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› Standard Motor Products LX-301 Ignition Control Module User Manual

## Standard Motor Products LX-301

# Standard Motor Products LX-301 Ignition Control Module User Manual

Model: LX-301

## 1. INTRODUCTION

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This manual provides essential information for the proper installation, operation, and maintenance of your Standard Motor Products LX-301 Ignition Control Module. Please read this manual thoroughly before attempting any installation or service to ensure safe and effective use of the product. The LX-301 is designed as a direct replacement part for specific automotive ignition systems.

## 2. SAFETY INFORMATION

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Always observe the following safety precautions when working with automotive electrical components:

- Disconnect the vehicle's battery before beginning any work on the ignition system to prevent electrical shock or damage to components.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the engine is cool before handling ignition components to avoid burns.
- Refer to your vehicle's specific service manual for detailed instructions and torque specifications.
- Keep all tools and parts away from moving engine components.

## 3. PACKAGE CONTENTS

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Verify that all items are present and undamaged upon opening the package. The LX-301 package should contain:

- One (1) Standard Motor Products LX-301 Ignition Control Module
- This instruction manual

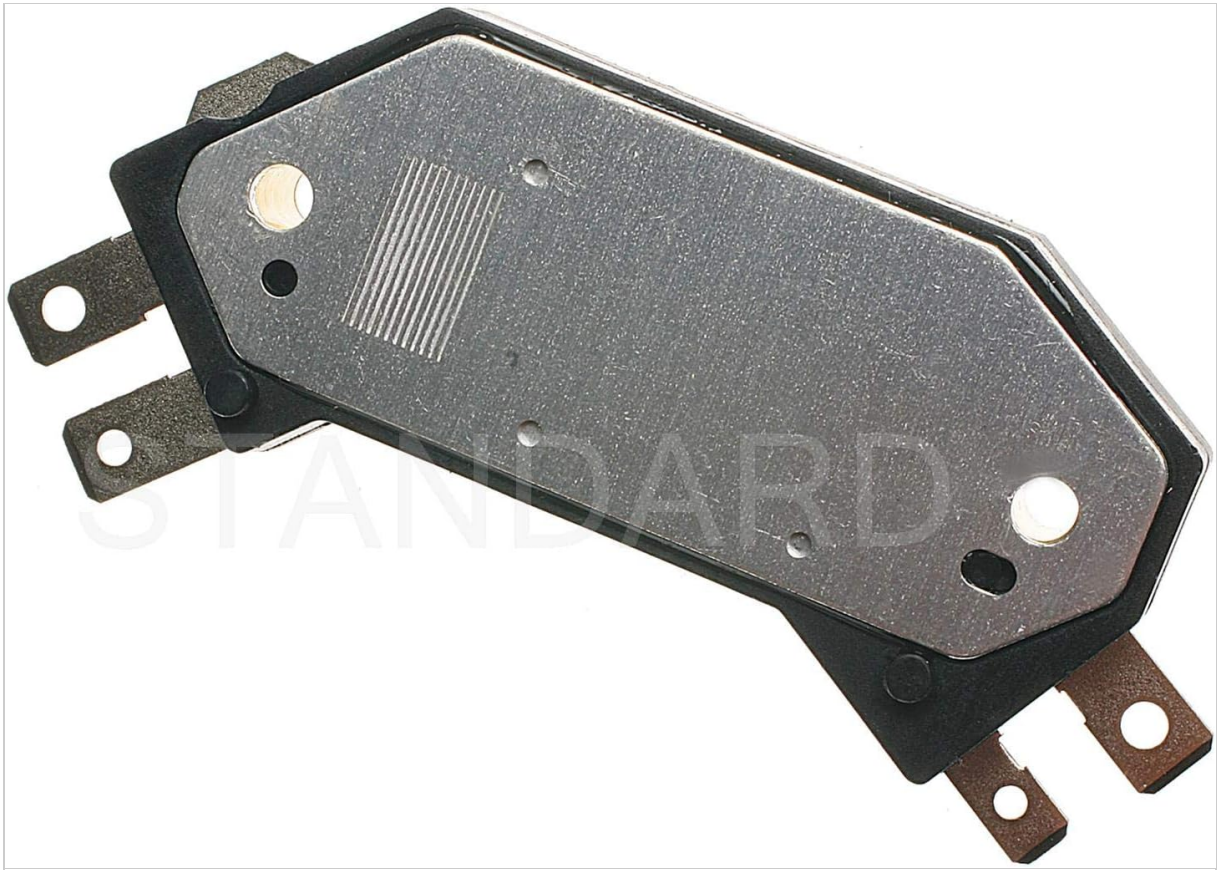


Figure 3.1: Top view of the LX-301 Ignition Control Module.



Figure 3.2: Bottom view of the LX-301 Ignition Control Module.

#### 4. SETUP AND INSTALLATION

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The LX-301 Ignition Control Module is a critical component of your vehicle's ignition system. Proper installation is essential for correct engine operation. This section provides general installation guidelines. Always consult your vehicle's specific service manual for detailed, model-specific instructions.

#### 4.1 Pre-Installation Steps

1. **Identify the Module:** Locate the existing ignition control module in your vehicle. Its location varies by vehicle make and model, but it is often found near the distributor or mounted on a heat sink.
2. **Disconnect Battery:** Disconnect the negative terminal of the vehicle's battery to prevent accidental electrical discharge.
3. **Prepare Area:** Ensure the work area is clean and free of debris.

#### 4.2 Removal of Old Module

1. **Disconnect Wiring:** Carefully disconnect all electrical connectors from the old ignition control module. Note their positions for reinstallation.
2. **Unmount Module:** Remove any mounting screws or clips securing the module.
3. **Remove Heat Sink Compound:** If the module was mounted with heat sink compound, carefully clean the mounting surface on the vehicle.

#### 4.3 Installation of New LX-301 Module

1. **Apply Heat Sink Compound:** Apply a thin, even layer of dielectric grease or heat sink compound (not included) to the back of the new LX-301 module where it contacts the mounting surface. This is crucial for heat dissipation.
2. **Mount Module:** Position the new LX-301 module and secure it with the appropriate mounting screws or clips. Ensure it is firmly seated.
3. **Reconnect Wiring:** Reconnect all electrical connectors to the new module, ensuring they are fully seated and locked.
4. **Reconnect Battery:** Reconnect the negative terminal of the vehicle's battery.

### 5. OPERATING INSTRUCTIONS (POST-INSTALLATION CHECK)

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After installing the LX-301 Ignition Control Module, perform the following checks to ensure proper operation:

1. **Initial Start-up:** Start the vehicle's engine. Listen for any unusual noises or observe any warning lights on the dashboard.
2. **Idle Check:** Allow the engine to idle for a few minutes. The idle should be smooth and consistent.
3. **Test Drive:** If the initial start-up and idle are normal, perform a short test drive to confirm proper engine performance under various conditions (acceleration, cruising).
4. **Diagnostic Scan:** If you have access to an OBD-II scanner, check for any stored or pending diagnostic trouble codes (DTCs) to confirm no new issues have arisen.

If the engine does not start, runs rough, or exhibits any other abnormal behavior, refer to the Troubleshooting section of this manual or consult a qualified automotive technician.

### 6. MAINTENANCE

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The Standard Motor Products LX-301 Ignition Control Module is designed to be a maintenance-free component. However, periodic inspection of its connections and surrounding components can help ensure its longevity and proper function.

- **Visual Inspection:** During routine vehicle maintenance, visually inspect the module and its wiring for any signs of corrosion, damage, or loose connections.
- **Cleanliness:** Keep the area around the module clean and free of excessive dirt, oil, or moisture.
- **Heat Sink Compound:** If the module is ever removed and reinstalled, ensure fresh heat sink compound is applied to maintain optimal thermal transfer.

Do not attempt to open or repair the module, as it contains no user-serviceable parts and doing so will void any warranty.

## 7. TROUBLESHOOTING

If you experience issues after installing the LX-301, consider the following common troubleshooting steps:

Symptom	Possible Cause	Solution
Engine cranks but does not start	No spark; faulty wiring; incorrect installation	Check all electrical connections. Verify proper installation. Test for spark at the spark plugs. Consult a professional if necessary.
Rough idle or misfires	Faulty spark plug wires; incorrect timing; other ignition component failure	Inspect spark plug wires and spark plugs. Check for vacuum leaks. A diagnostic scan may reveal specific cylinder misfires.
Check Engine Light (CEL) illuminated	Diagnostic Trouble Code (DTC) detected	Use an OBD-II scanner to retrieve DTCs. Address the specific code.
Engine stalls intermittently	Loose connection; overheating module; other sensor failure	Check all connections for tightness. Ensure proper heat sink compound application.

If troubleshooting steps do not resolve the issue, it is recommended to seek assistance from a certified automotive technician.

## 8. SPECIFICATIONS

- **Model:** LX-301
- **Brand:** Standard Motor Products
- **Manufacturer:** STANDARD IGN
- **Display Type:** Digital (Refers to internal processing, not an external display)
- **Color:** Black
- **UPC:** 091769018009
- **ASIN:** B00ATCA7PM

## 9. WARRANTY AND SUPPORT

Standard Motor Products offers a limited warranty on its products. For specific warranty terms and conditions, please refer to the warranty information provided with your purchase or visit the official Standard Motor Products website. Keep your proof of purchase for warranty claims.

### 9.1 Customer Support

If you require technical assistance or have questions regarding the LX-301 Ignition Control Module, please contact Standard Motor Products customer support through their official website or the contact information provided on your product packaging.