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› Dorman 46835 PCV Valve Assembly Instruction Manual

## Dorman 46835

# Dorman 46835 PCV Valve Assembly Instruction Manual

Model: 46835 | Brand: Dorman

## PRODUCT OVERVIEW

This Dorman 46835 PCV (Positive Crankcase Ventilation) valve is engineered to provide a direct replacement for the original valve on specified vehicles. It is designed to restore proper functionality and ensure reliable performance, contributing to the overall health and efficiency of your vehicle's engine system.

The PCV valve plays a crucial role in managing crankcase pressure by venting blow-by gases from the crankcase into the intake manifold to be re-burned. A properly functioning PCV valve helps prevent oil leaks, sludge buildup, and maintains engine performance.

### Key Features:

- **Direct Replacement:** Designed to match the fit and function of the original valve on specified vehicles.
- **Restores Functionality:** Made to fit and fully restore part functionality after the original valve fails.
- **Durable Construction:** Manufactured from quality materials to ensure reliable performance and long service life.
- **Trustworthy Quality:** Backed by a team of product experts with extensive automotive experience.
- **Vehicle Compatibility:** Compatible with a wide range of Chrysler, Dodge, Jeep, and Ram models from various years. Refer to the specifications section for a detailed list.

## WHAT'S IN THE BOX

- 1 x Dorman 46835 PCV Valve Assembly
- 2 x Mounting Screws

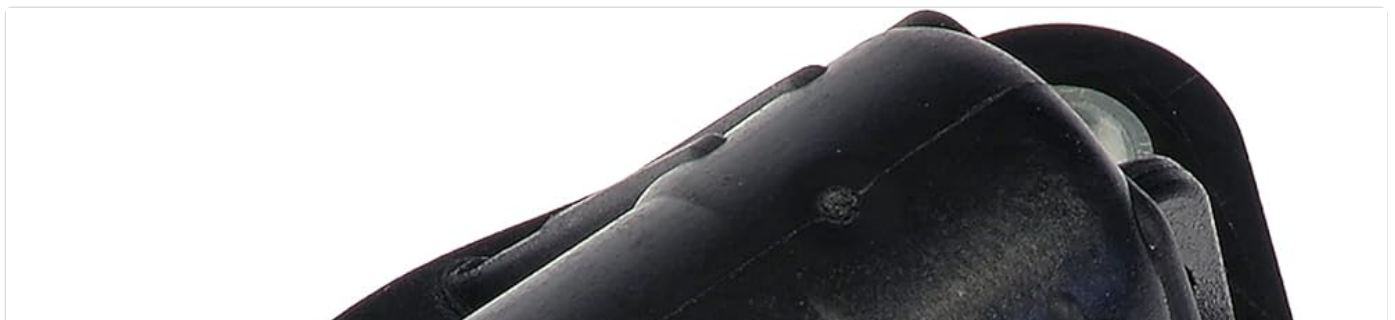




Image: The Dorman 46835 PCV Valve Assembly shown with the two included mounting screws.

## INSTALLATION GUIDE

**Note:** Installation of automotive parts may require specialized tools and knowledge. If you are not confident in performing this installation, it is recommended to seek assistance from a qualified mechanic.

## Required Tools (May Vary by Vehicle):

- Socket Wrench Set
- Screwdriver Set
- Pliers
- Gloves and Safety Glasses

## Installation Steps:

1. **Safety First:** Ensure the vehicle engine is cool and disconnected from the battery before beginning any work. Wear appropriate safety gear.
2. **Locate the PCV Valve:** Consult your vehicle's service manual to accurately locate the existing PCV valve. Its location can vary significantly between vehicle models (e.g., on the valve cover, intake manifold, or engine block).
3. **Disconnect Hoses/Lines:** Carefully disconnect any hoses or lines connected to the old PCV valve. Be gentle to avoid damaging brittle plastic or rubber components.
4. **Remove Old PCV Valve:** Unscrew or unclip the old PCV valve from its mounting point. Note its orientation for correct installation of the new part.
5. **Inspect Mounting Area:** Clean the mounting area thoroughly to ensure a proper seal with the new valve.
6. **Install New PCV Valve:** Position the Dorman 46835 PCV Valve Assembly in the correct orientation. Secure it using the provided new screws or the original hardware if specified. Ensure it is seated firmly.
7. **Reconnect Hoses/Lines:** Reconnect all hoses and lines to the new PCV valve, ensuring they are securely fastened and free from kinks or leaks.
8. **Final Check:** Double-check all connections and ensure no tools or debris are left in the engine bay. Reconnect the battery.
9. **Test Operation:** Start the engine and listen for any unusual noises or vacuum leaks. Monitor engine performance during a short test drive.



Image: Side view of the Dorman 46835 PCV Valve Assembly, showing the inlet and outlet connections.



Image: Bottom view of the Dorman 46835 PCV Valve Assembly, highlighting the internal valve mechanism.

## OPERATING PRINCIPLES

The Dorman 46835 PCV Valve Assembly operates as a critical component of your vehicle's emissions control system. Its primary function is to regulate the flow of crankcase gases back into the engine's intake manifold. This process, known as positive crankcase ventilation, prevents the buildup of harmful pressure and contaminants within the engine's crankcase. During engine operation, a small amount of combustion gases (blow-by) can escape past the piston rings and enter the crankcase. Without proper ventilation, these gases can lead to increased pressure, oil contamination, and potential damage to engine seals and components. The PCV valve uses engine vacuum to draw these gases out of the crankcase and route them back into the combustion chambers to be burned, thus reducing emissions and maintaining engine cleanliness. The valve's internal mechanism adjusts its opening based on engine vacuum and RPM, ensuring optimal ventilation under various operating conditions. When functioning correctly, it helps maintain proper engine vacuum, prevents oil leaks, and contributes to efficient fuel combustion.

## MAINTENANCE

The Dorman 46835 PCV Valve Assembly is designed for durability and long service life. However, like all automotive components, periodic inspection and maintenance are recommended to ensure optimal performance and prevent potential issues.

### Recommended Maintenance Practices:

- **Regular Inspection:** Inspect the PCV valve and its associated hoses during routine vehicle maintenance (e.g., oil changes). Look for signs of cracking, hardening, or blockages in the hoses.
- **Check for Clogging:** A common issue with PCV valves is clogging due to oil sludge and carbon deposits. While this Dorman valve is designed for reliability, a clogged valve can lead to increased crankcase pressure, oil leaks, and poor engine performance.
- **Replacement Interval:** Consult your vehicle's manufacturer service schedule for recommended PCV valve replacement

intervals. If no specific interval is provided, a general guideline is to inspect or replace it every 30,000 to 50,000 miles, or if symptoms of a faulty valve appear.

- **Cleanliness:** Keep the area around the PCV valve clean to prevent debris from entering the system.

Proper maintenance of the PCV system is vital for engine longevity and efficient operation.

## TROUBLESHOOTING

If you experience issues after installing or while using the Dorman 46835 PCV Valve Assembly, consider the following common troubleshooting steps:

Symptom	Possible Cause	Solution
<b>Audible Vacuum Noise / Hissing from Engine Bay</b>	Improperly seated valve or loose/damaged hoses.	Ensure the PCV valve is fully seated and secured. Check all connected hoses for proper connection, cracks, or damage. Replace hoses if necessary.
<b>Engine Stuttering / Rough Idle (especially with AC on)</b>	PCV valve stuck open or internal mechanism failure.	Inspect the valve for proper operation. A new valve should allow air flow in one direction only. If the internal mechanism is visibly damaged or stuck, the valve may need replacement.
<b>Increased Oil Consumption / Oil Leaks</b>	Clogged PCV valve leading to excessive crankcase pressure.	While this is a new part, ensure it is not clogged by external debris. Verify proper installation and hose routing. If symptoms persist, consider professional diagnosis.
<b>Check Engine Light (CEL) / Diagnostic Trouble Codes (DTCs) related to PCV system</b>	PCV system malfunction, often related to vacuum leaks or improper flow.	Scan for specific DTCs to pinpoint the issue. Verify all connections are secure. If the valve is new and correctly installed, other components of the PCV system (hoses, sensors) may need inspection.

If troubleshooting steps do not resolve the issue, it is advisable to consult a certified automotive technician for further diagnosis.

## SPECIFICATIONS

Attribute	Detail
<b>Brand</b>	Dorman
<b>Model Number</b>	46835
<b>Item Weight</b>	2.46 ounces
<b>Product Dimensions (L x W x H)</b>	5 x 3.15 x 11 inches
<b>Exterior Finish</b>	Painted
<b>Inlet Connection Type</b>	Positive Crankcase Ventilation
<b>Outlet Connection Type</b>	Positive Crankcase Ventilation
<b>Outlet Connection Size</b>	0.25 Inches

Attribute	Detail
Valve Type	PCV
Country of Origin	China
UPC	885484418363
OEM Part Numbers	6P1410; EMH920; SKV500; V500; 05184163AE; 05184763AC; 05184763AD; 5184163AE; 5184763AC; 5184763AD; 6509625AA; 68083202AB; 68083202AC; 68106047AA

### Compatible Vehicle Models:

This PCV valve is compatible with various models. Please verify fitment for your specific vehicle trim using a vehicle compatibility tool or by cross-referencing OEM part numbers.

- **Chrysler:** 200 (2011-2017), 300 (2011-2021), Grand Caravan (2021), Town & Country (2011-2016)
- **Dodge:** Avenger (2011-2014), Challenger (2011-2021), Charger (2011-2021), Durango (2011-2015), Grand Caravan (2011-2020), Journey (2011-2019)
- **Jeep:** Cherokee (2014-2021), Grand Cherokee (2011-2019), Wrangler (2012-2018)
- **Ram:** 1500 Classic (2019-2021), 1500 (2013-2021), C/V (2012-2015), ProMaster 1500 (2014-2021), ProMaster 2500 (2014-2021), ProMaster 3500 (2014-2021)

### WARRANTY AND SUPPORT

Dorman products are designed and manufactured to high-quality standards. For specific warranty information regarding your Dorman 46835 PCV Valve Assembly, please refer to the warranty documentation included with your purchase or visit the official Dorman website.

Dorman has over a century of experience in the automotive aftermarket, providing solutions engineered to save time and money while increasing convenience and reliability. Their products are backed by a team of product experts in the United States.

### Customer Support:

For technical assistance, installation questions, or warranty claims, please contact Dorman customer support through their official website or the contact information provided in your product packaging. When contacting support, please have your product model number (46835) and purchase details readily available.

You can also visit the [Dorman Store on Amazon](#) for more product information and resources.