

## KICKER BKM614L (45BKM614L)

# KICKER 45BKM614L 6-1/2" KM Series 2-Way Marine LED Speaker User Manual

Model: 45BKM614L

## 1. INTRODUCTION

Thank you for choosing the KICKER 45BKM614L 6-1/2" KM Series 2-Way Marine LED Speaker. This manual provides essential information for the proper installation, operation, and maintenance of your new marine speaker. Designed for durability and high-quality audio in marine environments, this speaker also features integrated LED lighting for enhanced aesthetics. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity.

This speaker is sold as a single unit. For stereo sound, two units are required.

## 2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the equipment:

- **Power Source:** Ensure the power source is disconnected before performing any wiring or installation.
- **Wiring:** Use appropriate gauge wiring for power and speaker connections. Incorrect wiring can lead to overheating or damage.
- **Mounting:** Securely mount the speaker in a location that can support its weight and withstand marine conditions. Ensure no critical components or wiring are obstructed behind the mounting surface.
- **Water Exposure:** While designed for marine use, avoid direct high-pressure water spray on the speaker cone or connections.
- **Temperature:** Do not expose the speaker to extreme temperatures outside its operating range.
- **Professional Installation:** If you are unsure about any part of the installation process, consult with a qualified marine audio technician.

## 3. PACKAGE CONTENTS

Please verify that all items are present in the package:

- One (1) KICKER 45BKM614L 6-1/2" KM Series 2-Way Marine LED Speaker
- Mounting Hardware (screws, clips, etc.)
- Wiring Harness for Speaker and LED connections
- User Manual (this document)

## 4. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your marine speaker. Follow these steps carefully:

#### 4.1 Mounting Location

Choose a flat, stable surface that can accommodate the speaker's dimensions and provide adequate clearance behind for wiring and ventilation. Ensure the location is not prone to excessive vibration or direct impact.

#### 4.2 Mounting the Speaker

1. Carefully mark the mounting holes using the speaker's frame or a template (if provided).
2. Drill pilot holes for the mounting screws. Ensure the drill bit size is appropriate to prevent stripping or cracking the mounting surface.
3. Place the speaker into the opening and align the mounting holes.
4. Secure the speaker using the provided mounting screws. Do not overtighten.



Figure 4.2.1: Side view of the Kicker 45BKM614L marine speaker, showing the depth and the attached wiring harness for both audio and LED connections.

#### 4.3 Wiring Connections

The speaker features separate connections for audio and LED lighting. Refer to the wiring diagram below for proper connections.

- **Audio Wiring:** Connect the speaker's positive (+) and negative (-) terminals to your marine audio amplifier or head unit's corresponding speaker outputs. Ensure correct polarity for optimal sound.
- **LED Wiring:** The integrated LED system requires a 12V DC power source. Connect the LED power wires to a switched 12V source, preferably through a fuse. The speaker comes with 7 pre-set LED colors. For advanced control (20 colors and 19 lighting modes), an optional KICKER KMLC LED lighting controller (sold separately) is required.

*Note:* Always use marine-grade wiring and connectors to prevent corrosion in the marine environment.

## 5. OPERATING INSTRUCTIONS

Once properly installed, operating your KICKER marine speaker is straightforward.

### 5.1 Audio Playback

Turn on your marine audio system. The speaker will reproduce audio from your connected source. Adjust volume and audio settings (bass, treble, balance, fader) on your head unit or amplifier as desired.

### 5.2 LED Lighting Control

The speaker's built-in LEDs can be controlled based on your wiring setup:

- **Basic Control (7 Colors):** If wired directly to a 12V source, the LED color can be selected by cycling power or through a simple switch (if installed). The speaker offers 7 standard colors.
- **Advanced Control (20 Colors, 19 Modes):** To unlock the full potential of the LED lighting, including 20 colors and 19 dynamic lighting modes, connect the speaker's LED wiring to a KICKER KMLC LED lighting controller (sold separately). Refer to the KMLC controller's manual for detailed operation instructions.



Figure 5.2.1: Examples of the Kicker 45BKM614L marine speaker illuminated with blue, red, and green LEDs, demonstrating its customizable lighting feature.

## 6. MAINTENANCE

To ensure the longevity and optimal performance of your KICKER marine speaker, follow these maintenance guidelines:

- **Cleaning:** Regularly wipe down the speaker grilles and cone with a soft, damp cloth to remove salt, dirt, and debris. Avoid using harsh chemicals or abrasive cleaners.
- **Connections:** Periodically inspect all wiring connections for corrosion or looseness. Clean and re-secure any compromised connections.
- **UV Protection:** The speaker features a UV-treated basket, but prolonged exposure to direct sunlight can still affect its appearance over time. Consider using a cover when the boat is not in use.
- **Winterization:** If storing your boat in freezing temperatures, ensure the speakers are protected from extreme cold and moisture.

## 7. TROUBLESHOOTING

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

| Problem | Possible Cause | Solution |
|---------|----------------|----------|
|---------|----------------|----------|

| Problem               | Possible Cause  | Solution   |
|-----------------------|---|--|
| No Sound from Speaker | Loose or incorrect audio wiring<br>Amplifier/Head unit off or malfunctioning<br>Speaker damaged | Check all audio connections for proper polarity and secure fit.<br>Verify amplifier/head unit power and settings.<br>Test with another known-good speaker if possible. |
| Distorted Sound       | Over-driven amplifier<br>Incorrect gain settings<br>Loose mounting                              | Reduce volume or amplifier gain.<br>Ensure amplifier gain is set correctly for your head unit's output.<br>Check speaker mounting screws for tightness.                |
| LEDs Not Illuminating | Loose or incorrect LED wiring<br>No 12V power to LED circuit<br>Blown fuse in LED circuit       | Verify all LED power and ground connections.<br>Check for 12V at the LED power wire.<br>Inspect and replace any blown fuses.   |

## 8. SPECIFICATIONS

Detailed technical specifications for the KICKER 45BKM614L Marine LED Speaker:

- **Speaker Type:** 6-1/2" (16.5 cm) KM Series 2-Way Marine Coaxial Speaker
- **Peak Power Handling:** 195 Watts
- **RMS Power Handling:** 65 Watts
- **Impedance:** 4 Ohms
- **Tweeter:** 1/2" (1.3 cm) PEI Dome Tweeter
- **Midwoofer Material:** Polypropylene
- **Surround Material:** Rubber
- **LED System:** Integrated, 7 Colors (Upgradable to 20 Colors and 19 Lighting Modes with KMLC controller)
- **Environmental Features:** Water Resistant Design, UV-Treated Basket
- **Country of Origin:** China
- **Model Number:** BKM614L (45BKM614L)

## 9. WARRANTY AND SUPPORT

KICKER products are engineered for performance and reliability. This product is covered by a limited warranty against defects in material and workmanship under normal use. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official KICKER website.

For technical support, troubleshooting assistance, or warranty claims, please contact KICKER Customer Service or an authorized KICKER dealer. You can find contact information on the official KICKER website ([www.kicker.com](http://www.kicker.com)).

Please have your product model number (45BKM614L) and purchase date available when contacting support.

