

[Manuals.plus](#) /

› [Standard Motor Products](#) /

› Standard Motor Products UC16 Ignition Coil User Manual

Standard Motor Products UC16

Standard Motor Products UC16 Ignition Coil User Manual

Model: UC16

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Standard Motor Products UC16 Ignition Coil. An ignition coil is a critical component in a vehicle's ignition system, responsible for transforming the battery's low voltage into the thousands of volts required to create an electric spark in the spark plugs, igniting the fuel-air mixture in the engine's cylinders.

Please read these instructions thoroughly before proceeding with installation or any related procedures to ensure safe and correct usage.

2. PRODUCT OVERVIEW

The Standard Motor Products UC16 Ignition Coil is designed as a direct replacement part for specific vehicle applications. It is engineered to meet or exceed original equipment specifications, ensuring reliable performance.

2.1 What's in the Box

- One (1) Standard Motor Products UC16 Ignition Coil

2.2 Product Image

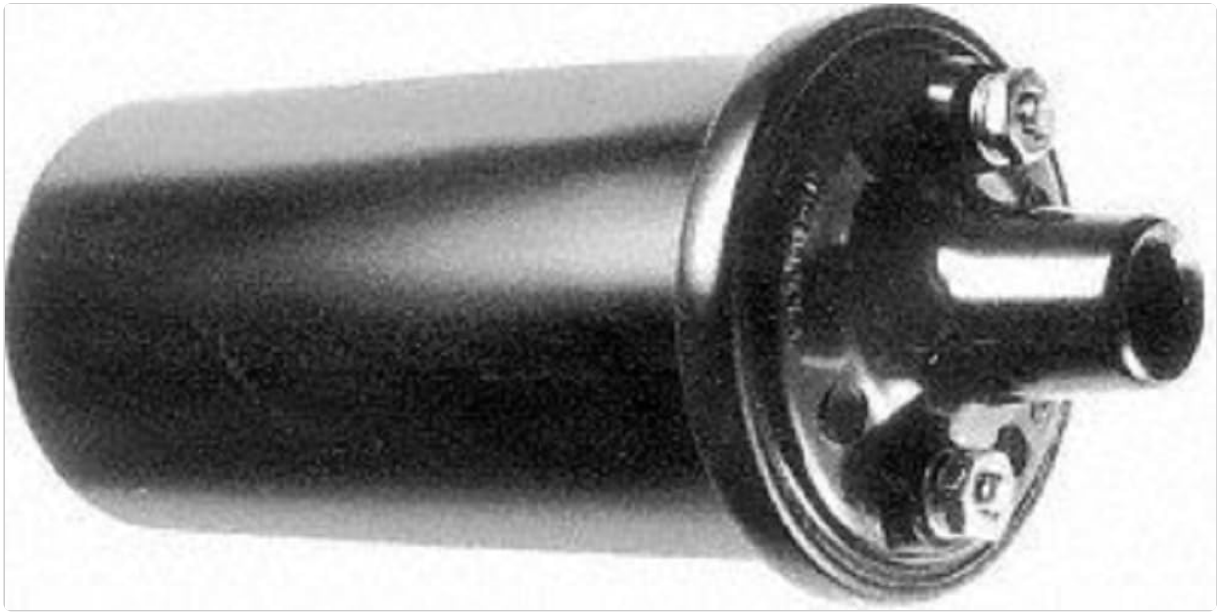


Image: A black, cylindrical ignition coil with electrical terminals visible at one end. This is the Standard Motor Products UC16 Ignition Coil.

3. SAFETY INFORMATION

Always prioritize safety when working on a vehicle's electrical system. Failure to follow safety precautions can result in serious injury or damage to the vehicle.

- **Disconnect Battery:** Always disconnect the vehicle's negative battery terminal before performing any work on the ignition system to prevent electrical shock or short circuits.
- **Wear Protective Gear:** Use appropriate personal protective equipment, including safety glasses and gloves.
- **Consult Vehicle Manual:** Refer to your vehicle's specific service manual for detailed instructions and torque specifications relevant to your make and model.
- **High Voltage:** Ignition coils generate extremely high voltage. Avoid contact with the coil or spark plug wires when the engine is running or the ignition is on.
- **Proper Tools:** Use only appropriate and insulated tools for automotive electrical work.

4. INSTALLATION (SETUP)

The UC16 Ignition Coil is designed for bolt-on installation. The following steps provide a general guide. Specific procedures may vary by vehicle. Always consult your vehicle's service manual.

4.1 Tools Required

- Wrench set or socket set
- Screwdriver set
- Battery terminal wrench
- Dielectric grease (optional, for electrical connections)

4.2 Installation Steps

1. **Prepare Vehicle:** Park the vehicle on a level surface, engage the parking brake, and ensure the engine is cool.
2. **Disconnect Battery:** Locate the vehicle's battery and disconnect the negative (-) terminal first,

followed by the positive (+) terminal. This prevents accidental electrical discharge.

3. **Locate Old Coil:** Identify the existing ignition coil(s) in your vehicle. Their location varies; consult your vehicle's service manual if unsure.
4. **Disconnect Wiring:** Carefully disconnect the electrical connector(s) from the old ignition coil. Some connectors may have a locking tab that needs to be pressed or slid.
5. **Remove Spark Plug Wires (if applicable):** If your vehicle uses external spark plug wires connected to the coil, carefully pull them off. Note their positions for correct reinstallation.
6. **Unbolt Old Coil:** Use appropriate wrenches or sockets to remove the mounting bolts securing the old ignition coil. Keep track of all hardware.
7. **Remove Old Coil:** Carefully remove the old ignition coil from its mounting location.
8. **Install New Coil:** Position the new Standard Motor Products UC16 Ignition Coil in the same location as the old one. Ensure it seats correctly.
9. **Secure New Coil:** Reinstall the mounting bolts and tighten them according to your vehicle's specifications. Do not overtighten.
10. **Reconnect Spark Plug Wires (if applicable):** Reattach the spark plug wires to the new coil in their original positions. Ensure a secure connection.
11. **Reconnect Wiring:** Reconnect the electrical connector(s) to the new ignition coil. Ensure the connection is firm and the locking tab (if present) is engaged.
12. **Reconnect Battery:** Reconnect the positive (+) battery terminal first, then the negative (-) terminal. Ensure connections are tight.
13. **Test System:** Start the vehicle and check for proper operation. Listen for any unusual noises or observe any warning lights.

5. OPERATION

Once correctly installed, the Standard Motor Products UC16 Ignition Coil operates automatically as part of your vehicle's ignition system. It receives a low voltage signal from the engine control unit (ECU) or ignition module and transforms it into a high voltage pulse, which is then sent to the spark plugs to ignite the fuel-air mixture.

No user intervention is required for the operation of the ignition coil itself after installation.

6. MAINTENANCE

Ignition coils are generally maintenance-free components. However, regular inspection of the entire ignition system can help ensure longevity and optimal performance.

- **Visual Inspection:** Periodically inspect the ignition coil and its wiring for any signs of damage, cracks, corrosion, or loose connections.
- **Spark Plug Wires:** If applicable, check spark plug wires for wear, cracks, or damage. Replace them if necessary, as faulty wires can stress the ignition coil.
- **Spark Plugs:** Ensure spark plugs are in good condition and replaced according to your vehicle's maintenance schedule. Worn spark plugs can increase the load on the ignition coil.
- **Cleanliness:** Keep the area around the ignition coil clean and free from excessive dirt, oil, or moisture.

7. TROUBLESHOOTING

If you experience issues after installing the UC16 Ignition Coil, consider the following common troubleshooting steps. If problems persist, consult a qualified automotive technician.

- **Engine Misfire or Rough Idling:**
 - Verify all electrical connectors are securely attached to the coil.
 - Check spark plug wires for proper connection and integrity (if applicable).
 - Inspect spark plugs for wear or damage.
 - Ensure the coil is correctly mounted and grounded.
- **No Start Condition:**
 - Confirm battery connections are tight and the battery is charged.
 - Check for power supply to the ignition coil.
 - Ensure all wiring connections are correct and secure.
- **Check Engine Light (CEL):**
 - A diagnostic trouble code (DTC) related to the ignition system may be stored. Use an OBD-II scanner to retrieve codes.
 - Common codes include P030x (misfire in cylinder x) or P035x (ignition coil primary/secondary circuit malfunction).

8. SPECIFICATIONS

Feature	Detail
Brand	Standard Motor Products
Model Number	UC16
Product Type	Auto Part (Ignition Coil)
Dimensions (L x W x H)	Approximately 3 x 3 x 8 inches (7.62 x 7.62 x 20.32 cm)
Item Weight	Approximately 1 pound (0.45 kg)
Connector Gender	Male
Installation Type	Bolt-On
Country of Origin	Mexico
UPC	091769032722

9. WARRANTY INFORMATION

Standard Motor Products provides a limited warranty for its products. Specific warranty terms and conditions, including duration and coverage, may vary. Please refer to the official Standard Motor Products website or contact their customer service for detailed warranty information applicable to the UC16 Ignition Coil.

Retain your proof of purchase for any warranty claims.

10. SUPPORT

For technical assistance, product inquiries, or support regarding your Standard Motor Products UC16 Ignition Coil, please contact Standard Motor Products customer service. Contact information can typically be found on their official website.

When contacting support, please have your product model number (UC16) and purchase details readily available.