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Standard Motor Products AL106

Standard Motor Products AL106 Ignition Condenser User Manual

Model: AL106 | Brand: Standard Motor Products

Product Overview

The Standard Motor Products AL106 Ignition Condenser is a critical component in the ignition system of compatible vehicles. It is designed to absorb voltage spikes and prevent pitting of the distributor points, ensuring efficient and reliable engine operation.

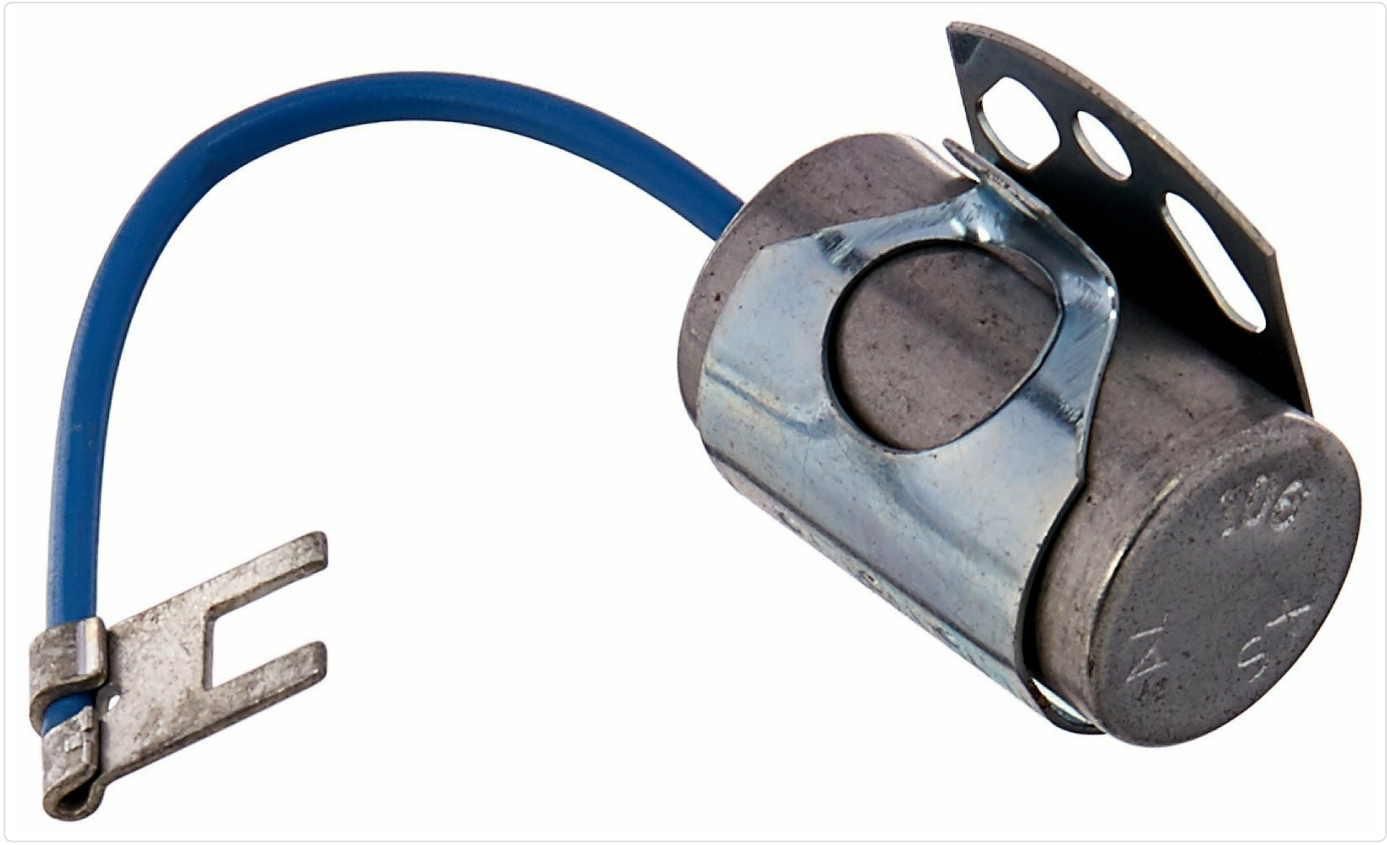


Image: Standard Motor Products AL106 Ignition Condenser. This image displays the condenser unit, which is cylindrical with a metal mounting bracket and a blue wire extending from one end, terminating in a spade connector.

Setup and Installation

Installation of the ignition condenser requires basic automotive knowledge and tools. Always ensure the vehicle's battery is disconnected before beginning any work on the ignition system to prevent electrical shock or damage.

1. **Safety First:** Disconnect the negative terminal of the vehicle's battery.
2. **Locate Distributor:** Identify the distributor in your vehicle's engine compartment. The condenser is typically located inside or mounted externally on the distributor.
3. **Remove Old Condenser:** Carefully disconnect the wire from the old condenser and unmount it from its position. Note its orientation for correct installation of the new part.
4. **Install New Condenser:** Mount the new Standard Motor Products AL106 condenser in the same location and orientation as the old one. Ensure it is securely fastened.
5. **Connect Wiring:** Connect the condenser wire to the appropriate terminal, usually the primary terminal of the ignition coil or the distributor points. Ensure a clean and secure connection.
6. **Recheck Connections:** Verify all connections are tight and correctly routed.
7. **Reconnect Battery:** Reconnect the negative terminal of the vehicle's battery.

For specific vehicle models, consult your vehicle's service manual for detailed instructions and torque specifications.

Operating Principles

The ignition condenser, also known as a capacitor, plays a vital role in the conventional ignition system. Its primary function is to absorb the surge of electricity that occurs when the distributor points open. Without a functioning condenser, the points would arc excessively, leading to rapid wear and inefficient spark production.

- **Point Protection:** Prevents excessive arcing at the contact points, extending their lifespan.
- **Spark Enhancement:** Helps to create a sharper, more intense spark at the spark plugs by allowing the magnetic field in the ignition coil to collapse more rapidly.
- **Voltage Regulation:** Stabilizes voltage within the primary ignition circuit.

A properly functioning condenser ensures smooth engine operation, especially at higher RPMs, and contributes to optimal fuel efficiency.

Maintenance

The ignition condenser is generally a sealed unit and does not require routine maintenance. However, it is a wear item and should be inspected periodically, especially if experiencing ignition system issues.

- **Visual Inspection:** During routine tune-ups or point replacement, visually inspect the condenser for any signs of physical damage, corrosion, or leakage.
- **Performance Check:** If the engine exhibits symptoms such as misfires, rough idling, or poor high-RPM performance, the condenser should be tested or replaced.
- **Replacement Interval:** It is often recommended to replace the condenser whenever the distributor points are replaced, as they are designed to work in conjunction.

Troubleshooting

Issues with the ignition condenser can manifest in various engine performance problems. Here are common symptoms and potential solutions:

Symptom	Possible Cause (Condenser Related)	Solution
Engine misfires or runs rough, especially at higher RPMs.	Failing or weak condenser not effectively suppressing arcing at points.	Test condenser; replace if faulty. Inspect and replace distributor points if necessary.

Symptom	Possible Cause (Condenser Related)	Solution
Engine stalls or dies at idle.	Condenser shorting internally, causing loss of spark.	Replace condenser.
Excessive arcing at distributor points.	Defective condenser unable to absorb voltage spikes.	Replace condenser.
Engine difficult to start.	Weak spark due to condenser issue.	Test condenser and ignition coil; replace as needed.

Always consult a qualified mechanic if you are unsure about diagnosing or repairing ignition system components.

Specifications

Attribute	Detail
Brand	Standard Motor Products
Model Number	AL106
Manufacturer Part Number	AL106
UPC	091769001278
Item Weight	0.88 ounces
Product Dimensions	3 x 2 x 5 inches
Material	Aluminum
Shape	Round
Mounting Type	Through-Hole Mount
Exterior	Machined

Warranty and Support

Standard Motor Products offers a limited warranty on its products. For specific warranty terms and conditions, please refer to the official Standard Motor Products website or contact their customer service directly. Keep your purchase receipt as proof of purchase.
For technical support, installation assistance, or warranty claims, please contact Standard Motor Products customer service:

- **Website:** www.smpcorp.com (This is a general link, specific support contact might be on their site)
- **Customer Service:** Refer to the contact section on the official website for phone numbers or email support.

When contacting support, please have your product model number (AL106) and purchase details ready.

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