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# MOTOKU Kohler CH/CV/SV Series Engine Ignition Coil Replacement

## Ignition Coil User Manual

For Kohler CH/CV/SV Series Engines

Brand: MOTOKU

### INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your new ignition coil. This ignition coil is designed as a replacement part for a wide range of Kohler CH, CV, and SV series engines, commonly found in lawn mowers and other outdoor power equipment. Proper installation and care will ensure optimal performance and longevity of your engine.

### 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 beginning any work, ensure the engine is turned off and the spark plug wire is disconnected to prevent accidental starting.
- **Allow Cooling:** Allow the engine to cool completely before handling any components to avoid burns.
- **Wear Protective Gear:** Always wear appropriate personal protective equipment, including safety glasses and gloves.
- **Consult Engine Manual:** Refer to your specific engine's service manual for detailed instructions and torque specifications.
- **Handle with Care:** Ignition coils contain sensitive electronic components. Handle them carefully to avoid damage.

### COMPATIBILITY

This ignition coil is a direct replacement for OEM part numbers **24 584 45-S** and **24 584 01-S**, and Craftsman part number **917250541**. It is compatible with numerous Kohler engine models, including but not limited to:

- **Kohler CH Series:** CH18, CH20, CH22S, CH23S, CH670S, CH730S (various sub-models like CH18-625xx, CH20-645xx, CH18GS, CH18GST, CH18PS, CH18QS, CH18S, CH20GS, CH20GST, CH20QS, CH20S)
- **Kohler CV Series:** CV20S, CV23S, CV730S
- **Kohler SV Series:** SV715S, SV720, SV720S, SV725S, SV730S, SV810, SV810S, SV820, SV820S, SV830, SV830S

Please verify your engine's specific model number and consult your engine's manual to confirm compatibility before installation.

## SETUP AND INSTALLATION

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Replacing an ignition coil requires basic mechanical knowledge. If you are unsure, it is recommended to seek professional assistance.

### 1. Preparation:

- Ensure the engine is off and cool.
- Disconnect the spark plug wire(s).
- Locate the existing ignition coil, typically mounted near the flywheel.

### 2. Removal of Old Coil:

- Carefully disconnect any electrical wires connected to the coil.
- Unscrew the mounting bolts holding the coil in place.
- Remove the old ignition coil.

### 3. Installation of New Coil:

- Position the new ignition coil in the same location as the old one.
- **Set Air Gap:** This is crucial. Use a feeler gauge (typically 0.010-0.012 inches or as specified by your engine manual) between the coil's laminations and the flywheel magnets. Rotate the flywheel until the magnets are directly under the coil. Loosen the mounting bolts slightly, allow the coil to be pulled by the magnets, then tighten the bolts while maintaining the gap.
- Reconnect all electrical wires securely.
- Reconnect the spark plug wire(s).

### 4. Testing:

- Attempt to start the engine. If it starts and runs smoothly, the installation was successful.



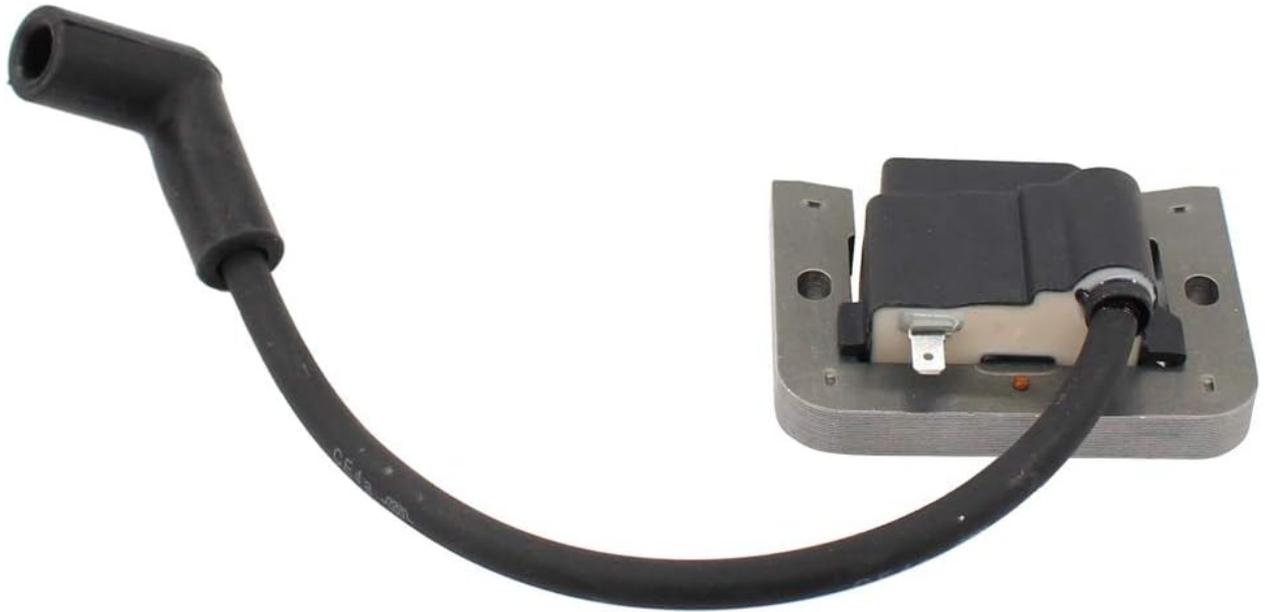
**Figure 1:** Top view of the MOTOKU ignition coil, showing the main body, mounting brackets, and the attached spark plug boot and wire. This view highlights the overall shape and connection points.



**Figure 2:** Side profile of the ignition coil, illustrating the metal mounting brackets with pre-drilled holes for secure attachment to the engine block. The spark plug wire extends from the coil body.



**Figure 3:** Opposite side view of the ignition coil, revealing the electrical terminal where the low-voltage wiring from the engine's kill switch or control system connects. This ensures proper electrical flow.



**Figure 4:** Bottom view of the ignition coil, displaying the laminated core which interacts with the engine's flywheel magnets to generate the high voltage required for the spark plug. The air gap is set against this surface.

## OPERATION

The ignition coil is a critical component of your engine's ignition system. It transforms the low voltage from the battery or charging system into the high voltage (thousands of volts) required to create a spark at the spark plug. This spark ignites the air-fuel mixture in the engine's cylinder, initiating combustion and powering the engine. A properly functioning ignition coil ensures consistent and strong spark delivery for reliable engine starting and smooth operation.

## MAINTENANCE

Ignition coils are generally low-maintenance components. However, regular checks can help prevent issues:

- **Inspect Wires:** Periodically check the spark plug wire and other electrical connections for signs of wear, cracks, or corrosion. Ensure all connections are tight.
- **Clean Coil:** Keep the coil free from dirt, debris, and oil buildup, which can affect its cooling and performance.
- **Check Spark Plug:** A faulty spark plug can put undue stress on the ignition coil. Replace spark plugs according to your engine manufacturer's recommendations.
- **Verify Air Gap:** If engine performance degrades, re-check the air gap between the coil and the flywheel magnets.

## TROUBLESHOOTING

If your engine is experiencing ignition-related problems, the ignition coil might be a contributing factor. Here are common symptoms and potential solutions:

Symptom	Possible Cause	Solution
Engine cranks but won't start	No spark or weak spark	Check spark plug, spark plug wire, and coil connections. Verify coil air gap. Test for spark. Replace coil if no spark is present.
Engine misfires or runs rough	Intermittent spark, faulty coil	Inspect coil for cracks or damage. Ensure connections are secure. Consider replacing the coil.

Symptom	Possible Cause	Solution
Loss of power under load	Weak spark at higher RPMs	Check coil air gap. Ensure proper grounding.
Engine backfires	Incorrect ignition timing (due to coil issue)	Verify coil air gap and ensure it's securely mounted.

If troubleshooting steps do not resolve the issue, it is advisable to consult a qualified engine technician.

## SPECIFICATIONS

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- **Brand:** MOTOKU
- **Replaces OEM Part Numbers:** 24 584 45-S, 24 584 01-S
- **Replaces Craftsman Part Number:** 917250541
- **Dimensions (Approximate):** 12.3 x 8.3 x 5.3 cm (4.84 x 3.27 x 2.09 inches)
- **Weight (Approximate):** 302 grams (0.67 lbs)
- **UPC:** 675663428722
- **First Available Date:** May 4, 2019

## WARRANTY AND SUPPORT

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For information regarding warranty coverage, returns, or technical support, please contact the manufacturer, MOTOKU, or the retailer from whom you purchased this product. Keep your proof of purchase for any warranty claims.

For general inquiries or to find more information about MOTOKU products, you may visit their official website or contact their customer service department.