

NVX XMICROLOC4

NVX XMICROLOC4 4-Channel Line Output Converter Instruction Manual

Model: XMICROLOC4

INTRODUCTION

The NVX XMICROLOC4 is a 4-channel line output converter designed to seamlessly integrate aftermarket amplifiers with factory OEM (Original Equipment Manufacturer) stereo systems. This device allows you to add an amplifier to your vehicle's existing audio setup without replacing the factory head unit, providing enhanced sound quality and power for your car audio system.

KEY FEATURES

- **High-Powered 4-Channel Output Converter:** The NVX XMICROLOC4 is a 4-channel, 600W line output converter (150W per channel) designed to integrate aftermarket amplifiers with factory OEM stereos.
- **Premium Audio Performance:** Equipped with a premium input circuit that corrects crossover distortion, this converter ensures clear, accurate signal conversion for optimal sound quality.
- **Adjustable Outputs for Custom Tuning:** The 6:1 step-down ratio with individual adjustable outputs allows for precise control over the audio signal, enabling fine-tuning for balanced sound.
- **Built-in Remote Turn-On Trigger:** A 12-volt output for amplifier remote turn-on is integrated, enabling easy amplifier activation whenever the stereo is powered on.
- **Compact & Easy Installation:** The compact design allows for easy installation in tight spaces, making it a practical solution for adding an amplifier to a factory system.

PRODUCT OVERVIEW



Figure 1: Main product view of the NVX XMICROLOC4, showing the top panel with the NVX logo, gain adjustment screws, and the multi-color wiring harness extending from the unit.



Figure 2: Top view of the NVX XMICROLOC4, highlighting the four blue gain adjustment screws (labeled 'L' for left and 'R' for right channels) and the NVX branding.



Figure 3: Side view of the NVX XMICROLOC4, clearly showing the four RCA output jacks. Two red jacks indicate right channels, and two white jacks indicate left channels for amplifier connection.

INSTALLATION GUIDE

Safety Precautions

- Always disconnect the vehicle's negative battery terminal before performing any electrical work to prevent short circuits and damage.
- Ensure all connections are secure and properly insulated to avoid electrical hazards.
- Consult a professional car audio installer if you are unsure about any installation steps.

Mounting the XMICROLOC4

Choose a secure, dry location within the vehicle, such as under the dashboard, behind the stereo, or in the trunk. Ensure the location is away from direct heat sources and allows for adequate ventilation. The compact design of the XMICROLOC4 facilitates installation in tight spaces.

Wiring Connections

1. **Speaker Level Inputs:** Connect the speaker wires from your factory stereo's speaker outputs to the corresponding input terminals on the XMICROLOC4's wiring harness. Ensure correct polarity (positive to positive, negative to negative) for each channel (Front Left, Front Right, Rear Left, Rear Right). Refer to your vehicle's wiring diagram for speaker wire identification.
2. **RCA Outputs:** Connect RCA cables from the XMICROLOC4's RCA output jacks to the input jacks of your aftermarket amplifier. Match the front outputs of the XMICROLOC4 to the front inputs of the amplifier, and the rear outputs to the rear inputs.
3. **Remote Turn-On:** Connect the blue 12-volt remote output wire from the XMICROLOC4's harness to the remote turn-on input terminal of your amplifier. This connection will automatically activate your amplifier when the factory stereo is turned on.
4. **Ground Connection:** Connect the black ground wire from the XMICROLOC4's harness to a clean, unpainted metal surface on the vehicle chassis. A solid ground connection is crucial for optimal performance and to prevent noise.

OPERATING INSTRUCTIONS

Gain Adjustment

The NVX XMICROLOC4 features individual adjustable outputs for each channel, allowing for precise control over the audio signal level. After completing the installation and reconnecting the vehicle's battery:

1. Turn on your factory stereo and aftermarket amplifier.
2. Set the volume on your factory stereo to approximately 75% of its maximum level.
3. Using a small flat-head screwdriver, slowly adjust the gain controls on the top of the XMICROLOC4 (labeled 'L' and 'R' for each channel pair). Start with the lowest gain setting and gradually increase it until the desired output level is achieved without any audible distortion.
4. The 6:1 step-down ratio helps manage signal levels effectively, ensuring a clean signal to your amplifier. Adjust the amplifier's gain settings as needed after setting the XMICROLOC4's gains.

SPECIFICATIONS



Figure 4: Diagram illustrating the dimensions and key specifications of the NVX XMICROLOC4.

Feature	Specification
Model	XMICROLOC4
Channels	4-Channel
Power Handling	600W (150W per channel)
Voltage	12 Volts
Minimum Supply Voltage	12 Volts
Step-down Ratio	6:1
Mounting Type	Surface Mount
Special Features	Premium Input Circuit, Individual Adjustable Outputs, 12-Volt Remote Turn-On Output

TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound from amplifier/speakers	<ul style="list-style-type: none"> • Incorrect wiring connections • Amplifier not powered on • Factory stereo not producing sound • No remote turn-on signal 	<ul style="list-style-type: none"> • Verify all speaker level input and RCA output connections. • Check amplifier power and ground connections. • Ensure factory stereo is functioning correctly. • Confirm remote turn-on wire is connected and receiving signal.

Distorted or unclear sound	<ul style="list-style-type: none"> • Gain settings too high • Poor ground connection • Incorrect speaker polarity 	<ul style="list-style-type: none"> • Reduce gain settings on the XMICROLOC4 and/or amplifier. • Ensure a clean, secure ground connection for the XMICROLOC4 and amplifier. • Verify correct speaker wire polarity for all inputs.
Amplifier does not turn on	<ul style="list-style-type: none"> • Remote turn-on wire disconnected or faulty • XMICROLOC4 not receiving speaker level input signal 	<ul style="list-style-type: none"> • Check the remote turn-on wire connection from the XMICROLOC4 to the amplifier. • Verify that the factory stereo is on and sending speaker level signals to the XMICROLOC4.

MAINTENANCE




The NVX XMICROLOC4 is designed for reliable operation with minimal maintenance. To ensure its longevity and optimal performance:




- Keep the unit free from dust and debris. Use a soft, dry cloth for cleaning.
- Avoid exposing the unit to excessive moisture or extreme temperatures.
- Periodically check all wiring connections to ensure they remain secure.

WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or service inquiries, please refer to the official NVX website or contact NVX customer support directly. Keep your purchase receipt as proof of purchase for any warranty claims.

Related Documents - XMICROLOC4

	<p>NVX V-Series Premium Class-D Amplifiers User Manual</p> <p>Explore the NVX V-Series Premium Class-D Amplifiers with this detailed user manual. Learn about installation, features, specifications, and warranty for models like VAD10001v2, VAD8402v2, and VAD22008v2. Optimize your car audio system with NVX's high-performance amplifiers.</p>
	<p>NVX VADM Series Owner's Manual</p> <p>Owner's manual for the NVX VADM series audio amplifier, detailing installation, connections, and safe operation.</p>
	<p>NVX XC-Series Subwoofers User Manual and Specifications</p> <p>User manual for NVX XC-Series subwoofers, including detailed specifications, enclosure recommendations, and warranty information for models XCW121, XCW122, XCW151, and XCW152.</p>

	<p>NVX XDSP28 Bluetooth Digital Signal Processor User Manual</p> <p>Comprehensive user manual for the NVX XDSP28 Bluetooth Digital Signal Processor, covering installation, control panel functions, audio processing, troubleshooting, and warranty information.</p>
	<p>NVX XLCA2 2-Channel Digital Bass Enhancer Owner's Manual</p> <p>Owner's manual for the NVX XLCA2 2-Channel Line Output Digital Bass Enhancer, detailing features, specifications, functions, signal connections, warranty, and introduction.</p>
	<p>Crestron DM NVX AV-over-IP System Design Guide</p> <p>A comprehensive design guide for the Crestron DM NVX AV-over-IP system, detailing endpoint and network design, installation procedures, and case studies for digital video and audio distribution over Ethernet.</p>