

# 2 Channel Line Output Converter Wiring Diagram

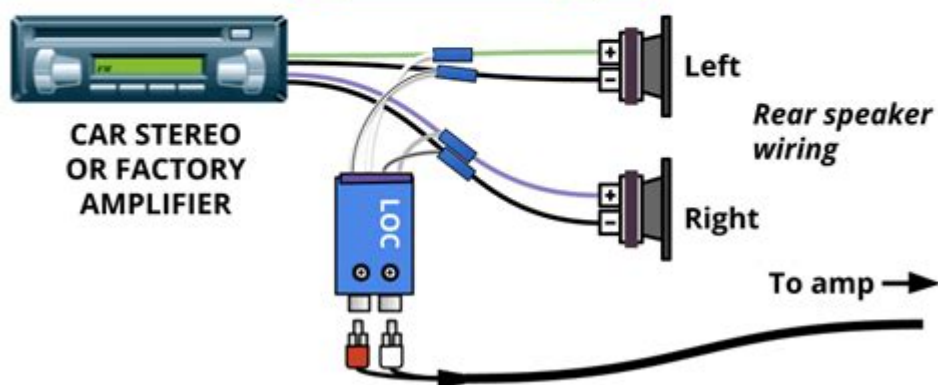
## Line out converter installation examples

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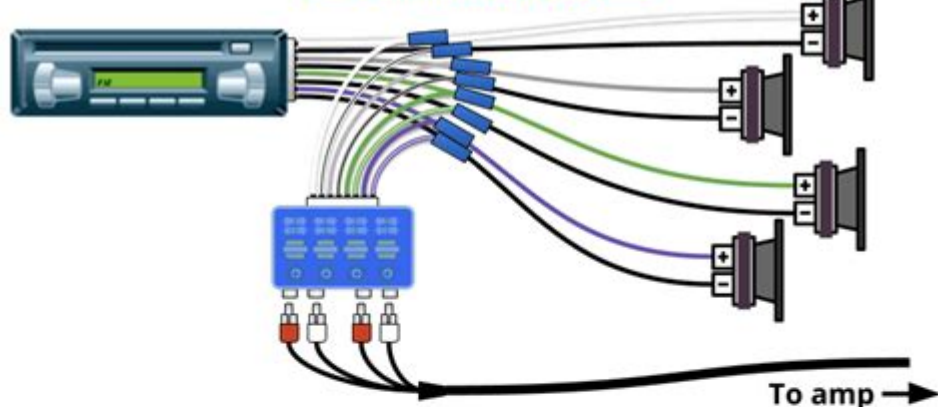
### 1 Connecting a line out converter in parallel with speakers in use

*Most line out converters can be used with speakers still connected. They can be wired in parallel with existing speakers at any point but doing so at the head unit is typically the best choice.*

(2 channel example)



(4 channel example)



### 2 Connecting a line out converter without speakers in use

*If needed, you can disconnect existing speakers and connect a LOC to unused speaker outputs if preferred. The LOC's internal resistance will act as a safe speaker load to the stereo or amp while producing a line level RCA output.*



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**2 channel line output converter wiring diagram** is an essential topic for anyone looking to enhance their car audio system. A line output converter (LOC) is a device that transforms high-level

speaker signals into low-level RCA signals, allowing you to connect aftermarket amplifiers or subwoofers to your factory stereo system. In this article, we will explore how to wire a 2-channel line output converter, its benefits, and a step-by-step guide for installation.

## Understanding the Line Output Converter

A 2-channel line output converter is used primarily in vehicles where the factory stereo system does not have RCA outputs. This device allows you to tap into the speaker wires and convert the high-level signals into low-level signals suitable for use with external amplifiers. Here are some key points about LOCs:

- **Functionality:** It converts speaker level signals (typically ranging from 1 to 20 volts) to line level signals (typically around 0.5 to 2 volts).
- **Compatibility:** LOCs are compatible with almost all aftermarket amplifiers and subwoofers.
- **Quality:** They provide better sound quality and dynamic range than using a simple speaker-level input.

## Benefits of Using a 2 Channel Line Output Converter

Using a 2-channel line output converter has several advantages:

1. **Improved Sound Quality:** By providing a clean signal to the amplifier, a LOC helps to reproduce sound with greater fidelity.
2. **Easy Installation:** Wiring a LOC is relatively simple and can be done without professional help if you follow the proper guidelines.
3. **Cost-Effective Solution:** It is a budget-friendly solution for upgrading your car audio system without replacing the entire factory setup.
4. **Versatile Use:** LOCs can be used in various audio setups, not just for subwoofers.

## Wiring Diagram Overview

Before diving into the wiring process, it's important to understand the basic components of a 2-channel line output converter. A typical wiring diagram includes:

- Power and ground connections
- Input connections from the factory stereo
- Output connections to the amplifier

The wiring diagram typically consists of the following components:

1. Input Wires: Connect to the speaker wires from the factory head unit.
2. Output Wires: Connect to the RCA cables leading to the amplifier.
3. Power Wire: Connects to the vehicle's battery or ignition.
4. Ground Wire: Connects to a solid metal ground in the vehicle.

## Step-by-Step Wiring Guide

To make the installation process easier, follow this step-by-step guide to wire your 2-channel line output converter:

### Tools and Materials Needed

Before you start, gather the following tools and materials:

- 2-channel line output converter
- Wire strippers
- Electrical tape or heat shrink tubing
- RCA cables
- Phillips and flathead screwdrivers
- Multimeter (optional, for checking connections)

### Step 1: Disconnect the Battery

Safety first! Before working on your car's audio system, disconnect the negative terminal of the battery. This will help prevent any electrical shorts or shocks during installation.

### Step 2: Access the Factory Stereo Wiring

To install the LOC, you need to access the speaker wires from the factory stereo. This typically involves removing the stereo from the dashboard:

1. Use the appropriate screwdriver to remove screws securing the stereo.
2. Carefully pull the stereo out, ensuring not to damage any wires.

3. Locate the speaker wires; refer to the vehicle's service manual for specific wire colors.

## **Step 3: Connect the Input Wires**

Once you have identified the speaker wires, proceed with connecting the input wires from the LOC:

1. Identify the Positive and Negative Wires: For each channel (left and right), identify the positive and negative speaker wires.
2. Strip the Wires: Use wire strippers to remove about half an inch of insulation from the ends of the speaker wires.
3. Connect to LOC: Connect the positive wire from the speaker to the corresponding input wire on the LOC. Do the same for the negative wires.
4. Secure the Connections: Use electrical tape or heat shrink tubing to secure and insulate the connections.

## **Step 4: Connect the Output Wires**

Now, connect the output wires of the LOC to the RCA cables leading to your amplifier:

1. Identify RCA Outputs: Locate the RCA output jacks on the LOC.
2. Connect RCA Cables: Plug the RCA cables into the corresponding outputs (left and right).
3. Route RCA Cables: Route the RCA cables toward the amplifier location, securing them as needed.

## **Step 5: Power and Ground Connections**

For the LOC to function, it requires power and a ground connection:

1. Power Connection: Connect the power wire from the LOC to the positive terminal of the battery or to an ignition source for switched power.
2. Ground Connection: Connect the ground wire from the LOC to a clean metal surface in the vehicle. Ensure that the ground connection is secure to avoid noise in the audio system.

## **Step 6: Reconnect the Battery**

Once all connections are made and secured, reconnect the negative terminal of the battery. Ensure that the wiring is tidy and that there is no risk of short circuits.

## **Step 7: Test the System**

Before finalizing the installation:

1. Power On the Stereo: Turn on the vehicle's stereo.

2. Adjust the Volume: Gradually increase the volume to test the output from the LOC.
3. Check for Clarity: Listen for any distortion or noise, adjusting the LOC's gain if necessary.

## Final Thoughts

Installing a **2 channel line output converter wiring diagram** is a straightforward process that can significantly enhance your car audio experience. By converting high-level speaker signals to low-level RCA signals, you can connect aftermarket amplifiers and improve sound quality. With the right tools and careful attention to detail, you can successfully complete this installation and enjoy the enhanced audio dynamics in your vehicle. Always remember to refer to the specific wiring guides for your vehicle and LOC model for the best results.

## Frequently Asked Questions

### What is a 2 channel line output converter used for?

A 2 channel line output converter is used to convert a high-level speaker signal to a low-level RCA signal, allowing you to connect aftermarket amplifiers or audio devices to factory car stereos.

### How do I wire a 2 channel line output converter to my car stereo?

To wire a 2 channel line output converter, connect the high-level input wires from the factory stereo to the converter's input terminals, and then connect the RCA output jacks to the amplifier. Make sure to connect the ground properly to avoid noise.

### Can I use a 2 channel line output converter with a subwoofer?

Yes, you can use a 2 channel line output converter with a subwoofer by connecting the output of the converter to a subwoofer amplifier, allowing you to integrate a subwoofer into your existing audio system.

### What are the common wiring colors for a 2 channel line output converter?

Common wiring colors for a 2 channel line output converter include: red for the right positive input, black for the right negative input, white for the left positive input, and gray for the left negative input. Always double-check with the specific converter's manual.

### Do I need to use a remote turn-on wire with a 2 channel line output converter?

It depends on the setup. Some line output converters have a built-in remote turn-on feature that automatically activates when the stereo is turned on, while others may require a separate remote turn-on wire to trigger the amplifier.

## What issues might arise if the 2 channel line output converter is not wired correctly?

If the 2 channel line output converter is not wired correctly, you may experience issues such as poor sound quality, distortion, humming or buzzing noises, or the amplifier not turning on at all. Proper wiring is essential for optimal performance.

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## 2 Channel Line Output Converter Wiring Diagram

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Discover how to easily install your audio system with our comprehensive 2 channel line output converter wiring diagram. Learn more for step-by-step instructions!

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