

EDGE EDBX1800.1D-E0

EDGE EDBX1800.1D-E0 DBX Series Monoblock Amplifier User Manual

Model: EDBX1800.1D-E0

1. INTRODUCTION

Thank you for purchasing the EDGE EDBX1800.1D-E0 DBX Series Monoblock Amplifier. This amplifier is designed to deliver powerful and clear audio performance for your vehicle's sound system. This manual provides essential information for proper installation, operation, and maintenance to ensure optimal performance and longevity of your amplifier. Please read this manual thoroughly before attempting installation or operation.

2. SAFETY INFORMATION

Always observe the following safety precautions during installation and operation:

- Disconnect the vehicle's battery negative terminal before starting any electrical work.
- Ensure all wiring is correctly routed and secured to prevent damage or short circuits.
- Use appropriate gauge wiring for power and ground connections as specified in this manual.
- Install the amplifier in a well-ventilated area, away from direct sunlight, heat sources, and moisture.
- Do not operate the amplifier if it is damaged or malfunctioning. Seek professional assistance.
- Avoid listening to audio at excessively high volumes for prolonged periods, as this can cause hearing damage.

3. PRODUCT OVERVIEW

3.1 Key Features

- Configuration: Monoblock
- Topology: Class D
- RMS @ 4 Ohms Mono: 1 x 650 W
- RMS @ 2 Ohms Mono: 1 x 1200 W
- RMS @ 1 Ohms Mono: 1 x 1800 W
- Max Power: 3600 W
- Frequency Response: 10 Hz - 180 Hz

- Crossover Type: LP / Subsonic
- Crossover Range: 0 Hz - 180 Hz
- Recommended Fuse: 180 A (external fuse)

3.2 Included Components

- Amplifier
- Cable
- Remote control
- Manual

3.3 Amplifier Layout

The following images illustrate the various parts and connections of the EDBX1800.1D-E0 amplifier.



Figure 1: Top-down view of the EDGE EDBX1800.1D-E0 amplifier. This image displays the overall design of the amplifier, featuring a black extruded aluminum chassis with heat dissipation fins along the sides and a stylized 'E' logo on the top surface.



Figure 2: Input and Control Panel. This view highlights the amplifier's input section, including RCA input jacks (L/R), a remote bass control port, and adjustment knobs for Gain, LPF (Low Pass Filter), Subsonic filter, and Bass Boost. Status indicator LEDs for Protect and Power are also visible.



Figure 3: Power and Speaker Output Terminals. This image shows the robust screw terminals for power input (+12V, REM, GND) and dual speaker outputs. These terminals are designed to accommodate heavy gauge wiring for efficient power transfer.

4. SETUP AND INSTALLATION

4.1 Mounting Location

Choose a mounting location that is:

- Secure and dry, away from moisture.
- Well-ventilated to allow for proper heat dissipation.
- Protected from direct sunlight and extreme temperatures.
- Accessible for wiring and adjustments.

Common locations include under a seat, in the trunk, or mounted to a custom amplifier rack.

4.2 Wiring Connections

Before making any connections, ensure the vehicle's battery negative terminal is disconnected.

1. **Power Connection (+12V):** Connect a heavy gauge power cable (e.g., 4 AWG) from the vehicle's positive battery terminal to the +12V terminal on the amplifier. Install an appropriate fuse (180A recommended, external) within 18 inches (45 cm) of the battery.
2. **Ground Connection (GND):** Connect a heavy gauge ground cable (e.g., 4 AWG) from the GND terminal on the amplifier to a clean, unpainted metal surface on the vehicle chassis. The ground point should be as short as possible, ideally less than 3 feet (1 meter).
3. **Remote Turn-On Connection (REM):** 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 signals the amplifier to turn on and off with the head unit.
4. **RCA Input Connection:** Connect RCA cables from the pre-out (subwoofer output) of your head unit to the INPUT RCA jacks on the amplifier.
5. **Speaker Output Connection:** Connect your subwoofer(s) to the SPEAKER OUTPUT terminals. Ensure correct polarity (+ to + and - to -). Refer to your subwoofer's specifications for impedance matching. This amplifier is stable down to 1 Ohm.
6. **Remote Bass Control:** Connect the included remote bass control to the 'REMOTE' port on the amplifier using the provided cable.



Figure 4: Detailed view of the input and control panel. This image provides a closer look at the RCA input connections, the remote bass control port, and the various rotary controls for fine-tuning the amplifier's audio output.



Figure 5: Detailed view of the power and speaker output terminals. This image clearly shows the screw-type terminals for the +12V, REM (remote), and GND (ground) power connections, as well as the dual speaker output terminals, emphasizing their robust design.

5. OPERATING AND ADJUSTMENTS

After all connections are made and verified, reconnect the vehicle's battery negative terminal. Turn on your head unit. The 'POWER' LED on the amplifier should illuminate.

5.1 Control Panel Adjustments

- **GAIN:** This control matches the amplifier's input sensitivity to the output level of your head unit. Start with the gain at minimum. Play a familiar track at about 75% of your head unit's maximum volume. Slowly increase the amplifier's gain until you hear distortion, then back it off slightly.
- **LPF (Low Pass Filter):** This filter allows only frequencies below the set point to pass through to the subwoofer. Adjust this to blend the subwoofer's output with your main speakers. A common starting point is 80-100 Hz.
- **SUBSONIC:** This filter removes extremely low frequencies that are below the audible range and can cause damage to your subwoofer or waste amplifier power. Set this typically 5-10 Hz below your LPF setting or subwoofer's resonant frequency.
- **BOOST (Bass Boost):** This control provides an increase in output at a specific frequency (usually around 45 Hz). Use sparingly to avoid distortion and potential speaker damage.
- **FREQ (Bass Boost Frequency):** Adjusts the center frequency for the bass boost.

5.2 Remote Bass Control

The included remote bass control allows you to adjust the subwoofer output level from the driver's seat, providing convenient on-the-fly adjustments without needing to access the amplifier directly.

6. MAINTENANCE

The EDGE EDBX1800.1D-E0 amplifier requires minimal maintenance. To ensure optimal performance and longevity:

- Keep the amplifier clean and free of dust. Use a soft, dry cloth for cleaning.
- Ensure adequate ventilation around the amplifier. Do not block cooling fins.
- Periodically check all wiring connections for tightness and corrosion.
- Avoid exposing the amplifier to extreme temperatures or moisture.

7. TROUBLESHOOTING

If you experience issues with your amplifier, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Power (Power LED off)	Blown fuse, loose power/ground/remote wire, faulty head unit remote output.	Check external fuse, verify all power, ground, and remote connections. Test remote wire for +12V when head unit is on.
Amplifier in Protection Mode (Protect LED on)	Speaker short circuit, impedance too low, overheating, DC offset.	Check speaker wiring for shorts. Ensure speaker impedance is 1 Ohm or higher. Allow amplifier to cool down. Disconnect speakers and RCA inputs to check if protection clears.

Problem	Possible Cause	Solution
No Sound Output	RCA cables disconnected/damaged, gain set too low, speaker wires disconnected, head unit settings.	Verify RCA connections. Adjust gain. Check speaker wiring. Ensure head unit's subwoofer output is enabled and volume is up.
Distorted Sound	Gain set too high, LPF/Subsonic settings incorrect, poor ground connection, damaged speakers.	Reduce gain. Adjust LPF/Subsonic settings. Verify ground connection is solid. Inspect speakers for damage.
Engine Noise/Whine	Poor ground connection, RCA cables routed near power cables, faulty RCA cables.	Improve ground connection. Reroute RCA cables away from power cables. Try different RCA cables.

8. SPECIFICATIONS

Feature	Specification
Manufacturer	EDGE Car Audio
Item Model Number	EDBX1800.1D-E0
Configuration	Monoblock
Topology	Class D
RMS Power @ 4 Ohms Mono	1 x 650 W
RMS Power @ 2 Ohms Mono	1 x 1200 W
RMS Power @ 1 Ohm Mono	1 x 1800 W
Max Power	3600 W
Frequency Response	10 Hz - 180 Hz
Crossover Type	LP / Subsonic
Crossover Range	0 Hz - 180 Hz
Recommended Fuse	180 A (external)
Package Dimensions	49.29 x 27 x 9.2 cm; 4.11 kilograms
Number of items in package	1
Batteries Included	No
Batteries Required	No
Spare Parts Availability	Information unavailable

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or

contact your authorized EDGE dealer. Keep your proof of purchase for warranty claims.