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## Dorman 615-207

# Dorman 615-207 Engine Intake Manifold Gasket Set Instruction Manual

Model: 615-207 | Brand: Dorman

## PRODUCT OVERVIEW

This Dorman 615-207 Engine Intake Manifold Gasket Set is engineered as a direct replacement to match the original gaskets required to reseal and restore proper function to the intake manifold on specified vehicles. It is designed to address common issues found in General Motors 1.4L Ecotec 4-cylinder engines, ensuring a reliable and permanent repair solution.

## KEY FEATURES

- **Direct Replacement:** Designed to match original gaskets for a precise fit and function.
- **Restores Functionality:** Effectively reseals and restores proper function after original gasket failure.
- **Durable Construction:** Manufactured from quality materials for reliable performance and extended service life.
- **Trustworthy Quality:** Backed by Dorman's century of automotive experience and product experts.
- **Improved Design:** The intake manifold features a redesigned retaining mechanism to prevent the PCV valve from becoming dislodged, a common failure point in original equipment.

## COMPATIBILITY

This gasket set is compatible with various General Motors vehicles equipped with the 1.4L Ecotec 4-cylinder engine. Please verify fitment for your specific vehicle trim before installation.

### Compatible Vehicles:

- **Buick Allure:** 2006-2009
- **Buick LaCrosse:** 2006-2009
- **Buick LeSabre:** 1996-2005
- **Buick Lucerne:** 2006-2008
- **Buick Park Avenue:** 1995-2005

- **Buick Regal:** 1996-2004
- **Buick Riviera:** 1995-1997
- **Chevrolet Impala:** 2000-2005
- **Chevrolet Lumina:** 1998-1999
- **Chevrolet Monte Carlo:** 1998-2005
- **Oldsmobile 88:** 1995-1999
- **Oldsmobile 98:** 1995-1996
- **Oldsmobile Intrigue:** 1998-1999
- **Oldsmobile LSS:** 1996-1999
- **Oldsmobile Regency:** 1997-1998
- **Pontiac Bonneville:** 1995-2005
- **Pontiac Grand Prix:** 1997-2008

## INSTALLATION AND REPAIR CONSIDERATIONS

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When addressing issues related to the intake manifold or valve cover in compatible General Motors 1.4L Ecotec engines, it is crucial to inspect both components. Problems with one often indicate underlying issues or potential future failures in the other due to their direct relationship in the PCV system.

### Common Issues and Diagnosis:

The original equipment intake manifold design can lead to the internal PCV valve becoming dislodged over time. This can result in excessive oil consumption from blow-by and create excessive vacuum, which can damage the PCV diaphragm in the valve cover. If the PCV valve in the intake manifold is missing or dislodged, the intake manifold must be replaced. To inspect the valve cover, remove the PCV cap and check if the diaphragm is intact, not torn, or missing. For the intake manifold, look inside the intake runner for the small orange flap. If it is missing, the manifold requires replacement.

### Recommended Repair Procedure:

Replacing both the intake manifold and the valve cover simultaneously is highly recommended. This approach saves significant labor time as the repair procedures for both components are similar. More importantly, it ensures a comprehensive and permanent repair, preventing repeated failures and dissatisfaction caused by addressing only one part of the interconnected system.

  
**Video:** Dorman 615-207 Intake Manifold Overview and Diagnostic Tips. This video explains the common failure points of the original equipment intake manifold and valve cover in 1.4L Ecotec engines, and demonstrates how to inspect them for damage. It highlights the benefits of replacing both components together for a lasting repair.

## MAINTENANCE TIPS

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- Regularly inspect the PCV system components, including the valve cover diaphragm and the intake manifold's internal PCV valve (orange flap), for any signs of damage or dislodgement.
- Consider flushing your cooling system and replacing old coolant with a suitable type for aluminum heads, such as green coolant, to prevent corrosion and extend the life of engine components, including gaskets.
- When replacing intake manifold gaskets, it is often advisable to also replace valve cover gaskets to ensure a complete seal and prevent future leaks.

## TROUBLESHOOTING COMMON ISSUES

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If you experience symptoms such as excessive oil consumption or engine vacuum issues, it is highly probable that either the intake manifold's internal PCV valve or the valve cover's PCV diaphragm is compromised. Follow the inspection steps outlined in the "Installation and Repair Considerations" section to diagnose the specific component at fault.

- **Excessive Oil Consumption:** Often linked to a dislodged PCV valve in the intake manifold, leading to blow-by.
- **Engine Vacuum Issues:** Can be caused by a damaged PCV diaphragm in the valve cover due to excessive vacuum from a faulty intake manifold PCV valve.
- **Premature Failure of New Valve Cover:** If a new valve cover fails shortly after replacement, it is likely due to an unaddressed issue with the intake manifold's PCV valve. Always inspect both.

## PRODUCT SPECIFICATIONS

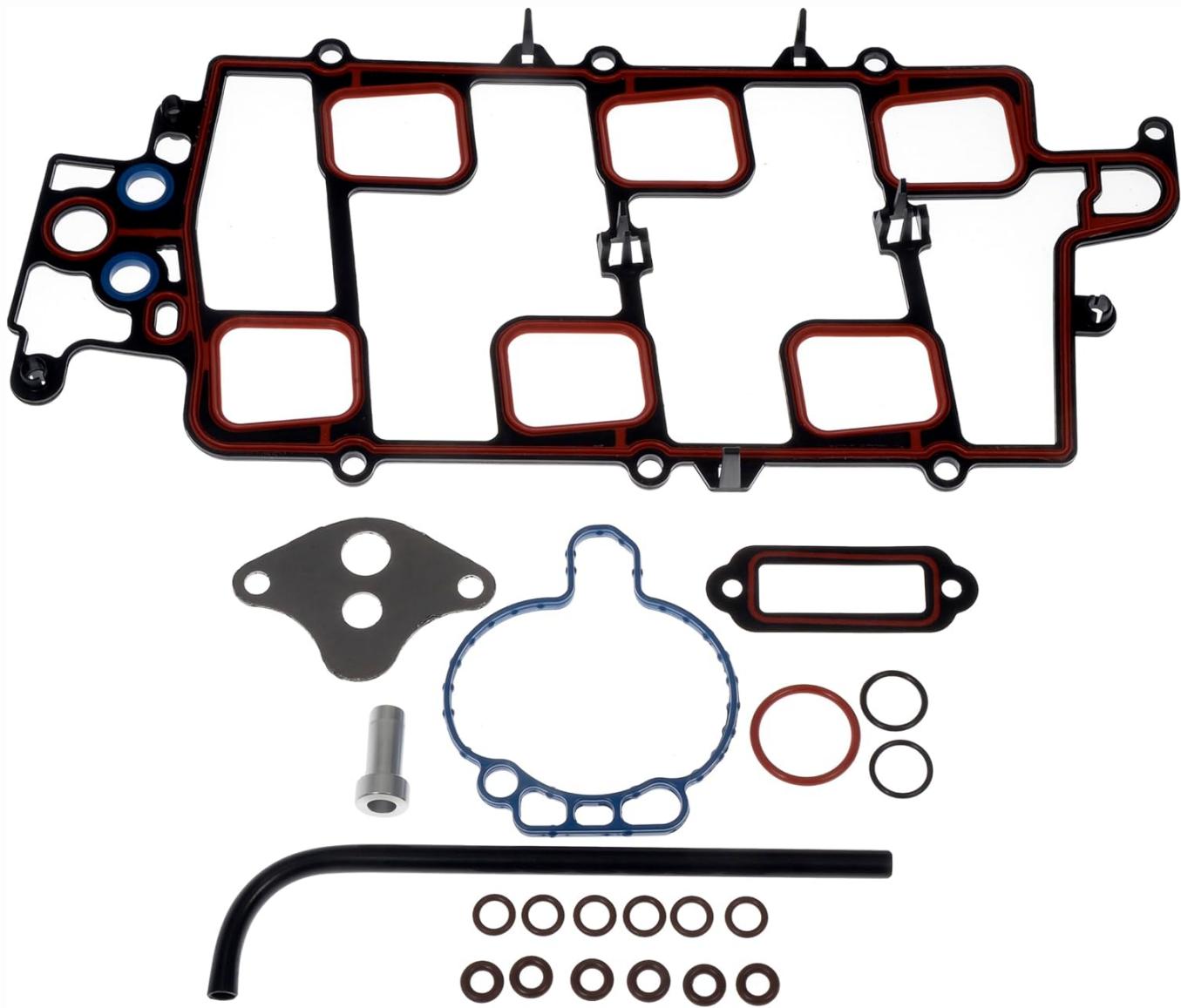
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### Dorman 615-207 Intake Manifold Gasket Set

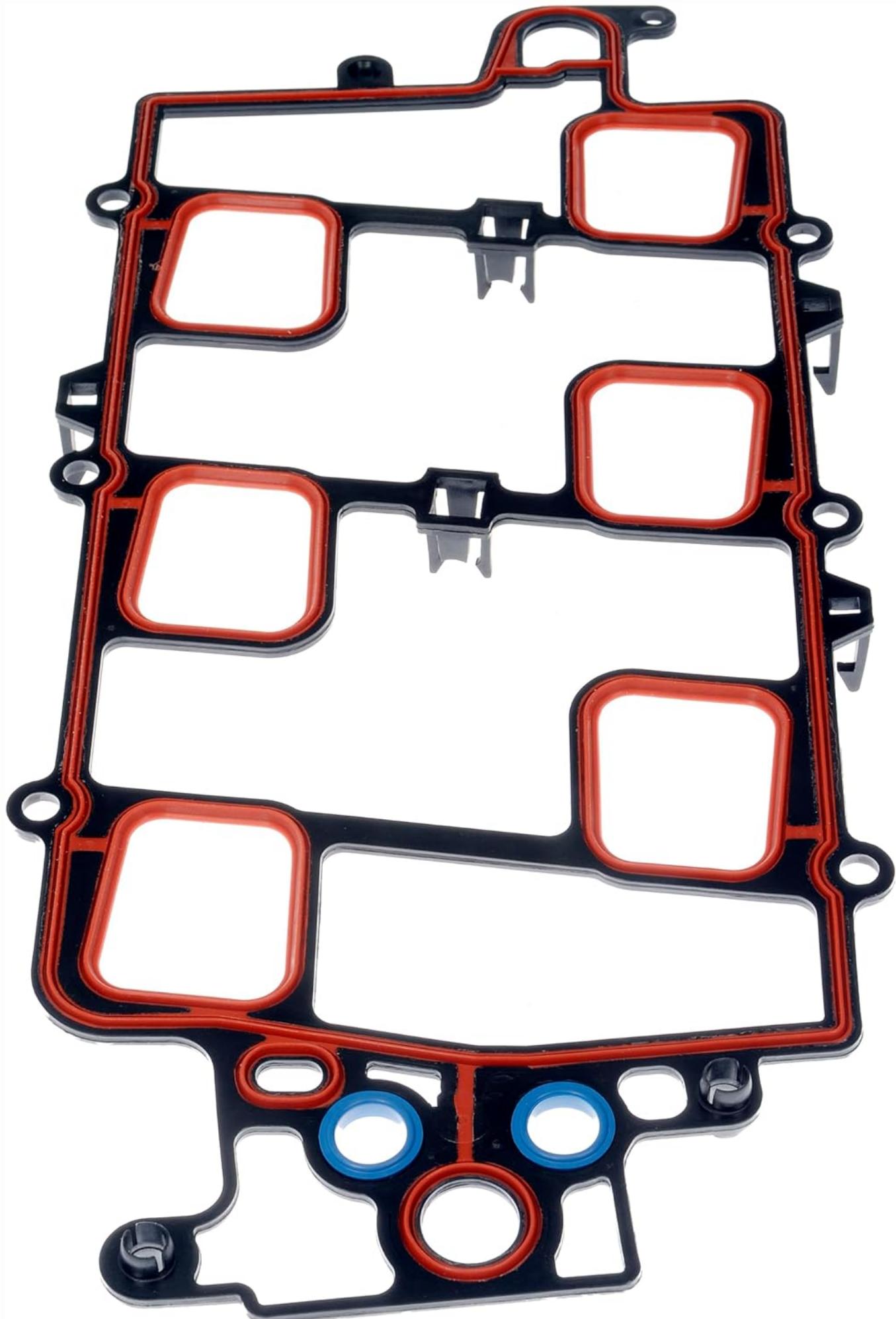
Specification	Detail
Manufacturer	Dorman Products
Brand	Dorman
Model	Intake Gasket Kit
Item Weight	1 pounds
Product Dimensions	19.4 x 9 x 4.8 inches
Country of Origin	China
Item Model Number	615-207
OEM Part Number	SK615207; 89017554
First Available Date	December 1, 2009

## PRODUCT IMAGES

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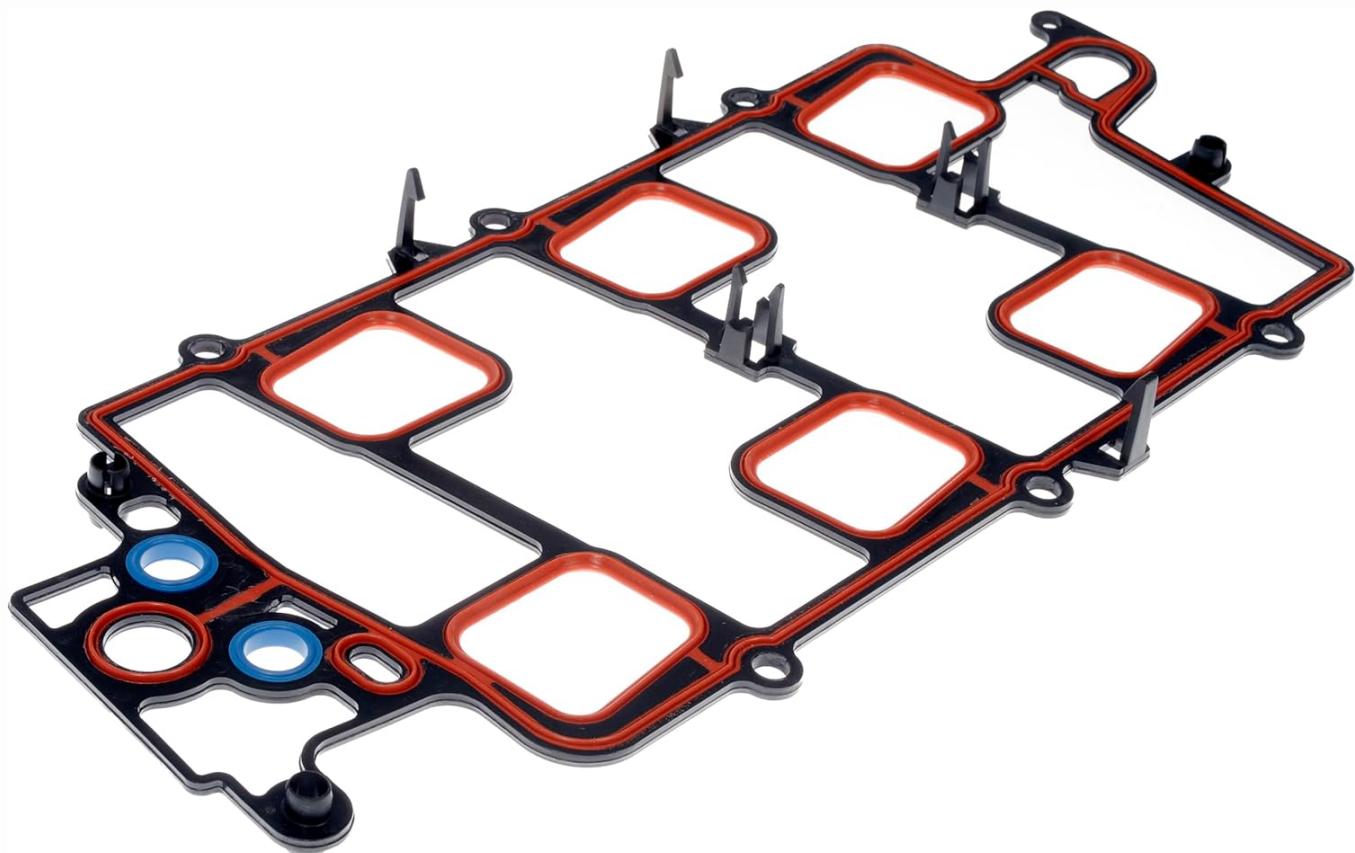
**Image 1:** A comprehensive view of the Dorman 615-207 Engine Intake Manifold Gasket Set, showing all included components for a complete repair.



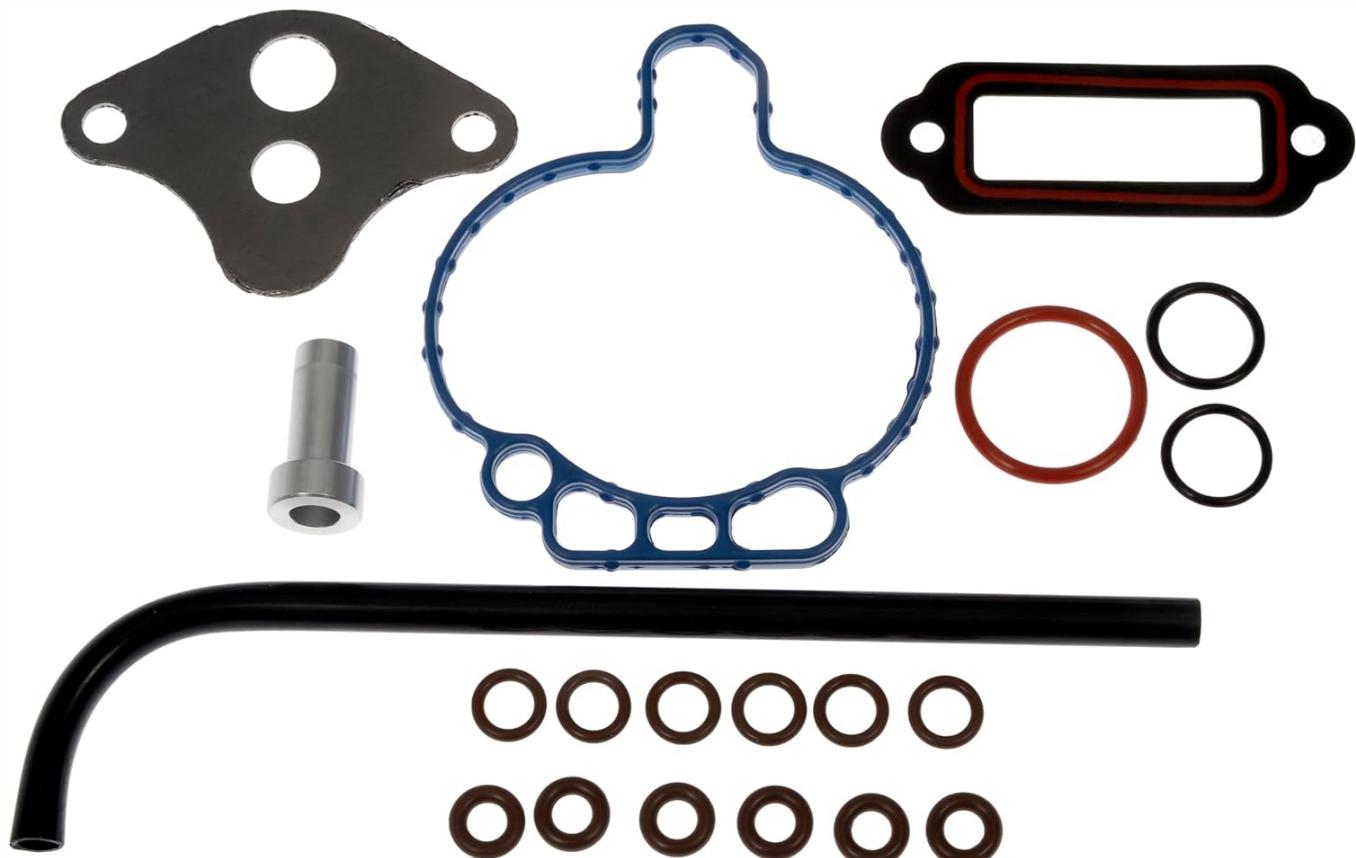
**Image 2:** Top-down perspective of the main intake manifold gasket, highlighting its shape and sealing surfaces.



**Image 3:** An angled view of the intake manifold gasket, showing the intricate design and port openings.



**Image 4:** A detailed close-up of the intake manifold gasket, emphasizing the blue and red sealing elements for optimal performance.



**Image 5:** Various smaller gaskets, O-rings, and a hose included in the Dorman 615-207 set, essential for a complete seal.



**Image 6:** An alternative angled view of the primary intake manifold gasket, showcasing its structural integrity.

## WARRANTY AND SUPPORT

Dorman products are backed by a team of product experts in the United States and over a century of automotive experience, ensuring trustworthy quality. For specific warranty details or technical support, please refer to the official Dorman website or contact their customer service directly.

You can visit the official Dorman Store for more information: [Dorman Store on Amazon](#).

