-tune your listening experience.

Tweeter Output Level Control

The tweeters include a push-button for adjusting the output level to either 0dB or -3dB. This allows you to optimize the brightness of the high frequencies to your personal preference and the acoustics of your vehicle, ensuring a balanced sound profile.

Sound Performance

The combination of silk dome tweeters and glass fiber woofer cones provides a wide frequency response and high sensitivity, resulting in clear highs and punchy, defined bass. The true 4-ohm impedance technology (as shown in the product video) ensures efficient power draw from your amplifier.

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Video 1: Official product video demonstrating the features and sound capabilities of the Infinity Kappa Speakers, including tweeter adjustability and woofer technology.

MAINTENANCE

To ensure the longevity and optimal performance of your KAPPA203S speakers, follow these general maintenance guidelines:

- Regularly inspect speaker cones and surrounds for any signs of damage or wear.
- Keep speakers free from dust and debris using a soft, dry cloth.
- Avoid exposing speakers to extreme temperatures or moisture.
- Ensure all wiring connections remain secure and free from corrosion.

TROUBLESHOOTING

If you encounter any issues with your KAPPA203S speakers, consider the following common troubleshooting steps:

- **No Sound:** Check all wiring connections from the amplifier to the crossovers and speakers. Ensure the amplifier is powered on and receiving a signal.
- **Distorted Sound:** Reduce the volume level. Check for proper gain settings on your amplifier. Ensure speakers are not over-powered or under-powered. Verify that the crossover settings are correct.
- **Weak Bass:** Confirm correct polarity of speaker connections. Ensure the woofer cones are free to move without obstruction.
- **Harsh Treble:** Adjust the tweeter output level to -3dB using the push-button on the tweeter.

If problems persist, consult a professional car audio installer or contact customer support.

WARRANTY


This product is covered by a manufacturer's warranty. For specific details regarding warranty coverage, duration, and claims procedures, please refer to the warranty card included with your product or visit the official Infinity website. Extended protection plans may also be available for purchase.






SUPPORT

For additional support, product information, or to explore other Infinity products, please visit the official Infinity Store:

[Visit the Infinity Store](#)

Related Documents - KAPPA203S

	<p>Infinity Primus 603CF 6-1/2" 2-Way Component Car Speaker System Installation Manual</p> <p>Detailed installation manual for the Infinity Primus 603CF 6-1/2 inch 2-way component car speaker system. Includes specifications, parts list, and setup instructions.</p>
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 <p>Infinity HARMAN INSTALLATION MANUAL PRIMUS 753T</p>	<p>Infinity Primus 753T Installation Manual</p> <p>Installation manual for the Infinity Primus 753T speaker component, detailing specifications, dimensions, and assembly instructions. Features 3/4" Edge-Driven Silk Dome Tweeters.</p>
 <p>Infinity Primus Speaker</p>	<p>Infinity Primus Car Speakers: Overview, Features, and Specifications</p> <p>Explore the Infinity Primus series of car audio speakers. Discover key features like Plus One™ woofers and edge-driven tweeters, detailed specifications for models like PR5012is, PR6512is, PR9613is, PR8612cf, PR5010cs, PR6510cs, PR9610cs, and PR66128, and understand their installation and performance benefits.</p>
 <p>Infinity HARMAN INSTALLATION MANUAL KAPPA 693M</p>	<p>Infinity Kappa 693M Car Speaker Installation Manual</p> <p>Installation guide for the Infinity Kappa 693M 6x9 inch 3-way car speakers, featuring dimensions, wiring diagrams, and component details.</p>
 <p>Infinity HARMAN INSTALLATION MANUAL KAPPA 63XF</p>	<p>Infinity Kappa Series Car Speakers Installation Manual and Specifications</p> <p>This document provides installation instructions, features, benefits, and technical specifications for the Infinity Kappa Series car audio speakers, including models like the Kappa 63XF, 603CF, 693M, and others. It details product components, dimensions, and performance metrics for upgrading vehicle audio systems.</p>
 <p>Infinity HARMAN INSTALLATION MANUAL KAPPA 53XF</p>	<p>Infinity Kappa 53XF Speaker Installation Manual</p> <p>Installation manual for the Infinity Kappa 53XF 5-1/4" 2-way car speakers. Includes dimensions, component list, and installation overview. Manufactured by Harman International.</p>