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Standard Motor Products DV133

Standard Motor Products Air Cleaner Check Valve - DV133
Instruction Manual

Model: DV133 | Brand: Standard Motor Products

PRODUCT OVERVIEW

The Standard Motor Products DV133 Air Cleaner Check Valve is a critical component designed to regulate airflow within the vehicle's air intake system. This valve ensures proper air circulation and prevents backflow, contributing to efficient engine operation and emission control. It is constructed from durable metal with a machined finish, ensuring longevity and reliable performance in automotive environments.



Figure 1: Main view of the Standard Motor Products DV133 Air Cleaner Check Valve, showing its overall shape and connection points.

SPECIFICATIONS

Model Number	DV133
Material	Metal
Dimensions (L x W x H)	6 x 4.63 x 3.75 inches
Item Weight	1.8 pounds
Exterior Finish	Machined
Inlet Connection Type	Threaded
Outlet Connection Type	NPT
Number of Ports	2

Outlet Connection Size	1.25 Inches
Valve Type	Check Valve
UPC	025623395654

INSTALLATION (SETUP)

Installation of the DV133 Air Cleaner Check Valve should be performed by a qualified technician or an individual with experience in automotive repair. Always refer to your vehicle's specific service manual for detailed instructions and safety precautions.

Required Tools and Materials:

- Appropriate wrenches or sockets
- Screwdrivers (if applicable)
- Safety glasses
- Gloves
- Vehicle service manual

Installation Steps:

1. **Safety First:** Ensure the vehicle is turned off, the engine is cool, and the battery is disconnected to prevent accidental starting or electrical hazards.
2. **Locate Existing Valve:** Identify the current air cleaner check valve in your vehicle's air intake system. Consult your vehicle's service manual for the exact location.
3. **Disconnect Connections:** Carefully disconnect any hoses, electrical connectors, or mounting hardware attached to the old valve. Note the orientation of all connections.



Figure 2: Detail of the electrical connector, ensuring proper connection during installation.

4. **Remove Old Valve:** Unbolt or unclip the old check valve from its mounting point.
5. **Inspect Mounting Area:** Clean the mounting surface and inspect for any damage or debris.
6. **Install New Valve:** Position the new DV133 check valve in the correct orientation. Secure it using the original mounting hardware. Ensure a snug fit without overtightening.



Figure 3: View of the mounting flange and port, illustrating the connection points for installation.

7. **Reconnect Connections:** Reattach all hoses and electrical connectors securely. Double-check that all connections are firm and properly seated.
8. **Final Check:** Verify that the valve is securely mounted and all connections are tight.
9. **Reconnect Battery:** Reconnect the vehicle's battery.
10. **Test System:** Start the vehicle and check for proper operation and any warning lights. Listen for unusual noises or air leaks.

If you are unsure about any step, it is highly recommended to seek professional assistance.

OPERATION

The Standard Motor Products DV133 Air Cleaner Check Valve operates automatically as part of the vehicle's emission and air intake system. Its primary function is to allow airflow in one direction while preventing it in the opposite direction, ensuring that the air cleaner system functions optimally and maintains proper vacuum or pressure levels within the engine's intake manifold. No user intervention is required for its operation once correctly installed.

MAINTENANCE

The DV133 Air Cleaner Check Valve is designed to be a low-maintenance component. Regular maintenance typically involves:

- **Periodic Inspection:** During routine vehicle maintenance, visually inspect the valve and its connections for any signs of wear, cracks, leaks, or damage.
- **Connection Integrity:** Ensure that all hoses and electrical connectors remain securely attached and free from corrosion.
- **Cleaning:** If accessible, gently clean any external dirt or debris from the valve body. Avoid using harsh chemicals that could damage the material.

If any damage or malfunction is observed, the valve should be replaced promptly to maintain vehicle performance and compliance with emission standards.

TROUBLESHOOTING

Issues related to the air cleaner check valve can manifest in various ways. If you suspect a problem with your DV133 valve, consider the following:

- **Check Engine Light:** A faulty check valve can sometimes trigger a "Check Engine" light due to incorrect air-fuel mixture or emission system errors. Use an OBD-II scanner to retrieve diagnostic trouble codes (DTCs).
- **Rough Idling or Stalling:** An improperly functioning check valve can lead to vacuum leaks or incorrect air metering, causing the engine to idle roughly or stall.
- **Reduced Engine Performance:** Issues with airflow regulation can impact overall engine power and fuel efficiency.
- **Audible Hissing/Whistling:** This may indicate a vacuum leak around the valve or its connections.

Resolution:

- **Visual Inspection:** Re-inspect the valve and all connected hoses and electrical wiring for any visible damage, cracks, or loose connections.
- **Vacuum Leak Test:** If a vacuum leak is suspected, a professional can perform a smoke test or use a vacuum gauge to pinpoint the source.
- **Replacement:** If the valve is confirmed to be faulty, replacement with a new Standard Motor Products DV133 is recommended.

For complex diagnostic issues, it is advisable to consult a certified automotive mechanic.

WARRANTY AND SUPPORT

For information regarding the warranty of your Standard Motor Products DV133 Air Cleaner Check Valve, please refer to the warranty documentation provided with your purchase or visit the official Standard Motor Products website. For technical support or further inquiries, please contact Standard Motor Products customer service directly.

Standard Motor Products Official Website: www.smpcorp.com

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