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Ematic HL-101

Ematic HL-101 XO Vision 2 Channel High to Low Converter User Manual

Model: HL-101

INTRODUCTION

The Ematic HL-101 XO Vision 2 Channel High to Low Converter is designed to integrate aftermarket amplifiers into vehicle audio systems that lack RCA pre-amp outputs. It converts high-level speaker outputs from your car stereo into low-level RCA signals, allowing for a clean audio signal to your amplifier. This unit also features a built-in 12V remote turn-on function.

SAFETY INFORMATION

- Always disconnect the vehicle's battery before installation to prevent electrical shorts.
- Ensure all wiring connections are secure and properly insulated to avoid short circuits and damage to equipment.
- Mount the converter in a dry location, away from excessive heat, moisture, and moving parts.
- Consult a professional car audio installer if you are unsure about any part of the installation process.

PACKAGE CONTENTS

- Ematic HL-101 XO Vision 2 Channel High to Low Converter
- *(Note: Additional items like wiring harnesses or mounting hardware may be included depending on the specific retail package.)*

PRODUCT OVERVIEW

The HL-101 features a compact design with clear housing, allowing visibility of internal components. It includes RCA output jacks and a multi-wire harness for connections.

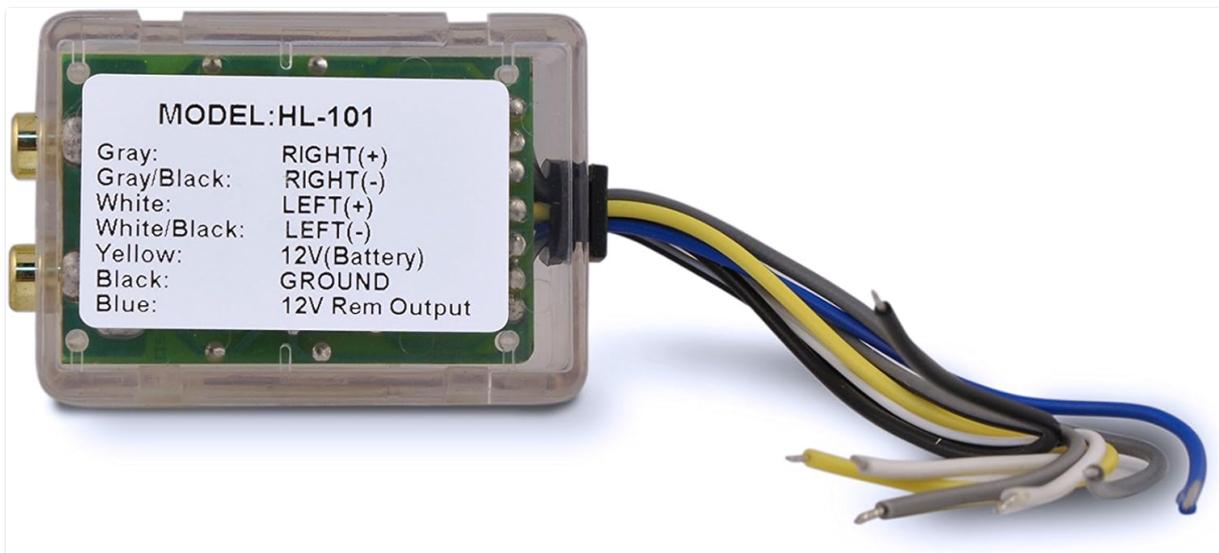


Figure 1: Top view of the Ematic HL-101 converter, showing the wiring harness and connection labels.



Figure 2: Side view of the Ematic HL-101 converter, highlighting the RCA output jacks.

SETUP AND INSTALLATION

Follow these steps for proper installation of your HL-101 converter:

1. **Disconnect Battery:** Before starting, disconnect the negative terminal of your vehicle's battery.
2. **Identify Speaker Wires:** Locate the speaker output wires from your car's head unit (stereo). Refer to your vehicle's wiring diagram if necessary.
3. **Wire Connections:** Connect the HL-101's input wires to the corresponding speaker wires from your head unit. Refer to the wiring diagram below and on the device label (Figure 1).
 - **Gray:** RIGHT(+) Speaker Input
 - **Gray/Black:** RIGHT(-) Speaker Input
 - **White:** LEFT(+) Speaker Input
 - **White/Black:** LEFT(-) Speaker Input
 - **Yellow:** 12V (Battery) Power Input
 - **Black:** GROUND
 - **Blue:** 12V Remote Output (to amplifier's remote turn-on input)
4. **Power and Ground:** Connect the Yellow wire to a constant 12V power source (e.g., directly to the battery with an inline fuse, or a fused accessory wire). Connect the Black wire to a good chassis ground point.
5. **RCA Output:** Connect RCA cables from the HL-101's RCA output jacks (Figure 2) to the RCA input jacks on

your aftermarket amplifier.

- 6. Remote Turn-On:** Connect the Blue wire from the HL-101 to the remote turn-on input of your amplifier. This will turn on your amplifier when the head unit is powered on.
- 7. Secure Wiring:** Ensure all connections are soldered or crimped securely and insulated with electrical tape or heat shrink tubing.
- 8. Mount Converter:** Securely mount the HL-101 in a suitable location, ensuring it is not exposed to excessive heat or moisture.
- 9. Reconnect Battery:** Once all connections are verified, reconnect the negative terminal of your vehicle's battery.

OPERATION

The Ematic HL-101 automatically converts the high-level speaker signals to low-level RCA outputs. The unit features a single dial for level matching. Adjust this dial to achieve a balanced audio output between your head unit and amplifier, ensuring optimal sound quality without distortion.

The built-in 12V remote turn-on feature will automatically activate your amplifier when your car's head unit is turned on, eliminating the need for a separate remote wire from the head unit.

MAINTENANCE

The Ematic HL-101 requires minimal maintenance. Keep the unit clean and free from dust and debris. Periodically check all wiring connections to ensure they remain secure and free from corrosion. Avoid exposing the unit to extreme temperatures or moisture.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound from amplifier	No power to HL-101; Incorrect wiring; Amplifier not turning on.	Check 12V (Yellow) and Ground (Black) connections. Verify speaker input wires (Gray, Gray/Black, White, White/Black) are correctly connected. Ensure Blue remote wire is connected to amplifier and amplifier is receiving power.
Distorted sound	Input level too high; Improper gain settings on amplifier.	Adjust the level dial on the HL-101. Reduce the gain settings on your amplifier. Ensure speaker wires are not reversed (+/-).
Engine noise/whine	Ground loop interference.	Ensure the HL-101's ground wire is connected to a clean, solid chassis ground. Check for proper grounding of all audio components.

SPECIFICATIONS

- **Model:** HL-101
- **Brand:** Ematic
- **Number of Channels:** 2
- **Maximum Supply Voltage:** 12 Volts
- **Connectivity Technologies:** RCA

- **Material:** Aluminum (housing)
- **Product Dimensions (L x W x H):** 6.2 x 3.75 x 1 inches
- **Item Weight:** 0.352 ounces

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your purchase or visit the official Ematic website. Keep your proof of purchase for warranty claims.