

Standard Motor Products LX796

Standard Motor Products LX796 Ignition Module User Manual

Model: LX796

1. PRODUCT OVERVIEW

The Standard Motor Products LX796 Intermotor Ignition Control Module is a critical component in a vehicle's ignition system. It is engineered to provide reliable performance, ensuring proper ignition timing and spark delivery to the engine's cylinders. This module is designed to meet or exceed original equipment specifications for fit, form, and function, offering a direct replacement solution for compatible vehicles.

Key design features include double wire bonds for enhanced connection reliability, copper slug heat sinks for superior heat dissipation, and a high-temperature polymer housing to resist moisture and vibration. These elements contribute to the module's extended life and consistent operation under demanding automotive conditions.

2. PRODUCT FEATURES

- **Intermotor Ignition Control Module (LX796):** Specifically designed for precise ignition control.
- **Enhanced Durability:** Features double wire bonds for improved connections and longevity.
- **Superior Heat Management:** Copper slug heat sinks effectively dissipate heat, preventing damage.
- **Optimized Cold Start Performance:** Responds to weak crankshaft position sensor signals to energize coils quickly.
- **Robust Construction:** High-temperature polymer housing reduces moisture intrusion and minimizes vibration damage.
- **Rigorous Testing:** Durability tested for 500 thermal cycles ranging from -40°C to +125°C.
- **OEM Quality:** Manufactured to original equipment standards for reliable replacement.
- **Vehicle Specific Fit:** Designed for specific vehicle applications, ensuring proper integration.

3. SETUP AND INSTALLATION

Installation of the Standard Motor Products LX796 Ignition Module requires automotive knowledge and specific tools. Due to the critical nature of this component within the vehicle's electrical and ignition system, *professional installation by a*

certified mechanic is highly recommended. Incorrect installation can lead to vehicle malfunction, damage to the module or other vehicle components, or personal injury.

3.1 Safety Precautions

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

3.2 General Installation Steps (Consult Vehicle Manual for Specifics)

1. Locate the existing ignition control module in your vehicle. Its location varies by make and model.
2. Carefully disconnect all electrical connectors attached to the old module. Note their positions for reinstallation.
3. Unbolt and remove the old ignition module from its mounting location.
4. Apply a thin layer of thermal grease (if not pre-applied) to the mounting surface of the new LX796 module to ensure proper heat transfer.
5. Mount the new LX796 module securely in the same location, ensuring all mounting bolts are tightened to the manufacturer's specifications.
6. Reconnect all electrical connectors to the new module, ensuring they are fully seated and locked.
7. Reconnect the vehicle's battery.
8. Start the vehicle and check for proper operation and any diagnostic trouble codes (DTCs).

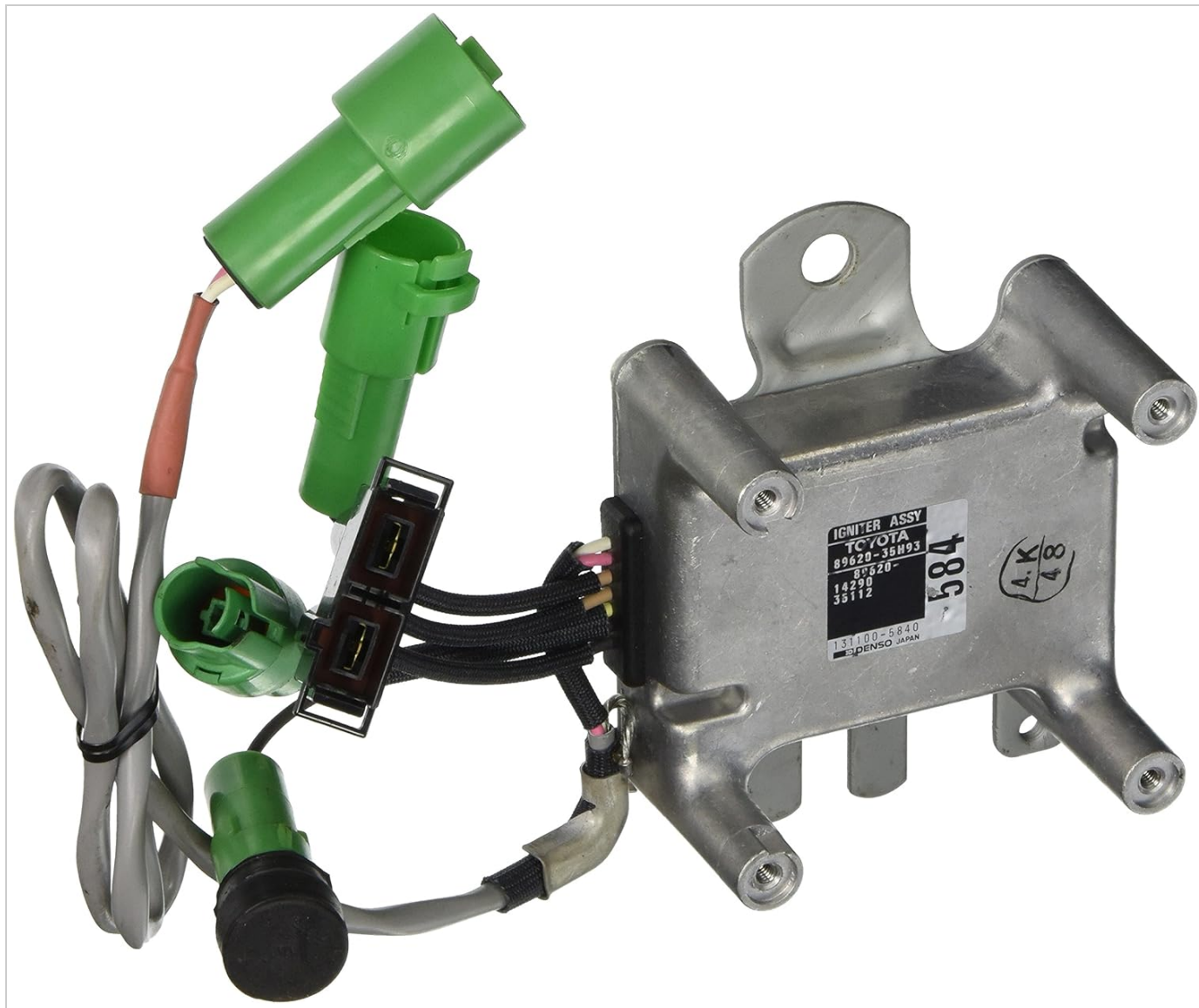


Figure 1: Standard Motor Products LX796 Ignition Module. This image shows the main module unit, which is a metallic gray box with mounting points, along with various green electrical connectors and associated wiring. The module has a label indicating "IGNITER ASSY TOYOTA" and part numbers.

4. OPERATION

The LX796 Ignition Control Module functions as the brain of the vehicle's ignition system, receiving signals from the engine's crankshaft position sensor and other sensors. Based on these signals, the module precisely controls the timing and duration of the electrical current sent to the ignition coils. This process generates the high-voltage spark required by the spark plugs to ignite the air-fuel mixture in the engine's cylinders.

Proper operation of the ignition module is crucial for engine performance, fuel efficiency, and emissions control. A correctly functioning module ensures consistent and powerful sparks, leading to efficient combustion and smooth engine operation.

5. MAINTENANCE

The Standard Motor Products LX796 Ignition Module is designed for long-term, maintenance-free operation. However, to ensure its longevity and optimal performance, consider the following general guidelines:

- **Regular Inspection:** During routine vehicle maintenance, visually inspect the module and its wiring for any signs of damage, corrosion, or loose connections.
- **Environmental Protection:** Ensure the module's mounting area is free from excessive moisture, dirt, and extreme

heat sources beyond normal operating conditions.

- **Avoid Physical Damage:** Protect the module from impacts or physical stress during other vehicle repairs.
- **Proper Electrical System Health:** Maintain a healthy vehicle electrical system, including a properly functioning battery and charging system, to prevent voltage spikes or drops that could affect electronic components.

6. TROUBLESHOOTING

If you experience issues with your vehicle's ignition system, the LX796 Ignition Module may be a contributing factor. Below are common symptoms associated with a failing ignition module:

- **Engine Misfires or Rough Idling:** Inconsistent spark delivery can cause the engine to run unevenly.
- **No Start Condition:** If the module fails completely, the engine may crank but not start due to lack of spark.
- **Stalling:** The engine may unexpectedly shut off while driving.
- **Reduced Fuel Economy:** Inefficient combustion due to poor spark can lead to increased fuel consumption.
- **Check Engine Light:** The vehicle's onboard diagnostic (OBD-II) system may illuminate the Check Engine Light and store relevant diagnostic trouble codes (DTCs).

Diagnostic Steps:

1. **Check for DTCs:** Use an OBD-II scanner to retrieve any stored codes. Codes related to ignition system malfunctions (e.g., P0300 series for misfires, P13xx series for ignition module issues) can point to the problem.
2. **Inspect Wiring and Connectors:** Ensure all connections to the module are secure and free from corrosion or damage.
3. **Test for Spark:** With proper safety precautions, test for spark at the spark plugs. No spark or weak spark can indicate a module issue.
4. **Professional Diagnosis:** If symptoms persist or you are unsure, consult a qualified automotive technician for a thorough diagnosis. They have specialized tools and expertise to accurately test ignition system components.

Warning: Attempting repairs without proper knowledge and tools can be dangerous and may cause further damage to your vehicle.

7. SPECIFICATIONS

Attribute	Value
Model Number	LX796
Brand	Standard Motor Products
Item Weight	14.2 ounces
Product Dimensions	6 x 4.63 x 3.75 inches
Connector Gender	Female
Connector Quantity	5
Mounting Location	Direct Ignition
Terminal Gender	Male
Terminal Quantity	9

Attribute	Value
Terminal Type	Blade
Voltage	12V
OEM Part Numbers	8962014290, 8962035112, 8962035H93

8. WARRANTY INFORMATION

The Standard Motor Products LX796 Ignition Control Module comes with a manufacturer's warranty of **5 years or 50,000 miles**, whichever comes first. This warranty covers defects in material and workmanship under normal use and service. For specific terms, conditions, and claim procedures, please refer to the official Standard Motor Products warranty policy or contact their customer support.

9. CUSTOMER SUPPORT

For technical assistance, warranty claims, or any questions regarding the Standard Motor Products LX796 Ignition Module, please contact Standard Motor Products customer service. You can typically find contact information on the manufacturer's official website or through your product retailer.

When contacting support, please have your product model number (LX796) and any relevant vehicle information readily available to expedite assistance.

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