

EDGE EDX5000.1FD-E0

Edge Audio Xtreme Series EDX5000.1FD-E0 Monoblock Amplifier Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Edge Audio Xtreme Series EDX5000.1FD-E0 Monoblock Amplifier. The EDX5000.1FD-E0 is a high-performance Class D full-bridge amplifier designed for powerful audio output. Please read this manual thoroughly before attempting installation or operation to ensure proper use and to prevent damage.

1.1 Safety Precautions

- Always disconnect the vehicle's battery negative terminal before making any electrical connections.
- Ensure all wiring is properly routed and secured to prevent damage or short circuits.
- Use appropriate gauge wiring for power and ground connections as specified in this manual.
- Avoid mounting the amplifier in locations exposed to moisture or excessive heat.
- Consult a professional installer if you are unsure about any part of the installation process.

2. PACKAGE CONTENTS

Verify that all items are present in the package before proceeding with installation.

- Edge Audio EDX5000.1FD-E0 Monoblock Amplifier
- Remote Bass Control Unit
- Wiring for Remote Bass Control



Image 2.1: Contents of the EDX5000.1FD-E0 package, including the amplifier, remote bass control, and connecting cable.



Image 2.2: The retail packaging for the Edge Audio EDX5000.1FD-E0 Monoblock Amplifier.

3. FEATURES

The Edge Audio Xtreme Series EDX5000.1FD-E0 amplifier incorporates advanced features for optimal audio performance:

- Monoblock power amplifier design for dedicated subwoofer applications.
- Max Power: 10,000 watts.
- Built-in active crossovers (High-Pass Filter and Low-Pass Filter) for precise sound shaping.
- Adjustable Bass Boost circuit for enhanced low-frequency response.
- Ultra-efficient Class D topology for high power output with minimal heat generation.
- Wideband frequency response up to 20kHz.
- Full bridge technology for efficient power delivery.
- Compact footprint for versatile installation options.
- Dimensions (H x W x D): 2.5 x 10.4 x 9.1 inches (64 x 264 x 230mm).



Image 3.1: Top view of the EDX5000.1FD-E0 amplifier, showcasing its compact design and heatsink fins.

4. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your amplifier. Follow these guidelines carefully.

4.1 Mounting Location

Mount the amplifier in a dry, well-ventilated area, away from direct sunlight or heat sources. Ensure sufficient airflow around the amplifier's heatsink. The amplifier is designed for surface mounting.

4.2 Wiring Connections

All wiring should be securely connected and insulated to prevent short circuits. Use high-quality, appropriate gauge wiring.

4.2.1 Power Connections

Connect the amplifier to the vehicle's electrical system as follows:

- **+12V (Power):** Connect a heavy-gauge power cable (e.g., 4 AWG or larger for 10,000W max power) directly from the positive terminal of the vehicle's battery to the +12V terminal on the amplifier. Install an appropriate fuse (not supplied) within 18 inches of the battery.
- **GND (Ground):** Connect a heavy-gauge ground cable of the same size as the power cable from the GND terminal on the amplifier to a clean, unpainted metal surface of the vehicle chassis. Ensure a solid electrical connection.
- **REM (Remote Turn-On):** Connect a smaller gauge wire (e.g., 18 AWG) from the REM terminal on the amplifier to the remote turn-on output of your head unit. This wire turns the amplifier on and off with your audio system.



Image 4.1: Power input terminals (+12V, REM, GND) on the EDX5000.1FD-E0 amplifier.

4.2.2 Audio Input Connections

Connect your head unit's RCA outputs to the 'LOW INPUT' RCA jacks on the amplifier.

4.2.3 Speaker Output Connections

Connect your subwoofer(s) to the speaker output terminals on the amplifier. Ensure correct polarity (+ to + and - to -) for optimal performance. Refer to your subwoofer's specifications for impedance matching.



Image 4.2: Rear panel of the EDX5000.1FD-E0 amplifier, showing low-level inputs, crossover controls, gain, bass boost, and speaker output terminals.

5. OPERATING INSTRUCTIONS

Once installed, adjust the amplifier settings for optimal sound quality.

5.1 Control Panel Overview

Refer to Image 4.2 for the location of the following controls:

- **HPF (High-Pass Filter):** Adjusts the high-pass crossover frequency. For subwoofer applications, this should typically be set to its minimum or off, as a low-pass filter is usually preferred.
- **LPF (Low-Pass Filter):** Adjusts the low-pass crossover frequency (15Hz - 200Hz). This filters out frequencies above the set point, sending only low frequencies to the subwoofer. Set this according to your subwoofer and system requirements, typically between 60Hz and 100Hz.
- **GAIN:** Matches the amplifier's input sensitivity to the output level of your head unit. Start with the gain at minimum, then slowly increase it until you hear distortion, then back off slightly. Do not use the gain control as a volume knob.
- **BASS BOOST:** Adjusts the level of bass enhancement (0dB - 12dB). Use sparingly to avoid distortion.
- **FREQ (Bass Boost Frequency):** Selects the center frequency for the bass boost (35Hz - 70Hz).
- **REMOTE:** Port for connecting the wired remote bass control unit.

5.2 Remote Bass Control

The included remote bass control allows for convenient adjustment of the subwoofer output level from the driver's seat. Connect it to the 'REMOTE' port on the amplifier.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and performance of your amplifier.

- **Cleaning:** Periodically clean the amplifier's exterior with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners. Ensure ventilation fins are free of dust and debris.
- **Connection Check:** Annually inspect all power, ground, remote, and speaker connections for tightness and corrosion. Loose connections can cause performance issues or damage.
- **Environment:** Ensure the amplifier remains in a dry, stable environment, protected from extreme temperatures.

7. TROUBLESHOOTING

If you experience issues with your amplifier, refer to the following common problems and solutions before contacting support.

- **No Power:**
 - Check the in-line fuse near the battery.
 - Verify +12V, GND, and REM connections are secure and receiving power.
 - Ensure the remote turn-on wire is connected to a switched 12V source.
- **No Sound:**
 - Check all RCA input and speaker output connections.

- Verify head unit is powered on and outputting audio.
- Adjust the GAIN control.

- **Distorted Sound:**

- Reduce the GAIN setting.
- Check speaker wiring for shorts or incorrect polarity.
- Ensure speaker impedance matches amplifier specifications.
- Reduce BASS BOOST if active.

- **Amplifier Overheating:**

- Ensure adequate ventilation around the amplifier.
- Check speaker impedance; running too low an impedance can cause overheating.
- Verify power and ground wire gauge is sufficient.


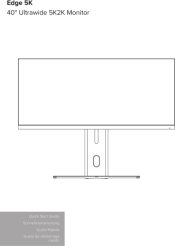



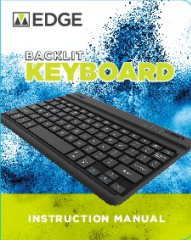
8. SPECIFICATIONS

Technical specifications for the Edge Audio Xtreme Series EDX5000.1FD-E0 Monoblock Amplifier:

Feature	Specification
Model Number	EDX5000.1FD-E0
Brand	EDGE
Amplifier Type	Monoblock, Class D, Full Bridge
Max Power	10,000 Watts
Frequency Response	Up to 20kHz
Built-in Crossovers	Active (HPF, LPF)
Bass Boost	Adjustable (0-12dB)
Bass Boost Frequency	Adjustable (35Hz-70Hz)
Voltage	230 Volts (Operating Voltage Range typically 12-14.4V DC for car audio)
Mounting Type	Surface Mount
Product Dimensions (H x W x D)	2.5 x 10.4 x 9.1 inches (64 x 264 x 230mm)
Product Weight	6.61 Pounds

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided at the time of purchase or contact your authorized Edge Audio dealer. Keep your proof of purchase for warranty claims.

	<p>EDGE 2 System Wiring Diagrams and Technical Specifications</p> <p>Comprehensive guide to the wiring diagrams and technical specifications for the EDGE 2 system, including main controllers, screenless controllers, remote displays, and expansion boxes. Details power supply configurations, communication protocols, and various wiring scenarios for different components.</p>
	<p>Edge 5K 40\" Ultrawide 5K2K Monitor Quick Start Guide</p> <p>Concise guide for setting up and using the Edge 5K 40-inch Ultrawide 5K2K Monitor. Includes information on multilingual support and user manual details.</p>
	<p>EDGE Subwoofer Manual: EDP122-E6, EDP122SPL-E6, EDP152SPL-E6</p> <p>Comprehensive owner's manual for EDGE subwoofers, covering installation, operation, TS parameters, wiring, and warranty information for models EDP122-E6, EDP122SPL-E6, and EDP152SPL-E6.</p>
	<p>Uživatelský manuál 4G AOV bateriová kamera EDGE DB300L</p> <p>Podrobný uživatelský manuál pro 4G AOV bateriovou kameru EDGE DB300L, včetně instalace, nastavení, ukládání záznamu a používání aplikace CloudEdge.</p>
	<p>EDGE 201 Mechanical Gaming Keyboard User Manual and Features</p> <p>Detailed guide for the EDGE 201 Mechanical Gaming Keyboard, covering setup, features, software, and customization options. Learn about its functions, backlight control, macro programming, and system requirements.</p>
	<p>EDGE Backlit Keyboard Instruction Manual</p> <p>Comprehensive instruction manual for the EDGE Backlit Keyboard, detailing product features, specifications, pairing, charging, power saving, troubleshooting, and usage guidelines.</p>

