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› Genuine Honda 18115-PNB-003 Exhaust Manifold Gasket User Manual

Honda 18115-PNB-003

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Model: 18115-PNB-003 | Brand: Honda

INTRODUCTION

This manual provides comprehensive instructions for the installation, maintenance, and troubleshooting of the Genuine Honda 18115-PNB-003 Exhaust Manifold Gasket. This product is an authentic Honda replacement part designed to ensure proper sealing and performance of your vehicle's exhaust system. Please read this manual thoroughly before proceeding with installation or any related procedures.

PRODUCT OVERVIEW

The Honda 18115-PNB-003 is an OEM (Original Equipment Manufacturer) exhaust manifold gasket. It is engineered to provide a precise fit and reliable seal between the engine cylinder head and the exhaust manifold, preventing exhaust gas leaks. This gasket is a direct fit for specific Honda models, including the CR-V '02-'05 and certain 2009 Honda Civic Si models.



Image 1: Packaging for the Genuine Honda 18115-PNB-003 Exhaust Manifold Gasket, showing the Honda brand and part number.

Key Features:

- **Genuine OEM Part:** Ensures compatibility and performance matching original factory specifications.
- **Direct Fit:** Designed for specific Honda models for straightforward replacement.
- **Durable Material:** Constructed to withstand high temperatures and pressures within the exhaust system.

SAFETY INFORMATION

Always prioritize safety when working on your vehicle. Failure to follow safety precautions can result in injury or damage to the vehicle.

- Ensure the vehicle is parked on a level surface and the engine is cool before beginning any work.
- Disconnect the negative terminal of the battery to prevent electrical hazards.
- Use appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Support the vehicle securely with jack stands if lifting is required. Do not rely solely on a jack.
- Refer to your vehicle's specific service manual for detailed instructions and torque specifications.
- Exhaust components can be sharp; handle with care.

INSTALLATION INSTRUCTIONS

This section outlines the general procedure for replacing an exhaust manifold gasket. Specific steps may vary depending on your vehicle model. Always consult your vehicle's service manual for precise instructions.

Tools and Materials Required:

- Genuine Honda 18115-PNB-003 Exhaust Manifold Gasket
- Socket wrench set and extensions
- Torque wrench
- Penetrating oil (e.g., WD-40)
- Wire brush or gasket scraper
- Clean rags
- Safety glasses and gloves

Procedure:

1. **Preparation:** Ensure the engine is completely cool. Disconnect the negative battery terminal. If necessary, lift the vehicle and secure it with jack stands.
2. **Access the Manifold:** Locate the exhaust manifold. Depending on your vehicle, you may need to remove other components (e.g., heat shields, air intake) to gain access.
3. **Disconnect Exhaust Pipe:** Loosen and remove the bolts connecting the exhaust manifold to the exhaust downpipe. Apply penetrating oil if bolts are seized.
4. **Remove Manifold Bolts:** Carefully loosen and remove the bolts or nuts securing the exhaust manifold to the cylinder head. Work in a cross-pattern to prevent warping.
5. **Remove Manifold:** Gently pull the exhaust manifold away from the cylinder head. Be mindful of any sensors or vacuum lines still attached.
6. **Remove Old Gasket:** Scrape off any remnants of the old gasket material from both the cylinder head and the exhaust manifold surfaces using a gasket scraper or wire brush. Ensure surfaces are clean and smooth.
7. **Install New Gasket:** Position the new Genuine Honda 18115-PNB-003 gasket onto the cylinder head studs or manifold. Ensure it is correctly oriented.
8. **Reinstall Manifold:** Carefully place the exhaust manifold back onto the studs, aligning it with the new gasket.
9. **Tighten Manifold Bolts:** Hand-tighten all manifold bolts/nuts. Then, using a torque wrench, tighten them to the manufacturer's specified torque in a cross-pattern. Refer to your vehicle's service manual for exact torque values.
10. **Reconnect Exhaust Pipe:** Reconnect the exhaust downpipe to the manifold, installing new gaskets and hardware if recommended by the manufacturer. Tighten to specifications.
11. **Reassemble Components:** Reinstall any components that were removed to access the manifold (e.g., heat shields, air intake).
12. **Final Checks:** Reconnect the negative battery terminal. Start the engine and check for any exhaust leaks. Listen for hissing sounds, which indicate a leak.

MAINTENANCE

Exhaust manifold gaskets are generally maintenance-free components once properly installed. However, regular inspection of your exhaust system can help identify potential issues early.

- Periodically inspect the exhaust manifold area for signs of exhaust leaks, such as black soot around the gasket or a ticking sound from the engine bay, especially when cold.
- Ensure all exhaust system hangers and mounts are secure to prevent excessive stress on the manifold and gasket.

- Address any engine misfires or rich fuel conditions promptly, as these can lead to excessive heat and premature gasket failure.

TROUBLESHOOTING

If you experience issues after installing the exhaust manifold gasket, consider the following common problems and solutions:

Symptom	Possible Cause	Solution
Hissing or ticking sound from engine bay (especially when cold)	Exhaust leak at the manifold gasket	Re-check manifold bolt torque. Inspect gasket for proper seating or damage. Replace if necessary.
Strong exhaust smell in cabin	Exhaust leak	Inspect all exhaust connections, including the manifold gasket, for leaks. Ensure proper ventilation when driving.
Reduced engine performance or check engine light	Significant exhaust leak affecting O2 sensor readings	Address any exhaust leaks. Have the vehicle diagnosed by a qualified technician to clear codes and verify sensor operation.

SPECIFICATIONS

Attribute	Detail
Part Number	18115-PNB-003
Brand	Honda
Material	OEM Standard Material
Compatibility	Honda CR-V '02-'05, 2009 Honda Civic Si (verify with vehicle's service manual)
Item Weight	Approximately 2.82 ounces (79.95 grams)
Package Dimensions	Approximately 15.5 x 5 x 0.3 inches

WARRANTY INFORMATION

Genuine Honda parts typically come with a manufacturer's warranty against defects in materials and workmanship. For specific warranty terms and conditions applicable to the 18115-PNB-003 Exhaust Manifold Gasket, please refer to the official Honda warranty documentation provided with your purchase or contact an authorized Honda dealer.

SUPPORT

For technical assistance, questions regarding installation, or warranty claims, please contact your authorized Honda dealer or visit the official Honda automotive parts website. When contacting support, please have your vehicle's VIN and the part number (18115-PNB-003) readily available.

