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Stens 440-456

Stens Ignition Coil User Manual

MODEL: 440-456

Brand: Stens

Introduction

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your Stens Ignition Coil, Model 440-456. This ignition coil is designed as a direct replacement for specific Briggs & Stratton engines, ensuring reliable performance for your outdoor power equipment.

Please read this manual thoroughly before attempting any installation or maintenance to ensure proper function and safety.

Product Overview

The Stens Ignition Coil 440-456 is a critical component in the ignition system of compatible engines. It is responsible for transforming the low voltage from the battery or magneto into the high voltage required to create a spark at the spark plug, initiating combustion.

This coil replaces OEM numbers Briggs & Stratton: 796499, 595554.

It is compatible with a wide range of Briggs & Stratton engine models, including but not limited to:

- 101602
- 111P02-111P07
- 112P02-112P05
- 114P02-114P07
- 11P902-11P907
- 121Q02-121Q72
- 121R02-121R05
- 121S02-121S77

- 122Q02-122Q77
- 122R02-122R07
- 122S02
- 124Q02-124Q07
- 124S02-124S77
- 12Q902-12Q972
- 12R902
- 12R907
- 12S902-12S977
- 14B907
- 14B937



Image: The Stens Ignition Coil 440-456, a black, rectangular component with metal mounting brackets and a curved black wire ending in a metal connector. This is the primary component for generating spark in compatible engines.

Installation (Setup)

Replacing an ignition coil requires careful attention to detail and safety. If you are unsure about any step, it is recommended to seek professional assistance.

Safety Precautions:

- Always disconnect the spark plug wire and, if applicable, the battery before working on the engine.
- Ensure the engine is cool before beginning work.
- Wear appropriate personal protective equipment, such as gloves and eye protection.
- Work in a well-ventilated area.

Installation Steps:

1. **Locate the Old Coil:** Identify the existing ignition coil on your engine. It is typically mounted near the flywheel.
2. **Disconnect Wires:** Carefully disconnect the spark plug wire and any other electrical connections leading to the old coil. Note their positions for reinstallation.
3. **Remove Mounting Bolts:** Unscrew the bolts or fasteners securing the old coil to the engine block or mounting plate.
4. **Remove Old Coil:** Carefully remove the old ignition coil.
5. **Install New Coil:** Position the new Stens 440-456 ignition coil in place. Ensure the mounting holes align.
6. **Set Air Gap:** This is a critical step. Before tightening the mounting bolts, insert a feeler gauge (typically 0.008-0.012 inches or as specified by your engine manufacturer) between the coil's laminations (the metal core) and the flywheel magnets. Rotate the flywheel until the magnets are directly under the coil.
7. **Tighten Bolts:** While holding the feeler gauge in place, tighten the mounting bolts securely. Once tightened, remove the feeler gauge.
8. **Reconnect Wires:** Reconnect the spark plug wire and any other electrical connections to the new coil. Ensure connections are secure.
9. **Test:** Reconnect the battery (if disconnected) and attempt to start the engine to verify proper operation.

Operation

Once correctly installed, the Stens Ignition Coil operates automatically as part of your engine's ignition system. When the engine's flywheel rotates, the magnets on the flywheel pass by the coil, inducing a low voltage current. The coil then steps up this voltage to thousands of volts, which is sent through the spark plug wire to the spark plug. This high voltage creates a spark across the spark plug's electrodes, igniting the fuel-air mixture in the engine's cylinder.

Proper operation of the ignition coil is essential for consistent engine starting and smooth running.

Maintenance

While ignition coils are generally low-maintenance components, periodic inspection can help ensure their longevity and reliable performance:

- **Inspect Connections:** Periodically check the spark plug wire and other electrical connections to the coil for corrosion, looseness, or damage. Ensure they are clean and securely attached.
- **Check for Physical Damage:** Visually inspect the coil for any cracks, burns, or signs of overheating.
- **Keep Clean:** Ensure the area around the coil is free from excessive dirt, debris, or oil buildup, which can affect heat dissipation.
- **Spark Plug Condition:** A worn or fouled spark plug can put extra strain on the ignition coil. Regularly inspect and replace spark plugs as recommended by your engine manufacturer.

Troubleshooting

If your engine is experiencing ignition-related issues, 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, loose or corroded connections, faulty spark plug.	Check spark plug for spark. Inspect coil connections. Verify air gap. Test coil resistance (if equipped with multimeter). Replace coil if faulty.
Engine misfires or runs rough	Intermittent coil failure, fouled spark plug, incorrect air gap.	Inspect spark plug. Check coil for signs of arcing or damage. Re-check air gap.
Engine loses power under load	Weak spark from failing coil.	Consider replacing the ignition coil if other causes are ruled out.
Engine backfires	Incorrect ignition timing (can be related to coil issues or flywheel key).	Ensure coil is properly mounted and air gap is correct. Check flywheel key.

Always consult your engine's specific service manual for detailed troubleshooting procedures and specifications.

Specifications

Attribute	Value
Brand	Stens
Model Number	440-456
Replaces OEM Part Numbers	Briggs & Stratton: 796499, 595554
Product Dimensions (L x W x H)	3.2 x 3.2 x 2.5 inches
Item Weight	8 ounces (0.5 Pounds)
Vehicle Service Type	Lawn Mower
Connector Gender	Male-to-Female
Installation Type	Bolt-On
Country of Origin	China
UPC	023899438488

Safety Information

Working with internal combustion engines and electrical components can be hazardous. Always adhere to the following safety guidelines:

- Never work on a hot engine. Allow it to cool completely.
- Disconnect the spark plug wire and battery (if applicable) before performing any service.

- Use appropriate tools for the job.
- Keep hands, hair, and loose clothing away from moving parts.
- Do not operate the engine without all guards and covers in place.
- Store fuel in approved containers and in a well-ventilated area away from ignition sources.
- If you are unsure about any procedure, consult a qualified technician.

Warranty and Support

Specific warranty details for the Stens Ignition Coil 440-456 are not provided within this document. For information regarding warranty coverage, claims, or technical support, please contact Stens directly through their official website or customer service channels.

Always retain your proof of purchase for any warranty inquiries.