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› Standard Motor Products AL35 Ignition Cap User Manual

Standard Motor Products AL35

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Model: AL35

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Standard Motor Products AL35 Ignition Cap. The AL35 is a critical component in your vehicle's ignition system, designed to distribute high voltage from the ignition coil to the correct spark plug at the precise time, ensuring efficient engine operation. Please read this manual thoroughly before attempting any installation or maintenance.

2. PRODUCT OVERVIEW



Figure 2.1: Standard Motor Products AL35 Ignition Cap

This image displays the Standard Motor Products AL35 Ignition Cap, a black, circular component with five brass-contact terminals protruding from its top surface. The cap is designed to fit over a distributor, directing electrical current to the spark plugs. Its robust construction ensures reliable performance in automotive ignition systems.

2.1. What's in the Box

- One (1) Standard Motor Products AL35 Ignition Cap

2.2. Key Features

- Standard Distributor Cap (AL35)
- Part number: AL35
- Fit type: Vehicle Specific
- Constructed with durable materials including Polyester, Glass, Resin, and Brass for longevity.
- Designed for precise fit and function in compatible automotive applications.

3. SETUP AND INSTALLATION

Proper installation is crucial for the correct function and longevity of the ignition cap. Always ensure the vehicle's ignition is off and the battery is disconnected before beginning any work on the ignition system.

1. **Safety First:** Disconnect the negative terminal of the vehicle's battery to prevent accidental electrical discharge.
2. **Locate Distributor:** Identify the distributor assembly on your vehicle's engine. The ignition cap sits on top of the distributor.
3. **Remove Old Cap:** Carefully unclip or unscrew the fasteners holding the old ignition cap in place. Note the orientation of the cap and the position of each spark plug wire before removal. It is often helpful to label each wire.
4. **Inspect Rotor and Contacts:** With the old cap removed, inspect the distributor rotor for wear or damage. Also, check the internal contacts of the old cap for corrosion or excessive wear.
5. **Clean Distributor Base:** Gently clean any debris or corrosion from the mating surface of the distributor base.
6. **Install New Cap:** Align the new AL35 ignition cap with the distributor base, ensuring that the locating tabs or grooves match up correctly. The cap should sit flush.
7. **Connect Wires:** Reattach the spark plug wires to the new cap in the exact same order and position as they were on the old cap. Incorrect wiring will lead to engine misfires.
8. **Secure Cap:** Fasten the new cap securely using the original clips or screws.
9. **Reconnect Battery:** Reconnect the negative terminal of the vehicle's battery.
10. **Test:** Start the vehicle and check for proper engine operation. Listen for any misfires or unusual sounds.

If you are unsure about any step, consult a qualified automotive technician or refer to your vehicle's specific service manual.

4. OPERATION

The Standard Motor Products AL35 Ignition Cap is a passive component that works in conjunction with the distributor rotor and ignition coil to deliver high voltage to the spark plugs. Once installed, its operation is integral to the vehicle's ignition system and requires no direct user interaction during vehicle operation. The cap's primary function is to provide an insulated pathway for the high-voltage current from the ignition coil to each spark plug wire terminal in the correct firing order. This ensures that the spark plugs ignite the air-fuel mixture in the engine cylinders at the precise moment for combustion.

5. MAINTENANCE

Regular inspection of your ignition system components, including the AL35 Ignition Cap, can help prevent potential issues and ensure optimal engine performance.

- **Visual Inspection:** Periodically inspect the ignition cap for cracks, carbon tracking (black lines on the surface), corrosion on the terminals, or signs of arcing.
- **Terminal Condition:** Check the brass contacts inside the cap for excessive wear or pitting. Worn contacts can lead to poor electrical connection.
- **Spark Plug Wires:** Ensure spark plug wires are securely seated in the cap and are not cracked or damaged.
- **Cleaning:** If necessary, gently wipe the exterior of the cap with a clean, dry cloth to remove dirt or dust. Do not use harsh chemicals.
- **Replacement Interval:** Consult your vehicle's service manual for recommended replacement intervals for ignition system components. Even without visible damage, these parts can degrade over time.

6. TROUBLESHOOTING

If you experience ignition-related problems, the ignition cap could be a contributing factor. Here are some common symptoms and potential causes:

Symptom	Possible Cause (Ignition Cap Related)	Action
Engine Misfires or Rough Idling	Cracked cap, carbon tracking, corroded or worn internal contacts, incorrect spark plug wire routing.	Inspect cap for damage. Check wire connections. Replace cap if damaged or worn. Verify correct wire order.
Engine Cranks but Won't Start	Severely damaged cap, no spark reaching plugs due to internal short or open circuit.	Inspect cap for severe damage. Test for spark at the plugs. Consider replacing cap.
Poor Fuel Economy	Inefficient spark delivery due to worn cap components.	Inspect and replace cap if internal contacts are significantly worn.
Check Engine Light (CEL)	Misfire codes (P030x) due to faulty cap.	Scan for diagnostic trouble codes. If misfire codes are present, inspect ignition components including the cap.

Note: Many factors can cause these symptoms. Always perform a thorough diagnosis before replacing parts. If problems persist, seek professional automotive assistance.

7. SPECIFICATIONS

Attribute	Value
Brand	Standard Motor Products
Model	AL35
Part Number	AL-35
UPC	091769001667
Color	Assorted (Typically Black)
Material	Polyester, Glass, Resin, Brass
Exterior Finish	Machined
Item Dimensions (L x W x H)	4 x 4 x 4 inches
Item Weight	0.01 Ounces (approx.)
Closure Type	Twist-On (or clip-on, depending on application)
Automotive Fit Type	Vehicle Specific Fit
Manufacturer	Standard Ignition

8. WARRANTY AND SUPPORT

Standard Motor Products stands behind the quality of its products. For specific warranty information regarding

your AL35 Ignition Cap, please refer to the warranty documentation included with your purchase or visit the official Standard Motor Products website.

For technical support, installation assistance, or any inquiries not covered in this manual, please contact Standard Motor Products customer service directly. Contact information can typically be found on their official website or product packaging.

Always ensure you have your product model number (AL35) and purchase details ready when contacting support.

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