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› Dorman 42324 PCV Grommet Instruction Manual

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Model: 42324

1. PRODUCT OVERVIEW

The Dorman 42324 PCV (Positive Crankcase Ventilation) valve grommet is engineered as a direct replacement component. It is designed to match the fit and function of the original grommet in specified vehicles, ensuring reliable performance and a long service life. This grommet is crucial for maintaining proper engine ventilation and preventing vacuum leaks.



Figure 1: Front view of the Dorman 42324 PCV Grommet, showcasing its black rubber construction and circular design.

Key Features:

- **Direct Replacement:** Designed to precisely match the original grommet's fit and function.
- **Restores Functionality:** Effectively replaces failed original grommets to restore proper engine operation.
- **Durable Construction:** Manufactured from quality materials for reliable performance and extended durability.
- **Quality Assurance:** Backed by Dorman's century of automotive experience and product experts.

2. VEHICLE COMPATIBILITY

The Dorman 42324 PCV Grommet is compatible with specific Ford models. To ensure accurate fitment for your vehicle, it is recommended to verify compatibility using a vehicle fitment tool or by cross-referencing with the OEM part numbers.

Known Compatible Vehicles:

- Ford Aerostar: 1991, 1992, 1993
- Ford Ranger: 1991, 1992, 1993

Note: Always confirm fitment for your exact make, model, and trim level before installation.

3. SPECIFICATIONS

Specification	Detail
Brand	Dorman
Model	42324
Item Weight	0.64 ounces
Product Dimensions	5.5 x 3.47 x 0.75 inches
Exterior	Machined
Manufacturer Part Number	42324
OEM Part Number	423243; GV26; F1DZ 6A892-A



Figure 2: Top-down view of the Dorman 42324 PCV Grommet, highlighting its internal diameter and overall shape.



Figure 3: Angled view of the Dorman 42324 PCV Grommet, showing the groove for secure seating.

4. INSTALLATION (SETUP)

Replacing a PCV grommet is a straightforward process, but proper care should be taken to ensure a secure fit and prevent damage to surrounding components.

Required Tools:

- Flathead screwdriver or pry tool (for old grommet removal)
- Gloves
- Clean rag

Installation Steps:

1. **Safety First:** Ensure the engine is cool and the vehicle is turned off. Disconnect the negative battery terminal if working near electrical components.
2. **Locate PCV Valve:** Identify the PCV valve, typically located on the valve cover.
3. **Remove PCV Valve:** Gently pull the PCV valve out of the old grommet.
4. **Remove Old Grommet:** Use a flathead screwdriver or pry tool to carefully pry out the old, worn-out grommet from the valve cover. Be cautious not to scratch or damage the valve cover.
5. **Clean Area:** Clean any oil residue or debris from the valve cover opening where the new grommet will be installed.
6. **Install New Grommet:** Press the new Dorman 42324 PCV Grommet firmly into the valve cover opening until it is fully seated and flush.
7. **Reinstall PCV Valve:** Insert the PCV valve into the new grommet, ensuring a snug and secure fit.
8. **Reconnect Hoses:** Reconnect any hoses that were detached from the PCV valve.
9. **Final Check:** Visually inspect the installation to ensure all components are properly seated and there are no visible gaps.

5. FUNCTION (OPERATING PRINCIPLE)

The PCV grommet serves as a seal for the PCV valve, which is an integral part of the Positive Crankcase Ventilation system. This system is designed to remove harmful blow-by gases from the engine's crankcase and route them back into the intake manifold to be re-burned. The grommet ensures an airtight seal, preventing unmetered air from entering the engine and maintaining proper vacuum levels. A properly functioning grommet is essential for engine efficiency, emissions control, and overall engine health.

6. MAINTENANCE

PCV grommets are typically made of rubber and can degrade over time due to exposure to heat, oil, and engine vapors. Regular inspection and timely replacement are crucial for optimal engine performance.

Maintenance Schedule:

- **Visual Inspection:** Inspect the PCV grommet for cracks, hardening, or signs of oil leakage every 30,000 miles or during routine oil changes.
- **Replacement:** Replace the grommet if it shows any signs of wear, damage, or if it no longer provides a tight seal for the PCV valve. It is often recommended to replace the PCV valve and grommet together.

7. TROUBLESHOOTING

A failing PCV grommet can lead to various engine issues. Recognizing these symptoms can help in timely diagnosis and replacement.

Common Symptoms of a Failing PCV Grommet:

- **Vacuum Leaks:** Hissing sounds from the engine bay, rough idle, or engine misfires.
- **Increased Oil Consumption:** Oil leaking around the PCV valve or excessive oil consumption.
- **Check Engine Light:** Illumination of the check engine light due to incorrect air-fuel mixture.
- **Engine Performance Issues:** Reduced engine power, poor acceleration, or stalling.
- **Visible Damage:** Cracks, hardening, or deterioration of the rubber material.

If you experience any of these symptoms, inspect the PCV grommet and replace it if necessary.

8. ADDITIONAL RESOURCES

Product Videos:

4PCS Rubber PCV Breather Grommet Overview

This video provides a general overview of rubber PCV breather grommets, demonstrating their flexibility and basic design. It showcases multiple grommets and their physical characteristics.

5339 PCV Valve Grommet Measurement

This video demonstrates the measurement of a PCV valve grommet, showing how to determine its inner and outer diameters and thickness using a digital caliper. This can be useful for understanding the dimensions of similar grommets.

Calvana 5339 Rubber PCV Valve Grommet Features

This video highlights the features and benefits of a rubber PCV valve grommet, emphasizing its quality and suitability as a replacement part. It provides visual context for the product's application.

9. WARRANTY AND SUPPORT

For specific warranty information or technical support regarding your Dorman 42324 PCV Grommet, please refer to the official Dorman product packaging or visit the Dorman website. Dorman products are typically backed by a limited warranty against defects in materials and workmanship.

Contact Dorman customer service for assistance with product inquiries, installation questions, or warranty claims.

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