

[Manuals.plus](#) /

› [Standard Motor Products](#) /

› Standard Motor Products AL-111 Ignition Condenser User Manual

Standard Motor Products AL-111

Standard Motor Products AL-111 Ignition Condenser User Manual

Brand: Standard Motor Products | Model: AL-111

1. INTRODUCTION

This manual provides essential information regarding the Standard Motor Products AL-111 Ignition Condenser. It is designed to assist users in understanding the product's function, proper installation, and general maintenance. For optimal performance and safety, please read this manual thoroughly before installation or use.

2. PRODUCT OVERVIEW

The Standard Motor Products AL-111 is an ignition condenser, a critical component in traditional automotive ignition systems. Its primary function is to absorb the surge of electricity that occurs when the breaker points open, preventing arcing at the points and ensuring a clean, strong spark at the spark plugs. This contributes to efficient engine operation and extends the life of the ignition points.

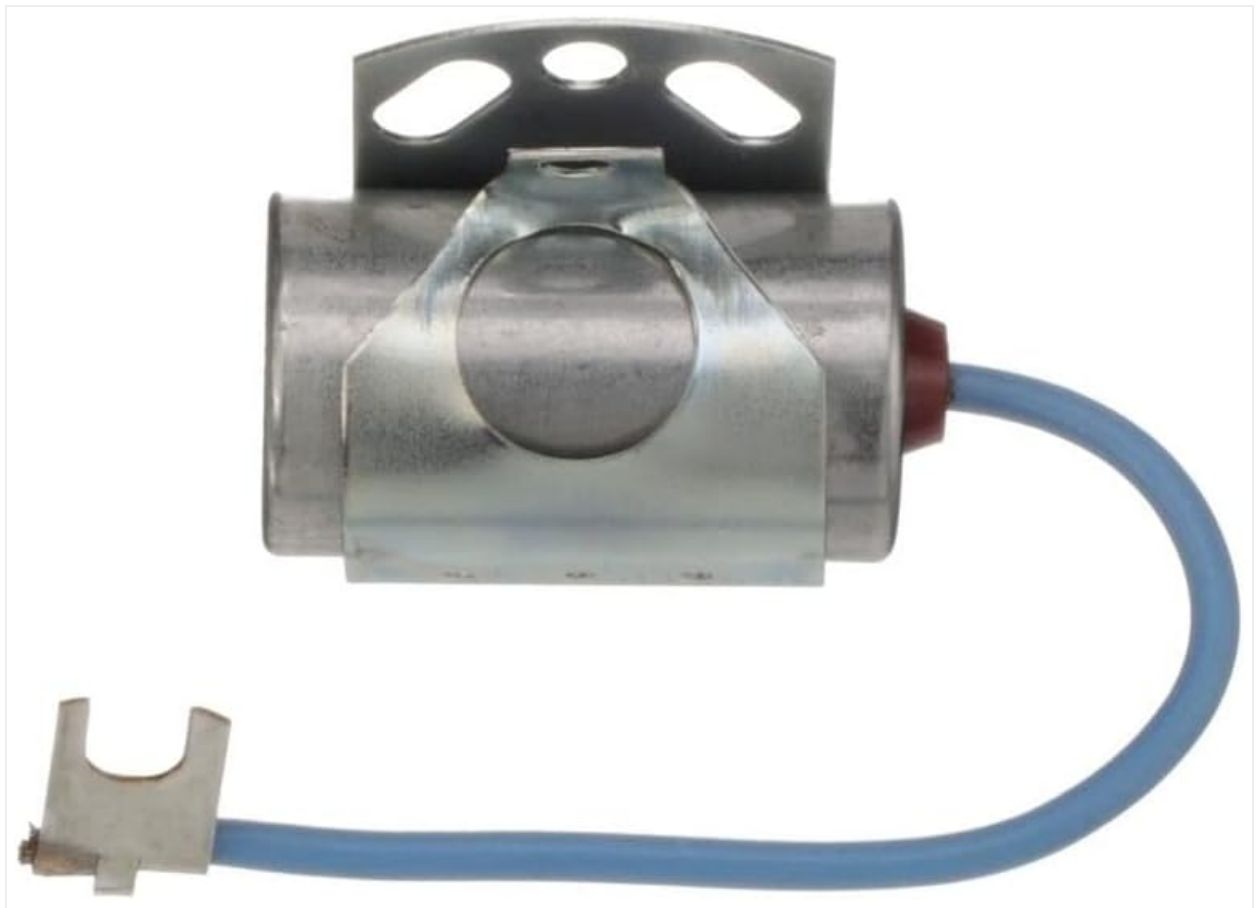


Figure 2.1: Standard Motor Products AL-111 Ignition Condenser. This image displays the cylindrical metal body of the condenser, its integrated metal mounting bracket, and the attached blue electrical wire terminating in a spade connector.

3. SETUP AND INSTALLATION

Installation of the AL-111 Ignition Condenser typically involves replacing an existing condenser within the distributor of a vehicle's ignition system. Due to the complexity of automotive electrical systems and the importance of correct timing, professional installation by a qualified mechanic is highly recommended.

General Installation Steps (Consult Vehicle Service Manual for Specifics):

1. **Safety First:** Disconnect the vehicle's battery to prevent accidental electrical shorts.
2. **Locate Distributor:** Identify the distributor unit, usually found on the engine.
3. **Access Points:** Remove the distributor cap and rotor to expose the ignition points and condenser.
4. **Remove Old Condenser:** Carefully disconnect the wire from the points and unmount the old condenser. Note its exact position and wiring.
5. **Install New Condenser:** Mount the new AL-111 condenser in the same location and connect its wire to the appropriate terminal on the ignition points. Ensure all connections are secure.
6. **Reassemble:** Reinstall the rotor and distributor cap.
7. **Reconnect Battery:** Reconnect the vehicle's battery.
8. **Test:** Start the engine and check for proper operation.

Always refer to your specific vehicle's service manual for detailed, model-specific installation instructions and torque specifications.

4. OPERATING PRINCIPLES

The AL-111 Ignition Condenser operates passively as part of the ignition circuit. When the distributor points open, interrupting the primary circuit current, the magnetic field in the ignition coil collapses, inducing a high voltage in the secondary winding. Simultaneously, the condenser absorbs the back-EMF (electromotive force) from the primary coil, preventing excessive arcing across the opening points. This action allows for a rapid collapse of the magnetic field, leading to a stronger, more consistent spark at the spark plugs, which is essential for efficient combustion.

5. MAINTENANCE

The Standard Motor Products AL-111 Ignition Condenser is a sealed, non-serviceable component. It does not require routine maintenance such as cleaning or lubrication. Its lifespan is dependent on operating conditions and vehicle usage. If the condenser fails, it must be replaced. Regular inspection of the ignition system, including the points and condenser, during routine vehicle servicing is recommended.

6. TROUBLESHOOTING

A faulty ignition condenser can lead to various engine performance issues. If you experience any of the following symptoms, the condenser may be a contributing factor and should be inspected or replaced:

- **Engine Misfires:** Irregular or incomplete combustion.
- **Hard Starting:** Difficulty in starting the engine, especially when cold.
- **Poor Engine Performance:** Reduced power, hesitation, or rough idling.
- **Excessive Point Pitting/Burning:** Visible damage to the ignition points, indicating the condenser is not effectively suppressing arcing.
- **Engine Stalling:** Engine unexpectedly shuts off.

Troubleshooting Steps:

1. **Visual Inspection:** Check the condenser for any obvious signs of damage, such as swelling or leaks. Also, inspect the ignition points for excessive pitting or burning.
2. **Testing:** A condenser can be tested using a multimeter or a dedicated condenser tester to check its capacitance and for shorts. Consult a professional if you are unsure how to perform these tests.
3. **Replacement:** If the condenser is suspected to be faulty, replacement with a new AL-111 unit is the most common solution.

Always ensure that other ignition components (spark plugs, ignition coil, points, wiring) are in good working order before concluding that the condenser is the sole cause of an issue.

7. SPECIFICATIONS

The following table details the key specifications for the Standard Motor Products AL-111 Ignition Condenser:

Specification	Value
Product Dimensions	2.7"W x 5.7"H
Manufacturer	Standard Motor Products
UPC	091769001292
Model	Ignition Rotor (Note: This refers to the product's internal classification, the item itself is a condenser)

Specification	Value
Item Weight	0.32 ounces
Item Model Number	AL-111
Exterior	Painted
Manufacturer Part Number	AL-111
National Stock Number	5910-01-365-7313
ASIN	B000C7WRJI
Material	Ceramic, Metal
Shape	Rectangular
Mounting Type	Through-Hole Mount
Upper Temperature Rating	85 Degrees Celsius

8. WARRANTY INFORMATION

Specific warranty terms for the Standard Motor Products AL-111 Ignition Condenser are provided by the manufacturer or the point of purchase. Please retain your proof of purchase and refer to the warranty documentation included with your product or contact Standard Motor Products directly for detailed warranty coverage and claim procedures.

9. SUPPORT

For technical assistance, installation queries, or further product information regarding the Standard Motor Products AL-111 Ignition Condenser, please contact Standard Motor Products customer support or the retailer from whom the product was purchased. Always provide the model number (AL-111) and any relevant vehicle information when seeking support.

You can typically find contact information on the manufacturer's official website or on the product packaging.

