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## Cadence IQ65KGE

# Cadence 6.5 Inch 2-Way Full Range Component Car Speakers IQ65KGE User Manual

Model: IQ65KGE

## 1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Cadence IQ65KGE 6.5 Inch 2-Way Full Range Component Car Speakers. Please read this manual thoroughly before attempting to install or operate the speakers to ensure proper function and safety. Retain this manual for future reference.

## 2. Product Overview

The Cadence IQ65KGE component car speaker system is designed to deliver high-quality audio performance in your vehicle. It features 6.5-inch woofers, 1-inch tweeters, and external crossovers, providing a balanced and clear sound experience. These speakers are engineered to work efficiently with both OEM factory and lower power amplifiers, making them a versatile upgrade for various car audio setups.




Image: The complete Cadence IQ65KGE component car speaker system, including two 6.5-inch woofers, two tweeters, and two external crossovers.

## 3. Package Contents

Verify that all items listed below are present in your package:

- Two (2) 6.5-inch Woofers
- Two (2) Tweeters
- Two (2) External Crossovers



Image: A visual representation of the package contents, showing two 6.5-inch speakers, two tweeters, and two crossovers, each labeled numerically.

## 4. Features

- **Full Range Performance:** IQ Series speakers are designed to maximize sound output from OEM factory and lower power amplifiers.
- **Clear Sound Reproduction:** Woofers feature cones made from black polypropylene mica for clear audio delivery.
- **Durable Surround:** Lightweight cloth surround ensures smooth response and long-term durability.
- **High-Temperature Voice Coil:** Equipped with a 1-inch ASV Voice Coil capable of withstanding high temperatures, ensuring consistent performance.
- **Optimal Impedance:** 4 Ohm impedance for efficient power handling.
- **Complete Component System:** Includes two 6.5-inch woofers, two tweeters, and two external crossovers for a comprehensive audio solution.




Image: Key specifications including 150W Max Power, 60Hz-20kHz Frequency Response, and 89dB Sensitivity.




Image: Detail showing the 1-inch ASV Voice Coil and 4 Ohm impedance, highlighting high-temperature resistance.




Image: Close-up of the woofer cone, indicating it is made from black polypropylene mica for clear sound.




Image: View of the lightweight cloth surround, designed for smooth response and durability.




Image: Underside view of the speaker, showing the 20 oz magnet and stamp metal basket construction.

## 5. Specifications

| | |
|---|---|
| **Model Name** | 2-Way Full Range Component Car Speakers |
| **Speaker Type** | Component |
| **Speaker Size** | 6.5 Inches (Woofer), 1 Inch (Tweeter) |
| **Maximum Output Power** | 150 Watts |
| **Impedance** | 4 Ohm |
| **Voice Coil** | 1 inch ASV |
| **Cone Material** | Black Polypropylene Mica |
| **Surround Material** | Lightweight Cloth |

| | |
|---|---|
| **Included Components** | 2 Woofers, 2 Tweeters, 2 External Crossovers |
| **Product Dimensions** | 17.24"D x 7.17"W x 2.99"H |
| **Item Weight** | 1.5 Pounds |
| **Connectivity Technology** | Coaxial, Wired |
| **Recommended Uses** | For Surround Sound Systems in Car |
| **Waterproof** | FALSE |

## 6. Setup and Installation

Proper installation is crucial for optimal performance and longevity of your speakers. It is highly recommended that installation be performed by a qualified car audio professional.

### 6.1 Pre-Installation Checklist

- Ensure your vehicle's battery is disconnected before starting any electrical work.
- Confirm the speaker size and mounting depth are compatible with your vehicle's speaker locations.
- Gather all necessary tools: wire strippers, crimpers, screwdrivers, drill (if needed), and mounting hardware.

### 6.2 Installation Steps

1. **Remove Existing Speakers:** Carefully remove the door panels or speaker grilles to access the factory speaker locations. Disconnect the wiring from the old speakers.
2. **Mount Woofers:** Place the 6.5-inch woofers into the designated speaker openings. Secure them using appropriate screws and mounting brackets. Ensure a tight, vibration-free fit.
3. **Install Tweeters:** Determine the optimal location for the tweeters, typically near the woofers or on the dashboard for best sound staging. Mount them securely using the provided hardware.
4. **Connect Crossovers:** The external crossovers manage the audio signal distribution between the woofers and tweeters. Connect the amplifier output to the input terminals of the crossover. Then, connect the woofer and tweeter outputs from the crossover to their respective speakers. Pay close attention to positive (+) and negative (-) terminals.
5. **Wiring:** Use high-quality speaker wire for all connections. Ensure all connections are secure and insulated to prevent short circuits.
6. **Test System:** Before reassembling the vehicle's interior, reconnect the battery and test the speaker system with your car's audio unit. Verify that all speakers are functioning correctly and that the sound is clear and balanced.
7. **Reassemble:** Once confirmed, carefully reassemble all removed panels and grilles.




Image: A person installing a 6.5-inch speaker into a car door, demonstrating the mounting process.




Image: Cadence speakers and tweeters professionally installed in a car door panel, showcasing a typical setup.

## 7. Operating Instructions

Once installed, your Cadence IQ65KGE speakers will operate in conjunction with your car's head unit and amplifier. No specific operational controls are present on the speakers themselves.

- **Audio Source:** Select your desired audio source (radio, CD, Bluetooth, USB, etc.) from your car's head unit.
- **Volume Control:** Adjust the volume level using your head unit's volume knob or controls. Avoid excessively high volumes that cause distortion, as this can damage the speakers.
- **Tone Controls:** Utilize your head unit's equalizer (EQ), bass, treble, and balance/fader controls to fine-tune the sound to your preference.
- **Break-in Period:** Allow a short break-in period (typically 10-20 hours of normal listening) for the speaker components to loosen up and achieve their optimal sound performance.

## 8. Maintenance

Your Cadence speakers require minimal maintenance to ensure long-lasting performance.

- **Cleaning:** Use a soft, dry cloth to gently wipe down the speaker grilles and surrounds. Avoid using harsh chemicals or abrasive cleaners.
- **Environmental Factors:** While designed for automotive use, avoid exposing the speakers to excessive moisture or extreme temperatures beyond normal vehicle operating conditions.
- **Inspection:** Periodically inspect the speaker cones and surrounds for any signs of damage or wear. Ensure all mounting screws remain tight.

## 9. Troubleshooting

If you experience issues with your speakers, refer to the following common problems and solutions:

| Problem | Possible Cause | Solution |
|---|---|---|
| No Sound from Speakers | Loose wiring connection<br>Incorrect wiring polarity<br>Amplifier or head unit issue<br>Damaged speaker wire | Check all speaker and crossover connections.<br>Verify positive and negative terminals are correctly connected.<br>Test amplifier and head unit with another speaker.<br>Inspect speaker wires for cuts or pinches. |
| Distorted Sound | Volume too high<br>Improper gain settings on amplifier<br>Damaged speaker cone or surround<br>Poor power supply | Reduce volume level.<br>Adjust amplifier gain settings according to amplifier manual.<br>Inspect speaker for physical damage.<br>Ensure adequate power and ground connections to amplifier. |
| Weak Bass Response | Incorrect wiring polarity<br>Phase issues<br>Insufficient amplifier power<br>Poor speaker seal | Double-check woofer wiring polarity.<br>Ensure all speakers are in phase.<br>Consider a more powerful amplifier.<br>Ensure speakers are securely mounted and sealed. |
| No Sound from Tweeters | Incorrect crossover connection<br>Damaged tweeter<br>Crossover malfunction | Verify tweeter connections to the crossover.<br>Test tweeter with a low-power audio source (carefully).<br>Inspect crossover for visible damage or test with a multimeter. |

If troubleshooting steps do not resolve the issue, please contact Cadence customer support or a certified car audio technician.

## 10. Warranty and Support

For information regarding product warranty, please refer to the warranty card included with your purchase or visit the official Cadence website. For technical support or service inquiries, please contact Cadence customer service through their official channels.

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