

Power Acoustik EG110000D

Power Acoustik EG1-10000D Class D Monoblock Amplifier User Manual

Model: EG110000D

INTRODUCTION

The Power Acoustik EG1-10000D is a high-performance Class D monoblock amplifier designed for car audio systems. This manual provides essential information for the proper installation, operation, and maintenance of your amplifier to ensure optimal sound quality and product longevity. Please read all instructions carefully before attempting installation or operation.

SAFETY INFORMATION

Important Safety Warnings:

- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
- Ensure the amplifier receives the correct electrical supply current. Insufficient current (below 400-600 amps of 14V DC) can lead to overheating and potential failure. Proper wiring, batteries, connectors, and capacitors are crucial.
- The output circuit must maintain a minimum 1 Ohm load. Operating below this impedance can trigger the protection circuit.
- Continuously activating the protection circuit due to incorrect installation or impedance can cause excessive heat and shorten the product's lifespan.
- Always disconnect the vehicle's battery before performing any electrical work.

PACKAGE CONTENTS

Verify that all items are present in the package:

- Power Acoustik EG1-10000D Monoblock Amplifier
- Owner's Manual
- Dash Mount Remote Bass Control Knob
- Mounting Hardware (screws, etc.)

SETUP AND INSTALLATION

Proper installation is critical for the performance and longevity of your amplifier. It is recommended that installation be performed by a qualified professional.

Mounting the Amplifier

The EG1-10000D is designed for surface mounting. Choose a location that provides adequate ventilation and is protected from moisture and direct sunlight. Ensure the mounting surface is secure and can support the amplifier's weight.

1. Select a suitable mounting location.
2. Use the amplifier as a template to mark the mounting screw holes.
3. Drill pilot holes if necessary.
4. Secure the amplifier using the provided mounting hardware.

Electrical Connections

The amplifier requires a robust electrical system to deliver its rated power. Ensure your vehicle's electrical system can provide 400-600 amps of 14V DC current. This includes appropriate gauge wiring, high-capacity batteries, and quality connectors.

- **Power Input:** Connect the main power cable from the battery to the amplifier's +12V terminal. Use appropriate gauge wire for the current draw.
- **Ground Connection:** Connect a short, heavy-gauge ground cable from the amplifier's GND terminal to a clean, unpainted metal surface on the vehicle chassis.
- **Remote Turn-On:** Connect a remote turn-on wire from your head unit or other switched 12V source to the amplifier's REM terminal.
- **Speaker Output:** Connect your subwoofer(s) to the amplifier's speaker terminals. Ensure the total impedance of the connected subwoofers is no less than 1 Ohm for stable operation.

Remote Bass Control Knob

Connect the dash mount remote bass control knob to the designated port on the amplifier. This allows for convenient adjustment of bass levels from the driver's seat.

Linking Two Monoblocks

For increased power output, two EG1-10000D amplifiers can be linked together. Refer to the detailed wiring diagrams in the full owner's manual for specific instructions on linking two units for double power.



Figure 1: Power Acoustik EG1-10000D Class D Monoblock Amplifier. This image displays the amplifier with its white chassis, black heat sink fins, and various connection terminals on one side.

OPERATING INSTRUCTIONS

Once properly installed, the amplifier will power on with your head unit. Adjustments can be made using the controls on the amplifier and the remote bass knob.

- **Gain Control:** Adjust the gain setting to match the output voltage of your head unit. Start low and gradually increase until desired volume is achieved without distortion.
- **Low Pass Filter (LPF):** The amplifier features a variable 12dB low pass filter. Adjust this to control the upper

frequency limit of the audio signal sent to your subwoofers.

- **Subsonic Filter:** Utilize the variable subsonic filter to remove extremely low frequencies that are inaudible and can cause damage to subwoofers.
- **Bass Boost:** A 12dB bass boost feature is included to enhance low octave harmonics. Use this sparingly to avoid distortion.
- **Phase Shift:** An 180-degree phase shift control improves low octave dynamics and helps blend the subwoofer output with other speakers in the system.
- **Remote Bass Knob:** Use the dash mount remote bass control knob for real-time adjustment of the subwoofer output level.

MAINTENANCE

To ensure the longevity and optimal performance of your Power Acoustik EG1-10000D amplifier, follow these maintenance guidelines:

- Keep the amplifier clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Ensure adequate airflow around the amplifier to prevent overheating. Do not block ventilation openings.
- Regularly check all electrical connections for tightness and corrosion. Loose connections can lead to power loss and heat buildup.
- Avoid exposing the amplifier to extreme temperatures or moisture.

TROUBLESHOOTING

If you experience issues with your amplifier, refer to the following common troubleshooting steps:

- **No Power:** Check all power and ground connections. Verify the remote turn-on wire is receiving 12V. Check the inline fuse on the main power cable.
- **Protection Light On:** This indicates an issue with the installation or operation. Common causes include:
 - Insufficient electrical supply current (check wiring, battery, and charging system).
 - Speaker impedance below 1 Ohm (check subwoofer wiring and impedance).
 - Short circuit in speaker wiring.
 - Overheating (ensure proper ventilation).
- **No Sound:** Check RCA input connections from the head unit. Verify speaker connections. Ensure gain settings are not too low.
- **Distorted Sound:** Reduce gain settings. Check for proper LPF and subsonic filter adjustments. Ensure speaker impedance is correct.
- **Amplifier Gets Hot:** Some heat is normal, but excessive heat indicates a problem. This is often due to insufficient electrical supply current or an impedance load below 1 Ohm. Ensure proper ventilation and correct wiring.

If problems persist after following these steps, contact Power Acoustik customer support or a qualified car audio technician.

SPECIFICATIONS

Feature	Specification
Model Number	EG110000D
Brand	Power Acoustik

Feature	Specification
Output Power (RMS)	5000 Watts @ 1 Ohm
Number of Channels	1 (Monoblock)
Minimum Stable Impedance	1 Ohm
Voltage	14 Volts (Nominal)
Maximum Supply Voltage	14 Volts
Bass Boost	12dB
Phase Shift	180 Degrees
Mounting Type	Surface Mount
Dimensions (L x W x H)	24 x 11.25 x 4.25 inches
Item Weight	1.05 pounds
UPC	709483052840
Color	White

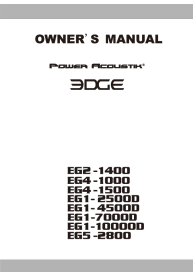
WARRANTY INFORMATION

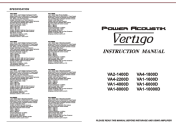




Specific warranty terms and conditions for the Power Acoustik EG1-10000D amplifier are provided by the manufacturer. Please refer to the warranty card included with your product or visit the official Power Acoustik website for detailed information regarding coverage, duration, and claims procedures.

CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or inquiries regarding your Power Acoustik EG1-10000D amplifier, please contact Power Acoustik customer support. Contact information can typically be found on the manufacturer's official website or in the product packaging.

Related Documents - EG110000D

	<p>Power Acoustik Car Amplifier Installation and Operation Manual</p> <p>Detailed guide for installing, connecting, and troubleshooting Power Acoustik car amplifiers, including specifications for models EG2-1400, EG4-1000, EG4-1500, EG1-2500D, EG1-4500D, EG1-70000D, EG1-10000D, and EG5-2800D.</p>
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	<p>Power Acoustik Vertigo Series Car Amplifiers: Instruction Manual & Specifications</p> <p>Comprehensive instruction manual and specifications for the Power Acoustik Vertigo series car amplifiers, including models VA2-1400D, VA1-1600D, VA4-1800D, VA1-4000D, VA4-2200D, VA1-6000D, VA1-8000D, and VA1-10000D. Features installation guides, wiring diagrams, adjustment procedures, and troubleshooting tips.</p>
	<p>Power Acoustik Class D Amplifiers: MA4-3000D, MA1-2300D, MA5-2500D - User Guide</p> <p>Detailed specifications, features, and installation guide for Power Acoustik's Class D Full Range & Monoblock Amplifiers, including models MA4-3000D, MA1-2300D, and MA5-2500D. Learn about power ratings, crossover settings, and wiring.</p>
	<p>Power Acoustik Vertigo Series Amplifier Instruction Manual</p> <p>Comprehensive instruction manual for the Power Acoustik Vertigo series car amplifiers, detailing specifications, installation, troubleshooting, and adjustments for models like VA2-1400D, VA1-1600D, VA4-1800D, VA1-4000D, VA4-2200D, VA1-6000D, VA1-8000D, and VA1-10000D.</p>
	<p>Power Acoustik RAZOR Series Class D Amplifiers - Product Manual and Specifications</p> <p>Detailed information on Power Acoustik RAZOR Series Class D Full Range & Monoblock Amplifiers, including features, specifications, power connections, speaker connections, pre-amp features, mounting, gain settings, troubleshooting, and warranty information.</p>
	<p>Power Acoustik RAZOR Series Class D Amplifiers: User Manual, Specs, and Installation Guide</p> <p>Comprehensive guide for Power Acoustik RAZOR series Class D full range and monoblock amplifiers (RZ4-1200D, RZ4-2000D, RZ1-1500D, RZ1-2300D). Includes detailed specifications, mounting instructions, power and input connections, pre-amp features, gain setting, troubleshooting, and warranty information.</p>