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Skar Audio RP-3500.1D

Skar Audio RP-3500.1D Monoblock Class D MOSFET Amplifier

User Instruction Manual

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1. OVERVIEW

The Skar Audio RP-3500.1D Class D monoblock subwoofer amplifier is designed for high power output and reliability. This amplifier is 1-ohm stable and incorporates premium internal components, including a high-speed MOSFET power supply and an advanced PCB board layout. It is rated for 3,500 watts RMS power at a 1-ohm load, with capabilities to exceed 5,500 watts at maximum power output.

Key Features:

- Competition Grade Class D MOSFET Power Amplifier
- Peak Power at 1 Ohm: 5,400 Watts | RMS Power at 1 Ohm: 3,500 Watts
- Stable at 1 ohm
- Remote Subwoofer Level Control Included
- Frequency Response: 20Hz - 250Hz
- On-board Bass Boost Control 0-9dB
- 4-Way Protection Circuitry
- 1/0 AWG Power & Ground Input Terminals for Maximum Current Flow

2. PACKAGE CONTENTS

- Skar Audio RP-3500.1D Monoblock Amplifier
- Bass Remote Knob and Wire
- User Manual

3. INSTALLATION & CONNECTIONS

Proper installation is crucial for the performance and longevity of your amplifier. It is recommended to have this unit installed by a professional car audio technician.

3.1 Power and Ground Connections

The RP-3500.1D features oversized 1/0-gauge power and ground terminals to ensure maximum current flow and efficient operation. Use appropriate gauge wiring for these connections.



Image: Rear view of the Skar Audio RP-3500.1D amplifier, highlighting the power (BATT+, GND, REM) and speaker terminals. These terminals are designed for secure and high-current connections.

3.2 Input and Output RCA Connections

The amplifier includes both input and output RCA connections. The output RCA allows the source signal to be daisy-chained between multiple amplifiers for expanded system configurations. The RP-3500.1D is also strappable, featuring an output master/slave input switch for advanced setups.



Image: Front view of the Skar Audio RP-3500.1D amplifier, displaying the RCA input jacks and various control knobs for audio adjustments.

4. CONTROLS & ADJUSTMENTS

The amplifier features a built-in user control panel for precise audio tuning.

4.1 Control Panel Functions

- **Gain Level:** Adjusts the input sensitivity to match the output of your head unit.
- **Bass EQ (0-9 dB):** Provides adjustable bass boost for enhanced low-frequency response.
- **Subsonic Filter (10-50 Hz):** Filters out extremely low frequencies that are inaudible and can damage subwoofers.
- **Low-Pass Filter (35-250 Hz):** Allows only frequencies below the set point to pass through to the subwoofer.
- **Phase Filter (0-180 Degrees):** Adjusts the phase of the subwoofer output to ensure proper integration with other speakers in the system.

4.2 Remote Subwoofer Level Control

A remote subwoofer level control (bass knob) is included, allowing convenient adjustment of bass output from the front of your vehicle.



Image: The included remote bass knob, which connects to the amplifier to provide convenient bass level adjustment from the driver's seat.

5. TECHNICAL SPECIFICATIONS

Specification	Value
Brand	Skar Audio
Model Number	RP-3500.1D
Output Power	3500 Watts (RMS at 1 Ohm)
Peak Power	5400 Watts (at 1 Ohm)
Number of Channels	1 (Monoblock)
Frequency Response	20Hz - 250Hz
Bass EQ Control	0-9dB
Subsonic Filter	10-50 Hz
Low-Pass Filter	35-250 Hz
Phase Filter	0-180 Degrees
Power & Ground Terminals	1/0 AWG
Item Dimensions (L x W x H)	18.9 x 8.27 x 2.45 inches
Item Weight	17.4 pounds
Material	Semiconductor

6. TROUBLESHOOTING

The RP-3500.1D amplifier is equipped with 4-way protection circuitry to safeguard against potential damage. If the amplifier enters protection mode (indicated by a red 'Protect' light), check the following:

- **Electrical Shortage:** Inspect all wiring for shorts, especially speaker wires touching the vehicle chassis or each other.
- **Overheating:** Ensure adequate ventilation around the amplifier. Prolonged high-power operation can lead to overheating. Allow the amplifier to cool down.
- **Low Voltage:** Verify that the vehicle's electrical system is providing sufficient voltage to the amplifier. Check battery and alternator performance.
- **Overload:** Ensure the speaker impedance matches the amplifier's specifications (1-ohm stable). Incorrect impedance can cause an overload.

If the issue persists after checking these points, consult a professional car audio technician.

7. MAINTENANCE

To ensure optimal performance and longevity of your Skar Audio RP-3500.1D amplifier, follow these maintenance guidelines:

- **Keep Clean:** Regularly clean the amplifier's exterior with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Ensure Ventilation:** Periodically check that the cooling fins are free from dust and debris to maintain proper heat dissipation.
- **Secure Connections:** Ensure all power, ground, and speaker connections remain tight and free from corrosion. Loose connections can lead to performance issues or damage.
- **Avoid Moisture:** Protect the amplifier from moisture and extreme temperatures.

8. SAFETY INFORMATION

Always observe the following safety precautions when installing or operating your amplifier:

- Disconnect the vehicle's battery before making any electrical connections.
- Ensure proper grounding to prevent electrical hazards.
- Use appropriate fuse sizes as specified in the installation guide to protect the amplifier and vehicle's electrical system.
- Mount the amplifier securely to prevent it from becoming a projectile in case of sudden stops or collisions.
- Avoid mounting the amplifier in areas exposed to direct sunlight, excessive heat, or moisture.
- Do not operate the amplifier if it is damaged or malfunctioning.

9. WARRANTY & SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official Skar Audio website or contact their customer service department. Keep your purchase receipt as proof of purchase for any warranty claims.