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Massive Audio E4

Massive Audio Nano Edge Monoblock Amplifier E4 User Manual

Brand: Massive Audio | Model: E4

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Massive Audio Nano Edge Monoblock Amplifier E4. Please read this manual thoroughly before attempting installation or operation to ensure proper function and safety.



Image 1.1: Top-down view of the Massive Audio Nano Edge Monoblock Amplifier E4, showcasing its compact design and branding.

2. SAFETY INFORMATION

- Always disconnect the vehicle's battery negative terminal before starting any electrical work.
- Ensure all wiring is properly insulated and secured to prevent short circuits and damage.
- Use appropriate gauge wiring for power and ground connections as specified in the installation section.
- Mount the amplifier securely in a location that allows for adequate ventilation and is protected from moisture and excessive heat.
- If you are unsure about any part of the installation process, seek assistance from a qualified professional car audio installer.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm (Proposition 65 warning).

3. PRODUCT FEATURES

- RMS Power: 2000 watts x 1 channel
- Peak Power: 4000 watts x 1 channel
- RMS Power @ 2 Ohms: 1000 watts x 1 channel
- Minimum Impedance: 1 Ohm stable
- Frequency Response: 10Hz - 220Hz
- Compact Nano Edge design
- Built with Circuit Board and Metal components
- CTA-2006 compliant

4. SPECIFICATIONS

Specification	Value
Model Number	E4
Brand	Massive Audio
RMS Power (1 Ohm)	2000W x 1
Peak Power	4000W x 1
RMS Power (2 Ohms)	1000W x 1
Minimum Impedance	1 Ohm
Frequency Response	10Hz - 220Hz
Dimensions (L x W x H)	14.3 x 5.9 x 2.1 inches
Item Weight	9.23 pounds
Operating Voltage	12 Volts (DC)
Maximum Supply Voltage	15 Volts (DC)
Number of Channels	1
Material	Circuit Board, Metal

5. INSTALLATION AND SETUP

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

5.1 Mounting Location

Choose a mounting location that is dry, well-ventilated, and secure. Avoid mounting the amplifier directly on carpet or in enclosed spaces without airflow. Ensure the amplifier is protected from direct sunlight and moisture.



Image 5.1: Example of the amplifier installed in a vehicle trunk, demonstrating a typical mounting scenario with other audio components.

5.2 Wiring Connections

Refer to the diagram below for proper wiring connections. Use high-quality, appropriate gauge wiring for all connections.



Image 5.2: Rear panel of the amplifier, detailing the power, ground, remote (REM IN/OUT), and speaker output terminals. Note the 1 Ohm minimum impedance marking.

- **Power (12V):** Connect to the positive terminal of the vehicle's battery using a fuse or circuit breaker within 18 inches of the battery. Ensure the fuse/breaker is rated appropriately for the amplifier's power draw.
- **Ground (GND):** Connect to a clean, unpainted metal surface on the vehicle chassis. The ground wire should be as short as possible.
- **Remote (REM IN/OUT):** Connect to the remote turn-on output of your head unit. This signal turns the amplifier on and off with your car's audio system.
- **Speaker Output:** Connect your subwoofer(s) to the speaker terminals. Ensure the total impedance of your speakers matches the amplifier's minimum impedance rating (1 Ohm).
- **CAP:** This terminal is for an optional external capacitor, if used.

6. CONTROLS AND ADJUSTMENTS (OPERATION)

The amplifier features various controls to fine-tune its performance to your audio system and preferences.



Image 6.1: Control panel of the amplifier, highlighting the input and adjustment knobs for optimal sound configuration.

- **LINE IN (RCA):** Connect your head unit's RCA output to these inputs. The amplifier supports automatic high-level inputs if RCA is not used.
- **LEVEL:** Adjusts the input sensitivity of the amplifier to match the output voltage of your head unit. Start with the level control

at minimum and slowly increase until desired volume is achieved without distortion.

- **SUBSONIC:** A high-pass filter for very low frequencies, typically below the audible range, to protect subwoofers from over-excursion. Adjustable from 10Hz to 60Hz.
- **LPF (Low Pass Filter):** Controls the upper frequency limit of the amplifier's output. Adjustable from 60Hz to 220Hz. This ensures only low frequencies are sent to your subwoofer.
- **BASS BOOST:** Provides an adjustable boost to bass frequencies. Use sparingly to avoid distortion. Adjustable from 0dB to 12dB.
- **FREQ (Bass Boost Frequency):** Selects the center frequency for the bass boost. Adjustable from 30Hz to 120Hz.
- **PROTECT Indicator:** Illuminates if the amplifier enters protection mode due to overheating, short circuit, or low voltage.
- **POWER Indicator:** Illuminates when the amplifier is powered on and operating normally.

7. TROUBLESHOOTING

If you experience issues with your amplifier, consult the following troubleshooting guide before contacting support.

- **No Power:**
 - Check the in-line fuse or circuit breaker near the battery.
 - Verify all power, ground, and remote connections are secure and properly wired.
 - Ensure the remote turn-on wire is receiving 12V from the head unit.
- **No Sound:**
 - Check RCA input connections from the head unit to the amplifier.
 - Verify speaker wire connections at both the amplifier and the subwoofer.
 - Ensure the head unit is on and outputting audio.
 - Adjust the LEVEL control on the amplifier.
- **Distorted Sound:**
 - Reduce the LEVEL control on the amplifier.
 - Check speaker impedance to ensure it is within the amplifier's rated limits (minimum 1 Ohm).
 - Ensure speaker wires are not shorted or touching the vehicle chassis.
 - Adjust LPF, SUBSONIC, and BASS BOOST settings.
- **Amplifier Goes into Protection Mode (PROTECT light on):**
 - Check for short circuits in speaker wiring.
 - Ensure adequate ventilation around the amplifier to prevent overheating.
 - Verify the vehicle's charging system is providing stable voltage (12-15V DC).
 - Check speaker impedance.

8. MAINTENANCE

The Massive Audio Nano Edge Monoblock Amplifier E4 requires minimal maintenance to ensure long-term performance.

- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Connections:** Annually check all power, ground, remote, and speaker connections to ensure they are tight and free from corrosion.
- **Ventilation:** Ensure that the amplifier's cooling fins are free from dust and debris to maintain proper heat dissipation.

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your purchase or contact Massive Audio directly. For technical support or further assistance, please visit the official Massive Audio website or contact your authorized retailer. You can also find more information and support on the Massive Audio Store on Amazon.