

## KICKER 47KEYLOC

# Kicker 47KEYLOC Key Series Smart Powered Line-Out Converter User Manual

Model: 47KEYLOC | Brand: KICKER

[Overview](#)

[Setup](#)

[Operation](#)

[Maintenance](#)

[Troubleshooting](#)

[Specifications](#)

[Support](#)

## 1. PRODUCT OVERVIEW

The Kicker 47KEYLOC Key Series Smart Powered Line-Out Converter is designed to integrate aftermarket amplifiers with factory audio systems. This device intelligently detects the frequency range of your speaker leads, providing a clean, full-range signal for optimal audio performance. It features KICKER's FIT 2+ technology for versatile input sensitivity and includes an optional all-pass filter defeat to counteract factory time delay or equalization.



Figure 1: Top view of the Kicker 47KEYLOC, showing the KICKER logo, KEYLOC model name, and LED indicators for power and signal analysis.

## 2. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of your KEYLOC. Ensure all connections are secure and correctly polarized.

### 2.1. Wiring Connections

The KEYLOC requires power, ground, and speaker-level input connections from your factory head unit or amplifier, and provides RCA outputs for your aftermarket amplifier.

- **Power (ACC +12V):** Connect to a switched +12V source.
- **Ground (GND):** Connect to a solid chassis ground point.
- **Speaker Inputs (L+, L-, R+, R-):** Connect these to the speaker output wires from your factory head unit or amplifier.
- **RCA Outputs (L, R):** Connect these to the RCA inputs of your aftermarket amplifier.

- **Remote Output (REM OUT):** Provides a +12V turn-on signal for your aftermarket amplifier.



Figure 2: Rear view of the Kicker 47KEYLOC, showing the wiring harness input terminal and the HI/LO input sensitivity button.



Figure 3: Front view of the Kicker 47KEYLOC, displaying the RCA output jacks and the KEY button for signal analysis.

## 2.2. Input Sensitivity Setting

The KEYLOC features a versatile input sensitivity range. Use the HI/LO button on the input side to select the appropriate range for your factory system:

- **LO:** For input signals ranging from 125 mV to 10V.
- **HI:** For input signals ranging from 1V to 40V.

Most factory systems will require the HI setting. Refer to your vehicle's audio system specifications if unsure.

## 3. OPERATION AND SIGNAL ANALYSIS

The KEYLOC's primary function is to analyze and correct the factory audio signal. This process is automated and guided by LED indicators.

### 3.1. Automatic Signal Detection (KEY Process)

To initiate the signal analysis, follow these steps:

1. Ensure the KEYLOC is properly wired and powered on. The "PWR" LED should be illuminated.
2. Play a full-range test tone through your factory audio system. KICKER provides specific test tones on their official website for this purpose. Ensure the volume is set to a moderate level, typically around 75% of maximum, with all factory equalization (bass, treble, balance, fader) set to flat or center.
3. Press and hold the "KEY" button on the KEYLOC for approximately 3 seconds until the LEDs begin to flash.
4. The KEYLOC will analyze the incoming signal. The "1-Low", "2-Mid", "3-High", and "4-EQ" LEDs will illuminate to indicate the frequency range detected on the connected speaker wires.
  - **1-Low:** Indicates low-frequency signal detected.
  - **2-Mid:** Indicates mid-range frequency signal detected.
  - **3-High:** Indicates high-frequency signal detected.
  - **4-EQ:** Indicates that factory equalization or time delay has been detected and corrected.
5. Once the analysis is complete, the LEDs will stop flashing and remain illuminated according to the detected signal characteristics. This process automatically flattens the frequency response and corrects any factory time delay or all-pass filters.

This intelligent analysis eliminates the need for external oscilloscopes or Real-Time Analyzers (RTAs) to determine the signal characteristics.

## 4. MAINTENANCE

The Kicker 47KEYLOC is designed for reliable, long-term operation with minimal maintenance. Follow these guidelines to ensure its longevity:

- **Cleaning:** Use a soft, dry cloth to wipe the exterior of the unit. Avoid using harsh chemicals, solvents, or abrasive cleaners, as these can damage the finish or internal components.
- **Connections:** Periodically check all wiring connections to ensure they remain secure. Loose connections can lead to signal loss or intermittent performance.
- **Environment:** Ensure the unit is installed in a dry location, away from excessive heat, moisture, and direct sunlight. Proper ventilation is important to prevent overheating.

## 5. TROUBLESHOOTING

If you experience issues with your Kicker 47KEYLOC, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power (PWR LED off)	<ul style="list-style-type: none"><li>• Blown fuse on power wire.</li><li>• Loose or incorrect power/ground connection.</li><li>• No switched +12V signal.</li></ul>	<ul style="list-style-type: none"><li>• Check and replace fuse if necessary.</li><li>• Verify all power and ground connections are secure and correct.</li><li>• Ensure ACC +12V source is active when vehicle is on.</li></ul>

Problem	Possible Cause	Solution
No audio output	<ul style="list-style-type: none"> <li>• Incorrect speaker input wiring.</li> <li>• RCA cables not connected or faulty.</li> <li>• Amplifier not turning on or faulty.</li> <li>• KEYLOC not detecting signal (KEY process not completed).</li> </ul>	<ul style="list-style-type: none"> <li>• Double-check speaker input polarity and connections.</li> <li>• Verify RCA connections to amplifier. Test amplifier separately.</li> <li>• Ensure remote output from KEYLOC is connected to amplifier's remote input.</li> <li>• Perform the KEY process as described in Section 3.1.</li> </ul>
Distorted or poor sound quality	<ul style="list-style-type: none"> <li>• Input sensitivity (HI/LO) set incorrectly.</li> <li>• KEY process not performed or performed incorrectly.</li> <li>• Factory system volume too high/low during KEY process.</li> <li>• Poor quality input signal from factory system.</li> </ul>	<ul style="list-style-type: none"> <li>• Adjust HI/LO switch based on factory signal voltage.</li> <li>• Re-perform the KEY process with a proper test tone and factory volume setting.</li> <li>• Ensure factory EQ settings are flat during KEY process.</li> <li>• Consider if the factory signal itself is inherently poor.</li> </ul>
Amplifier stays on after vehicle is off (if using DC offset auto-on)	<ul style="list-style-type: none"> <li>• Factory head unit maintains residual voltage on speaker wires.</li> </ul>	<ul style="list-style-type: none"> <li>• If this is an issue, consider using a dedicated switched +12V source for the KEYLOC's ACC input instead of relying solely on DC offset detection for turn-on.</li> </ul>

## 6. SPECIFICATIONS

Key technical specifications for the Kicker 47KEYLOC:

Feature	Detail
Model Number	47KEYLOC
Product Dimensions (L x W x H)	13 x 10 x 1 inches
Weight	14.07 ounces
Input Voltage Range (LO)	0.125V - 10V
Input Voltage Range (HI)	1V - 40V
Manufacturer	Kicker

## 7. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the documentation included with your Kicker 47KEYLOC or visit the official KICKER website. Warranty terms and conditions may vary.

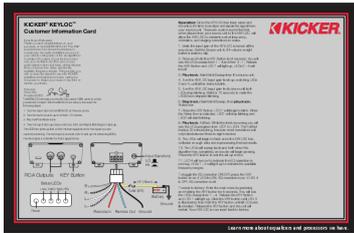
If you require technical assistance, have questions about installation, or need to troubleshoot an issue not covered in this

manual, please contact KICKER customer support directly. You can typically find contact information on the KICKER official website or through your authorized dealer.

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

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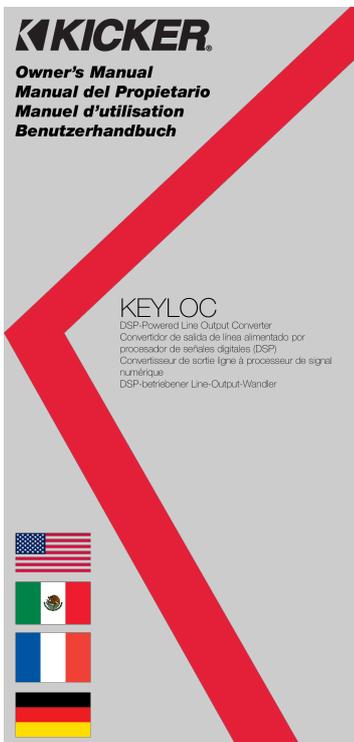
Documents - KICKER – 47KEYLOC



[\[pdf\]](#) Instructions

KICKER Equalizers Processors Instructions CARiD 47keyloc instructions images carid kicker items ||| KICKER KEYLOCTM Customer Information Card Dear Music Enthusiast, Thank you and congratulations on your purchase of the KICKER KEYLOC This DSP powered Line Out Converter promises to revolutionize the audio installation process in your vehicle. Using state-of-the-art algorithms to analyze the output ...

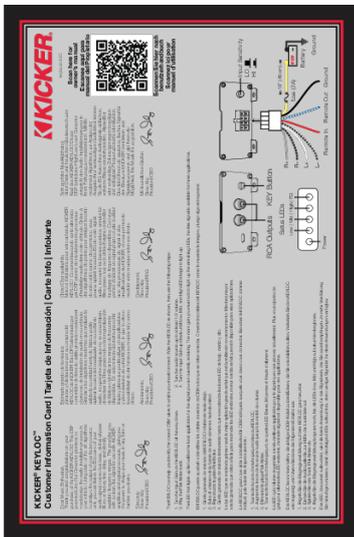
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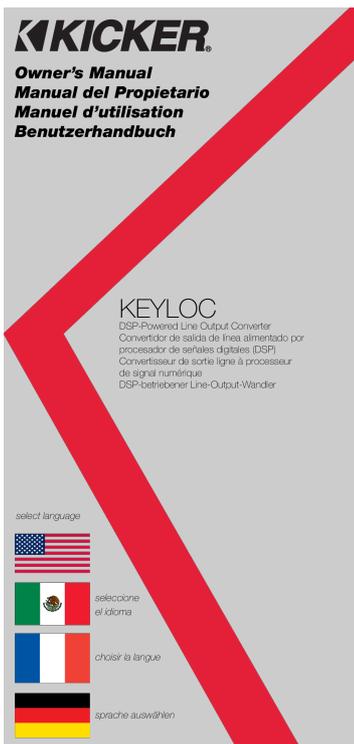
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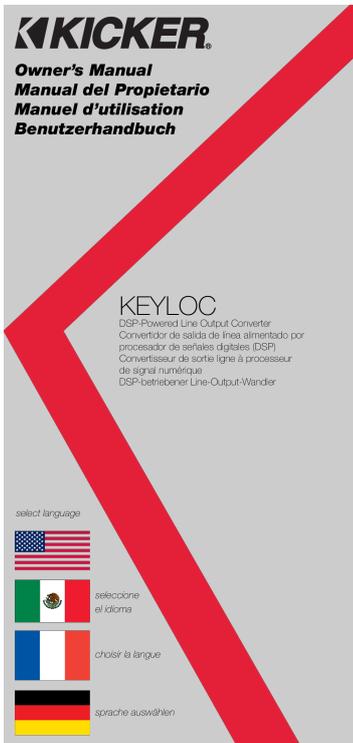
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[Kicker KEYLOC Owner's Manual: DSP-Powered Line Output Converter](#)

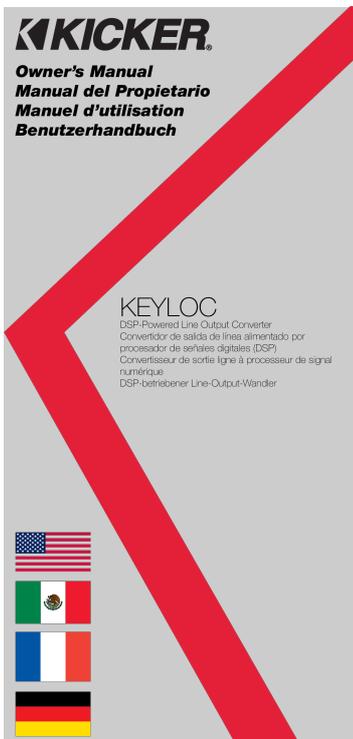
Comprehensive owner's manual for the Kicker KEYLOC, a 2-channel DSP-powered line output converter. Learn about installation, wiring, setup, features, and troubleshooting for optimizing your car audio system. lang:en score:23 filesize: 2.45 M page\_count: 94 document date: 2021-05-18



[KICKER KEYLOC DSP-Powered Line Output Converter Owner's Manual](#)

This manual provides instructions for the KICKER KEYLOC, a DSP-powered line output converter designed to integrate aftermarket amplifiers with OEM audio systems. It covers installation, wiring, setup, and troubleshooting.

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[\[pdf\] User Manual Owner's Manual Troubleshooting Guide Specifications Warranty](#)

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Owner s Manual Manual del Propietario Manuel d utilisation Benutzerhandbuch

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