Standard Motor Products LX760

Standard Motor Products LX760 Ignition Pickup User Manual

Model: LX760

Introduction | Setup & Installation | Operation | Maintenance | Troubleshooting | Specifications | Warranty & Support

1. Introduction

This manual provides essential information for the proper installation, function, and care of your Standard Motor Products LX760 Ignition Pickup. Please read these instructions carefully before proceeding with installation or any related procedures.

1.1 Product Overview

The Standard Motor Products LX760 is an automotive ignition pickup designed to accurately sense engine position and speed, transmitting this data to the vehicle's ignition control module. This component is crucial for ensuring precise ignition timing and efficient engine operation.



Figure 1: A close-up view of the Standard Motor Products LX760 Ignition Pickup, showing its wiring and connector.

1.2 What's in the Box

- 1 x Standard Motor Products LX760 Ignition Pickup

2. Setup & Installation

Warning: Automotive electrical systems can be complex. Incorrect installation may lead to vehicle damage or personal injury. It is highly recommended that installation be performed by a qualified automotive technician.

2.1 Safety Precautions

- Always disconnect the vehicle's negative battery terminal before beginning any electrical work.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the engine is cool before working on engine components.
- Refer to your vehicle's specific service manual for detailed instructions on accessing and replacing the ignition pickup.

2.2 Installation Steps

1. **Locate the Existing Component:** Identify the location of the current ignition pickup in your vehicle. This is typically found within the distributor or crankshaft position sensor assembly, depending on the vehicle's design.
2. **Disconnect Wiring:** Carefully disconnect the electrical connector from the old ignition pickup.
3. **Remove Old Pickup:** Unfasten any mounting screws or clips securing the old ignition pickup and remove it from its position.
4. **Install New Pickup:** Position the Standard Motor Products LX760 Ignition Pickup in the same location as the old unit. Secure it with the appropriate mounting hardware. Ensure it is seated correctly and firmly.
5. **Connect Wiring:** Reconnect the electrical connector to the new ignition pickup. Ensure the connection is secure and free from debris.
6. **Reconnect Battery:** Reconnect the vehicle's negative battery terminal.
7. **Test System:** Start the vehicle and check for proper engine operation. If a check engine light illuminates, scan for diagnostic trouble codes (DTCs) to identify any issues.

3. Operation

The Standard Motor Products LX760 Ignition Pickup operates as an integral part of your vehicle's ignition system. It is a passive component that generates a signal based on the rotation of a reluctor wheel (or similar component) within the distributor or near the crankshaft. This signal is then sent to the ignition control module or engine control unit (ECU), which uses it to determine the precise moment to fire the spark plugs, ensuring optimal engine performance and fuel efficiency.

There are no user-adjustable settings or direct operational controls for this component. Its function is entirely automatic once installed correctly within the vehicle's system.

4. Maintenance

The Standard Motor Products LX760 Ignition Pickup is designed for long-term reliability and typically requires minimal maintenance. However, periodic inspection can help ensure its continued proper function.

4.1 Inspection

- **Visual Check:** During routine engine maintenance, visually inspect the ignition pickup and its wiring for any signs of physical damage, corrosion, or frayed insulation.
- **Connection Integrity:** Ensure the electrical connector remains securely attached and free from dirt or moisture.
- **Cleanliness:** Keep the area around the pickup free from excessive oil, grease, or debris, which could potentially interfere with its operation or cause premature wear.

If any damage or excessive wear is observed, consider replacing the unit to prevent potential ignition system failures.

5. Troubleshooting

A faulty ignition pickup can cause various engine performance issues. If you experience any of the following symptoms, the ignition pickup may be a contributing factor:

5.1 Common Symptoms of a Faulty Ignition Pickup

- **No Start Condition:** The engine cranks but does not start, often due to a lack of spark.
- **Engine Misfires or Stalls:** Intermittent loss of power or the engine suddenly dying while driving.
- **Rough Idling:** Unstable engine speed at idle.
- **Check Engine Light:** Illumination of the check engine light, often accompanied by specific diagnostic trouble codes (DTCs) related to crankshaft or camshaft position sensors.
- **Loss of RPM Signal:** Tachometer not functioning or erratic readings.

5.2 Diagnostic Steps

- **Check Connections:** Ensure all electrical connections to the ignition pickup are clean, tight, and free from corrosion.
- **Inspect Wiring:** Look for any damaged, frayed, or pinched wires leading to the pickup.
- **Scan for DTCs:** Use an OBD-II scanner to retrieve any stored diagnostic trouble codes. Codes such as P0335 (Crankshaft Position Sensor 'A' Circuit Malfunction) or similar can indicate an issue with the pickup.
- **Resistance Test:** Consult your vehicle's service manual for the correct resistance specifications for the ignition pickup. Use a multimeter to test the resistance across the pickup's terminals. An out-of-specification reading indicates a faulty unit.
- **Signal Test:** A more advanced test involves using an oscilloscope to verify the signal output from the pickup while the engine is cranking or running. This should ideally be performed by a professional.

If troubleshooting indicates a faulty ignition pickup, replacement is typically the recommended solution.

6. Specifications

Feature	Detail
Manufacturer	Standard Motor Products
Brand	Standard Motor Products
Model	Ignition Pickup
Item Model Number	LX760
Item Weight	2.08 ounces
Product Dimensions	4 x 1.8 x 4.1 inches
Exterior Finish	Machined

7. Warranty & Support

For information regarding the warranty coverage for your Standard Motor Products LX760 Ignition Pickup, please refer to the documentation provided with your purchase or visit the official Standard Motor Products website. Warranty terms and conditions may vary.

7.1 Customer Support

If you require technical assistance, have questions about installation, or need to report a product issue, please contact Standard Motor Products customer support directly. Contact information can typically be found on the manufacturer's official website or on the product packaging.
When contacting support, please have your product model number (LX760) and any relevant purchase information readily available.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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