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› Stens 460-014 Ignition Coil User Manual

Stens 460-014

Stens 460-014 Ignition Coil User Manual

Model: 460-014

INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of the Stens 460-014 Ignition Coil. This ignition coil is designed as a compatible replacement for various Briggs & Stratton models, including 298502, 395488, and 697036. It is a critical component in the ignition system of small engines, primarily found in lawn mowers, ensuring proper spark delivery for engine combustion.



Image: The Stens 460-014 Ignition Coil, showing its primary and secondary windings, mounting brackets, and electrical connections. This component is crucial for generating the high voltage required for spark plugs.

SETUP AND INSTALLATION

Proper installation is crucial for the correct function and longevity of the ignition coil. Always ensure the engine is cool and the spark plug wire is disconnected before beginning any work.

1. **Safety First:** Disconnect the spark plug wire and ensure the engine is off and cool. For lawn mowers, remove the key or disconnect the battery if applicable.
2. **Locate Old Coil:** Identify the existing ignition coil, typically mounted near the flywheel.
3. **Remove Old Coil:** Carefully disconnect the spark plug boot from the spark plug. Disconnect any low-tension wires leading to the coil. Unbolt the old ignition coil from its mounting points. Note the orientation for reinstallation.
4. **Install New Coil:** Position the new Stens 460-014 ignition coil in the same orientation as the old one. Secure it with the mounting bolts. Do not overtighten.

5. **Set Air Gap:** This is a critical step. Insert a business card or a non-magnetic feeler gauge (typically 0.010-0.014 inches or 0.25-0.35 mm) between the coil's laminations and the flywheel magnets. Loosen the coil mounting bolts slightly, allowing the coil to be drawn to the flywheel by magnetic force. Tighten the mounting bolts while holding the coil against the flywheel with the gauge in place. Remove the gauge.
6. **Connect Wires:** Reconnect the low-tension wires to the coil. Ensure connections are secure.
7. **Connect Spark Plug Boot:** Firmly attach the spark plug boot to the spark plug.

Consult your engine's specific service manual for detailed instructions and torque specifications, as procedures may vary slightly by engine model.

OPERATING PRINCIPLES

The Stens 460-014 Ignition Coil functions by transforming low-voltage electricity from the engine's charging system into the high voltage required to create a spark at the spark plug. When the flywheel magnets pass the coil, they induce a current in the primary winding. This current is then rapidly interrupted, causing a high voltage to be induced in the secondary winding, which is then sent to the spark plug. This spark ignites the air-fuel mixture in the engine's cylinder, initiating combustion and powering the engine.

Once correctly installed, the ignition coil operates automatically as part of the engine's ignition system. No user intervention is required during normal engine operation.

MAINTENANCE

Ignition coils are generally low-maintenance components. However, periodic inspection can help ensure continued reliable performance.

- **Visual Inspection:** Periodically inspect the ignition coil for any signs of physical damage, cracks, or corrosion on the terminals. Check the spark plug wire and boot for wear or damage.
- **Cleanliness:** Keep the area around the ignition coil clean and free of debris, oil, or excessive dirt, which can interfere with heat dissipation or electrical connections.
- **Connections:** Ensure all electrical connections to the coil are clean and secure. Loose or corroded connections can lead to intermittent spark or no spark.
- **Spark Plug Condition:** A faulty or worn spark plug can put undue stress on the ignition coil. Regularly inspect and replace spark plugs as recommended by your engine manufacturer. The Stens 460-014 is designed for use with 130-106 and 130-421 spark plugs.

TROUBLESHOOTING

If your engine experiences ignition problems, the ignition coil may be a contributing factor. Here are common symptoms and potential solutions:

Symptom	Possible Cause	Solution
Engine cranks but won't start (no spark)	Faulty ignition coil, incorrect air gap, damaged spark plug wire, faulty kill switch.	Check spark plug for spark. Verify air gap setting. Inspect spark plug wire and connections. Test kill switch. Replace coil if necessary.
Engine misfires or runs rough	Weak spark from coil, fouled spark plug, incorrect air gap.	Inspect and clean/replace spark plug. Re-check air gap. Test coil output.

Symptom	Possible Cause	Solution
Engine starts but dies quickly	Intermittent coil failure, fuel delivery issues.	Confirm consistent spark. Check fuel system.

If troubleshooting steps do not resolve the issue, it is recommended to consult a qualified small engine mechanic.

SPECIFICATIONS

Attribute	Detail
Brand	Stens
Model Number	460-014
Compatible OEM Part Numbers	Briggs & Stratton: 298502, 395488, 697036, 496914, SB-1780
Dimensions (L x W x H)	3.4 x 2.8 x 2.8 inches
Item Weight	1.92 ounces (0.12 Pounds)
Installation Type	Plug In
Vehicle Service Type	Lawn Mower
UPC	023899054312
Country of Origin	Taiwan
First Available Date	June 1, 2004

WARRANTY AND SUPPORT

For information regarding warranty coverage for the Stens 460-014 Ignition Coil, please refer to the warranty documentation provided with your purchase or visit the official Stens website. Specific warranty terms and conditions may vary.

For technical support or further assistance, please contact Stens customer service through their official channels. Contact information can typically be found on the product packaging or the Stens website.

[Visit the Stens Store on Amazon](#)

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