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## Kenwood KFC-S6966

# Kenwood KFC-S6966 Elliptic 3-Way Car Speakers Instruction Manual

Model: KFC-S6966

## INTRODUCTION

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This manual provides essential information for the proper installation, operation, and maintenance of your Kenwood KFC-S6966 Elliptic 3-Way Car Speakers. Please read this manual thoroughly before attempting installation or use to ensure optimal performance and safety.

## SAFETY INFORMATION

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- Always disconnect the vehicle's battery negative terminal before starting any electrical work to prevent short circuits.
- Ensure all wiring is properly insulated to prevent damage to the vehicle's electrical system or the speakers.
- Do not install speakers in locations that obstruct the driver's view or interfere with vehicle operation.
- Wear appropriate safety gear, such as eye protection, during installation.
- If you are unsure about any part of the installation process, consult a qualified professional car audio installer.
- Avoid exposing speakers to excessive moisture or extreme temperatures.

## PACKAGE CONTENTS

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Verify that all items are present before beginning installation:

- Kenwood KFC-S6966 Elliptic 3-Way Speakers (Pair)
- Speaker Grilles (Pair)
- Mounting Screws and Clips
- Speaker Wire (if included, otherwise sold separately)

## SETUP AND INSTALLATION

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The Kenwood KFC-S6966 speakers are designed for flush mount installation in vehicle audio systems. Proper installation is crucial for sound quality and speaker longevity.

1. **Preparation:** Disconnect the vehicle's battery. Remove existing speakers or trim panels to access the speaker mounting locations.
2. **Mounting Location:** Identify suitable mounting locations, typically in door panels, rear decks, or custom enclosures. Ensure sufficient depth and clearance for the speaker magnet and frame. Refer to the dimensions diagram below.
3. **Cutting Template (if necessary):** If replacing smaller speakers or installing in a new location, use the provided template (often found on the speaker box) to mark and cut the opening. The speaker basket is wide, so ensure the opening accommodates the full speaker diameter.
4. **Speaker Placement:** Position the speaker in the opening. If the speaker basket interferes with the vehicle's structure, a speaker spacer may be required to provide adequate clearance.
5. **Wiring:** Connect the speaker wires from your amplifier or head unit to the speaker terminals. Ensure correct polarity (+ to + and - to -) for optimal sound. The positive terminal is usually marked with a '+' or a larger terminal.
6. **Securing Speakers:** Use the supplied mounting screws to firmly secure the speakers in place. Do not overtighten.
7. **Grille Installation:** Attach the speaker grilles over the installed speakers.
8. **Final Steps:** Reinstall any removed trim panels. Reconnect the vehicle's battery.



**Figure 1: Speaker Dimensions.** This diagram illustrates the physical dimensions of the Kenwood KFC-S6966 speakers. It includes top-down views of the speaker with and without the grille, a side profile view, and a bottom view of the magnet assembly. Key measurements are provided in both millimeters and inches, detailing overall length (268mm / 10-9/16"), width (193mm / 7-5/8"), mounting depth (76.8mm / 3"), and tweeter/woofer diameters. These measurements are critical for ensuring proper fit and clearance during installation.

## OPERATING INSTRUCTIONS

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Once installed, your Kenwood KFC-S6966 speakers are ready for use with your vehicle's audio system.

- **Power On:** Turn on your car's head unit or amplifier.
- **Audio Source:** Select your desired audio source (radio, CD, auxiliary input, Bluetooth, etc.).
- **Volume Adjustment:** Start with a low volume level and gradually increase it to your preferred listening level. Avoid excessively high volumes that cause distortion, as this can damage the speakers.
- **Audio Settings:** Adjust bass, treble, balance, and fader settings on your head unit or amplifier to optimize sound quality for your vehicle's acoustics and personal preference. These speakers support Stereo and Surround Sound audio output modes.
- **Compatible Devices:** These speakers are primarily designed for vehicle audio systems but can be connected to any audio source with compatible Auxiliary or RCA outputs.

## MAINTENANCE

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Minimal maintenance is required for your Kenwood speakers to ensure long-lasting performance.

- **Cleaning:** Gently wipe the speaker grilles and surrounds with a soft, dry cloth to remove dust. Do not use harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically check speaker connections for tightness and ensure no wires are frayed or exposed.
- **Environmental Protection:** Protect speakers from direct sunlight and extreme temperatures when possible, as these can degrade materials over time.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
No sound from speakers	<p>Incorrect wiring or loose connections.</p> <p>Head unit or amplifier not powered on.</p> <p>Audio source not selected or muted.</p>	<p>Check all speaker wire connections for proper polarity and tightness.</p> <p>Ensure head unit and amplifier are powered on and functioning.</p> <p>Verify audio source is selected and volume is up.</p>
Distorted or poor sound quality	<p>Volume too high, causing clipping.</p> <p>Incorrect audio settings (bass/treble).</p> <p>Loose speaker mounting.</p> <p>Damaged speaker cone or voice coil.</p>	<p>Reduce volume to a comfortable level.</p> <p>Adjust audio settings on your head unit or amplifier.</p> <p>Ensure speakers are securely mounted.</p> <p>If distortion persists, inspect speakers for physical damage.</p>
One speaker not working	<p>Loose connection to that specific speaker.</p> <p>Balance/fader settings incorrect.</p> <p>Faulty speaker or amplifier channel.</p>	<p>Check wiring for the non-working speaker.</p> <p>Adjust balance and fader settings on your head unit.</p> <p>Test with a known good speaker or amplifier channel if possible.</p>

## SPECIFICATIONS

<b>Model Name</b>	KFC-S6966
<b>Speaker Type</b>	3-Way Elliptic Coaxial Speaker (Woofer, Tweeter, Super Tweeter)
<b>Woofer Size</b>	150 x 230 mm (5.9 x 9 inches)
<b>Tweeter Size</b>	50 mm (2 inches)
<b>Super Tweeter Size</b>	12 mm (0.5 inches)
<b>Mounting Type</b>	Flush Mount
<b>Material</b>	Polypropylene (Woofer Cone)
<b>Maximum Output Power</b>	400 Watts
<b>Frequency Response</b>	20 Hz - 20,000 Hz
<b>Connectivity Technology</b>	Auxiliary, RCA (Wired)
<b>Audio Output Mode</b>	Stereo, Surround Sound
<b>Speaker Dimensions (Overall)</b>	268 mm x 193 mm (10-9/16" x 7-5/8")
<b>Mounting Depth</b>	76.8 mm (3")
<b>Item Weight</b>	2.2 Kilograms (4.84 pounds)
<b>Manufacturer</b>	JVCKenwood

## WARRANTY AND SUPPORT

Kenwood products are manufactured to high-quality standards and are backed by a standard warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Kenwood website.

For technical support, troubleshooting assistance beyond this manual, or service inquiries, please contact Kenwood customer support through their official website or authorized service centers. Keep your purchase receipt as proof of purchase for warranty claims.

**Online Resources:** [www.kenwood.com](http://www.kenwood.com)