

briggs and stratton ignition coil wiring diagram

Briggs and Stratton ignition coil wiring diagram is a crucial component for understanding how to troubleshoot and repair small engines, particularly lawnmowers, generators, and other outdoor equipment powered by Briggs and Stratton engines. These diagrams are essential for anyone working on engine maintenance or repair, as they provide a visual representation of how the ignition coil connects to other components in the ignition system. This article will explore the significance of the ignition coil, the wiring diagram itself, and steps for troubleshooting ignition coil issues.

Understanding the Ignition Coil

The ignition coil is a vital part of the ignition system in small engines. Its primary function is to convert the battery's low voltage into the high voltage necessary to create a spark at the spark plug. This spark ignites the air-fuel mixture in the combustion chamber, enabling the engine to run smoothly.

Components of the Ignition System

To fully appreciate the role of the ignition coil, it's important to understand the other components that work alongside it:

1. **Spark Plug:** This component receives the electric current from the ignition coil and creates the spark necessary for combustion.
2. **Flywheel Magnet:** The flywheel houses a magnet that generates a magnetic field, which is essential for triggering the ignition coil's operation.
3. **Ignition Module:** The ignition module controls the timing and duration of the spark, regulating how and when the ignition coil fires.
4. **Wiring Harness:** This includes all the wires that connect the various components of the ignition system, ensuring proper electrical flow.

Importance of the Wiring Diagram

The Briggs and Stratton ignition coil wiring diagram serves several purposes:

- **Troubleshooting:** When a small engine does not start or runs poorly, the wiring diagram can help identify potential issues within the ignition system.
- **Repair:** Knowing how to correctly connect the ignition coil to other components is crucial for effective repairs. A wiring diagram provides a clear guide to avoid mistakes.
- **Modification:** For those who wish to modify or upgrade their engines, a wiring diagram is essential for understanding how changes might affect the ignition system.

Interpreting the Wiring Diagram

A typical Briggs and Stratton ignition coil wiring diagram includes several key elements:

1. **Symbols and Colors**

- Lines: Represent electrical connections.
- Dots: Indicate connection points.
- Colors: Often, wires are color-coded to differentiate between power, ground, and signal lines. For example:
 - Red: Power supply
 - Black: Ground
 - Yellow/Green: Signal

2. Component Labels

Each component in the wiring diagram is labeled for easy identification. Common labels include:

- IC for ignition coil
- SP for spark plug
- FM for flywheel magnet

3. Connection Points

The diagram shows where each wire connects to the components. This is crucial for ensuring that the system is wired correctly.

Step-by-Step Wiring Guide

If you need to connect or replace the ignition coil in a Briggs and Stratton engine, follow these steps:

1. Gather Tools and Materials:

- New ignition coil
- Wiring diagram (specific to your engine model)
- Basic hand tools (screwdrivers, wrenches, etc.)
- Multimeter (for testing)

2. Safety First:

- Ensure the engine is turned off and cool.
- Disconnect the battery to prevent electrical shock.

3. Remove the Old Ignition Coil:

- Locate the ignition coil, which is usually mounted near the flywheel.
- Disconnect the wires attached to the old ignition coil.
- Unscrew and remove the ignition coil from its mounting.

4. Install the New Ignition Coil:

- Position the new ignition coil in place.
- Reattach the mounting screws but do not tighten them fully yet.
- Adjust the coil to the proper air gap (usually specified in the engine manual) between the coil and the flywheel, then secure the screws.

5. Connect the Wires:

- Using the wiring diagram, connect the wires to the new ignition coil. Ensure that each wire is firmly connected and in the correct position.
- Check for color coding and labeling to avoid mistakes.

6. Test the Connections:

- Once all connections are made, double-check to ensure everything aligns with the wiring diagram.
- Use a multimeter to test for continuity and ensure that the coil is functioning properly.

7. Reassemble and Test the Engine:

- Reassemble any components that were removed to access the ignition coil.
- Reconnect the battery and attempt to start the engine.

Troubleshooting Ignition Coil Issues

If your engine still does not start after replacing the ignition coil, consider the following troubleshooting tips:

Common Symptoms of a Faulty Ignition Coil

- Engine misfires or runs rough
- Difficulty starting the engine
- Engine stalls at idle
- No spark at the spark plug

Troubleshooting Steps

1. Check the Spark Plug: Remove the spark plug and inspect it for damage. Replace it if necessary.
2. Test the Coil: Use a multimeter to measure the resistance of the ignition coil. Compare the readings to the specifications in the engine manual.
3. Inspect Wiring: Look for frayed wires, loose connections, or corrosion that could affect the electrical flow.
4. Check Other Components: If the ignition coil is functioning properly, inspect other components, such as the ignition module and flywheel magnet.
5. Consult the Manual: Refer to the engine manual for specific troubleshooting guides and requirements.

Conclusion

The Briggs and Stratton ignition coil wiring diagram is an invaluable resource for anyone working on small engines. Understanding the function of the ignition coil and how to connect it properly can save time and prevent costly mistakes. Whether you are troubleshooting a starting issue, replacing a faulty ignition coil, or simply performing routine maintenance, having access to a clear wiring diagram is essential for success. By following the steps outlined in this article, you can ensure that your Briggs and Stratton engine runs smoothly and efficiently.

Frequently Asked Questions

What is the purpose of the ignition coil in a Briggs and Stratton engine?

The ignition coil generates the high voltage needed to create a spark at the spark plug, igniting the fuel-air mixture in the engine's cylinder.

Where can I find the wiring diagram for my Briggs and Stratton ignition coil?

You can typically find the wiring diagram in the engine's service manual, on the Briggs and Stratton website, or through various online repair forums and resources.

How do I troubleshoot an ignition coil issue in my Briggs and Stratton engine?

To troubleshoot, check for visible damage to the ignition coil, test for continuity with a multimeter, and ensure all connections are secure and free of corrosion.

Can I replace the ignition coil without a wiring diagram?

While it's possible to replace the ignition coil without a diagram, having one will help ensure proper connections, reducing the risk of miswiring and potential engine damage.

What are common signs that the ignition coil is faulty in a Briggs and Stratton engine?

Common signs include difficulty starting the engine, misfiring, stalling, or a noticeable decrease in engine power and efficiency.

Is there a specific way to wire the ignition coil on different models of Briggs and Stratton engines?

Yes, wiring can vary by model. Always refer to the specific wiring diagram for your engine model to ensure proper installation and functionality.

[Briggs And Stratton Ignition Coil Wiring Diagram](#)

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