

[Manuals.plus](#) /

› [Standard Motor Products](#) /

› Standard Motor Products V201 PCV Valve Instruction Manual

Standard Motor Products V201

Standard Motor Products V201 PCV Valve Instruction Manual

Model: V201 | Brand: Standard Motor Products

1. INTRODUCTION TO THE PCV VALVE

The Positive Crankcase Ventilation (PCV) valve is a crucial component in an internal combustion engine's emission control system. Its primary function is to relieve pressure from the engine's crankcase by recirculating unburnt fuel vapors and combustion gases back into the intake manifold to be re-burned. This process prevents these harmful gases from escaping into the atmosphere and helps maintain engine cleanliness and efficiency.

A properly functioning PCV valve is essential for optimal engine performance, fuel economy, and reduced emissions. Regular inspection and replacement, as recommended by your vehicle's manufacturer, are important maintenance practices.

2. PRODUCT OVERVIEW: STANDARD MOTOR PRODUCTS V201 PCV VALVE

The Standard Motor Products V201 PCV Valve is designed to meet or exceed original equipment specifications, ensuring reliable performance and durability. This valve is constructed from durable metal, engineered for precise fit and function in compatible vehicle applications.



Figure 1: The Standard Motor Products V201 PCV Valve. This image displays the valve's L-shaped design, featuring a main cylindrical body and two distinct hose connection points, one at the end of the cylinder and another branching off at an angle. The valve is black and appears to be made of metal or a durable composite material.

What's in the Box:

- 1 x Standard Motor Products V201 PCV Valve

3. INSTALLATION GUIDE

Replacing a PCV valve typically involves a straightforward process, but it is crucial to consult your vehicle's specific service manual for detailed instructions and safety precautions. If you are not comfortable performing this procedure, it is recommended to seek assistance from a qualified automotive technician.

General Installation Steps (Consult Vehicle Manual for Specifics):

1. **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:** The PCV valve is typically located on the valve cover or intake manifold. Refer to your vehicle's service manual for its exact position.
3. **Disconnect Hoses:** Carefully disconnect any hoses attached to the old PCV valve. These hoses may be secured with clamps.
4. **Remove Old Valve:** The valve may be threaded into place, pressed into a grommet, or secured with a clip. Remove it according to your vehicle's specifications.
5. **Install New Valve:** Insert the new Standard Motor Products V201 PCV Valve into its position. Ensure it is seated correctly and securely.
6. **Reconnect Hoses:** Reattach all hoses to the new PCV valve, ensuring all connections are tight and free of leaks.

- 7. **Reconnect Battery:** Reconnect the negative battery terminal.
- 8. **Test:** Start the engine and check for proper operation and any unusual noises or leaks.

Warning: Always wear appropriate personal protective equipment, such as gloves and eye protection, when working on your vehicle. Refer to your vehicle's repair manual for specific torque specifications and procedures.

4. OPERATION

The Standard Motor Products V201 PCV Valve operates automatically based on engine vacuum. It is a passive component that regulates the flow of crankcase gases into the intake manifold. There are no user-adjustable settings or operational controls for this valve. Its function is continuous as long as the engine is running.

5. MAINTENANCE

The PCV valve is a wear item and requires periodic inspection and replacement. Over time, it can become clogged with sludge and carbon deposits, impairing its function.

Inspection:

- **Visual Check:** Inspect the valve and its hoses for cracks, blockages, or signs of oil leakage.
- **Shake Test:** With the valve removed, shake it. A properly functioning valve should rattle. If it does not rattle, it may be clogged and require replacement.

Replacement Interval:

Refer to your vehicle's owner's manual or service schedule for the recommended PCV valve replacement interval. This typically ranges from 30,000 to 50,000 miles, but can vary depending on driving conditions and vehicle model.

6. TROUBLESHOOTING COMMON ISSUES

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

- **Increased Oil Consumption:** A clogged PCV valve can cause pressure buildup, forcing oil past seals and gaskets.
- **Engine Misfires or Rough Idling:** An improperly functioning valve can disrupt the air-fuel mixture.
- **Check Engine Light:** A malfunctioning PCV valve can trigger a diagnostic trouble code.
- **Oil Leaks:** Excessive crankcase pressure can lead to oil leaks from various engine seals.
- **Sludge Buildup:** If the valve is stuck closed, moisture and contaminants can accumulate in the crankcase, leading to sludge.

If you experience any of these symptoms, inspect your PCV valve and replace it if necessary. Always consult a qualified mechanic for accurate diagnosis and repair.

7. SPECIFICATIONS

Feature	Detail
Brand	Standard Motor Products

Feature	Detail
Model Number	V201
Material	Metal
Item Dimensions (L x W x H)	1.5 x 1.2 x 2.9 inches
Item Weight	0.8 ounces
Exterior Finish	Machined
Inlet Connection Size	1.2 Inches
Inlet Connection Type	Positive Crankcase Ventilation
Outlet Connection Size	1.2 Inches
Outlet Connection Type	Positive Crankcase Ventilation
Number of Ports	1
Manufacturer	STANDARD IGN
UPC	091769038939

8. SAFETY INFORMATION

- Always ensure the engine is off and cool before attempting any installation or maintenance.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Keep children and pets away from the work area.
- Dispose of old parts and fluids responsibly according to local regulations.
- If unsure about any procedure, consult a professional mechanic.

Proposition 65 Warning: This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov.

9. WARRANTY AND SUPPORT

Standard Motor Products offers a manufacturer's warranty on its products. For specific warranty terms, conditions, and to register your product, please refer to the official Standard Motor Products website or contact their customer support directly. Keep your purchase receipt as proof of purchase.

For technical assistance or further inquiries, please visit the Standard Motor Products official website or contact their customer service department.