

[Manuals.plus](#) /

> [SPI](#) /

> SPI SM-01136 Stator Assembly Instruction Manual

SPI SM-01136

Instruction Manual

Sports Parts Inc Stator Assembly

Model: SM-01136

1. INTRODUCTION

This manual provides essential information for the proper handling, installation, and maintenance of the SPI SM-01136 Stator Assembly. This component is designed as a direct replacement for OEM parts #4060222 and #4010297 in various Polaris snowmobile models. Understanding the function and proper care of this stator is crucial for ensuring the optimal performance and longevity of your vehicle's electrical system.

2. SAFETY INFORMATION

WARNING: Always prioritize safety when working with electrical components and vehicle systems. Failure to follow safety precautions can result in serious injury, electric shock, or damage to the vehicle.

- Always disconnect the vehicle's battery before beginning any electrical work to prevent accidental short circuits or electric shock.
- Wear appropriate personal protective equipment (PPE), including safety glasses and insulated gloves.
- Ensure the work area is well-lit and free from obstructions.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm (Proposition 65 Warning). Handle with care and wash hands thoroughly after handling.
- If you are not experienced with vehicle electrical systems, it is highly recommended to seek assistance from a qualified professional mechanic for installation and troubleshooting.
- Do not modify the stator assembly. Any modifications can compromise its performance and safety.

3. PRODUCT OVERVIEW

The SPI SM-01136 Stator Assembly is a critical component of your vehicle's charging and ignition system. It generates electrical power for the vehicle's various systems and charges the battery.



Figure 3.1: Front view of the SPI SM-01136 Stator Assembly, showing the coiled copper windings and central mounting point.

This Part Fit's the Following Vehicles

Polaris 440 IQ 2005	Polaris 440 XC SP 2000
Polaris 500 Classic 2003	Polaris 440 XCR SP 1999
Polaris 500 XC SP 121" 2001-2007	Polaris 500 XC 2001-2003
Polaris 600 Classic Touring 2001-2004	Polaris 600 XC Deluxe 2000
Polaris 600 Fusion HO 121" 2006	Polaris 800 XC 2004
Polaris 600 IQ Shift 121" 2008-2009	Polaris 500 RMK 2000-2002
Polaris 600 Pro-X 121" 2001-2004	Polaris 500 XC SP M-10 2002-2005
Polaris 600 XC Edge 2003-2005	Polaris 500 XC SP X 2003
Polaris 600 XC SP 121" 2000-2005	Polaris 600 XC SP M-10 2002-2005
Polaris 700 Classic 2002-2004	Polaris 600 XC SP X 2003
Polaris 700 SKS 2002-2003	Polaris 700 XC SP X 2003
Polaris 700 Switchback 136" 2004	Polaris 700 XC SP M 10 2002-2003,2005
Polaris 700 XC SP 121" 2001-2003	Polaris 800 XC SP X 2003
Polaris 800 Classic 2004	Polaris 800 XC SP M 10 2002-2003,2005
Polaris 800 LE 2001	Polaris 600 Classic 121" 2001
Polaris 800 XC SP 2001-2003	Polaris 800 RMK 155" 2000-2005
Polaris 700 Classic Touring 2003-2004	Polaris 800 Switchback 136" 2004-2005
Polaris 800 Classic Touring 2003-2004	Polaris 600 RMK 144" 2001-2008
Polaris 440 Pro-X 2001-2003	Polaris 600 Switchback 136" 2004-2005,2007
Polaris 600 Pro-X2 121" 2004	Polaris 800 SKS 155" 2003
Polaris 700 Pro-X 121" 2003-2004	Polaris 600 RMK 155" 2008
Polaris 700 Pro-X2 121" 2004	Polaris 700 RMK 151" 2002-2005
Polaris 800 Pro-X 2003-2004	Polaris 700 RMK 144" 2001-2005
Polaris 800 Pro-X2 2004	Polaris 700 RMK 136" 2001-2002
Polaris 440 Pro-XR 2004	Polaris 700 XC 2003-2004
Polaris 800 Pro-XR 2004	

Figure 3.2: Angled view of the stator assembly, highlighting the integrated wiring harness and connectors.



Figure 3.3: Partial list of compatible Polaris vehicle models for the SM-01136 Stator Assembly. Refer to the product description for a complete list.

This stator is compatible with a wide range of Polaris snowmobile models, including various 440, 500, 600, 700, and 800 series from model years 1999 to 2009. Always verify compatibility with your specific vehicle's make, model, and year before installation.

4. SETUP (INSTALLATION)

Installation of a stator assembly requires mechanical aptitude and familiarity with vehicle electrical systems. If you are unsure about any step, consult a qualified mechanic.

1. **Preparation:** Ensure the vehicle is turned off, the ignition key is removed, and the battery is disconnected. Allow the engine to cool down if it has been recently operated.
2. **Access:** Locate the existing stator assembly, typically found behind the flywheel or magneto cover. You may need to remove other components to gain access.
3. **Removal of Old Stator:** Carefully disconnect all electrical connectors and unbolt the old stator from its mounting points. Note the routing of wires and connections for reassembly.
4. **Inspection:** Inspect the area for any signs of damage, corrosion, or debris. Clean the mounting surface thoroughly.
5. **Installation of New Stator:** Position the new SPI SM-01136 Stator Assembly in place, ensuring proper alignment. Secure it with the appropriate bolts, tightening them to the manufacturer's specified torque (refer to your vehicle's service manual).
6. **Wiring:** Connect all electrical connectors, ensuring they are securely seated and correctly matched. Route the wiring harness away from moving parts and heat sources.
7. **Reassembly:** Reinstall any components that were removed to gain access to the stator (e.g., flywheel, magneto cover, engine covers).
8. **Final Checks:** Reconnect the battery. Before starting the engine, perform a visual inspection to ensure all connections are secure and no tools or debris are left in the engine compartment.

Note: Specific installation steps may vary depending on your vehicle's make and model. Always refer to your vehicle's official service manual for detailed instructions and torque specifications.

5. OPERATING PRINCIPLES

The stator assembly is a passive component that works in conjunction with the vehicle's flywheel (which contains magnets) and regulator/rectifier. As the flywheel rotates around the stator, the magnetic field induces an alternating current (AC) in the stator's copper windings. This AC voltage is then sent to the regulator/rectifier, which converts it into direct current (DC) to charge the battery and power the vehicle's electrical systems (lights, ignition, etc.). Proper operation of the stator is indicated by consistent battery charging and stable electrical system performance. There are no user-operable controls directly associated with the stator itself.

6. MAINTENANCE

The SPI SM-01136 Stator Assembly is designed for durability and typically requires minimal maintenance. However, periodic inspection can help identify potential issues before they lead to failure.

- **Visual Inspection:** During routine engine maintenance, visually inspect the stator and its wiring for any signs of overheating (discoloration), frayed wires, cracked insulation, or corrosion on connectors.
- **Cleanliness:** Ensure the area around the stator is free from dirt, oil, and debris, which can contribute to overheating or insulation breakdown.
- **Connection Integrity:** Periodically check that all electrical connectors associated with the stator and charging system are clean, tight, and free from corrosion.

Note: Do not attempt to repair a damaged stator. Stator repair typically requires specialized equipment and expertise. A damaged stator should be replaced.

7. TROUBLESHOOTING

Symptoms of a failing stator often manifest as issues with the vehicle's electrical system or battery charging. Common indicators include:

- **Battery Not Charging:** The most common symptom. The battery may drain quickly, leading to difficulty starting or complete electrical failure.
- **Dim Headlights or Dash Lights:** Insufficient power generation can lead to underpowered electrical accessories.
- **Engine Misfires or Stalling:** In some cases, a faulty stator can affect the ignition system, leading to poor engine performance.
- **Overheating:** A shorted or failing stator can generate excessive heat, potentially causing damage to other components.

Diagnostic Steps (Professional Recommended):

1. **Voltage Output Test:** Using a multimeter, check the AC voltage output from the stator at various engine RPMs. Compare readings to your vehicle's service manual specifications.
2. **Resistance Test:** Measure the resistance (ohms) across the stator windings. Deviations from specified values can indicate internal shorts or open circuits.
3. **Ground Test:** Check for continuity between the stator windings and ground. There should be no continuity if the stator is properly insulated.

If diagnostic tests confirm a stator failure, replacement with a new SPI SM-01136 Stator Assembly is necessary. As noted in customer feedback, ensuring the part is fully functional upon receipt and installation is important for optimal performance.

8. SPECIFICATIONS

Attribute	Value
Manufacturer	SPI
Brand	SPI
Model	SPI SM-01136
Item Weight	2.45 pounds
Product Dimensions	5.6 x 5.6 x 2.7 inches
Item Model Number	SM-01136
OEM Part Number	SM-01136
ASIN	B0068C7E9Y
Date First Available	November 16, 2011

9. WARRANTY INFORMATION

Specific warranty terms for the SPI SM-01136 Stator Assembly are provided by the manufacturer or the authorized seller at the time of purchase. Please retain your proof of purchase and refer to the documentation included with your product or contact the seller directly for detailed warranty coverage, duration, and claim procedures.

10. SUPPORT

For technical assistance, installation queries, or further product information, please contact SPI customer support or the authorized retailer from whom you purchased this product.
You can also visit the official SPI store for more information:[SPI Official Store on Amazon](#).

ASK A QUESTION ABOUT THIS MANUAL

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.

Name

Anonymous

Email

you@example.com

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

Open the live page

<https://manuals.plus/asin/B0068C7E9Y>

More documents and user manuals: <https://manuals.plus/>