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Briggs & Stratton 802574

Briggs & Stratton 802574 Ignition Coil User Manual

For 2-cycle Quantum and Europa Engines

Introduction | Product Overview | Compatibility | Installation | Operation | Maintenance | Troubleshooting | Specifications | Warranty & Support

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Briggs & Stratton 802574 Ignition Coil. Please read these instructions carefully before attempting any installation or service to ensure safe and effective use. This ignition coil is a critical component for starting and running compatible engines.

2. Product Overview

The Briggs & Stratton 802574 Ignition Coil is designed to generate the high voltage required to create a spark at the spark plug, initiating combustion in the engine. This component is crucial for engine starting and consistent operation.



Figure 1: Briggs & Stratton 802574 Ignition Coil. This image displays the ignition coil unit, including the main body and the attached spark plug wire.

Key features of this ignition coil include its robust construction and compatibility with specific Briggs & Stratton engine models, ensuring reliable performance.

3. Engine Compatibility

This ignition coil (part number 802574) is compatible with the following Briggs & Stratton engine types:

- 2-cycle Quantum engines (12 CID)
- Europa engines (9 CID)
- 5 HP Vanguard Vertical engines (10 CID)
- 6 HP Intek Vertical engines (12 CID)
- 5.5-6.5 HP Intek engines (11 and 12 CID)
- 825-850 Series Engines

Always verify your engine's model and series number against this list before installation to ensure proper fit and function. Refer to your engine's specific manual for detailed information.

4. Installation Instructions

Safety First: Before beginning any installation, ensure the engine is turned off, cool, and the spark plug wire is disconnected to prevent accidental starting. Wear appropriate safety gear, including gloves and eye protection.

4.1 Tools Required

- Wrench set (for mounting bolts)
- Screwdriver (if applicable for covers)
- Feeler gauge or business card (for setting air gap)
- Spark plug wrench (for removing/installing spark plug)

4.2 Removal of Old Ignition Coil

1. Locate the existing ignition coil on your engine. It is typically mounted near the flywheel.
2. Disconnect the spark plug wire from the spark plug.
3. Disconnect any kill switch wires or other electrical connections leading to the coil.
4. Unscrew the mounting bolts that secure the old ignition coil to the engine block.
5. Carefully remove the old ignition coil. Note its orientation for reference during new coil installation.

4.3 Installing the New Ignition Coil

1. Position the new Briggs & Stratton 802574 Ignition Coil in the same location and orientation as the old coil.
2. Loosely attach the mounting bolts. Do not tighten them fully yet.
3. **Set the Air Gap:** This is a critical step. Insert a feeler gauge (typically 0.006-0.010 inches or 0.15-0.25 mm) or a standard business card between the ignition coil's laminations (the metal core) and the flywheel magnets.
4. Rotate the flywheel until the magnets are directly under the coil's laminations, holding the feeler gauge or business card firmly in place.
5. While holding the feeler gauge/business card, push the ignition coil firmly against the flywheel magnets.
6. Tighten the mounting bolts securely.
7. Remove the feeler gauge or business card.
8. Reconnect any kill switch wires or other electrical connections.
9. Connect the spark plug wire to the spark plug. Ensure a snug fit.

Note: Some coils may come with an angled or straight spark plug connector. Use the one appropriate for your engine setup. The product may include an extra crimp-on lead for the spark plug wire if shortening is needed.

5. Operation

Once the ignition coil is correctly installed and the engine components are reassembled, the engine should be ready for operation. The ignition coil's function is automatic upon engine cranking.

- **Starting the Engine:** Follow your engine manufacturer's specific starting procedures. This typically involves ensuring fuel supply, setting the choke (if applicable), and pulling the starter cord or engaging the electric starter.
- **Spark Generation:** As the flywheel rotates, the magnets pass by the ignition coil, inducing a current. This current is then transformed into a high-voltage pulse, which is sent through the spark plug wire to the spark plug, creating a spark.
- **Engine Performance:** A properly functioning ignition coil ensures a strong, consistent spark, leading to efficient combustion, easier starting, and smooth engine operation.

6. Maintenance

The Briggs & Stratton 802574 Ignition Coil is generally a low-maintenance component. However, periodic checks can help ensure its longevity and reliable performance.

- **Spark Plug Wire Inspection:** Regularly inspect the spark plug wire for cracks, fraying, or damage. A damaged wire can lead to spark loss.
- **Connections:** Ensure all electrical connections to the ignition coil, including the spark plug boot and kill switch wire, are clean and secure. Loose connections can interrupt the spark.
- **Cleanliness:** Keep the area around the ignition coil free from dirt, debris, and oil buildup. Excessive grime can interfere with heat dissipation and electrical conductivity.
- **Air Gap Check:** If experiencing starting issues, re-check the air gap between the coil and flywheel magnets as described in the installation section.

For detailed engine maintenance schedules, refer to your specific engine's owner's manual.

7. Troubleshooting

If your engine is experiencing issues related to ignition, the following troubleshooting steps may help identify problems with the ignition coil or related components.

Symptom	Possible Cause	Solution
Engine does not start (no spark)	◦ Incorrect air gap ◦ Faulty spark plug ◦ Damaged spark plug wire ◦ Loose or corroded electrical connections ◦ Faulty ignition coil ◦ Kill switch engaged or faulty	◦ Check and adjust air gap (Section 4.3) ◦ Inspect and replace spark plug ◦ Inspect and replace spark plug wire ◦ Clean and secure all connections ◦ Test ignition coil for spark (requires a spark tester) ◦ Ensure kill switch is disengaged; test switch for continuity
Engine misfires or runs rough	◦ Weak spark from coil ◦ Fouled or incorrect spark plug ◦ Intermittent electrical connection	◦ Check air gap ◦ Inspect and replace spark plug ◦ Check and secure all connections ◦ Consider replacing ignition coil if other causes are ruled out
Engine dies unexpectedly	◦ Overheating ignition coil ◦ Intermittent fault in coil or wiring	◦ Ensure proper ventilation around coil ◦ Inspect wiring for shorts or damage ◦ Test coil for consistent spark when hot

If troubleshooting steps do not resolve the issue, it is recommended to consult a qualified service technician or refer to the official Briggs & Stratton service manual for your specific engine model.

8. Specifications

Below are the technical specifications for the Briggs & Stratton 802574 Ignition Coil:

Feature	Detail
Model Number	802574
Brand	Briggs & Stratton
Item Weight	11.2 ounces (approx. 317.5 grams)
Product Dimensions (L x W x H)	1 x 7 x 8 inches (approx. 2.54 x 17.78 x 20.32 cm)
Installation Type	Screw-In
Connector Gender	Male
Vehicle Service Type	Lawn Mower
Automotive Fit Type	Vehicle Specific Fit
UPC	024847857665

9. Warranty and Support

For specific warranty information regarding your Briggs & Stratton 802574 Ignition Coil, please refer to the documentation included with your purchase or visit the official Briggs & Stratton website. Warranty terms and conditions may vary.

For technical support, replacement parts, or service inquiries, please contact Briggs & Stratton customer service or an authorized service dealer. You can find contact information and dealer locators on the official Briggs & Stratton website: www.briggsandstratton.com.

When contacting support, please have your product model number (802574) and engine model information readily available.

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