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> Kohler 47-145-02-S Ignition Coil Instruction Manual

## Kohler 47-145-02-S

# Kohler 47-145-02-S Ignition Coil Instruction Manual

### INTRODUCTION

This manual provides instructions for the Kohler 47-145-02-S Ignition Coil, a genuine Original Equipment Manufacturer (OEM) replacement part. This coil is designed to provide the necessary spark for your engine's ignition system, ensuring reliable starting and consistent performance. It is crucial to follow these instructions carefully for proper installation and safe operation.

### SAFETY INFORMATION

Always prioritize safety when working with engine components. Failure to follow safety precautions can result in serious injury or damage to equipment.

- **Disconnect Power:** Before performing any maintenance or installation, always disconnect the spark plug wire from the spark plug and disconnect the battery cables (negative first) to prevent accidental engine starting or electrical shock.
- **Wear PPE:** Wear appropriate personal protective equipment (PPE) such as safety glasses and gloves to protect against potential hazards.
- **Consult Engine Manual:** Refer to your specific engine's service manual for detailed safety procedures, torque specifications, and component locations.
- **Hot Surfaces:** Engine components can be hot. Allow the engine to cool completely before handling parts.
- **Fuel and Fumes:** Work in a well-ventilated area and be aware of fuel vapors, which are flammable.

### SETUP AND INSTALLATION

Proper installation of the ignition coil is essential for engine function.

#### Tools Required:

- Wrench set
- Screwdriver
- Spark plug gap tool (if applicable for related components)

## Installation Steps:

1. Ensure the engine is cool and all safety precautions mentioned above are followed.
2. Locate the existing ignition coil. It is typically mounted near the flywheel or cylinder head.
3. Carefully disconnect any wires attached to the old coil (e.g., primary wire, ground wire). Note their positions for correct reattachment.
4. Remove the mounting bolts or screws securing the old coil.
5. Carefully remove the old coil from its mounting position.
6. Position the new Kohler 47-145-02-S coil in the same location.
7. Secure the new coil with the mounting bolts/screws. If your engine requires a specific air gap between the coil and flywheel magnets, adjust it according to your engine's service manual specifications.
8. Reconnect all wires to the new coil, ensuring correct polarity if marked.
9. Reconnect the battery cables, positive first, then negative.
10. Reconnect the spark plug wire to the spark plug.
11. Test the engine for proper operation.



Image of the Kohler 47-145-02-S Ignition Coil, showing its typical appearance and connection points. This is the genuine OEM replacement part.

## OPERATING

Once installed correctly, the Kohler 47-145-02-S Ignition Coil operates automatically as an integral part of your engine's ignition system. It generates the high voltage required to create a spark at the spark plug, initiating combustion. Proper installation ensures reliable engine starting and smooth running. No direct user operation is required for the coil itself.

## MAINTENANCE

The ignition coil itself typically requires no routine maintenance. However, it is crucial to maintain other components of the ignition system to ensure the coil's longevity and optimal engine performance.

- **Spark Plugs:** Regularly inspect and replace spark plugs according to your engine manufacturer's recommendations. Fouled or worn spark plugs can put undue stress on the ignition coil.
- **Spark Plug Wires:** Inspect spark plug wires for cracks, fraying, or damage. Ensure they are securely connected to both the coil and the spark plug.
- **Wiring Connections:** Periodically check all electrical connections to the coil for tightness and corrosion. Clean any corroded terminals.
- **Cleanliness:** Keep the area around the ignition coil clean and free of debris, oil, and moisture.

## TROUBLESHOOTING

If you experience issues with your engine's ignition system, consider the following troubleshooting steps:

Symptom	Possible Cause	Solution
Engine Fails to Start or Starts with Difficulty	<ul style="list-style-type: none"> <li>Faulty spark plug</li> <li>Loose or damaged spark plug wire</li> <li>Incorrect coil wiring</li> <li>Kill switch in 'off' position</li> <li>Faulty ignition coil</li> </ul>	<ul style="list-style-type: none"> <li>Inspect and replace spark plug</li> <li>Check and secure spark plug wire; replace if damaged</li> <li>Verify all coil wiring connections</li> <li>Ensure kill switch is in 'run' position</li> <li>Test for spark; if no spark and other components are good, replace coil</li> </ul>
Engine Misfires or Runs Roughly	<ul style="list-style-type: none"> <li>Fouled or worn spark plug</li> <li>Intermittent spark plug wire connection</li> <li>Coil mounting loose</li> <li>Failing ignition coil (especially when hot)</li> </ul>	<ul style="list-style-type: none"> <li>Inspect and replace spark plug</li> <li>Check and secure spark plug wire</li> <li>Ensure coil is securely mounted</li> <li>Test coil performance; replace if inconsistent</li> </ul>
No Spark at Spark Plug	<ul style="list-style-type: none"> <li>Kill switch engaged</li> <li>Open circuit in primary wiring</li> <li>Faulty ignition coil</li> <li>Damaged flywheel magnets (rare)</li> </ul>	<ul style="list-style-type: none"> <li>Confirm kill switch is disengaged</li> <li>Check wiring for continuity</li> <li>Replace ignition coil</li> <li>Inspect flywheel for damage (consult engine manual)</li> </ul>

## SPECIFICATIONS

Key technical details for the Kohler 47-145-02-S Ignition Coil:

- **Part Number:** 47-145-02-S
- **Brand:** Kohler
- **Manufacturer:** Kohler
- **Installation Type:** Bolt-On
- **Item Weight:** Approximately 1 Pound
- **UPC:** 087206482076
- **ASIN:** B000P7OX4W
- **GTIN:** 087206482076

## WARRANTY AND SUPPORT

This Kohler genuine OEM part is subject to Kohler's standard warranty policy. For specific warranty details, terms, and conditions, please refer to the documentation provided with your engine or contact Kohler customer service directly. You can also visit the official Kohler website for more information and support resources.

For technical assistance or questions regarding the installation and operation of this part, it is

recommended to consult a certified service technician or contact Kohler customer support.