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› Vance & Hines Short Shots Staggered Full System Exhaust User Manual

Vance & Hines 47229

Vance & Hines Short Shots Staggered Full System Exhaust

Model: 47229

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Vance & Hines Short Shots Staggered Full System Exhaust. Designed for specific Harley-Davidson Sportster models, this exhaust system enhances both the sound and performance of your motorcycle.

Please read this manual thoroughly before beginning installation to ensure proper fitment and function.

PRODUCT OVERVIEW



Image: Vance & Hines Short Shots Staggered Full System Exhaust (Model 47229) shown installed on a Harley-Davidson Sportster. The exhaust features a matte black finish and full-length heat shields, providing a sleek, integrated look with the motorcycle's design.

The Vance & Hines Short Shots Staggered exhaust system is engineered to deliver a distinctive "hot rod" sound and improved performance. It features full-length heat shields for a clean look and protection, along with louvered-core baffles. The system is designed with flat plane 12mm oxygen sensor mounts for optimal data feedback to the motorcycle's ECM.

Key Features:

- Signature twin Slash end treatment for a unique aesthetic.
- Full coverage heat shields ensure a clean, integrated appearance and protect against heat.
- Flat plane 12mm oxygen sensor mounts for precise engine management.
- Matte Black finish for a durable and stylish look.
- Manufactured in the USA, ensuring quality and craftsmanship.

COMPATIBILITY

This Vance & Hines Short Shots Staggered Full System Exhaust (Model 47229) is specifically designed for:

- Harley-Davidson Sportster models manufactured between **2014 and 2018**.

Note: Due to state anti-tampering laws, this item cannot be shipped to California, Alaska, and Hawaii. Please verify local regulations before purchase and installation.

SETUP AND INSTALLATION

Installation of the Vance & Hines Short Shots Staggered exhaust system requires basic mechanical knowledge and tools. It is recommended to consult a professional mechanic if you are unsure about any steps.

General Installation Steps (Consult official Vance & Hines instructions for detailed steps):

1. **Preparation:** Ensure the motorcycle is cool. Disconnect the battery. Gather all necessary tools and components.
2. **Remove Stock Exhaust:** Carefully remove the existing exhaust system, including any heat shields and oxygen sensors.
3. **Install New Exhaust:**
 - Attach the new exhaust pipes to the cylinder heads, ensuring proper alignment.
 - Install the full coverage heat shields onto the new pipes.
 - Transfer or install the 12mm oxygen sensors into the new flat plane mounts.
 - Secure the exhaust system to the motorcycle frame using the provided mounting hardware.
4. **Final Checks:** Double-check all connections and fasteners for tightness. Ensure no wires or hoses are pinched.
5. **Reconnect Battery:** Reconnect the motorcycle battery.
6. **Initial Start-up:** Start the motorcycle and check for any exhaust leaks or unusual noises. Allow the engine to reach operating temperature to ensure proper sensor function.

Note: An engine management system recalibration (e.g., with a fuel management system like Vance & Hines Fuelpak) may be required for optimal performance and to prevent engine damage after installing a full exhaust system.

OPERATION

Once installed, the Vance & Hines Short Shots Staggered exhaust system will significantly alter the sound profile of your Harley-Davidson Sportster, providing a deeper, more aggressive tone. The design also contributes to improved exhaust flow, which can lead to enhanced engine performance.

Sound Characteristics:

The louvered-core baffles are designed to produce a "hot rod" sound. For a quieter operation, optional Quiet baffles are available and can be installed separately.

Performance Considerations:

The full system design optimizes exhaust scavenging, which can contribute to horsepower and torque gains. Proper tuning of the motorcycle's Electronic Control Module (ECM) is crucial to fully realize these benefits and ensure the engine runs efficiently and safely with the new exhaust.

MAINTENANCE

Regular maintenance will help preserve the appearance and performance of your Vance & Hines exhaust system.

- **Cleaning:** Clean the matte black finish regularly with a soft cloth and mild, non-abrasive cleaner. Avoid harsh chemicals or abrasive materials that could damage the finish.
- **Inspection:** Periodically inspect all mounting hardware for tightness. Vibrations from motorcycle operation can loosen fasteners over time.
- **Heat Shields:** Check heat shields for any signs of damage or discoloration. Ensure they are securely fastened.
- **Oxygen Sensors:** While generally maintenance-free, ensure the oxygen sensor wires are not frayed or damaged.
- **Baffles:** If you experience changes in sound or performance, inspect the baffles for any obstructions or damage.

TROUBLESHOOTING

Common Issues and Solutions

Issue	Possible Cause	Solution
Excessive Loudness / "Tinny" Sound	Baffles not installed correctly or optional Quiet baffles not used.	Ensure louvered-core baffles are properly seated. Consider installing optional Quiet baffles for reduced sound output.
Exhaust Leaks	Loose clamps or improper gasket seating at the cylinder heads.	Check all clamps and mounting bolts for tightness. Inspect and replace exhaust gaskets if necessary.
Engine Performance Issues (e.g., backfiring, poor idle)	Motorcycle's ECM requires re-tuning for the new exhaust system.	Install a fuel management system (e.g., Vance & Hines Fuelpak) and perform the recommended tuning. Consult a professional if issues persist.
Discoloration of Pipes	Normal heat cycling, or improper engine tuning causing excessive heat.	Minor discoloration is normal. If severe, check engine tuning. Ensure heat shields are properly installed.

SPECIFICATIONS

Attribute	Detail
Brand	Vance & Hines
Model Number	47229
Product Dimensions (L x W x H)	96.5 x 40.6 x 30.5 cm (38 x 16 x 12 inches)
Item Weight	9.53 kg (21 lbs)
Material	Alloy Steel

Attribute	Detail
Finish	Matte Black
Oxygen Sensor Ports	Flat plane 12mm
Compatibility	Harley-Davidson Sportster 2014-2018 Models
Country of Origin	USA

WARRANTY AND SUPPORT

For specific warranty information regarding your Vance & Hines Short Shots Staggered Full System Exhaust, please refer to the documentation included with your product or visit the official Vance & Hines website. Warranty terms typically cover manufacturing defects.

If you require technical assistance, have questions about installation, or need to inquire about replacement parts, please contact Vance & Hines customer support directly. Contact information can usually be found on their official website or in the product packaging.

It is recommended to retain your proof of purchase for warranty claims.

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This manual is for informational purposes only. Always follow professional installation guidelines.

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