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Standard Motor Products V267

Standard Motor Products V267 PCV Valve Instruction Manual

Model: V267 | Brand: Standard Motor Products

1. INTRODUCTION

This manual provides essential information for the proper understanding, installation, and maintenance of your Standard Motor Products V267 PCV Valve. The Positive Crankcase Ventilation (PCV) valve is a critical component in your vehicle's emission control system, designed to recirculate unburnt gases from the crankcase back into the engine's intake manifold to be re-burned. This process helps reduce harmful emissions and prevents sludge buildup within the engine.

2. PRODUCT OVERVIEW

The Standard Motor Products V267 PCV Valve is engineered to meet or exceed OEM specifications, ensuring reliable performance and durability. It is designed for specific vehicle applications to maintain optimal engine efficiency and emission compliance. This valve helps manage crankcase pressure, preventing oil leaks and promoting cleaner engine operation.

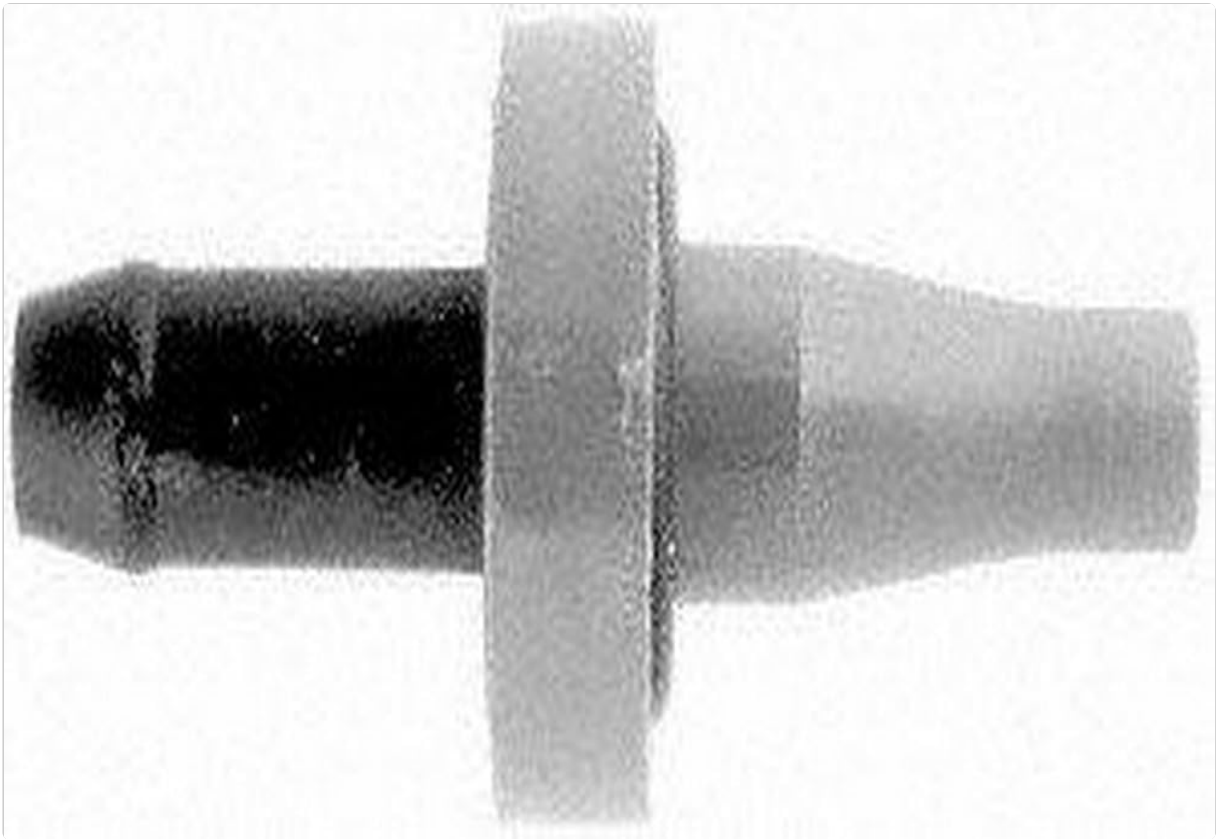


Figure 1: Standard Motor Products V267 PCV Valve. This image displays the physical appearance of the V267 PCV valve, showing its inlet and outlet connections and overall compact design.

3. SPECIFICATIONS

Brand	Standard Motor Products
Model Number	V267
Item Weight	0.32 ounces (approx. 0.022 pounds)
Product Dimensions (L x W x H)	1.5 x 1.16 x 2.88 inches
Exterior Finish	Machined
Inlet Connection Type	Positive Crankcase Ventilation
Outlet Connection Type	Positive Crankcase Ventilation
Outlet Connection Size	2.88 Inches
UPC	091769080471

4. INSTALLATION (SETUP)

Replacing a PCV valve typically involves a straightforward process, but it is crucial to consult your vehicle's specific service manual for exact location and removal procedures. Incorrect installation can lead to engine performance issues or damage.

General Installation Steps:

- Safety First:** Ensure the engine is cool and the vehicle is parked on a level surface with the parking brake

engaged. Disconnect the negative terminal of the battery to prevent accidental electrical issues.

2. **Locate the PCV Valve:** Refer to your vehicle's service manual to find the exact location of the PCV valve. It is commonly found on the valve cover or intake manifold.
3. **Disconnect Hoses:** Carefully disconnect any hoses connected to the PCV valve. These hoses may be brittle, so exercise caution to avoid damage.
4. **Remove Old Valve:** The PCV valve is usually threaded into place or held by a grommet. Unscrew or pull out the old valve. If it's a grommet type, a slight twisting motion may help.
5. **Inspect Grommet/Hoses:** Inspect the grommet (if applicable) and hoses for cracks, hardening, or damage. Replace them if necessary to ensure a proper seal.
6. **Install New Valve:** Insert the new Standard Motor Products V267 PCV Valve into its housing. If threaded, tighten it to the manufacturer's specified torque. If grommet-type, push it firmly into place until seated.
7. **Reconnect Hoses:** Reconnect all hoses securely to the new PCV valve.
8. **Reconnect Battery:** Reconnect the negative battery terminal.
9. **Test:** Start the engine and check for any unusual noises or vacuum leaks.

Note: If you are unsure about any step, it is recommended to seek assistance from a qualified automotive technician.

5. OPERATION

The PCV valve is a one-way valve that regulates the flow of crankcase gases. When the engine is running, a slight vacuum is created in the intake manifold. This vacuum draws crankcase gases (blow-by gases) through the PCV valve and into the intake manifold, where they are mixed with the fresh air/fuel mixture and re-burned. The valve's internal mechanism adjusts the flow rate based on engine vacuum, ensuring proper ventilation under various operating conditions (idle, acceleration, deceleration). A properly functioning PCV valve is essential for maintaining engine cleanliness, preventing oil contamination, and reducing emissions.

6. MAINTENANCE

The PCV valve is a wear item and should be inspected and replaced periodically as part of routine vehicle maintenance. Over time, it can become clogged with oil sludge and carbon deposits, leading to improper operation.

Recommended Maintenance:

- **Inspection:** Inspect the PCV valve and its hoses every 12,000 to 15,000 miles or annually, as recommended by your vehicle manufacturer. Check for blockages, cracks in hoses, or a stuck valve.
- **Replacement:** Replace the PCV valve according to your vehicle manufacturer's recommended service intervals, typically every 30,000 to 50,000 miles, or if it shows signs of malfunction during inspection.
- **Cleaning (Not Recommended):** While some older PCV valves could be cleaned, modern valves are generally designed for replacement. Attempting to clean a clogged valve may not fully restore its function and could lead to premature failure.

7. TROUBLESHOOTING

A faulty PCV valve can lead to various engine problems. Here are common symptoms and potential causes:

Symptom	Possible Cause (PCV Related)
Increased Oil Consumption	Clogged PCV valve, allowing excessive vacuum to pull oil into the intake.

Symptom	Possible Cause (PCV Related)
Engine Oil Leaks	Clogged PCV valve causing excessive crankcase pressure.
Rough Idle or Stalling	Stuck open PCV valve creating a vacuum leak.
Engine Misfires	Improper air/fuel mixture due to a malfunctioning PCV valve.
Check Engine Light (CEL)	Diagnostic Trouble Codes (DTCs) related to emission system or vacuum leaks.
Sludge Buildup in Engine	Clogged PCV valve preventing proper ventilation of crankcase gases.

If you experience any of these symptoms, it is advisable to inspect your PCV valve and related hoses. If the valve is found to be faulty, replace it with a new Standard Motor Products V267 PCV Valve.

8. SAFETY INFORMATION

- Always allow the engine to cool down completely before working on any engine components.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the vehicle is securely supported if lifted, and the parking brake is engaged.
- Disconnect the battery's negative terminal before performing any electrical work or major component replacement.
- Keep all tools and parts organized to prevent them from falling into engine compartments.
- Dispose of old parts and fluids responsibly according to local regulations.

9. WARRANTY AND SUPPORT

For specific warranty information regarding your Standard Motor Products V267 PCV Valve, please refer to the documentation provided at the point of purchase or contact Standard Motor Products directly. General product support and technical assistance can often be found on the manufacturer's official website or by contacting their customer service department. Always retain your proof of purchase for warranty claims.