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› Vibrant Performance 12646 Boost Brace User Manual

Vibrant Performance 12646

Vibrant Performance 12646 Anodized Black Boost Brace User Manual

Model: 12646

Brand: Vibrant Performance

1. PRODUCT OVERVIEW

The Vibrant Performance 12646 Anodized Black Boost Brace is designed to provide enhanced support and stability for automotive systems, specifically within exhaust and vibration control assemblies. Manufactured by Vibrant Performance, a global leader in automotive components, this brace is crafted from durable aluminum with an anodized black finish, ensuring longevity and resistance to environmental factors. It includes aluminum dowels for secure installation.



Figure 1: Vibrant Performance 12646 Anodized Black Boost Brace. This image shows the black anodized aluminum brace with the "VIBRANT" logo in the center, flanked by two silver aluminum dowels secured with hex bolts.

2. SPECIFICATIONS

Attribute	Detail
Product Type	Auto Accessory
Model Number	12646
Brand	Vibrant Performance
Color	Black
Material	Aluminum
Item Weight	0.11 Pounds (approx. 1.76 ounces)
Product Dimensions	9.99 x 9.99 x 9.99 inches
Package Quantity	1
Country of Origin	China
UPC	690092161507

3. SETUP AND INSTALLATION

The Vibrant Performance 12646 Boost Brace is designed for integration into existing automotive systems. Proper installation is crucial for optimal performance and safety. It is recommended that installation be performed by a qualified professional or an individual with appropriate mechanical knowledge and tools.

3.1. Required Tools (Typical)

- Appropriate wrench or socket set for hex bolts
- Torque wrench (if specific torque specifications are required by the vehicle manufacturer or application)
- Safety glasses
- Gloves

3.2. Installation Steps (General Guidelines)

1. **Safety First:** Ensure the vehicle or system is safely secured and cooled down before beginning any work. Disconnect power if working near electrical components.
2. **Identify Mounting Location:** Locate the designated mounting points for the boost brace within your specific application. Refer to your vehicle's service manual or the specific component's instructions for precise locations.
3. **Prepare Mounting Surfaces:** Ensure that the mounting surfaces are clean, dry, and free from debris, rust, or old gasket material.
4. **Position the Brace:** Carefully align the Vibrant Performance 12646 Boost Brace with the mounting points.
5. **Secure with Dowels and Bolts:** Insert the aluminum dowels into their respective positions and secure the brace using the provided or appropriate hex bolts.
6. **Tighten Fasteners:** Gradually tighten the bolts in an even pattern to the manufacturer's specified torque settings. Overtightening can damage components, while undertightening can lead to loose connections.
7. **Verify Installation:** After tightening, visually inspect the installation to ensure the brace is securely mounted and does not interfere with any other moving parts or components.

Note: Specific installation procedures may vary depending on the vehicle and the exact application. Always consult relevant service manuals or professional guidance.

4. OPERATING PRINCIPLES

The Vibrant Performance 12646 Boost Brace is a passive component designed to enhance the structural integrity and stability of specific automotive systems, particularly those related to turbocharger and supercharger components or exhaust systems. It does not have active "operating" functions in the traditional sense (e.g., requiring power or user input).

Its primary function is to:

- **Reduce Vibration:** By providing additional bracing, it helps to dampen and reduce unwanted vibrations that can occur in high-stress automotive environments.
- **Improve Stability:** It adds structural support to components, preventing flex or movement that could lead to premature wear or failure.
- **Enhance Durability:** By stabilizing components, it contributes to the overall longevity and reliability of the connected systems.

Once correctly installed, the brace continuously performs its function without further user intervention.

5. MAINTENANCE

The Vibrant Performance 12646 Boost Brace is designed for minimal maintenance due to its durable construction and passive role. However, periodic inspection is recommended to ensure continued performance and safety.

5.1. Recommended Maintenance Schedule

- **Every 6 Months or 5,000 Miles (whichever comes first):**
 - Visually inspect the brace for any signs of damage, such as cracks, bends, or corrosion.
 - Check all mounting bolts for tightness. Vibrations can sometimes cause fasteners to loosen over time. Retorque if necessary, following original installation specifications.
 - Ensure there is no interference with surrounding components.

5.2. Cleaning

If cleaning is necessary, use a mild automotive cleaner and a soft cloth. Avoid abrasive cleaners or harsh chemicals that could damage the anodized finish.

5.3. Replacement

If the brace shows significant signs of wear, damage, or deformation, it should be replaced immediately to maintain system integrity and safety.

6. TROUBLESHOOTING

As a passive component, the Vibrant Performance 12646 Boost Brace typically does not experience "malfunctions." Most issues related to the brace would stem from improper installation or external factors.

Symptom	Possible Cause	Solution
Increased vibration or noise after installation	Loose mounting bolts	Check and retorque all mounting bolts to specifications.
Increased vibration or noise after installation	Improper alignment or interference with other components	Re-inspect the installation for proper alignment. Ensure the brace does not contact other parts during vehicle operation. Adjust or reposition if possible, or consult a professional.
Visible damage to the brace (e.g., bend, crack)	Impact, excessive stress, or material fatigue	The brace is compromised. It must be replaced immediately. Do not attempt to repair.
Corrosion or fading of finish	Exposure to harsh chemicals or extreme environmental conditions	This is typically cosmetic and does not affect structural integrity unless severe. Clean with appropriate products. If structural integrity is compromised, replace the brace.

If you experience persistent issues or are unsure about any aspect of the brace's performance, it is highly recommended to consult with a qualified automotive technician.

7. WARRANTY AND SUPPORT

Vibrant Performance products are manufactured to high standards. For specific warranty information, including terms, conditions, and duration, please refer to the official Vibrant Performance website or contact their customer support directly. Keep your proof of purchase for any warranty claims.

7.1. Customer Support

For technical assistance, installation questions, or warranty inquiries, please contact Vibrant Performance customer service. Contact details can typically be found on their official website:

www.vibrantperformance.com

When contacting support, please have your product model number (12646) and purchase details readily available.

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This manual is for informational purposes only. Vibrant Performance is not responsible for any damage or injury resulting from improper installation or use of this product.