Skar Audio SKE2LOC

Skar Audio SKE2LOC 2-Channel Active Line Output Converter User Manual

Model: SKE2LOC

Introduction

This user manual provides comprehensive instructions for the installation, operation, and maintenance of the Skar Audio SKE2LOC 2-Channel Active Line Output Converter. Please read this manual thoroughly before installation and use to ensure proper function and to prevent damage to the unit or your vehicle's audio system. Retain this manual for future reference.



Figure 1: Skar Audio SKE2LOC 2-Channel Active Line Output Converter with remote level control.

Product Features

- 2-Channel Active Line Output Converter for integrating aftermarket amplifiers with factory audio systems.
- Selectable Turn-On Options: DC Offset Signal Sense, Audio Sense, and Remote 12V Output for flexible system integration.
- Fully Adjustable Bass Control and Main Channel Control for precise audio tuning.
- Wide Frequency Response: 21Hz - 30kHz, ensuring full-range audio signal conversion.
- Operating Voltage: 13.8 Volts DC.
- Includes Remote Level Control and Remote Wire for convenient bass adjustment from the driver's seat.

Safety Precautions

- Always disconnect the vehicle's negative battery terminal before beginning any installation.
- Ensure all wiring is properly insulated to prevent short circuits.

- Mount the SKE2LOC securely in a dry location, away from excessive heat or moisture.
- Consult a professional car audio installer if you are unsure about any part of the installation process.

Setup and Installation

Package Contents

- Skar Audio SKE2LOC Unit
- Remote Level Control Knob with Cable
- Power/Ground/Remote Wire Connector
- Speaker Input Connector

Wiring Diagram

Refer to the diagram below for proper wiring connections. Ensure all connections are secure and correctly polarized.



Figure 2: SKE2LOC Wiring Diagram showing speaker inputs, power connections, and RCA outputs to amplifiers.

Connection Steps

1. **Power Connection:** Connect the +12V terminal to a constant 12V power source (e.g., vehicle battery). Connect the GND terminal to a solid chassis ground point.
2. **Remote Turn-On:**
   - If using DC Offset Signal Sense or Audio Sense, the SKE2LOC will generate a remote output signal (REM OUT) for your amplifier. Connect this to your amplifier's remote input.
   - If using a dedicated 12V remote turn-on wire from your head unit, connect it to the REM IN terminal.
3. **Speaker Inputs:** Connect the high-level speaker outputs from your factory head unit or amplifier to the SKE2LOC's Speaker Inputs (L+, L-, R+, R-).
4. **RCA Outputs:** Connect the Main Output RCA cables to your full-range amplifier's input. Connect the Bass Output RCA cables to your subwoofer amplifier's input.
5. **Remote Level Control:** Plug the remote level control cable into the "Rmt Out" port on the SKE2LOC and mount the knob in an accessible location.





Figure 3: Left image shows the input terminals for power, remote, and speaker wires. Right image shows the RCA output connections.



Figure 4: The included remote level control knob and cable.

Operating the SKE2LOC

Adjustable Controls

The SKE2LOC features several adjustable controls to optimize audio performance:

- **Threshold:** Adjusts the sensitivity for the DC Offset Signal Sense turn-on mode.
- **Main Output Level:** Controls the output level for the main RCA outputs.
- **Bass Output Level:** Controls the output level for the bass RCA outputs.
- **Remote Level Control:** Provides convenient adjustment of the bass output level from the driver's seat.



Figure 5: Top view of the SKE2LOC showing the Threshold, Main Output Level, and Bass Output Level controls.

Setting Turn-On Mode

Use the "Trigger Mode" switch to select how the SKE2LOC turns on:

- **REM IN:** The unit turns on when a 12V signal is applied to the REM IN terminal.
- **DC:** The unit senses a DC offset on the speaker inputs to turn on. Adjust the Threshold knob for optimal performance.
- **Audio:** The unit senses an audio signal on the speaker inputs to turn on.

Ground Isolation

The "Ground Isolation" switch helps eliminate ground loop noise:

- **GND:** Direct ground connection.
- **ISO:** Isolated ground connection.
- **200Ω:** Ground connection through a 200 Ohm resistor.

Experiment with these settings if you experience noise in your audio system.

Load Select

The "Load Select" switch adjusts the input impedance for compatibility with various factory head units:

- **20Ω:** 20 Ohm load.
- **60Ω:** 60 Ohm load.
- **20kΩ:** 20 Kilo-Ohm load.

Select the setting that provides the cleanest signal without distortion.

Maintenance

The Skar Audio SKE2LOC requires minimal maintenance. Keep the unit clean and free from dust and debris. Do not expose the unit to water or excessive moisture. Periodically check all wiring connections to ensure they remain secure.

Troubleshooting

Problem	Possible Cause	Solution
No audio output.	No power to SKE2LOC; incorrect input/output connections; incorrect turn-on mode.	Check power and ground connections. Verify speaker input and RCA output connections. Adjust "Trigger Mode" switch.
Distorted audio.	Input signal too high; output levels set too high; incorrect "Load Select" setting.	Reduce input signal from head unit. Lower Main Output Level and Bass Output Level. Adjust "Load Select" switch.
Engine noise/whine.	Ground loop interference.	Adjust "Ground Isolation" switch (GND, ISO, 200Ω) to find the setting that eliminates noise. Ensure proper grounding.
Unit does not turn on.	No remote signal; incorrect "Trigger Mode" setting.	Check remote wire connection. Ensure "Trigger Mode" is set appropriately (REM IN, DC, or Audio) and Threshold is adjusted if using DC.

Specifications

Feature	Specification
Model Number	SKE2LOC
Channels	2-Channel
Type	Active Line Output Converter
Frequency Response	21Hz - 30kHz
Operating Voltage	13.8 Volts DC (Nominal 12 Volts)
Input Voltage	12 Volts
Output Voltage	12 Volts (RCA Output)
Dimensions (L x W x H)	7 x 3 x 1 inches
Weight	1.81 Pounds
Plug Format	Type RCA and Type Speaker Wire

Warranty and Support

For warranty information and technical support, please visit the official Skar Audio website or contact their customer service department. Keep your purchase receipt as proof of purchase for any warranty claims.

Skar Audio Official Website: www.skaraudio.com

Amazon Store Page: Skar Audio Amazon Store

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Example: How do I reset this device or fix this error?

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Answered questions about this manual

If the Skar Audio SKE2LOC is hooked up to the factory Alpine stereo subwoofer channel in my 2014 Ram EcoDiesel, should I use the Main RCA output or the Bass RCA output?

When using the Skar Audio SKE2LOC with a factory subwoofer signal, you should generally use the Bass Output RCA cables to connect to your aftermarket subwoofer amplifier.According to the manual, the SKE2LOC provides two...

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