



Manuals.plus /

- › **Standard Motor Products** /
- › Standard Motor Products UC15 Ignition Coil Instruction Manual

## Standard Motor Products UC15

# Standard Motor Products UC15 Ignition Coil Instruction Manual

Model: UC15

Brand: Standard Motor Products

## 1. INTRODUCTION

---

This instruction manual provides essential information for the proper installation, operation, and maintenance of your Standard Motor Products UC15 Ignition Coil. Adhering to these guidelines will help ensure optimal performance and longevity of the product. Please read this manual thoroughly before proceeding with any installation or service.

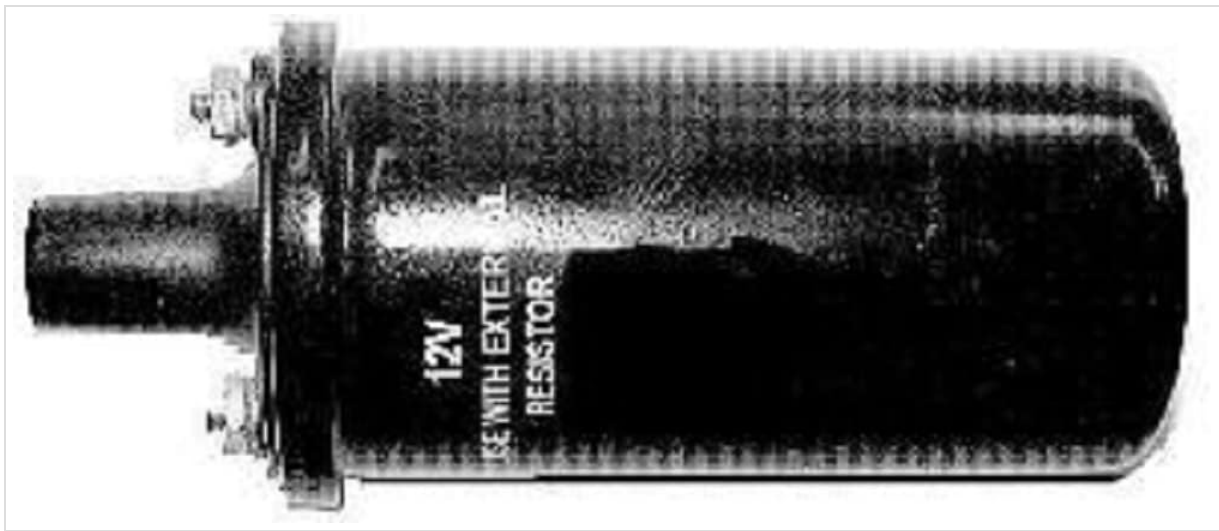
### 1.1 Safety Information

- Always disconnect the vehicle's battery before working on the ignition system to prevent electrical shock or damage to components.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the vehicle is parked on a level surface with the parking brake engaged.
- Consult a qualified automotive technician if you are unsure about any installation steps.

## 2. PRODUCT OVERVIEW

---

The Standard Motor Products UC15 Ignition Coil is a critical component of your vehicle's ignition system, designed to convert low-voltage battery current into the high voltage required to ignite the fuel-air mixture in the engine's cylinders. This coil is a 12-volt unit and requires the use of an external resistor for proper operation.



**Figure 1:** Standard Motor Products UC15 Ignition Coil. This image displays the Standard Motor Products UC15 Ignition Coil. It is a cylindrical, black component with electrical terminals at one end. Visible markings indicate '12V' and 'USE WITH EXTERNAL RESISTOR', highlighting key operational requirements.

## 2.1 Key Features

- **12-volt Operation:** Designed for 12-volt electrical systems.
- **External Resistor Requirement:** Must be used in conjunction with an external resistor.
- **Improved Performance:** Engineered to enhance overall ignition system performance.
- **Universal Fit:** Suitable for a wide range of automotive applications.

## 3. SETUP AND INSTALLATION

Proper installation is crucial for the correct function and longevity of the ignition coil. Follow these general steps for installation. Specific vehicle requirements may vary, so always refer to your vehicle's service manual.

### 3.1 Pre-Installation Checks

1. Ensure the vehicle's battery is disconnected.
2. Verify that the new UC15 coil matches the specifications of the original coil, particularly the 12-volt requirement and the need for an external resistor.
3. Inspect the new coil for any visible damage.

### 3.2 Installation Steps

1. **Locate the Old Coil:** Identify the existing ignition coil in your vehicle.
2. **Disconnect Wiring:** Carefully disconnect all electrical wiring from the old coil. Note the position of each wire for correct re-connection. The UC15 coil features male connectors.
3. **Remove Old Coil:** Unscrew or unbolt the old coil from its mounting bracket. The UC15 coil is designed for screw-in or bolt-on installation.
4. **Mount New Coil:** Secure the new UC15 ignition coil in the same location using the appropriate screws or bolts. Ensure it is firmly mounted to prevent vibration.
5. **Connect Wiring:** Reconnect the electrical wiring to the new coil. Pay close attention to the positive (+) and negative (-) terminals. Remember that this coil requires an external resistor in the circuit.
6. **Reconnect Battery:** Once all connections are secure, reconnect the vehicle's battery.

7. **Test System:** Start the vehicle and check for proper engine operation.

## 4. OPERATING INSTRUCTIONS

---

The Standard Motor Products UC15 Ignition Coil operates as an integral part of your vehicle's ignition system. Once correctly installed, it functions automatically when the engine is running. Its primary role is to generate a high-voltage spark to ignite the fuel-air mixture in the engine's combustion chambers. Ensure that the external resistor, which is critical for the 12-volt UC15 coil, is correctly integrated into the ignition circuit. This resistor manages the current flow to the coil, preventing overheating and ensuring proper spark generation.

## 5. MAINTENANCE

---

The UC15 Ignition Coil is designed for durability and typically requires minimal maintenance. However, periodic inspection can help identify potential issues before they lead to performance problems.

- **Visual Inspection:** Periodically check the coil for any signs of physical damage, cracks, or corrosion on the terminals.
- **Wiring Connections:** Ensure all electrical connections to the coil are clean, tight, and free from corrosion. Loose connections can lead to intermittent operation or failure.
- **External Resistor:** Verify the external resistor is in good condition and properly connected. Damage to the resistor can affect coil performance.
- **Cleanliness:** Keep the coil and surrounding area free from excessive dirt, oil, and moisture.

## 6. TROUBLESHOOTING

---

If you experience ignition system issues after installing or while using the UC15 Ignition Coil, consider the following troubleshooting steps:

- **No Spark or Weak Spark:**
  - Check all wiring connections for tightness and corrosion.
  - Verify the external resistor is correctly installed and functioning. An incorrect or faulty resistor can prevent proper coil operation.
  - Test the coil's primary and secondary resistance with a multimeter (refer to vehicle service manual for specific values).
  - Ensure the coil is receiving 12 volts from the vehicle's electrical system (after the resistor).
- **Engine Misfires or Rough Idling:**
  - Inspect spark plug wires for damage or improper connection.
  - Check spark plugs for wear or fouling.
  - Ensure the coil is securely mounted and not vibrating excessively.
- **Overheating Coil:**
  - This is often an indication of an incorrect or missing external resistor. Ensure the correct resistor is installed for a 12-volt coil.
  - Verify the vehicle's charging system is operating within normal parameters.

If issues persist after troubleshooting, it is recommended to consult a professional automotive technician.

## 7. SPECIFICATIONS

Feature	Specification
Brand	Standard Motor Products
Model	UC-15
Voltage	12-volt
Resistor Requirement	Requires external resistor
Item Dimensions (L x W x H)	3 x 3 x 8 inches
Item Weight	1.2 Pounds
Vehicle Service Type	Car
Connector Gender	Male
Installation Type	Screw-In or Bolt-On
Automotive Fit Type	Universal Fit
UPC	091769032708
OEM Part Number	UC-15

## 8. WARRANTY AND SUPPORT

For specific warranty information regarding your Standard Motor Products UC15 Ignition Coil, please refer to the documentation provided with your purchase or contact Standard Motor Products directly. Warranty terms and conditions may vary.

For technical support or further assistance, please visit the official Standard Motor Products website or contact their customer service department.