

Vibe SPACE12D2-V4

VIBE Space Series 12-Inch Subwoofer Instruction Manual

Model: SPACE12D2-V4

1. INTRODUCTION

The VIBE Space Series 12-Inch Subwoofer, model SPACE12D2-V4, is engineered for high-fidelity low-frequency sound reproduction. This manual provides essential information for the proper installation, operation, and maintenance of your subwoofer to ensure optimal performance and longevity.

The Space Series subwoofers incorporate advanced technologies such as Mechanical Thermal Unity, designed to enhance cooling and overall performance. This innovative design ensures efficient heat dissipation from the voice coil through the alloy cone, maintaining stable operation even under demanding conditions.

2. KEY FEATURES

The VIBE Space Series subwoofer is built with precision and advanced materials to deliver superior audio performance. Key features include:

- **Mechanical Thermal Unity:** A cutting-edge technology developed by VIBE R&D, featuring a one-piece alloy cone and flanged alloy voice coil former that work in unity for enhanced voice coil cooling.
- **Reversible Front Gasket:** Made from high-quality machined aluminum, the front gasket offers a high-end aesthetic and is fully reversible, allowing for rear-mounted subwoofer installations.
- **Advanced Surround Design:** Features a specially developed foam rubber multi-roll surround, providing improved linearity throughout the subwoofer's excursion range.
- **FEA Designed Aluminum Cone:** The Finite Element Analysis (FEA) designed aluminum cone ensures unmatched weight and dynamics, seamlessly joined to the flanged alloy voice coil for perfect unity and efficient cooling.
- **Single Spider Control:** A single spider provides precise control and stability for the woofer cone, ensuring 100% linear movement.
- **Alloy Torsion Basket:** Machined from cast aluminum, the torsion basket offers high rigidity and robust support for the motor and moving components of the subwoofer.



Image: Front view of the VIBE Space Series 12-Inch Subwoofer, showcasing its robust construction and the distinctive alloy cone.

3. TECHNICAL SPECIFICATIONS

Specification	Value
Model Number	SPACE12D2-V4
Brand	Vibe
Speaker Type	Subwoofer, Woofer
Impedance	2 Ohm (Dual)
RMS Power Handling	1000W

Specification	Value
Frequency Response	500 Hz
Item Weight	13.1 Pounds (5.94 kg)
Product Dimensions (L x W x H)	15.5 x 14.75 x 10.5 inches (39.37 x 37.46 x 26.67 cm)
Mounting Depth	7.4 inches (18.8 cm)
UPC	086429221547

Note: The listed frequency response of 500 Hz may refer to an upper limit or a specific test condition. Subwoofers typically operate in the lower frequency range (e.g., 20-200 Hz).

4. SETUP AND INSTALLATION

Proper installation is crucial for the performance and safety of your VIBE Space Series subwoofer. It is recommended that installation be performed by a qualified professional. Always disconnect the vehicle's battery before beginning any electrical work.

4.1 Enclosure Requirements

The VIBE Space Series subwoofer is designed to perform optimally in a properly sized and constructed enclosure. Consult a car audio specialist or VIBE's official resources for recommended enclosure volumes and port tuning frequencies for sealed or ported designs. An incorrect enclosure can severely limit performance and potentially damage the subwoofer.

4.2 Wiring Connections

The SPACE12D2-V4 features a dual 2-ohm voice coil configuration. This allows for flexible wiring options to achieve different impedance loads at your amplifier. Common wiring configurations include:

- **1 Ohm Load:** Wire both 2-ohm voice coils in parallel. This configuration requires an amplifier stable at 1 ohm.
- **4 Ohm Load:** Wire both 2-ohm voice coils in series. This configuration is suitable for amplifiers stable at 4 ohms.

Ensure all connections are secure and properly insulated to prevent short circuits. Use appropriate gauge wiring for power, ground, and speaker connections to minimize power loss and ensure safety.

4.3 Mounting

The subwoofer can be mounted in a standard front-mount configuration or a rear-mount configuration using its reversible gasket. Ensure the mounting surface is rigid and free from obstructions. Use all provided mounting screws and tighten them securely but do not overtighten.

5. OPERATION AND OPTIMIZATION

Once installed, proper tuning of your audio system is essential for optimal subwoofer performance and longevity.

5.1 Amplifier Gain Setting

Set the amplifier gain correctly to match the output voltage of your head unit. An improperly set gain can lead to clipping, which can damage the subwoofer. Start with the gain at its minimum, play a test tone or music, and slowly increase the gain until distortion is audible, then back off slightly.

5.2 Crossover Settings

Utilize the low-pass filter (LPF) on your amplifier or head unit to ensure the subwoofer only reproduces low frequencies. A typical LPF setting for subwoofers is between 60 Hz and 100 Hz, depending on your main speakers and personal preference. Avoid sending full-range signals to the subwoofer.

5.3 Break-in Period

Allow a break-in period of approximately 20-30 hours of normal listening before pushing the subwoofer to its maximum capabilities. This allows the suspension components (surround and spider) to loosen up and reach their optimal compliance.

6. MAINTENANCE

The VIBE Space Series subwoofer requires minimal maintenance to ensure its long-term performance.

- **Cleaning:** Use a soft, dry cloth to gently wipe down the cone and surround. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically inspect the subwoofer for any signs of damage to the cone, surround, or dust cap. Check all wiring connections for tightness and corrosion.
- **Environmental Factors:** Protect the subwoofer from extreme temperatures, direct sunlight, and excessive moisture.

7. TROUBLESHOOTING

If you experience issues with your VIBE Space Series subwoofer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Sound from Subwoofer	<ul style="list-style-type: none">◦ Loose or disconnected wiring◦ Amplifier in protect mode◦ Incorrect gain or crossover settings◦ Blown fuse	<ul style="list-style-type: none">◦ Check all power, ground, remote, and speaker wires.◦ Check amplifier status light; cycle power if necessary.◦ Verify gain and LPF settings.◦ Inspect and replace any blown fuses (amplifier, power wire).
Distorted Sound	<ul style="list-style-type: none">◦ Amplifier gain set too high (clipping)◦ Incorrect crossover settings◦ Damaged subwoofer or enclosure	<ul style="list-style-type: none">◦ Reduce amplifier gain.◦ Adjust LPF to prevent higher frequencies from reaching the subwoofer.◦ Inspect subwoofer for physical damage; check enclosure for air leaks.

Problem	Possible Cause	Solution
Weak Bass Output	<ul style="list-style-type: none">◦ Incorrect wiring impedance◦ Insufficient power from amplifier◦ Phase issues◦ Improper enclosure volume	<ul style="list-style-type: none">◦ Verify voice coil wiring matches amplifier's stable impedance.◦ Ensure amplifier is adequately powered and gain is set correctly.◦ Check phase switch on amplifier/head unit.◦ Confirm enclosure volume meets recommendations.

If the problem persists after attempting these solutions, contact VIBE customer support or a certified car audio technician.

8. WARRANTY AND SUPPORT

8.1 Warranty Information

The VIBE Space Series 12-Inch Subwoofer (SPACE12D2-V4) comes with a **1-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by improper installation, abuse, accident, neglect, unauthorized repair, or modification.

Please retain your proof of purchase for warranty claims. For full warranty terms and conditions, refer to the official VIBE website or contact VIBE customer service.


8.2 Customer Support






For technical assistance, troubleshooting, or warranty inquiries, please contact VIBE customer support through their official website or authorized distributors. Provide your product model number (SPACE12D2-V4) and proof of purchase when seeking support.

VIBE Official Website: www.vibeaudio.co.uk



Related Documents - SPACE12D2-V4

	<p>VIBE BDC15D1SPL-V4 & BDC18D1SPL-V4 Component Subwoofer User Manual</p> <p>User manual for VIBE BDC15D1SPL-V4 and BDC18D1SPL-V4 component subwoofers, covering specifications, installation, run-in procedures, and warranty information.</p>
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 <p>Internet store of autogoods COM.UK</p> <p>130</p> <p>http://130.com.uk</p>	<p>VIBE Space 12 D2/D4 Subwoofer Owner's Manual & Installation Guide</p> <p>Comprehensive owner's manual and installation guide for the VIBE Space 12 D2 and D4 subwoofers, covering setup, wiring, enclosure design, warranty, and specifications. Includes accessory information.</p>
 <p>VIBE British Audio</p> <p>BLACKAIR 5 TWEETER • 50W/16Ω V4</p> <p>BLACKAIR 5 MIDRANGE • 50W/16Ω V4</p> <p>BLACKAIR 5 COAXIAL • 50W/16Ω V4</p> <p>BLACKAIR 5 SUBWOOFER • 50W/16Ω V4</p> <p>black air Speaker Range</p>	<p>VIBE BlackAir Series Car Speakers: Owners Manual, Installation, and Specifications</p> <p>Comprehensive guide to VIBE BlackAir series car speakers, including installation instructions, warranty information, safety warnings, technical specifications, and response curves. Learn how to install and care for your VIBE audio equipment.</p>
 <p>VIBE British Audio</p> <p>STEREO 2 CVENS2-V4</p> <p>STEREO 4 CVENS4-V4</p> <p>CHANNEL 6 CVENCH6-V4</p> <p>C V E N B R I T I S H Power Amplifiers</p>	<p>VIBE CVEN Series 7 Power Amplifiers Owner's Manual</p> <p>Comprehensive owner's manual for VIBE CVEN Series 7 Power Amplifiers, covering installation, setup, specifications, and warranty information for models CVENS2-V4, CVENS4-V4, and CVENCH6-V4.</p>
 <p>VIBE British Audio</p> <p>BMW Speaker Kit OPTISOUND 2 4 6 8 X Component Speakers</p>	<p>VIBE OPTISOUND BMW Component Speaker Kits - Owners Manual & Specifications</p> <p>Detailed information on VIBE OPTISOUND BMW component speaker kits, including models OPTISOUNDBMW8-V4, OPTISOUNDBMW4-V4, and OPTISOUNDBMW4X-V0. Covers installation, specifications, warranty, and safety warnings from VIBE British Audio.</p>
 <p>Internet store of autogoods COM.UK</p> <p>130</p> <p>http://130.com.uk</p>	<p>VIBE OPTISOUND BMW Component Speaker Kits - Owners Manual & Specifications</p> <p>Comprehensive guide to VIBE OPTISOUND BMW component speaker kits, including installation, owner's manual, warranty information, specifications, and technical support. Learn how to install and care for your VIBE speakers.</p>