Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

DEVMO 12592015

DEVMO Emission Vapor Canister Purge Solenoid Valve Instruction Manual

Model: 12592015

1. Introduction

This manual provides essential information for the DEVMO Emission Vapor Canister Purge Solenoid Valve, also known as the EVAP Vent Purge Control Valve. It covers product specifications, vehicle compatibility, installation guidelines, operational principles, maintenance recommendations, and troubleshooting tips. Please read this manual thoroughly before installation and operation to ensure proper function and longevity of the component.

2. Product Overview

The Emission Vapor Canister Purge Solenoid Valve is a critical component of your vehicle's Evaporative Emission Control (EVAP) system. Its primary function is to control the flow of fuel vapors from the charcoal canister to the engine intake manifold, where they are burned during combustion. This process prevents harmful fuel vapors from escaping into the atmosphere, contributing to environmental protection and maintaining vehicle emission standards.



Image 2.1: Front view of the DEVMO Emission Vapor Canister Purge Solenoid Valve.

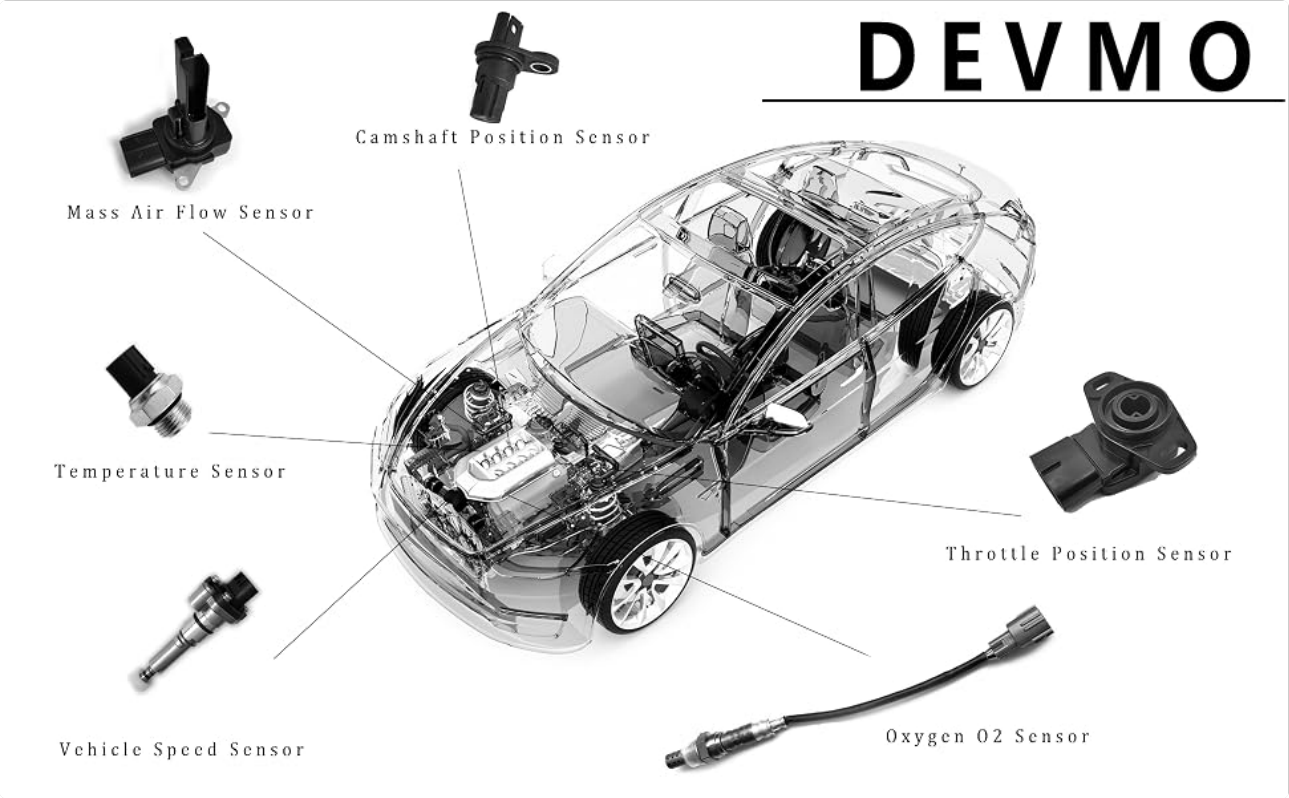


Image 2.2: Illustrative diagram showing various automotive sensor locations, including components related to emission control.

3. Specifications

Feature	Detail
Brand	DEVMO
Model Number	12592015
Replacement Part Numbers	214-1473, 2M1057, 12608378, PV423
Material	Acrylonitrile Butadiene Styrene (ABS Plastic)
Exterior Finish	ABS, Plastic
Inlet Connection Type	Compression
Number of Ports	2
Item Weight	0.634 ounces
Package Dimensions	3.39 x 3.39 x 2.05 inches
UPC	765157639687

4. Vehicle Compatibility

This DEVMO Emission Vapor Canister Purge Solenoid Valve is compatible with a range of vehicles. Please verify your vehicle's make, model, and year against the list below to ensure proper fitment. Always cross-reference with your vehicle's original part number if available.

Compatible Models:

- Allure
- Cobalt (2008-2010)
- DTS
- Express 1500
- G6
- Grand Prix
- HHR
- Impala
- LaCrosse
- Lucerne
- Malibu (2007-2010)
- Montana (2007-2009)
- Monte Carlo (2007)
- Regal (2011-2013)
- Rendezvous (2006-2007)
- Savana 1500 (2008-2014)
- Sierra 1500 (2007-2013)
- Silverado 1500 (2007-2013)
- Solstice (2007-2009)
- SRX (2006-2009)
- STS (2006-2010)
- Terraza (2006-2007)
- Uplander (2007-2009)
- Verano (2013-2016)
- XLR (2006-2009)

Note: Specific years for some models are provided. For models without specified years, please consult your vehicle's service manual or a qualified mechanic to confirm compatibility.

5. Installation and Setup

Installation of the DEVMO Emission Vapor Canister Purge Solenoid Valve is designed for direct replacement. However, it is recommended that installation be performed by a qualified technician or individuals with appropriate automotive repair experience. Improper installation can lead to vehicle malfunction or damage.

General Installation Steps:

1. **Safety First:** Ensure the vehicle is turned off, the engine is cool, and the parking brake is engaged. Disconnect the negative terminal of the battery to prevent electrical hazards.
2. **Locate the Component:** Identify the existing EVAP purge solenoid valve in your vehicle. Its location can vary by vehicle model, but it is typically found near the engine or on the EVAP canister.
3. **Disconnect:** Carefully disconnect the electrical connector and any vacuum lines attached to the old valve. Note the orientation and connection points for reassembly.
4. **Remove Old Valve:** Unbolt or unclip the old purge valve from its mounting bracket.
5. **Install New Valve:** Position the new DEVMO purge valve in the same location and secure it with the original fasteners.
6. **Reconnect:** Reattach the vacuum lines and the electrical connector, ensuring all connections are secure

and properly seated.

7. **Final Checks:** Reconnect the battery's negative terminal. Start the vehicle and check for any leaks or unusual operation.



Image 5.1: Detail of the valve's electrical connector and vacuum line port, crucial for correct installation.

Note: This is a general guide. Always refer to your vehicle's specific service manual for detailed, model-specific installation instructions.

6. Operation

The EVAP purge solenoid valve operates under the control of the vehicle's Engine Control Module (ECM). When the engine is running and operating conditions are met (e.g., engine warm, specific speed), the ECM signals the

purge valve to open. This allows fuel vapors stored in the charcoal canister to be drawn into the engine's intake manifold and burned as part of the normal combustion process. When the valve is closed, it prevents vapors from entering the engine at inappropriate times or escaping into the atmosphere.

7. Maintenance

The DEVMO Emission Vapor Canister Purge Solenoid Valve is designed for durability and typically requires no routine maintenance. However, regular vehicle inspections and adherence to your vehicle manufacturer's recommended service schedule are important for overall system health. If the valve becomes clogged or fails, it will need to be replaced.
Signs of a failing purge valve may include:

- Check Engine Light illumination (often with EVAP-related diagnostic trouble codes).
- Rough idling or stalling.
- Difficulty starting the engine after refueling.
- Reduced fuel economy.

8. Troubleshooting

If you experience issues related to your vehicle's EVAP system, the purge solenoid valve may be a contributing factor. Here are some common troubleshooting steps:

Common Issues and Solutions:

- **Check Engine Light (CEL) On:**
  - **Possible Cause:** Faulty purge valve, vacuum leak, or other EVAP system component failure.
  - **Solution:** Use an OBD-II scanner to retrieve diagnostic trouble codes (DTCs). Common codes for purge valve issues include P0440, P0441, P0442, P0446, P0449. If codes point to the purge valve, inspect connections and consider replacement.
- **Rough Idling or Stalling:**
  - **Possible Cause:** Purge valve stuck open, allowing too much fuel vapor into the engine.
  - **Solution:** Inspect the valve for proper sealing. A simple test involves disconnecting the vacuum line to the intake manifold and checking if the engine idle improves. If so, the valve may be stuck open.
- **Difficulty Starting After Refueling:**
  - **Possible Cause:** Purge valve or vent valve malfunction, causing pressure issues in the fuel tank.
  - **Solution:** This symptom often points to an EVAP system issue. Diagnosis with an OBD-II scanner is recommended.

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

9. Warranty and Support

The DEVMO Emission Vapor Canister Purge Solenoid Valve comes with a**12-month warranty**. This warranty covers defects in materials and workmanship under normal use. For warranty claims or technical support, please contact DEVMO customer service through the platform where the product was purchased.
When contacting support, please provide the following information:

- Product Model Number: 12592015
- Date of Purchase
- Description of the issue
- Your vehicle's make, model, and year

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B0BRKGZH85

More documents and user manuals: **https://manuals.plus/**