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› AudioControl LC6i Black 6 Channel Line Out Converter Instruction Manual

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1. INTRODUCTION

1.1 Product Overview

The AudioControl LC6i is a 6-channel line output converter designed to integrate aftermarket amplifiers with factory audio systems. It features internal summing capabilities and GTO (Great Turn-On) signal sensing for automatic turn-on. This device allows for the addition of external amplifiers to improve sound quality and power without replacing the factory head unit.



Figure 1: Front view of the AudioControl LC6i Black 6 Channel Line Out Converter.

1.2 Key Features

- **Six Speaker Level Inputs:** Capable of accepting up to 400 Watt signals.
- **GTO Signal-Sensing Input:** Automatically turns on the unit when an audio signal is detected.
- **Internal Channel Summing:** Combines multiple input channels to create a full-range output.
- **Line Output Converter:** Converts speaker-level signals to low-level RCA outputs for aftermarket amplifiers.
- **AutoMode:** Converts a 4-channel input into a 6-channel output for flexible system expansion.

2. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. It is recommended that installation be performed by a qualified professional. Ensure the vehicle's battery is disconnected before beginning any wiring.

2.1 Wiring Connections

The LC6i requires connections for power, ground, remote turn-on, speaker-level inputs, and RCA outputs to your aftermarket amplifier(s).

- **Power (+12V):** Connect to a constant +12V source from the vehicle's battery, fused appropriately.
- **Ground:** Connect to a solid chassis ground point in the vehicle.
- **Remote In:** Connect to the remote turn-on lead from your head unit or use the GTO signal sensing feature.
- **Remote Out:** Provides a +12V remote turn-on signal for your aftermarket amplifiers.
- **Speaker Level Inputs:** Connect the factory speaker wires to the corresponding input terminals (Main, Channel 2, Channel 3). Observe correct polarity.
- **RCA Outputs:** Connect these to the RCA inputs of your aftermarket amplifiers.



Figure 2: Top view of the LC6i showing input and output terminals, and output level controls.



Figure 3: Rear view of the LC6i showing RCA output connections.

2.2 Initial Configuration

After all connections are made, ensure the output level controls are set to their minimum position before powering on the system. Adjust these levels carefully during the initial setup to prevent speaker damage.

3. OPERATION

3.1 Output Level Adjustment

The LC6i features independent output level controls for each channel pair (Main, Channel 2, Channel 3). These controls allow you to match the output voltage of the LC6i to the input sensitivity of your aftermarket amplifiers. Adjust these levels to achieve maximum clean output without distortion.

3.2 GTO Signal Sensing

The GTO (Great Turn-On) signal sensing feature automatically detects an audio signal from your factory head unit and turns on the LC6i, which then provides a remote turn-on signal to your amplifiers. This eliminates the need for a separate remote turn-on wire from the head unit.

3.3 Internal Summing

For factory systems with actively crossed-over speaker outputs (e.g., separate signals for tweeters, mid-range, and woofers), the LC6i's internal summing feature can combine these signals to create a full-range output. This is essential for providing a complete audio signal to your aftermarket amplifiers, especially for subwoofers.

4. MAINTENANCE

The AudioControl LC6i is designed for reliable operation and requires minimal maintenance. Follow these guidelines to ensure longevity:

- **Cleaning:** Keep the unit free from dust and debris. Use a soft, dry cloth for cleaning. Avoid liquid cleaners.
- **Environment:** Ensure the unit is installed in a dry environment, away from excessive heat or moisture.
- **Connections:** Periodically check all wiring connections to ensure they are secure and free from corrosion.

5. TROUBLESHOOTING

If you encounter issues with your LC6i, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Power Indicator Light	No +12V power, poor ground, blown fuse, or faulty remote turn-on.	Check power and ground connections. Verify fuse integrity. Ensure remote turn-on signal is present or GTO is active.
No Audio Output	No input signal, incorrect RCA connections, or output levels set too low.	Confirm speaker-level inputs are connected correctly. Check RCA cables to amplifiers. Increase LC6i output levels gradually.
Distorted Audio	Input signal too high, output levels set too high, or impedance mismatch.	Reduce input signal if possible. Lower LC6i output levels. Ensure proper impedance matching with amplifiers.
Unit Does Not Turn On/Off with Head Unit	GTO not enabled or remote wire issue.	Verify GTO signal sensing is functioning or check the remote turn-on wire connection.

6. SPECIFICATIONS

- **Brand:** AudioControl
- **Model:** LC6i Black
- **Number of Channels:** 6
- **Mounting Type:** Table Top
- **Interface Type:** Coaxial
- **Item Dimensions (L x W):** 11.5" x 8.19"
- **Included Components:** LC6i-UA
- **UPC:** 855814005853
- **ASIN:** B01E06R1C4

7. WARRANTY INFORMATION

The AudioControl LC6i comes with a **30-Day Warranty**. Please retain your proof of purchase for any warranty claims. For detailed warranty terms and conditions, refer to the documentation included with your product or visit the AudioControl official website.

8. CUSTOMER SUPPORT

If you require further assistance with installation, operation, or troubleshooting that is not covered in this manual, please contact AudioControl customer support. Refer to the product packaging or the AudioControl website for contact information and additional resources.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

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

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question