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Rock Series RKS-P1100.1D

Rock Series RKS-P1100.1D Class D Single Channel Amplifier User Manual

Model: RKS-P1100.1D

1. INTRODUCTION

Thank you for choosing the Rock Series RKS-P1100.1D Class D Single Channel Amplifier. This amplifier is designed to provide powerful and clear audio performance for your vehicle's sound system. To ensure optimal performance and longevity, please read this manual thoroughly before installation and operation. Keep this manual for future reference.

2. SAFETY INFORMATION

- **Professional Installation Recommended:** Installation of car audio equipment can be complex. It is highly recommended to have this amplifier installed by a qualified professional.
- **Power Source:** Connect the amplifier only to a 12V DC negative ground electrical system.
- **Wiring:** Ensure all wiring is correctly connected and properly insulated to prevent short circuits and electrical hazards. Use appropriate gauge wires for power, ground, and speaker connections.
- **Fuses:** Always use the correct fuse rating as specified. Never replace a fuse with one of a higher rating.
- **Ventilation:** Mount the amplifier in a location that allows for adequate air circulation to prevent overheating. Do not block ventilation openings.
- **Volume Levels:** Prolonged exposure to high volume levels can cause hearing damage. Adjust volume to a safe level.
- **Moisture:** Avoid exposing the amplifier to moisture or water.

3. PACKAGE CONTENTS

Upon opening the retail box, please verify that all items are present and in good condition. The standard

package for the RKS-P1100.1D amplifier typically includes:

- Rock Series RKS-P1100.1D Class D Single Channel Amplifier
- Mounting hardware (screws)
- User Manual (this document)



This image displays the retail packaging for the Rock Series RKS-P1100.1D Class D Single Channel Amplifier. The box highlights key features such as '2200W Max Power', '1 Channel High Power Class D Car Amplifier', and the model number RKS-P1100.1D. The amplifier itself is visible through a clear window in the packaging.

4. FEATURES

The Rock Series RKS-P1100.1D amplifier offers the following key features:

- **Class D Topology:** High efficiency design for powerful output with reduced heat generation.
- **Single Channel (Mono) Operation:** Optimized for driving subwoofers.
- **High Power Output:** Delivers up to 1100 Watts of power.
- **Adjustable Low-Pass Filter (LPF):** Allows for precise tuning of subwoofer frequencies.
- **Variable Gain Control:** Matches the amplifier's input sensitivity to the output of your head unit.

- **Bass Boost Control:** Provides additional low-frequency enhancement.
- **Durable Construction:** Housed in a robust stainless steel chassis.

5. SETUP AND INSTALLATION

Proper installation is crucial for the performance and safety of your amplifier. Follow these guidelines carefully.

5.1 Mounting Location

- Choose a dry, well-ventilated area away from direct sunlight and heat sources.
- Ensure the mounting surface is sturdy enough to support the amplifier's weight.
- Allow at least 2 inches (5 cm) of space around the amplifier for proper airflow.
- The amplifier is designed for surface mount installation. Use the provided screws to secure it.

5.2 Wiring Connections

Before making any connections, disconnect the vehicle's negative battery terminal to prevent electrical shorts.

1. **Power (BATT+):** Connect a heavy-gauge power cable (e.g., 4 AWG or 8 AWG depending on power requirements) directly from the positive terminal of the car battery to the amplifier's BATT+ terminal. Install an in-line fuse holder with the appropriate fuse rating (not supplied) within 18 inches (45 cm) of the battery.
2. **Ground (GND):** Connect a heavy-gauge ground cable of the same length and gauge as the power cable from the amplifier's GND terminal to a clean, unpainted metal surface of the vehicle's chassis. Ensure a good electrical connection.
3. **Remote Turn-On (REM):** Connect a smaller gauge wire (e.g., 18 AWG) from the amplifier's REM terminal to the remote turn-on output of your head unit. This wire turns the amplifier on and off with your stereo.
4. **RCA Input:** Connect RCA cables from the subwoofer output (or full-range output if no dedicated subwoofer output is available) of your head unit to the amplifier's RCA input jacks.
5. **Speaker Output:** Connect your subwoofer(s) to the amplifier's speaker output terminals. Ensure correct polarity (+ to + and - to -). Refer to your subwoofer's specifications for impedance matching. This is a single-channel amplifier, so connect one or more subwoofers in a configuration that matches the amplifier's stable impedance.

6. OPERATING INSTRUCTIONS AND ADJUSTMENTS

Once installed, follow these steps to configure your amplifier for optimal sound.

1. **Initial Gain Setting:** Turn the amplifier's GAIN control to its minimum (fully counter-clockwise) position.
2. **Head Unit Volume:** Turn your head unit volume up to about 75% of its maximum level.
3. **Adjust Gain:** Slowly increase the amplifier's GAIN control until you hear slight distortion, then back it off slightly until the sound is clear. This sets the amplifier's input sensitivity to match your head unit's output.
4. **Low-Pass Filter (LPF):** Adjust the LPF control to filter out high frequencies from your subwoofer. A common starting point is between 80Hz and 120Hz, but this can be adjusted based on your subwoofer

and personal preference.

5. **Bass Boost:** Use the BASS BOOST control sparingly. Excessive bass boost can lead to distortion and potential damage to your subwoofer. Start with it off and gradually increase if desired.
6. **Final Tuning:** Listen to various types of music and fine-tune the GAIN, LPF, and BASS BOOST controls for the best sound quality and balance with your other speakers.

7. MAINTENANCE

Regular maintenance helps ensure the longevity and performance of your amplifier.

- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Connections:** Occasionally check all power, ground, remote, and speaker connections to ensure they are secure and free from corrosion. Loose connections can cause performance issues or damage.
- **Ventilation:** Ensure that the amplifier's cooling fins are free from dust and debris to maintain proper heat dissipation.

8. TROUBLESHOOTING

If you experience problems with your amplifier, refer to the following common issues and solutions before contacting support.

Problem	Possible Cause	Solution
Amplifier does not turn on (no power indicator)	<ul style="list-style-type: none"> ◦ Blown fuse ◦ Loose power or ground connection ◦ No remote turn-on signal 	<ul style="list-style-type: none"> ◦ Check and replace fuses (amplifier and in-line) ◦ Verify all power and ground connections are secure ◦ Check remote wire connection and head unit's remote output
No sound output	<ul style="list-style-type: none"> ◦ RCA input cables disconnected or faulty ◦ Speaker wires disconnected or shorted ◦ Gain set too low ◦ Head unit volume too low 	<ul style="list-style-type: none"> ◦ Check RCA connections and cables ◦ Verify speaker wire connections and check for shorts ◦ Increase gain control ◦ Increase head unit volume
Distorted sound	<ul style="list-style-type: none"> ◦ Gain set too high ◦ Speaker impedance mismatch ◦ Poor ground connection 	<ul style="list-style-type: none"> ◦ Decrease gain control ◦ Verify speaker impedance matches amplifier's stable load ◦ Ensure a solid ground connection
Amplifier overheats (protection mode)	<ul style="list-style-type: none"> ◦ Insufficient ventilation ◦ Speaker impedance too low ◦ Prolonged high volume operation 	<ul style="list-style-type: none"> ◦ Ensure adequate airflow around the amplifier ◦ Check speaker impedance ◦ Reduce volume or allow amplifier to cool down

9. SPECIFICATIONS

The following are the technical specifications for the Rock Series RKS-P1100.1D amplifier:

- **Model:** RKS-P1100.1D
- **Brand:** Rock Series
- **Number of Channels:** 1 (Mono)
- **Output Power:** 1100 Watts (Max)
- **Amplifier Class:** Class D
- **Dimensions (L x W x H):** 3.94 x 3.94 x 3.94 inches
- **Item Weight:** 2.2 pounds
- **Material:** Stainless Steel

- **Mounting Type:** Surface Mount
- **Manufacturer:** jacobo elektroniks

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact your authorized Rock Series dealer. Keep your proof of purchase for any warranty claims.