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## Standard Motor Products V202

# Standard Motor Products V202 PCV Valve Instruction Manual

Model: V202 | Brand: Standard Motor Products

## Product Overview

The Standard Motor Products V202 PCV (Positive Crankcase Ventilation) Valve is a critical component in your vehicle's emission control system. It is designed to regulate the flow of crankcase gases back into the engine's intake manifold to be re-burned, preventing harmful emissions from escaping into the atmosphere and maintaining proper engine pressure.



An image showing the Standard Motor Products V202 PCV Valve, which is black with a silver-colored metal top, featuring two hose connections. This valve is essential for managing crankcase pressure and emissions.

This PCV valve is constructed from durable materials, primarily metal, ensuring reliable performance. Its compact design, with dimensions of approximately 1.5 x 1.2 x 2.9 inches and a weight of 0.8 ounces, allows for straightforward installation in compatible vehicle models.

## Installation (Setup)

Proper installation of the PCV valve is crucial for its effective operation and the overall health of your engine. It is recommended that installation be performed by a qualified automotive technician. If you choose to perform the installation yourself, ensure you have the necessary tools and follow all safety precautions.

### General Installation Steps:

1. **Safety First:** Ensure the engine is cool and the vehicle is safely supported. Disconnect the negative terminal of the battery to prevent accidental electrical issues.
2. **Locate the Old PCV Valve:** Refer to your vehicle's service manual for the exact location of the PCV valve. It is typically found on the valve cover or intake manifold.
3. **Disconnect Hoses:** Carefully disconnect any hoses or lines connected to the old PCV valve. These may be

secured with clamps.

4. **Remove Old Valve:** Depending on the design, the old valve may be threaded in, pressed in, or held by a grommet. Use appropriate tools to remove it without damaging surrounding components.
5. **Inspect Grommet/Seal:** Inspect the grommet or seal where the PCV valve sits. Replace it if it appears cracked, hardened, or damaged to ensure a proper seal.
6. **Install New Valve:** Insert the new Standard Motor Products V202 PCV Valve into its housing. Ensure it is seated correctly and securely.
7. **Reconnect Hoses:** Reconnect all hoses and lines to the new valve, ensuring all clamps are tightened.
8. **Reconnect Battery:** Reconnect the negative battery terminal.
9. **Test Operation:** Start the engine and check for any unusual noises, vacuum leaks, or warning lights.

*Always consult your vehicle's specific repair manual for detailed, model-specific instructions.*

## Operation

The Standard Motor Products V202 PCV Valve operates automatically as part of the engine's crankcase ventilation system. It is a one-way valve that allows blow-by gases (combustion gases that escape past the piston rings) to be drawn from the crankcase into the intake manifold. From there, these gases are re-routed into the combustion chambers to be burned, rather than being released into the atmosphere.

The valve's internal mechanism, often a spring-loaded plunger, adjusts the flow rate based on engine vacuum. At idle, when vacuum is high, the valve restricts flow to prevent a lean air-fuel mixture. During acceleration or cruising, when vacuum is lower, the valve opens further to allow more flow, effectively ventilating the crankcase.

No direct user interaction is required for the operation of the PCV valve once installed correctly.

## Maintenance

Regular inspection and timely replacement of the PCV valve are vital for maintaining engine efficiency and reducing emissions. A clogged or malfunctioning PCV valve can lead to various engine problems.

### Inspection and Replacement Schedule:

- **Inspection:** It is generally recommended to inspect the PCV valve every 12,000 to 15,000 miles or annually. Check for blockages, sludge buildup, or signs of damage.
- **Replacement:** Most manufacturers recommend replacing the PCV valve every 30,000 to 50,000 miles, or as specified in your vehicle's maintenance schedule. However, if signs of malfunction appear earlier, replace it promptly.

### Signs of a Faulty PCV Valve:

- **Increased Oil Consumption:** A stuck-open valve can lead to excessive oil being drawn into the intake manifold.
- **Oil Leaks:** A clogged valve can cause pressure buildup in the crankcase, forcing oil past seals and gaskets.
- **Rough Idle or Stalling:** An improperly functioning valve can disrupt the air-fuel mixture.
- **Engine Misfires:** Can be a symptom of an incorrect air-fuel ratio due to PCV valve issues.
- **Check Engine Light:** In some cases, a faulty PCV valve can trigger a diagnostic trouble code.
- **Sludge Buildup:** A clogged valve prevents proper ventilation, leading to moisture and contaminants accumulating in the engine oil.

## Troubleshooting

If you suspect your Standard Motor Products V202 PCV Valve is malfunctioning, here are some basic troubleshooting steps:

1. **Visual Inspection:** Remove the PCV valve and visually inspect it for any signs of blockage, such as carbon deposits or sludge. Check the hoses connected to it for cracks or deterioration.
2. **Shake Test:** A common test for older-style PCV valves is the "shake test." If you shake the valve, you should hear a rattle from the internal plunger. If there is no rattle, the valve may be stuck or clogged. *Note: This test is not applicable to all PCV valve designs.*
3. **Vacuum Test:** With the engine running at idle, carefully remove the PCV valve from its grommet (if applicable) while keeping the hose connected. You should feel a strong vacuum at the valve's inlet. If there's no vacuum, there might be a blockage in the hose or the intake manifold port.
4. **Hose Pinch Test:** With the engine running, pinch the hose leading to the PCV valve. You should hear a slight change in engine idle speed as the vacuum changes. If no change occurs, the valve or hose might be clogged.

If troubleshooting indicates a faulty PCV valve, replacement is typically the most effective solution. Attempting to clean a clogged PCV valve is generally not recommended as it may not fully restore proper function and could introduce contaminants into the engine.

## Specifications

Detailed specifications for the Standard Motor Products V202 PCV Valve are provided below:

| Attribute | Value |
|---|---|
| **Model Number** | V202 |
| **Brand** | Standard Motor Products |
| **Material** | Metal |
| **Item Weight** | 0.8 ounces |
| **Product Dimensions (L x W x H)** | 1.5 x 1.2 x 2.9 inches |
| **Exterior Finish** | Painted |
| **Inlet Connection Type** | Positive Crankcase Ventilation |
| **Outlet Connection Type** | Positive Crankcase Ventilation |
| **Number of Ports** | 2 |
| **UPC** | 091769038946 |
| **Country of Origin** | China |

## Warranty Information

Specific warranty details for the Standard Motor Products V202 PCV Valve are subject to the manufacturer's terms and conditions. For comprehensive information regarding warranty coverage, duration, and claims procedures, please refer to the official documentation provided with your purchase or visit the Standard Motor Products official website.

## Support

For technical assistance, product inquiries, or further support regarding the Standard Motor Products V202 PCV Valve, please contact Standard Motor Products directly. Their official website typically provides contact information, FAQs, and additional resources.

You may also consult a certified automotive professional for installation or diagnostic assistance.

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