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› Rockville VS15K51 15" K5 1-Ohm Car Subwoofer in Vented Enclosure Instruction Manual

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Model: VS15K51

INTRODUCTION

The Rockville VS15K51 is a 15-inch K5 series car subwoofer pre-loaded in a vented enclosure, designed to deliver powerful low-frequency sound in vehicle audio systems. This manual provides essential information for the proper setup, operation, maintenance, and troubleshooting of your subwoofer system.

Key Features:

- **Deep, Powerful Bass:** Delivers 2000W peak power with 500W RMS for rich, low-frequency sound.
- **Durable Vented Enclosure:** Constructed with 3/4" MDF, bonded, stapled, and braced, featuring computer-designed vents angled at 15° for optimal bass alignment and longevity.
- **Durable, High-End Materials:** Features 2.5" 4-layer black aluminum voice coils wound with Japanese OFC copper wire and a 60 oz magnet for superior sound clarity.
- **Easy Installation:** Pre-loaded in a 3.28 cu ft vented box with satin nickel push terminals and aviation-grade tweed carpet for a sleek, secure setup.
- **Versatile Car Audio Solution:** Tuned at 35 Hz with a 1-ohm impedance, suitable for pairing with mono amplifiers for custom setups in trucks or sedans.

SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your subwoofer. If you are unsure about any steps, consult a professional car audio installer.

1. Unpacking and Inspection

Carefully remove the subwoofer enclosure from its packaging. Inspect the unit for any signs of damage that may have occurred during shipping. Report any damage to your dealer immediately.

2. Placement

The subwoofer enclosure should be placed in a secure location within your vehicle, typically the trunk or cargo area.

Ensure it is positioned to prevent movement during driving, which could cause damage to the unit or vehicle. Consider the acoustic properties of your vehicle's interior when choosing the final placement.



Angled view of the Rockville VS15K51 subwoofer in its vented enclosure.

3. Wiring and Connections

The VS15K51 features a single 1-ohm voice coil configuration, making it ideal for mono amplifiers capable of stable 1-ohm operation. Ensure your amplifier is compatible with a 1-ohm load before connecting.

- **Power Wiring:** Connect the amplifier's positive (+) terminal to the vehicle's battery via a fused power cable. Connect the amplifier's negative (-) terminal to a solid chassis ground point.
- **Remote Turn-On:** Connect the amplifier's remote turn-on terminal to your head unit's remote output.
- **Signal Input:** Connect RCA cables from your head unit's subwoofer output to the amplifier's input.
- **Subwoofer Connection:** Connect the subwoofer's positive (+) terminal to the amplifier's positive (+) speaker output, and the subwoofer's negative (-) terminal to the amplifier's negative (-) speaker output. Use appropriate gauge speaker wire for the connection.



Rear view of the enclosure, highlighting the speaker terminals for connection.



Close-up of the gold-plated spring-loaded push terminals for secure wire connection.

OPERATING INSTRUCTIONS

Follow these guidelines for safe and effective operation of your subwoofer.

1. Initial Power-Up and Break-In

After installation, turn on your audio system at a low volume. Gradually increase the volume to ensure all connections are correct and there is no distortion. A break-in period of approximately 10-20 hours of moderate listening is recommended to allow the subwoofer's suspension components to loosen and perform optimally. During this period, avoid playing the subwoofer at maximum volume or with excessive bass boost.

2. Amplifier Settings

- **Gain Control:** Set the amplifier's gain control to match the output voltage of your head unit. Start with the gain at its minimum setting and slowly increase it until you hear distortion, then back off slightly. The gain control is not a volume knob; it adjusts the input sensitivity.
- **Low-Pass Filter (LPF):** Set the LPF on your amplifier to a frequency typically between 80 Hz and 120 Hz. This ensures the subwoofer only reproduces low frequencies, preventing it from playing higher notes that should be handled by your main speakers.
- **Subsonic Filter:** If your amplifier has a subsonic filter, set it to approximately 25-30 Hz. This protects the subwoofer from playing frequencies too low for its design, which can cause damage.
- **Bass Boost:** Use bass boost sparingly, if at all. Excessive bass boost can lead to distortion and potential damage to the subwoofer.

3. Listening Levels

While the VS15K51 is designed for powerful bass, continuous operation at extremely high volumes or with excessive distortion can damage the subwoofer and amplifier. Listen for signs of distortion (e.g., a

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