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Briggs & Stratton 394970

Briggs & Stratton 394970 Ignition Kit Instruction Manual

Model: 394970

Product Overview

The Briggs & Stratton 394970 Ignition Kit is designed to retrofit most 2-legged ignition armatures that utilize breaker points. This kit provides a modern electronic ignition solution, eliminating the need for traditional points and condenser systems, which can improve starting reliability and engine performance.



This image displays the components of the Briggs & Stratton 394970 Ignition Kit. On the left is a black insulated wire with a brass ring terminal at one end and a bare copper wire at the other, likely for grounding. On the right is the electronic ignition module, a clear plastic housing containing a red coiled wire (coil) and other electronic components, with a small wire loop and another brass ring terminal extending from it. A small, rectangular metallic piece is also visible below the module.

Safety Information

Always disconnect the spark plug wire before performing any maintenance or installation on the engine to prevent accidental starting. Wear appropriate personal protective equipment, such as safety glasses and gloves. Refer to your engine's original service manual for specific safety precautions related to your equipment.

Kit Contents

Verify that all components are present before beginning installation:

- Electronic Ignition Module
- Ground Wire with Ring Terminal
- Mounting Hardware (if applicable)

Setup and Installation

This kit is designed to replace the existing points and condenser system in most 2-legged ignition armatures. The installation process typically involves removing the old components and installing the new electronic module.

1. **Preparation:** Disconnect the spark plug wire. Remove the engine shroud and flywheel to access the ignition system.
2. **Remove Old Components:** Carefully remove the existing points, condenser, and any associated wiring from the ignition armature.
3. **Clean Mounting Area:** Ensure the mounting surface for the new module is clean and free of oil, grease, or debris.
4. **Install Electronic Module:** Position the electronic ignition module on the armature where the points and condenser were located. Secure it using the provided hardware. Ensure proper alignment and clearance.
5. **Connect Wiring:** Connect the ground wire from the module to a clean, unpainted metal surface on the engine block or armature, typically using a bolt or screw. The other wire from the module connects to the spark plug coil primary terminal.
6. **Set Air Gap:** Use a non-magnetic feeler gauge (typically 0.006 to 0.010 inches, refer to engine manual for exact specification) to set the air gap between the ignition module and the flywheel magnets. Rotate the flywheel until the magnet aligns with the module, then loosen the module mounting screws slightly. Insert the feeler gauge, push the module against the flywheel magnet, and tighten the screws. Remove the feeler gauge.
7. **Reassembly:** Reinstall the flywheel and engine shroud. Reconnect the spark plug wire.

Operating Instructions

After successful installation, the engine should start and run as normal. The electronic ignition system requires no further adjustment or maintenance once installed correctly.

- Ensure all connections are secure before attempting to start the engine.
- Follow your engine manufacturer's starting procedures.
- If the engine does not start, refer to the Troubleshooting section.

Maintenance

The Briggs & Stratton 394970 Ignition Kit is a solid-state electronic component and generally requires no routine maintenance. Unlike traditional points and condenser systems, there are no moving parts to wear out or contacts to clean.

- Periodically inspect the wiring for any signs of damage or corrosion.
- Ensure the module remains securely mounted.
- Keep the area around the ignition module clean and free of debris.

Troubleshooting

Problem	Possible Cause	Solution
No Spark	Incorrect wiring connection	Verify all wires are securely connected according to instructions.
No Spark	Improper air gap setting	Re-check and adjust the air gap between the module and flywheel magnets.
No Spark	Faulty spark plug	Inspect and replace the spark plug if necessary.
Engine runs poorly or misfires	Loose connections or damaged wiring	Inspect all wiring and connections for integrity.
Engine runs poorly or misfires	Incorrect engine timing (unlikely with electronic module)	Ensure the module is correctly positioned and the air gap is set. If issues persist, consult a qualified technician.

Specifications

- **Model Number:** 394970
- **Compatibility:** Designed for most 2-legged ignition armatures with breaker points.
- **Type:** Electronic Ignition Module
- **Dimensions:** Approximately 1 x 7 x 8 inches (packaging dimensions, actual module is smaller)
- **Weight:** Approximately 1.44 ounces
- **Manufacturer:** Magneto Power

Warranty Information

Briggs & Stratton products are typically covered by a limited warranty against defects in material and workmanship. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official Briggs & Stratton website. Keep your proof of purchase for warranty claims.

Customer Support

For technical assistance, replacement parts, or further inquiries, please contact Briggs & Stratton customer support. You can find contact information on the official Briggs & Stratton website or through your authorized dealer.
Online Resources: www.briggsandstratton.com

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