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Skar Audio RP-1200.1D

Skar Audio RP-1200.1D Monoblock Class D MOSFET Amplifier User Manual

Model: RP-1200.1D

1. INTRODUCTION

The Skar Audio RP-1200.1D Class D monoblock subwoofer amplifier is engineered for dominant power and reliability. It features premium internal components, including a high-speed MOSFET power supply and advanced PCB board layout. This amplifier is designed to deliver powerful and reliable performance for your car audio system.



Figure 1: Top view of the Skar Audio RP-1200.1D Monoblock Amplifier.

2. SAFETY INFORMATION

- **Professional Installation Recommended:** For optimal performance and safety, professional installation is highly recommended.
- **Power and Grounding:** Ensure proper 4-gauge power and ground connections to prevent electrical issues. Incorrect wiring can cause damage to the amplifier or vehicle.

- **Ventilation:** Mount the amplifier in a location that allows for adequate airflow to prevent overheating. The highly efficient heatsink design requires proper ventilation.
- **Protection Circuitry:** This amplifier features 4-way protection circuitry against electrical shortage, overheating, and low voltage. However, always ensure correct installation and operation to avoid triggering these protections.
- **Volume Levels:** Prolonged exposure to high volume levels can cause hearing damage. Adjust volume responsibly.

3. PACKAGE CONTENTS

The Skar Audio RP-1200.1D Monoblock Class D Amplifier package includes:

- Skar Audio RP-1200.1D Monoblock Class D Amplifier
- Remote Subwoofer Level Control (Bass Knob) & Wire
- Instruction Manual (this document)



Figure 2: Remote Subwoofer Level Control (Bass Knob) and wire included with the amplifier.

4. SETUP

4.1. Amplifier Placement

Choose a mounting location that is dry, well-ventilated, and secure. Ensure sufficient space around the amplifier for proper heat dissipation, especially given its powerful output.

4.2. Wiring Connections

The RP-1200.1D features oversized 4-gauge power and ground terminals for maximum current flow. Proper wiring is crucial for performance and safety.



Figure 3: Power and speaker terminal side of the amplifier.

- **Power (BATT+):** Connect to the positive terminal of your vehicle's battery using appropriate 4-gauge wiring and an inline fuse (not included).
- **Ground (GND):** Connect to a clean, unpainted metal surface on the vehicle chassis using appropriate 4-gauge wiring. Ensure a solid, low-resistance connection.
- **Remote (REM):** Connect to the remote turn-on output of your head unit or other signal source. This wire turns the amplifier on and off with your audio system.
- **Speaker Output (SPEAKER):** Connect your subwoofer(s) to these terminals. The RP-1200.1D is 1-ohm stable. Ensure your subwoofer's impedance matches the amplifier's capabilities for optimal performance and to prevent damage.
- **RCA Input (INPUT):** Connect your head unit's RCA outputs to these inputs using high-quality RCA cables.
- **Remote Level Control:** Plug the included remote subwoofer level control into the "Remote" port on the amplifier's control panel.

5. OPERATING THE AMPLIFIER

The RP-1200.1D features a built-in user control panel for fine-tuning your audio experience.



Figure 4: Control panel side of the amplifier with input, gain, and filter controls.

- **Power/Protect Indicators:** The "Protect" and "Power" indicator lights provide status feedback. "Power" indicates normal operation, while "Protect" indicates a fault condition (e.g., overheating, short circuit, low voltage).
- **Bass EQ Switch:** Adjust the bass boost at 45Hz with settings for 0dB, +6dB, or +12dB.
- **Gain Level:** This control matches the amplifier's input sensitivity to the output of your head unit. Start with the gain at minimum and slowly increase until desired volume is achieved without distortion.
- **Low-Pass Filter (LPF):** This variable filter allows only frequencies below the set point to pass through to the subwoofer. Adjust to blend seamlessly with your main speakers.
- **Subsonic Filter:** This filter removes extremely low frequencies that are inaudible but can cause damage to subwoofers. Adjust to protect your subwoofers from over-excursion.
- **Remote Subwoofer Level Control:** Use the included bass knob to conveniently adjust the subwoofer output level from the front of your vehicle.

5.1. Power Output

The RP-1200.1D is conservatively rated at 1,200 watts RMS power at a 1-ohm load, with capabilities of reaching beyond 1,600 watts at max power output. It is ideal for powering a pair of 600-watt RMS subwoofers or a single 1,200-watt RMS subwoofer.

For a visual demonstration of the amplifier's power output, please refer to the official Skar Audio video below:

Your browser does not support the video tag.

Video 1: Skar Audio RP-1200.1D Monoblock Class D MOSFET Amplifier Dyno Test. This video demonstrates the amplifier's power output and features.

6. MAINTENANCE

- **Cleaning:** Regularly wipe the amplifier's exterior with a soft, dry cloth to remove dust and debris. Avoid using harsh chemicals or abrasive cleaners.
- **Ventilation:** Periodically check that the heatsink fins are clear of obstructions to ensure proper cooling.
- **Connections:** Occasionally inspect all wiring connections (power, ground, remote, RCA, speaker) to ensure they are secure and free from corrosion.

7. TROUBLESHOOTING

If you experience issues with your RP-1200.1D amplifier, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Amplifier does not turn on (Power LED off)	No power, poor ground, no remote signal, blown fuse.	Check power and ground connections. Verify remote wire has 12V. Check inline fuse and amplifier fuses.
Protect LED is on	Overheating, short circuit in speaker wiring, impedance too low, low voltage.	Allow amplifier to cool. Check speaker wiring for shorts. Verify speaker impedance is 1-ohm or higher. Check vehicle's battery voltage.
No sound output	No input signal, incorrect gain setting, speaker wiring issue.	Check RCA connections from head unit. Adjust gain. Verify speaker connections are secure and correct polarity.
Distorted sound	Gain set too high, incorrect filter settings, poor quality signal.	Lower gain. Adjust LPF and Subsonic filters. Ensure head unit output is clean.

8. SPECIFICATIONS

Feature	Detail
Amplifier Type	Class D MOSFET Monoblock Power Amplifier
Peak Power at 1 Ohm	1,600 Watts
RMS Power at 1 Ohm	1,200 Watts
Frequency Response	20Hz - 250Hz
Bass EQ Switch	0, +6, +12dB boost at 45Hz
Protection Circuitry	4-Way (electrical shortage, overheating, low voltage)
Power & Ground Input Terminals	Oversized 4-Gauge

Feature	Detail
Stability	1 Ohm Stable
Remote Control	Remote Subwoofer Level Control Included
Item Dimensions (L x W x H)	16 x 6 x 2.5 inches
Item Weight	7.2 pounds
Voltage	14.4 Volts (Nominal)
Maximum Supply Voltage	14.5 Volts
Minimum Supply Voltage	8.5 Volts
Damping Factor	150<

9. WARRANTY INFORMATION

Specific warranty details for the Skar Audio RP-1200.1D amplifier are typically provided with your purchase documentation or can be found on the official Skar Audio website. Please refer to those resources for comprehensive warranty terms and conditions.

10. CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Skar Audio customer support. Contact information can typically be found on the official Skar Audio website or your purchase receipt.