

KINGSTORE IG-405859-8

KINGSTORE Replacement Ignition Coil User Manual

Model: IG-405859-8

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your KINGSTORE Replacement Ignition Coil, Model IG-405859-8. This ignition coil is designed as an aftermarket replacement for various Briggs & Stratton engines, ensuring reliable spark delivery for optimal engine performance. Please read this manual thoroughly before installation to ensure proper function and safety.

2. SAFETY INFORMATION

Always prioritize safety when working with engine components. Failure to follow these safety guidelines may result in personal 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.
- **Wear Protective Gear:** Always wear safety glasses and gloves to protect against debris and sharp edges.
- **Engine Cool Down:** Allow the engine to cool completely before handling any components to avoid burns.
- **Proper Tools:** Use appropriate tools for the task to prevent damage to fasteners and components.
- **Electrical Safety:** Be aware of electrical connections. Do not touch live wires.
- **Professional Assistance:** If you are unsure about any step, consult a qualified technician.

3. PACKAGE CONTENTS

Verify that all items are present upon opening the package:

- 1x KINGSTORE Replacement Ignition Coil (Model: IG-405859-8)

4. SPECIFICATIONS

Brand	KINGSTORE
Model Number	IG-405859-8

OEM Part Numbers (Replaces)	Briggs & Stratton: 492341, 490586, 491312, 495859, 715231, 591459, 690248, 795315, 799650, 398811, 395492, 398265. John Deere: LG492341, LG495859.
Connector Type	Male
Installation Type	Bolt-On
Item Weight	Approximately 11.04 ounces (313 grams)
UPC	802405226418

5. COMPATIBILITY

This KINGSTORE ignition coil is compatible with a wide range of Briggs & Stratton engines. Please verify your engine's model number against the list below to ensure proper fitment.

Compatible Briggs & Stratton Engine Models:

- **Specific Models:** 161430, 161432, 161436, 161437, 111902, 111982, 31G777, 303447, 286702, 286707, 28B702, 28B707, 28C707, 28D707, 28R707, 303777, 31P777.
- **Engine Series:** 28E000, 28N000, 28P000, 28Q000, 287000, 280700 through 289700, 290400 through 351700.
- **HP Ranges:** L Head 10HP-13HP Engines; 9HP, 12.5HP and 14HP Vanguard Engines; V-TWIN 9HP, 12HP, 14.5HP Engines; 12.2HP Head Engines.
- **Other Series:** 160000 series, 386000 series (single and V-Twin).
- **Specific Generator Models:** 19A400, 19B400, 19C400, 1149-0 Portable Generator, 311707, 20A113, 20A114, 20A412, 20A413, 20A414, 19H132, 19H232, 19H236, 19H237, 19H252, 19L132, 19L137, 19L232.
- **Note:** This coil will NOT fit 202432 1350 Intek models.

This coil also works with John Deere 1200 Hydro Rake model, replacing Part # LG492341, LG495859.

6. INSTALLATION (SETUP)

The following steps provide a general guide for replacing an ignition coil. Specific procedures may vary slightly depending on your engine model. Always refer to your engine's service manual for detailed instructions.

Required Tools:

- Wrench/Socket Set
- Screwdriver
- Feeler Gauge (for setting air gap)
- Wire Brush (optional, for cleaning)

Installation Steps:

1. **Prepare the Engine:** Ensure the engine is off and cool. Disconnect the spark plug wire from the spark plug. For added safety, disconnect the battery if applicable.
2. **Locate the Old Ignition Coil:** The ignition coil is typically mounted near the flywheel. You may need to remove engine shrouds or covers to access it.
3. **Disconnect Wires:** Carefully disconnect any low-tension wires (kill switch wire) attached to the old coil. Note their routing for reinstallation.
4. **Remove Old Coil:** Unscrew the mounting bolts holding the old ignition coil in place. Remove the coil and the spark

plug wire.

5. **Install New Coil:** Position the new KINGSTORE ignition coil in the same location as the old one. Loosely attach the mounting bolts.
6. **Set Air Gap:** This is a critical step. Rotate the flywheel until the magnet is directly under the coil's legs. Insert a non-magnetic feeler gauge (typically 0.008 - 0.012 inches or 0.20 - 0.30 mm, refer to your engine manual for exact specification) between the coil's legs and the flywheel magnet. Push the coil firmly against the feeler gauge, then tighten the mounting bolts securely. Remove the feeler gauge.
7. **Reconnect Wires:** Reconnect the low-tension wires to the new coil. Ensure connections are secure.
8. **Connect Spark Plug Wire:** Attach the spark plug wire from the new coil to the spark plug.
9. **Reassemble:** Reinstall any shrouds or covers that were removed.
10. **Test:** Attempt to start the engine. If it does not start or runs poorly, proceed to the Troubleshooting section.

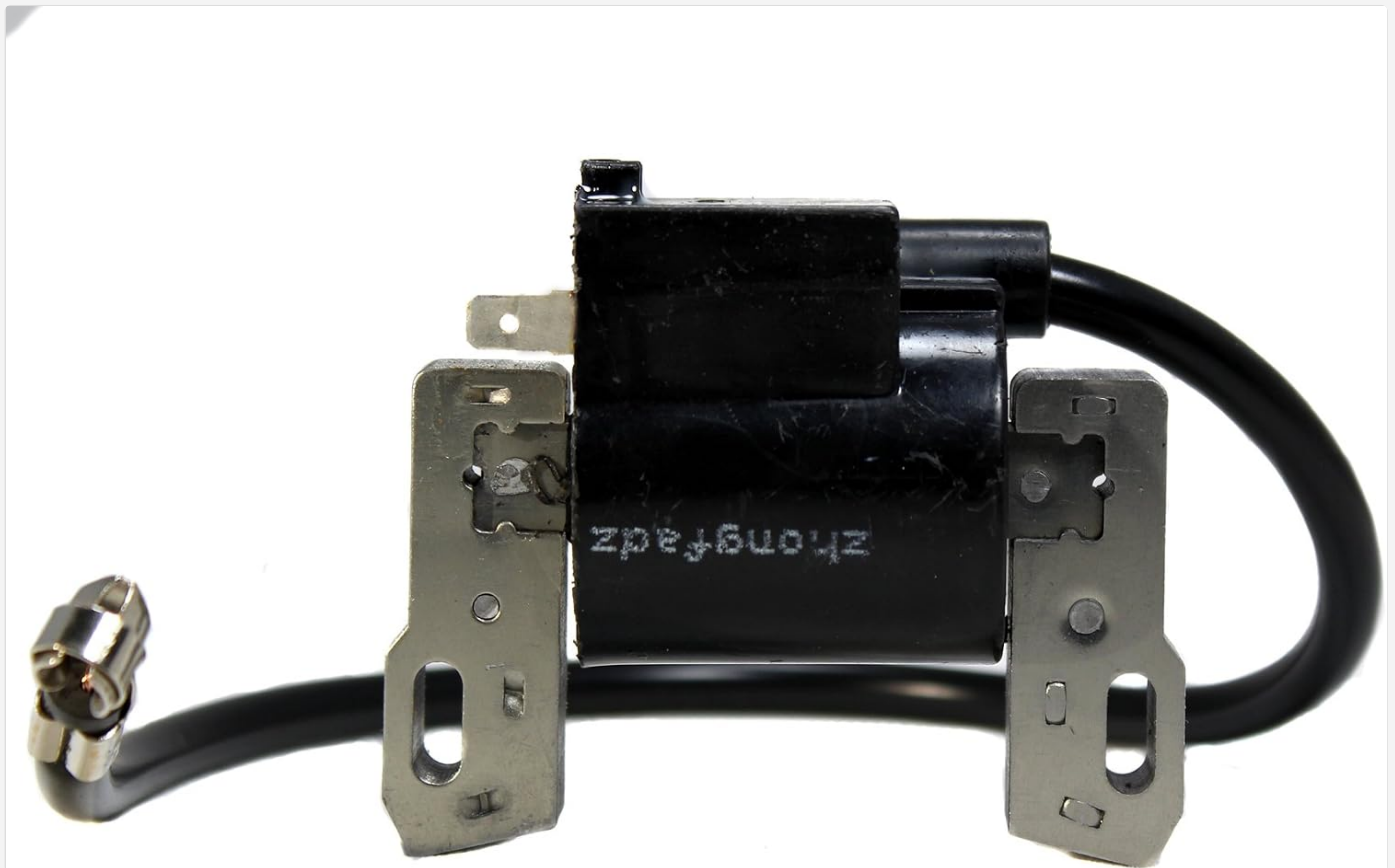


Figure 1: Front view of the KINGSTORE replacement ignition coil, showing the main body and spark plug wire connection.



Figure 2: Side view of the KINGSTORE ignition coil, highlighting the mounting brackets and the male connector type.

7. OPERATION

The ignition coil is a passive component in the engine's ignition system. Its function is to transform the low voltage from the engine's charging system into the high voltage required to create a spark at the spark plug. Once correctly installed, the coil operates automatically as part of the engine's normal function, requiring no direct user interaction during engine operation.

8. MAINTENANCE

The KINGSTORE Replacement Ignition Coil is designed for durability and requires minimal maintenance. However, periodic inspection can help ensure its longevity and reliable performance.

- **Visual Inspection:** Periodically inspect the coil for any signs of physical damage, cracks, or corrosion.
- **Wire Connections:** Ensure all electrical connections to the coil and the spark plug are clean and secure. Loose or corroded connections can lead to intermittent spark.
- **Cleanliness:** Keep the area around the coil free from dirt, debris, and oil buildup, which can affect heat dissipation and electrical integrity.

9. TROUBLESHOOTING

If your engine experiences ignition problems after installing the new coil, consider the following troubleshooting steps:

Problem	Possible Cause	Solution
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No Spark at Spark Plug	◦ Incorrect air gap between coil and flywheel. ◦ Loose or corroded electrical connections. ◦ Faulty kill switch wire connection. ◦ Defective spark plug.	◦ Re-check and adjust the air gap (refer to Section 6). ◦ Inspect and secure all wire connections. ◦ Ensure kill switch wire is properly connected or temporarily disconnect it to test. ◦ Test or replace the spark plug.
Weak or Intermittent Spark	◦ Incorrect air gap. ◦ Poor ground connection. ◦ Contaminated coil or flywheel magnet.	◦ Verify and adjust air gap. ◦ Ensure coil mounting bolts provide a good ground. ◦ Clean the coil legs and flywheel magnet.
Engine Misfires or Runs Roughly	◦ Incorrect air gap. ◦ Other engine issues (fuel, compression).	◦ Check and adjust air gap. ◦ Consult your engine's service manual for further diagnostics on fuel system or compression.

If problems persist after following these steps, it is recommended to seek assistance from a qualified engine technician.

10. WARRANTY AND SUPPORT

For information regarding the warranty period and terms for your KINGSTORE Replacement Ignition Coil, please refer to the product packaging or contact your retailer directly. For technical support or further inquiries, please reach out to the KINGSTORE customer service department through the contact information provided at the point of purchase or on the official KINGSTORE website.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question