

## KICKER 44KSS6504

# KICKER KSS6504 6.5" Component System Instruction Manual

Model: 44KSS6504

## 1. INTRODUCTION AND OVERVIEW

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This manual provides detailed instructions for the installation, operation, and maintenance of your KICKER KSS6504 6.5-inch Component System. This system is designed to deliver clear and dynamic audio performance in automotive environments. It includes two 6.5-inch woofers, two 1-inch silk dome tweeters, and two external crossover networks, offering flexible installation options and precise sound tuning.

## 2. SAFETY INFORMATION

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- Always disconnect the vehicle's battery before beginning any electrical installation to prevent short circuits and electrical damage.
- Consult with a professional car audio installer if you are unsure about any part of the installation process.
- Wear appropriate safety gear, including eye protection, during installation.
- Ensure all wiring is properly routed and secured to prevent interference with vehicle operation and to avoid damage from moving parts or sharp edges.
- Avoid listening to audio at excessively high volumes for prolonged periods, as this can cause permanent hearing damage.

## 3. PACKAGE CONTENTS

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Verify that all items are present in your KICKER KSS6504 component system package:

- Two (2) 6.5-inch Polypropylene Woofer Cones with Rubber Surrounds
- Two (2) 1-inch Silk Dome Tweeters
- Two (2) External Crossover Networks
- Two (2) Speaker Grilles
- Assorted Mounting Hardware (screws, clips, tweeter mounting cups/bezels)
- Speaker Wire



*This image displays all included components: woofers, tweeters, crossovers, grilles, and various mounting hardware.*

## 4. SETUP AND INSTALLATION

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### 4.1 General Installation Guidelines

- Plan your installation carefully. Choose mounting locations that do not obstruct vehicle safety features or interfere with vehicle operation.
- Ensure adequate clearance behind speakers for proper excursion and to prevent damage.
- Use appropriate tools for cutting and drilling.

### 4.2 Woofer Installation

The 6.5-inch woofers require a mounting hole diameter of **4-13/16 inches (123 mm)** and a bottom mount depth of **1-3/4 inches (45 mm)**. Ensure the mounting surface is rigid and free from obstructions. Secure the woofers using the provided screws and clips.



*This image displays the woofer cone and surround without the grille, revealing the central phase plug.*



*This image illustrates the mounting depth and overall construction of the woofer from a side perspective.*

### **4.3 Tweeter Installation**

The 1-inch silk dome tweeters offer multiple mounting options, including flush mount. For flush mounting, a hole diameter of **1-3/4 inches (45 mm)** and a depth of **11/16 inches (17 mm)** are required. Utilize the included tweeter mounting hardware to achieve the desired installation style.



*This image shows the speaker with its protective grille installed, highlighting the integrated tweeter.*

#### **4.4 Crossover Network Installation**

The external crossover networks separate the audio signal into high and low frequencies for the tweeters and woofers, respectively. Mount the crossovers in a dry, accessible location, away from heat sources. Connect the amplifier output to the crossover's input, then connect the woofer and tweeter to their designated outputs on the crossover. The crossover features a **12dB per octave high-pass filter at 4,000Hz** for the tweeter and a **12dB per octave low-pass filter at 4,000Hz** for the woofer.

#### **4.5 Wiring**

Ensure all wiring connections are secure and maintain correct polarity (+ to + and - to -) to prevent phase issues. The system is rated for **4 Ohms impedance** and can handle up to **125 watts RMS (250 watts peak power)**. Use speaker wire of appropriate gauge for your amplifier's power output and wire run length.



*This image shows the back of the woofer, including the magnet structure and terminal connections.*

## 5. OPERATING INSTRUCTIONS

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### 5.1 Initial Power-Up and Testing

After completing the installation, reconnect the vehicle's battery. Turn on your head unit and amplifier. Start with the volume low and gradually increase it, listening for clear audio from all speakers. Check for any unusual noises or distortion.

### 5.2 Crossover Attenuation Adjustment

The crossover networks include a high-frequency output attenuation switch for the tweeters, allowing adjustment to **0dB, -4.5dB, or -9dB**. Experiment with these settings to achieve the desired balance between the tweeters and woofers, matching your listening preferences and vehicle acoustics.

### 5.3 Amplifier and Head Unit Settings

Adjust your amplifier's gain settings according to the manufacturer's recommendations to match the output of your head unit. Utilize your head unit's equalizer and sound processing features to fine-tune the audio output for optimal performance with your KSS6504 system.

## 6. MAINTENANCE

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- **Cleaning:** Use a soft, dry cloth to gently wipe down the speaker grilles and surrounds. Avoid using harsh chemicals or abrasive cleaners.
- **Connection Checks:** Periodically inspect all wiring connections for tightness and corrosion. Loose connections can lead to poor performance or damage.
- **Environmental Protection:** Protect the speakers from excessive moisture, direct sunlight, and extreme temperatures, which can degrade materials over time.

## 7. TROUBLESHOOTING

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- **No Sound:**
  - Check all wiring connections from the head unit to the amplifier, and from the amplifier to the crossovers and speakers.
  - Verify the amplifier is powered on and not in protection mode.
  - Ensure the head unit is functioning correctly and outputting audio.
- **Distorted Sound:**
  - Reduce the amplifier gain. If the gain is set too high, it can cause clipping and distortion.
  - Check the head unit's volume level and equalizer settings.
  - Ensure the speakers are not overdriven beyond their continuous power handling (125 watts RMS).
  - Verify the crossover attenuation setting is appropriate for your system.
- **Intermittent Sound:**
  - Inspect all speaker wire connections for looseness or corrosion.
  - Check for any frayed wires that might be shorting out.

## 8. SPECIFICATIONS

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<b>Woofer Size</b>	6.5 inches (160 mm)
<b>Tweeter Size</b>	1 inch (25 mm)
<b>Dome Material</b>	Silk
<b>Rated Impedance</b>	4 Ohms
<b>Peak Power Handling</b>	250 Watts
<b>Continuous Power Handling (RMS)</b>	125 Watts
<b>Sensitivity</b>	88 dB 1W, 1m
<b>Frequency Response</b>	35Hz - 21kHz
<b>Woofer Mounting Hole Diameter</b>	4-13/16 inches (123 mm)
<b>Woofer Bottom Mount Depth</b>	1-3/4 inches (45 mm)
<b>Flush Mount Tweeter Hole Diameter</b>	1-3/4 inches (45 mm)
<b>Flush Mount Tweeter Depth</b>	11/16 inches (17 mm)
<b>High Pass Crossover</b>	12dB, 4,000Hz

<b>Low Pass Crossover</b>	12dB, 4,000Hz
<b>High Frequency Output Attenuation</b>	0dB, -4.5dB, -9dB
<b>Model Number</b>	44KSS6504
<b>UPC</b>	713034079125

## 9. WARRANTY INFORMATION

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KICKER products are engineered for reliability and performance. This product is covered by a manufacturer's warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary by region and purchase date. For detailed warranty information, including coverage, limitations, and how to file a claim, please refer to the official KICKER website or contact KICKER customer support directly. Keep your proof of purchase for warranty validation.

## 10. SUPPORT

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For additional assistance, technical support, or frequently asked questions (FAQs) regarding your KICKER KSS6504 Component System, please visit the official KICKER website. You can typically find comprehensive support resources, product registration, and contact information for customer service on their site.

**KICKER Official Website:** [www.kicker.com](http://www.kicker.com)