

NICHE MK1007635

NICHE Starter Motor Solenoid Kit Instruction Manual

Brand: NICHE | Model: MK1007635

1. PRODUCT OVERVIEW

The NICHE Starter Motor Solenoid Kit is designed as a direct replacement for original equipment manufacturer (OEM) parts in compatible Kawasaki Vulcan motorcycles. This kit includes both a starter motor and a starter solenoid, essential components for the vehicle's ignition system. It is engineered to meet or exceed OEM specifications for reliable performance.



Image 1.1: Complete NICHE Starter Motor and Solenoid Kit.

About NICHE

NICHE is a brand specializing in aftermarket powersports replacement parts. They aim to provide quality components for various vehicles, including ATVs, Side by Sides, Snowmobiles, Dirt Bikes, and Motorcycles. Their products are designed to offer competitive pricing, fast delivery, and reliable performance.

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Video 1.1: An overview of NICHE as an aftermarket powersports parts brand.

2. COMPATIBILITY

This kit is compatible with the following Kawasaki Vulcan models and replaces the specified OEM part numbers:

- **Compatible Motorcycles:**
 - 1999-2008 Kawasaki Vulcan 1500
 - 2003-2008 Kawasaki Vulcan 1600

- **Starter Motor OEM Part Numbers:**

- Kawasaki 21163-1109
- Kawasaki 21163-1271

- **Starter Solenoid OEM Part Numbers:**

- Kawasaki 27010-0786
- Suzuki K2701-00786

3. WHAT'S INCLUDED

The NICHE Starter Motor Solenoid Kit includes the following components:

- (1) Starter Motor
- (1) Starter Solenoid



Image 3.1: NICHE Starter Motor with its packaging.



Image 3.2: NICHE Starter Solenoid with its packaging and fuse.

4. SPECIFICATIONS

Component	Specification	Value
Starter Motor	Brush Type	Carbon
Starter Motor	Torque	5.1 Nm
Starter Motor	Cycle Rating	10000
Starter Solenoid	Voltage	12 V
Starter Solenoid	Fuses	30 A

Component	Specification	Value
Kit Material	Primary Material	Metal
Kit Dimensions	L x W x H	11.5 x 8.5 x 6.5 inches
Kit Weight	Total Weight	5 Pounds

5. INSTALLATION

Installation of starter motors and solenoids typically involves working with electrical systems and mechanical components of a motorcycle. Due to the complexity and safety considerations, it is highly recommended that installation be performed by a qualified and experienced motorcycle mechanic.

General Safety Precautions:

- Always disconnect the battery's negative terminal before beginning any electrical work.
- Ensure the motorcycle is stable and secure on a stand.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Refer to your motorcycle's specific service manual for detailed, model-specific installation instructions and torque specifications.
- Ensure all connections are clean, tight, and free from corrosion after installation.

6. OPERATION

The starter motor and solenoid work in conjunction to initiate the engine's cranking process. When the ignition key is turned to the start position, or the start button is pressed, the starter solenoid receives a low-current signal from the ignition switch. This activates the solenoid, which then acts as a high-current relay, allowing a large flow of current from the battery to the starter motor.

The starter motor, powered by this current, engages with the engine's flywheel (or equivalent component) to turn the crankshaft, thereby starting the engine. Once the engine starts, the starter motor disengages, and the solenoid deactivates.

7. MAINTENANCE

These components are generally low-maintenance once installed correctly. However, periodic checks can help ensure their longevity and proper function:

- **Connection Inspection:** Regularly check the electrical connections to both the starter motor and solenoid for tightness and corrosion. Loose or corroded connections can impede current flow and cause starting issues.
- **Battery Health:** Ensure your motorcycle's battery is in good condition and fully charged. A weak battery can put excessive strain on the starter motor and solenoid.
- **Fuse Check:** The solenoid includes a 30A fuse. If the starter system fails, check this fuse for continuity. Replace with a fuse of the correct amperage if blown.
- **Cleanliness:** Keep the area around the starter motor and solenoid clean and free from excessive dirt, oil, or debris.

8. TROUBLESHOOTING

If you experience issues with your motorcycle's starting system after installing the NICHE kit, consider the following common troubleshooting steps:

Symptom	Possible Cause	Solution
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Symptom	Possible Cause	Solution
Starter motor does not turn or clicks once.	Weak or dead battery.	Charge or replace battery. Test battery voltage.
Starter motor does not turn, no click.	Blown solenoid fuse (30A).	Check and replace the 30A fuse on the solenoid.
Starter motor does not turn, no click.	Loose or corroded electrical connections.	Inspect and clean all connections to the battery, solenoid, and starter motor. Ensure they are tight.
Starter motor spins but engine does not crank.	Bendix gear not engaging flywheel.	This may indicate an issue with the starter motor itself or the flywheel. Professional inspection is recommended.
Solenoid clicks repeatedly but starter doesn't engage.	Insufficient current to the solenoid or starter.	Check battery voltage under load. Inspect main power cables for damage or corrosion.

If these steps do not resolve the issue, it is advisable to consult a professional motorcycle mechanic for diagnosis and repair.

9. WARRANTY & SUPPORT

NICHE stands behind the quality of its products. This Starter Motor Solenoid Kit is backed by a **2-Year Warranty** from the date of purchase.



Image 9.1: NICHE 2-Year Warranty Badge.

For warranty claims, technical support, or any product-related inquiries, please contact NICHE customer service through the retailer where the product was purchased or visit the official NICHE store online. You can find more information and contact details on the [NICHE Store Page](#).

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.

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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