

Audio System HLC-2 Plus

Audio System HLC-2 Plus 2-Channel High-Low Converter User Manual

Model: HLC-2 Plus (Part No. 020020112)

1. INTRODUCTION

This manual provides essential instructions for the proper installation, operation, and maintenance of your Audio System HLC-2 Plus 2-Channel High-Low Converter. Please read this manual thoroughly before using the device to ensure optimal performance and safety. Keep this manual for future reference.

2. SAFETY INSTRUCTIONS

- Ensure all connections are secure and properly insulated to prevent short circuits.
- Disconnect the vehicle's battery before performing any wiring to avoid electrical shock or damage to the system.
- Do not expose the device to moisture or extreme temperatures.
- Installation should be performed by a qualified professional if you are unsure about any steps.
- Mount the converter in a location where it is protected from physical damage and excessive heat.

3. PACKAGE CONTENTS

- Audio System HLC-2 Plus 2-Channel High-Low Converter
- Wiring Harness (if applicable, based on image)
- Remote Control Unit (if applicable, based on image)
- User Manual (this document)

4. PRODUCT OVERVIEW



Figure 1: Audio System HLC-2 Plus 2-Channel High-Low Converter. The image displays the main converter unit, a black rectangular box with a rotary knob for level adjustment (Min to Max) and a 'POWER' button. Two RJ-style cables with clear plastic connectors are shown connected to the unit, representing the wiring harness for signal input/output and remote turn-on.

The Audio System HLC-2 Plus is a 2-channel high-low converter designed to integrate aftermarket amplifiers with factory car stereos that lack RCA pre-outs. It converts high-level speaker signals into low-level RCA signals, providing a clean audio output for your amplifier. Key features include:

- Compatibility with all original OEM radios.
- 2-way high-low conversion with remote turn-on signal generation.
- Designed to prevent interference and turn-on noise.
- Excellent sound quality through PSA and 5-volt technology.
- Features a plug-in connection terminal for ease of installation.
- Fast and accurate music recognition.

5. SETUP AND INSTALLATION

5.1 Wiring Diagram (General)

A detailed wiring diagram is crucial for correct installation. While specific diagrams may vary, the general connections are as follows:

1. **High-Level Input:** Connect the speaker outputs from your factory radio to the high-level inputs of the HLC-2 Plus. Ensure correct polarity (positive to positive, negative to negative) for each channel.
2. **Low-Level Output:** Connect the RCA outputs from the HLC-2 Plus to the RCA inputs of your aftermarket amplifier.
3. **Remote Turn-On:** The HLC-2 Plus generates a remote turn-on signal. Connect this output to the remote input of your amplifier. This will turn on your amplifier automatically when the factory radio is

powered on.

4. **Power/Ground:** The unit typically draws power from the high-level input signal, eliminating the need for a separate power wire. Ensure a good ground connection if specified by the manufacturer.

5.2 Installation Steps

1. **Disconnect Battery:** Always disconnect the negative terminal of your vehicle's battery before starting any electrical work.
2. **Access Speaker Wires:** Locate and access the speaker output wires from your factory head unit or amplifier.
3. **Connect High-Level Inputs:** Splice the factory speaker wires to the corresponding high-level input wires of the HLC-2 Plus. Use high-quality connectors or solder for secure connections.
4. **Connect RCA Outputs:** Run RCA cables from the HLC-2 Plus to your aftermarket amplifier.
5. **Connect Remote Wire:** Connect the remote output wire from the HLC-2 Plus to the remote turn-on input of your amplifier.
6. **Mount the Converter:** Securely mount the HLC-2 Plus in a dry, accessible location, away from heat sources and moving parts.
7. **Reconnect Battery:** Once all connections are verified, reconnect the vehicle's battery.

6. OPERATING INSTRUCTIONS

6.1 Initial Power-Up

After installation, turn on your vehicle's ignition and then the factory radio. The HLC-2 Plus should automatically detect the audio signal and send a remote turn-on signal to your amplifier, powering it on.

6.2 Level Adjustment

The HLC-2 Plus features a rotary knob (Min-Max) for adjusting the output level. This allows you to match the output signal of the converter to the input sensitivity of your amplifier. Start with the knob at the minimum setting and gradually increase it while listening for distortion. Adjust until a clean, strong signal is achieved without clipping at the amplifier.

6.3 Power Button

The 'POWER' button on the unit is typically an indicator or a manual override. Refer to specific product documentation if its function deviates from automatic operation.

7. MAINTENANCE

- Keep the unit clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Ensure all wiring connections remain secure over time. Periodically check for loose connections.
- Avoid exposing the unit to direct sunlight or extreme heat, which can affect its lifespan.
- No user-serviceable parts are inside. Do not attempt to open or repair the unit yourself.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No sound from amplifier	Incorrect wiring; No remote signal; Amplifier not powered; HLC-2 Plus not receiving signal.	Check all wiring connections (high-level input, RCA output, remote). Ensure factory radio is on and producing sound. Verify amplifier power and ground connections.
Distorted sound	Output level too high; Incorrect gain settings on amplifier.	Reduce the output level on the HLC-2 Plus. Adjust amplifier gain settings.
Amplifier does not turn on	Remote wire not connected; HLC-2 Plus not detecting signal.	Verify remote wire connection from HLC-2 Plus to amplifier. Ensure factory radio is on and playing audio.
Engine noise/Whine	Ground loop issue; Poor wiring.	Ensure all components are properly grounded. Check for damaged or unshielded RCA cables.

9. SPECIFICATIONS

- **Model:** HLC-2 Plus
- **Part Number:** 020020112
- **Channels:** 2-Channel
- **Max Speaker Output Power:** 70 Watts (input handling)
- **Impedance:** 4 Ohm (input impedance)
- **Control Method:** Remote Control (via generated turn-on signal)
- **Power Source:** Vehicle's 12V electrical system (typically signal-sensing)
- **Weight:** Approximately 997.9 g (2.2 pounds)

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact Audio System customer service. Keep your proof of purchase for warranty claims.

	<p>Audio System SUBFRAME RIO FLAT EVO 2 Series User Manual and Technical Specifications</p> <p>Comprehensive user manual and technical specifications for the Audio System SUBFRAME RIO FLAT EVO 2 series car audio subwoofer enclosures, including installation tips and safety guidelines.</p>
	<p>Audio System X-80.4 DSP-BT High-Performance Car Amplifier Owner's Manual</p> <p>Comprehensive owner's manual for the Audio System X-80.4 DSP-BT high-performance car amplifier, covering features, power connection, RCA connection, speaker connection, troubleshooting, and specifications.</p>
	<p>Audio System CARBON Series Car Amplifiers: CARBON-500.1D & CARBON-250.4 Owner's Manual</p> <p>Comprehensive owner's manual for Audio System's CARBON Series high-performance car amplifiers, including the CARBON-500.1D and CARBON-250.4. This guide covers features, installation, power and RCA connections, speaker wiring, troubleshooting, and detailed specifications.</p>
	<p>Audio System H-5000.1 D High-Performance Car Amplifier Owner's Manual</p> <p>Comprehensive owner's manual for the Audio System H-5000.1 D high-performance car amplifier, covering features, power and RCA connections, speaker wiring, troubleshooting, and technical specifications. Learn how to safely install and operate your amplifier.</p>
	<p>AUDIO SYSTEM HX Series EVO3 Car Speaker User Manual & Installation Guide</p> <p>Comprehensive user manual and installation guide for AUDIO SYSTEM HX Series EVO3 car speakers, including crossover settings, impedance linearization, and mounting tips. Features GERMAN SOUND quality.</p>
	<p>AUDIO SYSTEM XFIT Installation Manual for Skoda Octavia 5E / Superb 3V</p> <p>Comprehensive installation manual for AUDIO SYSTEM XFIT car speakers, detailing component setup, wiring, and mounting tips for Skoda Octavia 5E and Superb 3V models. Includes technical specifications and optional accessories.</p>