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Skar Audio RP-800.1DM

Skar Audio RP-800.1DM 800 Watt Monoblock Class D Marine Subwoofer Amplifier User Manual

Brand: Skar Audio | **Model:** RP-800.1DM

1. Introduction

The Skar Audio RP-800.1DM marine amplifier is engineered for high performance and reliability in marine environments. This monoblock Class D amplifier is designed to deliver powerful bass output, making it suitable for powering subwoofer systems in boats and UTVs. Its robust construction includes marine-grade components and a specialized coating to withstand harsh conditions, ensuring long-lasting use.

2. What's in the Box

Upon unboxing your Skar Audio RP-800.1DM amplifier, you should find the following components:

- Skar Audio RP-800.1DM Marine Monoblock Amplifier, 800W
- Remote Subwoofer Level Control (Bass Knob)
- Owner's Manual

3. Key Features

- Marine Class D MOSFET Monoblock Power Amplifier
- Peak Power at 1 Ohm: 1,200 Watts
- RMS Power at 1 Ohm: 800 Watts
- Fully Marinized with Waterproof Coating on Circuit Board & Rust Proof Painting on Mechanical Case
- Frequency Response: 20Hz - 250Hz
- On-board Bass EQ Switch with +6 or +12dB boost at 45Hz
- Featuring 4-Way Protection Circuitry
- 4 Gauge Power & Ground Input Terminals for Maximum Current Flow
- Stable at 1 ohm
- Remote Subwoofer Level Control Included
- Highly Efficient Heatsink Design allows for Maximum Reliability & Performance

4. Setup and Installation

Proper installation is crucial for optimal performance and longevity of your amplifier. It is recommended to have installation performed by a qualified professional.

4.1 Power and Ground Connections

The RP-800.1DM features oversized 4-gauge power and ground terminals to ensure maximum current flow and efficient operation. Connect the main power cable from your battery to the "BATT+" terminal, ensuring an inline fuse is installed close to the battery. Connect the ground cable to the "GND" terminal, securing it to a clean, unpainted metal surface on the vehicle or boat chassis. The "REM" terminal is for the remote turn-on wire from your head unit, which signals the amplifier to power on.

4.2 Speaker Connections

This is a monoblock amplifier, meaning it has a single channel output designed for subwoofers. The amplifier provides two sets of positive and negative speaker terminals. These dual terminals are provided for convenience, especially when using very thick speaker wire or wiring multiple subwoofers in parallel to achieve the desired impedance (e.g., 1 ohm stable). Ensure correct polarity when connecting your subwoofer(s) to the "SPEAKERS" terminals.
For visual guidance on connecting the power, ground, remote, and speaker wires, refer to the product unboxing and review videos available online.

5. Operating Controls

The RP-800.1DM amplifier features a user control panel for fine-tuning your audio output:

- **Gain Knob:** Adjusts the input sensitivity of the amplifier to match the output voltage of your head unit. Proper gain setting is essential to prevent distortion.
- **LPF (Low-Pass Filter):** This variable control allows you to set the upper frequency limit for the subwoofer. Frequencies above this setting will be filtered out. The frequency response is 20Hz - 250Hz.
- **Subsonic Filter:** This control filters out extremely low frequencies that are below the audible range or harmful to your subwoofer. Setting this correctly protects your subwoofer from over-excursion.
- **Bass EQ Switch:** Provides a selectable bass boost at 45Hz, with options for 0dB (flat), +6dB, or +12dB. Use this to enhance bass impact as desired.
- **Remote Subwoofer Level Control:** An included wired remote allows for convenient adjustment of the subwoofer output level from your listening position.

For a detailed walkthrough of these controls and their functions, consult the product review videos.

6. Maintenance

To ensure the longevity and optimal performance of your Skar Audio RP-800.1DM marine amplifier, follow these maintenance guidelines:

- **Cleaning:** Regularly wipe down the amplifier's exterior with a soft, dry cloth to remove dust and debris. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically check all wiring connections (power, ground, remote, and speaker) to ensure they are secure and free from corrosion. Loose connections can lead to performance issues or damage.
- **Ventilation:** Ensure the amplifier has adequate ventilation. Do not block the heatsink fins, as proper airflow is essential for heat dissipation.
- **Marine Environment:** While the amplifier features a marine-grade coating, it is still advisable to protect it from

direct exposure to excessive moisture or saltwater spray when possible.

7. Troubleshooting

The RP-800.1DM amplifier is equipped with 4-way protection circuitry to safeguard against potential damage. If the amplifier enters protection mode (indicated by the "Protect" LED), it will temporarily shut down. Common reasons include:

- **Overheating:** Ensure adequate ventilation and proper mounting location.
- **Low Voltage:** Check battery voltage and power connections.
- **Electrical Shortage:** Inspect speaker wires and connections for shorts.
- **Overload:** Verify that the connected subwoofer(s) impedance is within the amplifier's stable operating range (1 ohm minimum).

If you experience issues, first check all connections and ensure proper impedance. If the problem persists, consult a qualified audio technician.

8. Specifications

Specification	Value
Model Number	RP-800.1DM
RMS Power at 1 Ohm	800 Watts
Peak Power at 1 Ohm	1,200 Watts
Number of Channels	1 (Monoblock)
Frequency Response	20Hz - 250Hz
Bass EQ Boost	0, +6, +12dB at 45Hz
Protection Circuitry	4-Way (Overheating, Low Voltage, Shortage, Overload)
Input Terminals	4 Gauge Power & Ground
Dimensions (L x W x H)	10.13 x 6.3 x 2.2 inches
Weight	7.25 Pounds
Mounting Type	Surface Mount
Country of Origin	China

9. Product Visuals

9.1 Product Images

Top view of the Skar Audio RP-800.1DM Monoblock Amplifier, showcasing its sleek design and branding.

Angled top view of the Skar Audio RP-800.1DM amplifier, highlighting its compact form factor.

Side view of the amplifier showing the control panel with Gain, LPF, Subsonic, and Bass EQ adjustments, along with RCA inputs and remote connection.

Side view of the amplifier displaying the power, ground, remote, and dual speaker output terminals for robust wiring.

Internal view of the amplifier's circuit board, showcasing the high-quality components and marine-grade coating.

The included remote subwoofer level control (bass knob) for convenient bass adjustment.

9.2 Official Product Videos

No official product videos from the seller are available for embedding at this time.

10. Warranty and Support

Skar Audio products are designed for durability and performance. For detailed information regarding warranty coverage, terms, and conditions, please refer to the official Skar Audio website or contact their customer support directly. Keep your proof of purchase for any warranty claims.

For additional support, troubleshooting tips, or technical assistance, visit theSkar Audio Store on Amazon or their official website.

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