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Cardone 90-1309

Cardone Select 90-1309 New Vacuum Pump User Manual

Model: 90-1309 | Brand: Cardone

Product Overview

CARDONE New Vacuum Pumps are engineered with CARDONE Engineered Technology, ensuring they meet or exceed Original Equipment (O.E.) form, fit, and function. Leveraging over 40 years of reverse-engineering expertise, CARDONE identifies and corrects original design weaknesses, delivering premium-quality, brand-new parts. Each unit is rigorously tested to adhere to strict S.A.E. specifications, guaranteeing reliable and long-lasting performance.
Key features of the Cardone Select 90-1309 New Vacuum Pump include:

- Units are tested fully to ensure they are leak-free and meet vacuum performance standards.
- Engineered to meet or exceed O.E.M. performance.
- Designed for easy installation.
- Guaranteed fit and function.

What's in the Box

- 1 x Cardone Select 90-1309 New Vacuum Pump

Setup and Installation

The Cardone Select 90-1309 New Vacuum Pump is designed for direct fit and easy installation. Professional installation is recommended to ensure proper function and safety. Refer to your vehicle's specific service manual for detailed installation procedures, torque specifications, and safety precautions.

Pre-Installation Checks:

- Ensure the vehicle's engine is off and cooled down.
- Disconnect the battery to prevent accidental electrical shorts.
- Verify that the new vacuum pump matches the original part in terms of mounting points and connections.
- Inspect all associated hoses and lines for cracks, wear, or damage. Replace if necessary.

Installation Steps (General):

1. Locate the existing vacuum pump on your vehicle.
2. Carefully disconnect all vacuum lines and electrical connectors from the old pump.
3. Remove the mounting bolts securing the old pump and carefully detach it from the engine.
4. Install the new Cardone Select 90-1309 Vacuum Pump, ensuring proper alignment with mounting points.
5. Secure the pump with the appropriate mounting bolts, tightening to manufacturer specifications.
6. Reconnect all vacuum lines and electrical connectors. Ensure all connections are secure and free of leaks.
7. Reconnect the vehicle battery.





Image: Front view of the Cardone Select 90-1309 New Vacuum Pump, showing the main body and connection points.



Image: Side view of the Cardone Select 90-1309 New Vacuum Pump, highlighting the gear mechanism and mounting bracket.

Operating Principles

The vacuum pump is a critical component in modern vehicles, especially those with smaller gasoline engines or diesel engines, which do not produce sufficient engine vacuum on their own. Its primary function is to generate vacuum pressure for various vehicle systems.

Functions of the Vacuum Pump:

- **Regulate Emission Levels:** Assists in the proper functioning of emission control systems.
- **Control Timing Advance:** Contributes to engine timing adjustments for optimal performance.
- **Operate HVAC Controls:** Provides vacuum for climate control systems, including vent selection and defrost functions.
- **Provide Power Brake Assist:** Crucial for the power braking system, making it easier to apply brakes.

Proper vacuum levels are essential for the safe and efficient operation of these systems. A failing vacuum pump can lead to noticeable issues across multiple vehicle functions.

Maintenance

The Cardone Select 90-1309 New Vacuum Pump is designed for durability and long-lasting performance. Regular maintenance of your vehicle's vacuum system can help ensure its longevity.

General Maintenance Tips:

- **Inspect Vacuum Lines:** Periodically check all vacuum hoses and connections for cracks, leaks, or signs of wear. Damaged hoses can lead to vacuum leaks and affect pump performance.
- **Listen for Unusual Noises:** Pay attention to any unusual sounds coming from the vacuum pump area, such as grinding or whining, which could indicate internal wear.
- **Monitor Performance:** Be aware of changes in brake pedal feel, HVAC control responsiveness, or engine idle quality, as these can be early indicators of vacuum system issues.
- **Professional Inspection:** Include a vacuum system check during routine vehicle maintenance by a qualified technician.

Troubleshooting

Symptoms of a failing vacuum pump can often be misdiagnosed as issues with other vehicle components. Understanding these symptoms and proper diagnostic methods is crucial.

Common Symptoms of Vacuum Pump Failure:

- **Hard Brake Pedal:** Difficulty pressing the brake pedal, requiring excessive force to stop the vehicle.
- **Climate Control Issues:** HVAC controls defaulting to windshield defrost or not responding correctly.
- **Lack of Acceleration:** Reduced engine power or sluggish response during acceleration.
- **Rough Idle:** Engine running unevenly or shaking at idle.
- **Check Engine Light:** Illumination of the Check Engine Light, potentially accompanied by specific diagnostic trouble codes related to vacuum system performance.

Diagnosis:

The most effective way to diagnose a vacuum pump issue is to check the vacuum pump with a gauge. Simply checking for suction by hand is not a reliable indicator of proper vacuum. A healthy vacuum pump should produce at least 18 inches of mercury and sufficient volume to properly support all vehicle functions.

Your browser does not support the video tag.

Video: Cardone Select 90-1309 New Vacuum Pump. This video provides an overview of vacuum pump functions and common symptoms of failure, emphasizing the importance of proper diagnosis using a vacuum gauge.

If you experience any of these symptoms, it is recommended to have your vehicle inspected by a certified mechanic who can perform a proper vacuum test and determine if the vacuum pump requires replacement.

Specifications

Manufacturer	Cardone
Brand	Cardone
Model	Vacuum Pump
Item Weight	7.04 pounds
Product Dimensions	11.88 x 7.63 x 7.13 inches
Item Model Number	90-1309
Exterior	Painted
Manufacturer Part Number	90-1309
OEM Part Number	5011796AA, 5019734AA
ASIN	B001PHKI36
Date First Available	December 31, 2008

Warranty and Support

For warranty information, technical support, or any product-related inquiries, please contact Cardone customer service directly or visit their official website. Keep your purchase receipt as proof of purchase for warranty claims.
Official Website: www.cardone.com

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