

Manuals.plus /

› Dorman /

› Dorman 03411B Exhaust Manifold Hardware Kit Instruction Manual

## Dorman 03411B

# Dorman 03411B Exhaust Manifold Hardware Kit

Instruction Manual

## PRODUCT OVERVIEW

This manual provides essential information and instructions for the Dorman 03411B Exhaust Manifold Hardware Kit. This kit is engineered to directly replace the original hardware components used to secure the exhaust manifold to the engine in specific vehicle applications.

### Kit Contents

- Exhaust Manifold Studs
- Exhaust Manifold Nuts

The Dorman 03411B kit includes all necessary studs and nuts for a complete replacement, ensuring a secure and reliable connection for your exhaust manifold.



## VEHICLE COMPATIBILITY

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The Dorman 03411B Exhaust Manifold Hardware Kit is designed for direct replacement on select Ford, Lincoln, and Mercury models. This kit matches the specifications and performance of the original equipment hardware.

To ensure accurate fitment for your specific vehicle, it is crucial to verify compatibility. Please refer to the product packaging, Dorman's official website, or a reputable automotive parts catalog using your vehicle's make, model, and year.

## INSTALLATION INSTRUCTIONS

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**Safety First:** Always prioritize safety when working on your vehicle. Ensure the vehicle is securely supported on jack stands, the engine is completely cool, and the battery is disconnected to prevent accidental electrical issues. Wear appropriate personal protective equipment, including safety glasses and gloves.

### Required Tools (Typical)

- Socket Wrench Set
- Torque Wrench
- Penetrating Oil
- Wire Brush
- Scraper or Gasket Removal Tool

### Installation Steps

1. **Preparation:** Allow the engine to cool completely. Disconnect the negative battery terminal. Access the exhaust manifold by removing any obstructing components (e.g., heat shields, intake pipes).
2. **Remove Old Hardware:** Apply penetrating oil to the existing exhaust manifold nuts and studs. Allow time for the oil to work. Carefully remove the old nuts and studs. If studs are seized or broken, specialized tools may be required for removal.
3. **Clean Mounting Surfaces:** Thoroughly clean the exhaust manifold and cylinder head mounting surfaces. Remove all old gasket material, rust, and debris using a wire brush and scraper. Ensure surfaces are smooth and flat.
4. **Install New Studs:** Thread the new Dorman studs into the cylinder head by hand until snug. Use a stud installer tool or the double-nut method to fully seat the studs without over-tightening.
5. **Position Manifold:** Carefully place the exhaust manifold, along with a new gasket (if applicable), onto the installed studs. Ensure proper alignment.
6. **Install New Nuts:** Thread the new Dorman nuts onto the studs by hand. Once all nuts are finger-tight, begin tightening them in a crisscross pattern to the manufacturer's specified torque values. Refer to your vehicle's service manual for exact torque specifications.
7. **Final Checks:** Reinstall any components removed during preparation. Reconnect the battery. Start the engine and check for exhaust leaks.



Image: A closer look at the Dorman exhaust manifold studs and nuts, ready for installation.

## MAINTENANCE

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The Dorman 03411B Exhaust Manifold Hardware Kit is constructed from durable materials designed for reliable, long-term performance. No specific routine maintenance is typically required for these hardware components.

However, it is recommended to include an inspection of the exhaust manifold hardware during routine vehicle maintenance. Check for any signs of corrosion, loosening, or damage to the studs and nuts. Addressing any issues promptly can prevent exhaust leaks and potential damage to other engine components.

## TROUBLESHOOTING

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If you encounter issues after installing the Dorman 03411B Exhaust Manifold Hardware Kit, consider the following:

- **Exhaust Leaks:** If you detect an exhaust leak (e.g., hissing sound, exhaust smell), the most common cause is improper torque on the manifold nuts or an improperly seated gasket. Re-check all nuts to ensure they are tightened to the vehicle manufacturer's specified torque values in the correct sequence. Inspect the exhaust manifold gasket for proper installation and integrity.
- **Loose Hardware:** Over time, vibrations can sometimes cause hardware to loosen. If you suspect loose nuts, re-torque them to specifications. The nuts in this kit are designed to resist loosening, but periodic checks are good practice.
- **Damaged Components:** If any studs or nuts appear visibly damaged (e.g., stripped threads, severe corrosion), they should be replaced immediately to maintain the integrity of the exhaust system.

If troubleshooting steps do not resolve the issue, it is advisable to consult a qualified automotive technician.

## PRODUCT SPECIFICATIONS

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Specification	Detail
Brand	Dorman
Model Number	03411B
Material	Alloy Steel
Item Weight	0.01 ounces
Product Dimensions	2.2 x 2.4 x 3.6 inches
Installation Type	Bolt-On
Vehicle Service Type	Car
UPC	037495029667

## WARRANTY AND SUPPORT

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For detailed warranty information, technical support, or to find additional Dorman products, please visit the official Dorman website or contact Dorman customer service directly.

You can also visit the Dorman store for more products and information: [Dorman Store on Amazon](#)