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› Dorman 615-188 Plastic Intake Manifold - Includes Gaskets Compatible with Select Ford Models (Made in USA)

## Dorman 615-188

# Dorman 615-188 Plastic Intake Manifold Instruction Manual

Model: 615-188 | Brand: Dorman

## 1. INTRODUCTION

The Dorman 615-188 Plastic Intake Manifold is engineered as a reliable replacement for original equipment manifolds on select Ford vehicles equipped with 5.4L V8 engines. This product is designed, engineered, and manufactured in the United States to ensure consistent quality and precise construction, matching the fit, function, and performance of the original part.

Key features include:

- Integrated gaskets that sit directly in the manifold, designed to reduce contact points with the cylinder head and help prevent potential air leaks.
- A complete kit including the durable polymer manifold, auxiliary coolant fitting, thermostat, specially designed gaskets, O-ring, and self-tapping screws.
- An integrated PCV nipple for proper vacuum maintenance.
- An updated thermostat design to prevent coolant leaks.
- A clamp to secure the coolant block-off cap.



Figure 1: Overview of the Dorman 615-188 Plastic Intake Manifold.

## 2. SETUP AND INSTALLATION

Installation of the Dorman 615-188 intake manifold involves replacing the existing manifold. It is crucial to follow proper automotive repair procedures and consult a professional if unsure. The kit provides all necessary components for a complete replacement.

### 2.1 Components Included

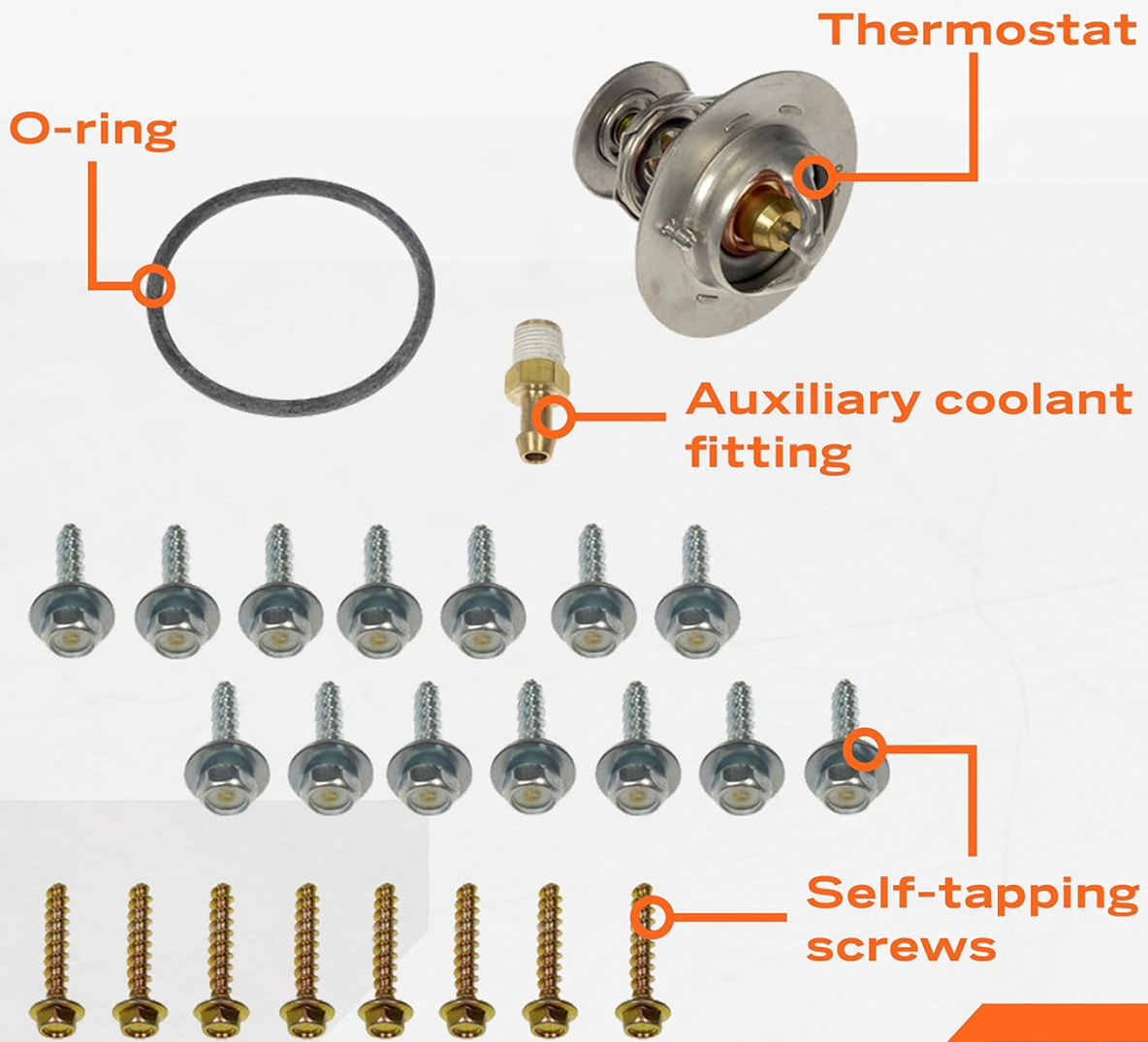
The Dorman 615-188 kit includes the following parts:

- Plastic Intake Manifold
- Auxiliary Coolant Fitting
- Thermostat
- Specially Designed Gaskets (pre-installed or included for installation)
- O-ring
- Self-tapping Screws
- Integrated PCV Nipple
- Coolant Block-off Cap Clamp



Figure 2: All components included in the Dorman 615-188 kit, showing the manifold, thermostat, O-ring, auxiliary coolant fitting, and various screws.

# COMPLETE KIT



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Figure 3: Close-up view of the thermostat, O-ring, auxiliary coolant fitting, and self-tapping screws provided in the kit.

## 2.2 Gasket Design

The manifold features specially designed integrated gaskets. These gaskets are engineered to provide a secure seal and reduce the likelihood of air leaks, which can be a common issue with older manifold designs.

## IDEAL REPLACEMENT

Specially designed integrated gaskets modify OEM design to help prevent potential air leaks



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Figure 4: The intake manifold highlighting the specially designed integrated gaskets, which improve sealing and prevent air leaks.

### 3. OPERATION AND FUNCTION

The intake manifold is a critical component of an internal combustion engine, responsible for distributing the air-fuel mixture (or air, in the case of fuel-injected engines) evenly to each cylinder. The Dorman 615-188 ensures optimal air flow and mixture distribution for efficient engine operation.

Once installed, the manifold functions passively as part of the engine's air intake system. Its robust polymer construction and improved gasket design contribute to long-term reliability and consistent performance under various operating conditions.

## 4. MAINTENANCE

While the Dorman 615-188 intake manifold is designed for durability and minimal maintenance, periodic inspection is recommended as part of routine vehicle servicing. Key areas to check include:

- **Gasket Integrity:** Visually inspect the manifold-to-cylinder head mating surfaces for any signs of air or coolant leaks. Early detection of leaks can prevent more significant engine issues.
- **Hose Connections:** Ensure all vacuum lines and coolant hoses connected to the manifold are secure and free from cracks or damage.
- **PCV Nipple:** Verify the integrated PCV nipple is clear and not obstructed, ensuring proper crankcase ventilation.
- **Thermostat Housing:** Check the area around the thermostat for any signs of coolant seepage, especially given the updated thermostat design.

Any signs of wear, damage, or leaks should be addressed promptly by a qualified technician.

## 5. TROUBLESHOOTING

Common issues related to intake manifolds often manifest as engine performance problems. If you experience any of the following, consider inspecting the intake manifold and its associated components:

### 5.1 Common Symptoms of Intake Manifold Issues

- **Engine Misfires or Rough Idling:** Often caused by vacuum leaks from damaged gaskets or cracks in the manifold, leading to an incorrect air-fuel mixture.
- **Coolant Leaks:** Visible coolant puddles or a noticeable drop in coolant level can indicate a leak from the manifold's coolant passages or thermostat housing.
- **Reduced Engine Performance:** A compromised manifold can lead to decreased power, poor acceleration, or reduced fuel efficiency.
- **Check Engine Light:** Vacuum leaks or other manifold-related issues can trigger diagnostic trouble codes (DTCs) and illuminate the check engine light.

### 5.2 Diagnostic Steps

1. **Visual Inspection:** Carefully examine the entire manifold for visible cracks, especially around mounting points and coolant passages. Check all hose connections for tightness.
2. **Leak Detection:** Use a smoke machine or spray carburetor cleaner around the manifold gaskets and vacuum lines while the engine is running. A change in engine RPM indicates a vacuum leak.
3. **Coolant System Check:** Pressure test the cooling system to identify any coolant leaks from the manifold or thermostat area.

For complex issues or if you are not comfortable performing these checks, it is highly recommended to seek assistance from a certified automotive technician.

## 6. SPECIFICATIONS

Attribute	Detail
Manufacturer	Dorman Products
Brand	Dorman
Model	Dorman 615-188
Item Weight	11.73 pounds
Product Dimensions	19.6 x 17.3 x 10.8 inches
Item Model Number	615-188
Manufacturer Part Number	615-188
OEM Part Numbers	106010; 615188; FD1413041; SK615188; XT-A025; 2L1Z-9424-AA; 4C2Z-9424-CA; 5C2Z9424AA; 9C2Z9424AA; AC2Z9424A
Position	Center
ASIN	B003QVJ79K
First Available Date	December 1, 2009

## 7. WARRANTY AND SUPPORT

Dorman products are manufactured to high standards. For specific warranty information regarding the Dorman 615-188 Plastic Intake Manifold, please refer to the warranty documentation provided with your purchase or visit the official Dorman website.

For technical assistance, installation guidance, or troubleshooting support, it is recommended to contact Dorman customer service directly or consult their online resources. Additional documentation, such as the Installation Manual (PDF) and Troubleshooting Guide (PDF), may be available for further reference.