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Skar Audio BNDLE-SDR-2X12D4-RP-1200.1D-SKAR4ANL-OFC

Skar Audio SDR Series Subwoofer Bass Package

User Instruction Manual

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Skar Audio Dual 12" Complete 2,400 Watt SDR Series Subwoofer Bass Package. Please read this manual thoroughly before beginning installation to ensure optimal performance and safety.
This package includes:

- Skar Audio SDR-2X12D4 Dual 12" Loaded 2,400 Watt Vented Subwoofer Enclosure
- Skar Audio RP-1200.1D Class D 1,200 Watt Monoblock Car Subwoofer Amplifier
- Skar Audio SKAR4ANL-OFC 4 Gauge Premium OFC Complete Amplifier Wiring Kit



Figure 1.1: Complete Skar Audio SDR Series Subwoofer Bass Package components.

2. What's in the Box

Upon opening your package, verify that all the following components are present and undamaged:

- 1 x Skar Audio SDR-2X12D4 Dual 12" Loaded Vented Subwoofer Enclosure
- 1 x Skar Audio RP-1200.1D Class D Monoblock Car Subwoofer Amplifier
- 1 x Skar Audio SKAR4ANL-OFC 4 Gauge Premium OFC Complete Amplifier Wiring Kit (includes power cable, ground cable, RCA interconnects, remote turn-on wire, speaker wire, fuse holder, and terminals)



Figure 2.1: The Skar Audio SDR Series Subwoofer Bass Package as received in its packaging.

3. Setup and Installation

Proper installation is crucial for the performance and longevity of your car audio system. It is highly recommended that installation be performed by a qualified professional. If you choose to install it yourself, proceed with caution and adhere to all safety guidelines.

3.1 Safety Precautions

- Disconnect the vehicle's negative battery terminal before starting any electrical work.
- Wear appropriate safety gear, including eye protection.
- Ensure all wiring is properly insulated and secured to prevent short circuits and damage.
- Do not run power cables near sharp edges or moving parts.
- Use the correct gauge wiring as provided in the kit to handle the power requirements.

3.2 Component Overview



Figure 3.1: The SDR-2X12D4 Loaded Enclosure, featuring two 12-inch subwoofers pre-wired for optimal bass reproduction.



Figure 3.2: The RP-1200.1D Monoblock Amplifier, designed to power the subwoofer system with 1200 Watts RMS.



Figure 3.3: The SKAR4ANL-OFC 4 Gauge OFC Wiring Kit, providing all necessary cables and connectors for amplifier installation.

3.3 Installation Steps (General Guidelines)

1. **Mount the Enclosure:** Securely place the subwoofer enclosure in the desired location (e.g., trunk). Ensure it is stable and will not shift during vehicle movement.
2. **Mount the Amplifier:** Choose a suitable location for the RP-1200.1D amplifier, ensuring adequate ventilation. Securely mount it to a solid surface.
3. **Run Power Cable:** Route the 4-gauge power cable from the vehicle's battery to the amplifier. Install the included ANL fuse holder within 18 inches of the battery.
4. **Run Ground Cable:** Connect the 4-gauge ground cable from the amplifier to a clean, unpainted metal surface on the vehicle's chassis. Ensure a solid, low-resistance connection.
5. **Run RCA Interconnects:** Route the RCA cables from your head unit (or line output converter) to the amplifier's input. Avoid running RCA cables parallel to power cables to prevent noise.
6. **Run Remote Turn-On Wire:** Connect the remote turn-on wire from your head unit to the amplifier's remote terminal. This wire tells the amplifier when to turn on and off with the vehicle's ignition.
7. **Connect Speaker Wires:** Connect the speaker wires from the subwoofer enclosure to the amplifier's speaker output terminals. Ensure correct polarity (+ to + and - to -). The SDR-2X12D4 enclosure is pre-wired for a 1-ohm final impedance.
8. **Final Connections:** Double-check all connections for tightness and correct polarity. Reconnect the vehicle's negative battery terminal.

4. Operating Instructions

Once installed, your Skar Audio bass package is ready for operation. Follow these guidelines for optimal performance

and longevity.

4.1 Initial Power-Up and Gain Setting

1. **Turn on Head Unit:** With the vehicle running, turn on your car's head unit. The amplifier should power on automatically via the remote turn-on wire.
2. **Set Amplifier Gain:** The gain control on the RP-1200.1D amplifier is not a volume knob. It matches the output voltage of your head unit to the input sensitivity of the amplifier.
    - Turn the amplifier gain all the way down (counter-clockwise).
    - Set your head unit volume to about 75-80% of its maximum.
    - Play a music track with strong bass content.
    - Slowly increase the amplifier gain until you hear distortion, then back it off slightly until the sound is clear.
3. **Adjust Bass Boost/Low Pass Filter:**
    - The RP-1200.1D features a Low Pass Filter (LPF) to ensure only low frequencies reach the subwoofers. Set this typically between 80Hz and 120Hz, adjusting to blend with your main speakers.
    - Use bass boost sparingly, if at all. Excessive bass boost can lead to distortion and potential damage to the subwoofers.

4.2 General Usage Tips

- Avoid prolonged listening at maximum volume levels, especially if distortion is present.
- Allow the amplifier to cool down if it becomes excessively hot.
- Ensure your vehicle's electrical system (battery, alternator) can support the power demands of the amplifier.

5. Maintenance

Regular maintenance helps ensure the longevity and optimal performance of your Skar Audio bass package.

- **Cleaning:** Use a soft, dry cloth to wipe down the enclosure and amplifier. Avoid using harsh chemicals or abrasive cleaners.
- **Connections:** Periodically check all wiring connections (power, ground, speaker, RCA) to ensure they are secure and free from corrosion. Loose connections can lead to poor performance or damage.
- **Ventilation:** Ensure the amplifier's heatsink fins are free from dust and debris to allow for proper cooling. Do not obstruct the airflow around the amplifier.
- **Subwoofer Inspection:** Visually inspect the subwoofer cones and surrounds for any signs of damage or wear.

6. Troubleshooting

If you experience issues with your Skar Audio bass package, refer to the following common problems and solutions before contacting support.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No Sound from Subwoofers	◦ Amplifier not turning on (no power light) ◦ Loose or incorrect wiring (power, ground, remote, RCA, speaker) ◦ Blown fuse ◦ Head unit settings	◦ Check power, ground, and remote turn-on connections. ◦ Verify fuse in fuse holder is intact. ◦ Ensure RCA cables are connected and head unit output is active. ◦ Check speaker wire connections at both amplifier and enclosure.
Distorted Sound	◦ Amplifier gain set too high ◦ Clipping from head unit ◦ Damaged speaker or amplifier	◦ Reduce amplifier gain. ◦ Lower head unit volume. ◦ Inspect subwoofers for physical damage.
Amplifier Overheating (Protection Mode)	◦ Insufficient ventilation ◦ Improper impedance load ◦ Short circuit in speaker wiring	◦ Ensure amplifier has adequate airflow. ◦ Verify speaker wiring is correct and no shorts exist. ◦ Check the enclosure's impedance (SDR-2X12D4 is 1-ohm).

7. Specifications

Key technical specifications for the Skar Audio SDR Series Subwoofer Bass Package:

Feature	Specification
Model Name	SDR Series
Peak Power	2,400 Watts
RMS Power	1,200 Watts
Subwoofer Diameter	12 Inches (Dual)
Enclosure Type	Vented / Ported
Enclosure Impedance	1 Ohm (Final)
Amplifier Type	Class D Monoblock
Frequency Response	32 Hz (Subwoofer)
Product Dimensions (Enclosure)	21"D x 40.75"W x 22"H
Item Weight	119.75 Pounds
Connectivity Technology	Wired
UPC	810028811294
Item Model Number	BNDLE-SDR-2X12D4-RP-1200.1D-SKAR4ANL-OFC

8. Warranty and Support

Skar Audio products are designed for durability and performance. For specific warranty terms and conditions, please refer to the official Skar Audio website or the documentation included with your purchase. Keep your proof of purchase for warranty claims.

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Skar Audio customer support directly. You can typically find contact information on their official website:

www.skaraudio.com

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Product Model: BNDLE-SDR-2X12D4-RP-1200.1D-SKAR4ANL-OFC

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