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Model: VPAS12ST | Brand: CERWIN-VEGA!

INTRODUCTION

The CERWIN-VEGA! Vega 12" Powered Spare Tire Subwoofer (VPAS12ST) provides an all-in-one bass solution designed to fit within your vehicle's spare tire well, conserving valuable trunk space. This unit features a fully integrated amplifier encased in a cast aluminum heatsink, offering a simple plug-and-play operation for enhanced audio performance.

PRODUCT FEATURES

- **Compact Design:** Engineered to fit inside most spare tire wells, maximizing cargo space.
- **Integrated Amplifier:** Features a built-in amplifier with a cast aluminum heatsink for efficient power delivery and thermal management.
- **12-inch Subwoofer:** Delivers powerful and clear bass response.
- **Easy Installation:** Designed for straightforward setup with minimal wiring complexity.
- **Remote Control:** Allows for convenient adjustment of subwoofer settings.

INSTALLATION AND SETUP

Unpacking

Carefully remove all components from the packaging. Verify that all items listed below are present:

- CERWIN-VEGA! VPAS12ST Subwoofer Unit
- Remote Control
- Mounting Hardware (threaded rod, washers, nut)
- Wiring Harness (power, ground, remote, high-level input)

Placement

The VPAS12ST is designed to be placed directly into the spare tire well of your vehicle. Ensure the subwoofer fits securely and does not obstruct the spare tire or any vehicle components. Some vehicles may require minor adjustments or additional padding to ensure a snug fit and prevent rattling.



Figure 1: CERWIN-VEGA! VPAS12ST Powered Spare Tire Subwoofer. This image shows the top-down view of the subwoofer unit, highlighting its compact, circular design intended for spare tire well installation.



Figure 2: CERWIN-VEGA! VPAS12ST Subwoofer with Dimensions. This image illustrates the physical dimensions of the subwoofer, indicating a diameter of 14.2 inches and a height of 6 inches, crucial for verifying fitment in a spare tire well.

Wiring Connections

1. **Power Connection (12V DC):** Connect the main power wire (typically red) to the vehicle's positive battery terminal. Ensure an inline fuse (not supplied, recommended 20A-30A) is installed as close to the battery as possible.
2. **Ground Connection:** Connect the ground wire (typically black) to a clean, unpainted metal surface on the vehicle chassis. Ensure a solid, low-resistance connection.
3. **Remote Turn-On:** Connect the remote turn-on wire (typically blue or thin red) to the remote output of your head unit. This wire signals the subwoofer to turn on and off with your car stereo. If your head unit lacks a remote output, you may use an accessory wire that provides +12V when the ignition is on.
4. **Audio Input:**
 - o **Low-Level Input (RCA):** If your head unit has RCA pre-outs, connect them to the subwoofer's RCA inputs.
 - o **High-Level Input (Speaker Level):** If your head unit does not have RCA pre-outs, use the supplied high-level input harness. Connect this harness to the rear speaker wires of your vehicle. Ensure correct polarity (+ to + and - to -).

OPERATION

Controls and Adjustments

The VPAS12ST features several controls to optimize its performance within your vehicle's audio system. These controls are typically located on the unit itself or on the included remote control.

- **Gain Control:** Adjusts the input sensitivity of the amplifier. Start with the gain at minimum and slowly increase it until the desired bass level is achieved without distortion.
- **Low-Pass Filter (LPF):** Sets the upper frequency limit for the subwoofer. Typically, this is set between 80Hz and 120Hz. Adjust to blend seamlessly with your main speakers.
- **Phase Switch (0°/180°):** Corrects phase alignment between the subwoofer and other speakers. Listen to music with strong bass and switch between 0° and 180° to find the setting that produces the most impactful and coherent bass.
- **Bass Boost:** Provides an adjustable boost at a specific low frequency. Use sparingly to avoid distortion.
- **Remote Level Control:** Allows for convenient adjustment of the subwoofer's output level from the driver's seat.

MAINTENANCE

To ensure the longevity and optimal performance of your VPAS12ST subwoofer, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe down the exterior of the unit. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically check all wiring connections to ensure they are secure and free from corrosion.
- **Ventilation:** Ensure the heatsink and any ventilation ports are free from dust and debris to prevent overheating.

TROUBLESHOOTING

If you encounter issues with your VPAS12ST subwoofer, refer to the following troubleshooting steps:

- **No Power:**
 - Check the inline fuse on the power wire.
 - Verify all power and ground connections are secure.
 - Ensure the remote turn-on wire is receiving +12V when the head unit is on.
- **No Sound:**
 - Check audio input connections (RCA or high-level) for proper seating and polarity.
 - Ensure the head unit's subwoofer output is enabled and volume is up.
 - Adjust the gain control on the subwoofer.
- **Distorted Sound:**
 - Reduce the gain control on the subwoofer.
 - Check for proper LPF settings; a setting too high or too low can cause distortion.
 - Ensure the source audio is not distorted.
 - Verify that the subwoofer is securely mounted and not rattling against other components.

TECHNICAL SPECIFICATIONS

Feature	Specification
Model Name	VPAS12ST
Speaker Type	Subwoofer
Subwoofer Diameter	12 Inches
Input Voltage	12 Volts
Power Source	DC power supply
Connectivity Technology	Wired (Coaxial)
Frequency Response	150 Hz (Max)
Signal-to-Noise Ratio	91 dB
Control Method	Remote
Special Feature	Spare Tire Application
Product Dimensions	1"D x 1"W x 1"H (General representation, refer to image for actual dimensions)
Item Weight	0.832 ounces (Product listing weight, actual unit weight may vary)
Manufacturer	Cerwin Vega, Inc

WARRANTY AND SUPPORT

This CERWIN-VEGA! product is covered by a limited warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary by region and retailer. Please retain your proof of purchase for warranty claims. For technical support, service, or warranty inquiries, please contact your authorized CERWIN-VEGA! dealer or visit the official CERWIN-VEGA! website for contact information.