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› OLIFANT Starter Motor Instruction Manual for Kawasaki Bayou 220 KLF220 and Bayou 250 KLF250 ATV

OLIFANT 21163-1130, 21163-1266, 21163-1253

OLIFANT Starter Motor Instruction Manual

FOR KAWASAKI BAYOU 220 KLF220 AND BAYOU 250 KLF250 ATV

1. Product Overview

This manual provides essential information for the installation, operation, and maintenance of your OLIFANT Starter Motor. This starter motor is designed to provide reliable engine cranking for compatible Kawasaki ATV models.

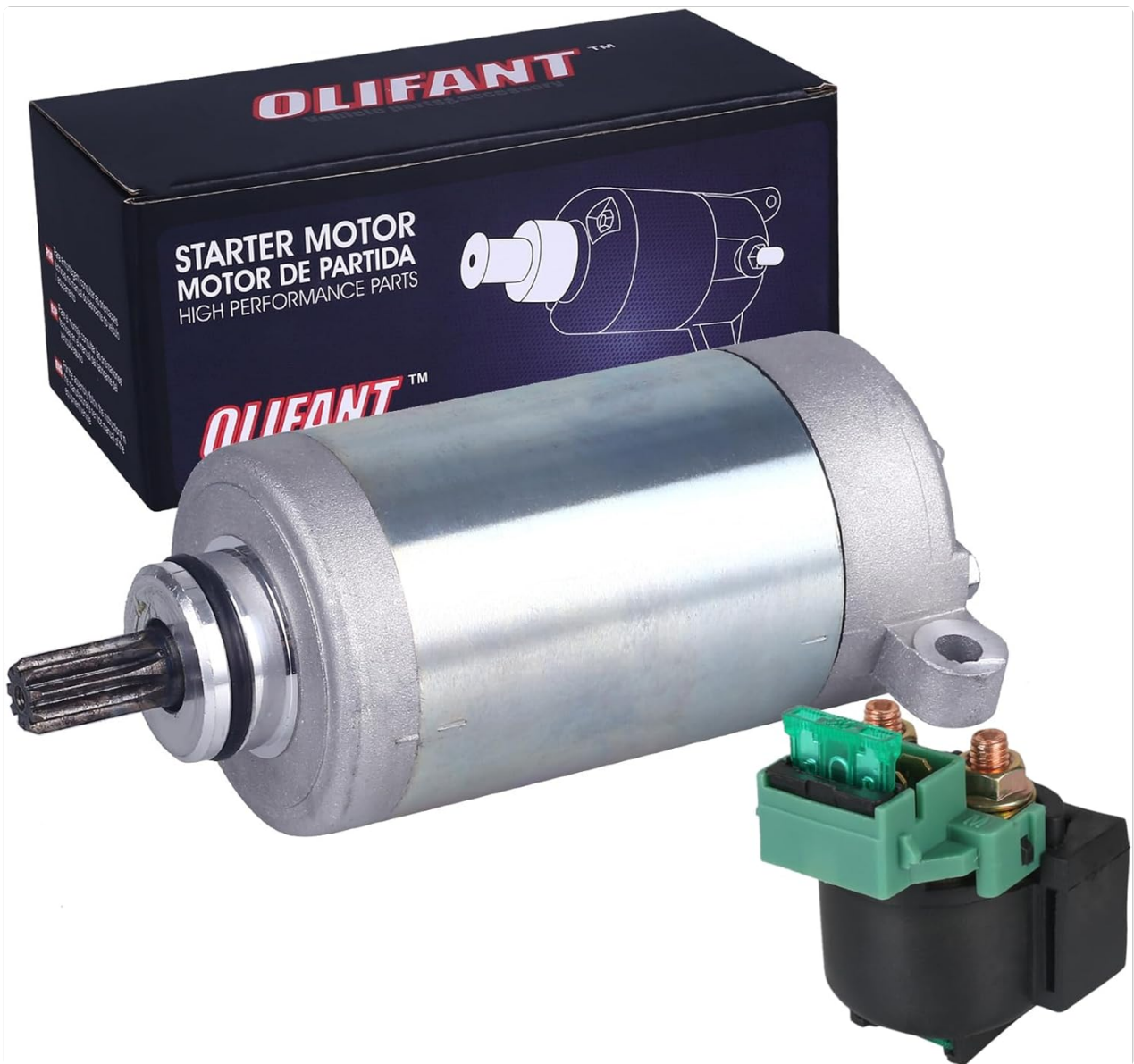


Image 1.1: OLIFANT Starter Motor and Solenoid. This image displays the complete starter motor assembly, including the main motor unit and the attached solenoid with its fuse.

2. Compatibility

The OLIFANT Starter Motor is compatible with the following Kawasaki ATV models:

- Kawasaki Bayou 220 KLF220 (1988-2002)
- Kawasaki Bayou 250 KLF250 (2003-2011)

Refer to your vehicle's service manual to confirm part numbers. This starter replaces OEM part numbers: 21163-1130, 21163-1266, 21163-1253, SMU0052, 410-54045.



Image 2.1: Kawasaki Bayou ATV Fitment. This image illustrates the compatible Kawasaki Bayou ATV models for which this starter motor is designed.

3. Features

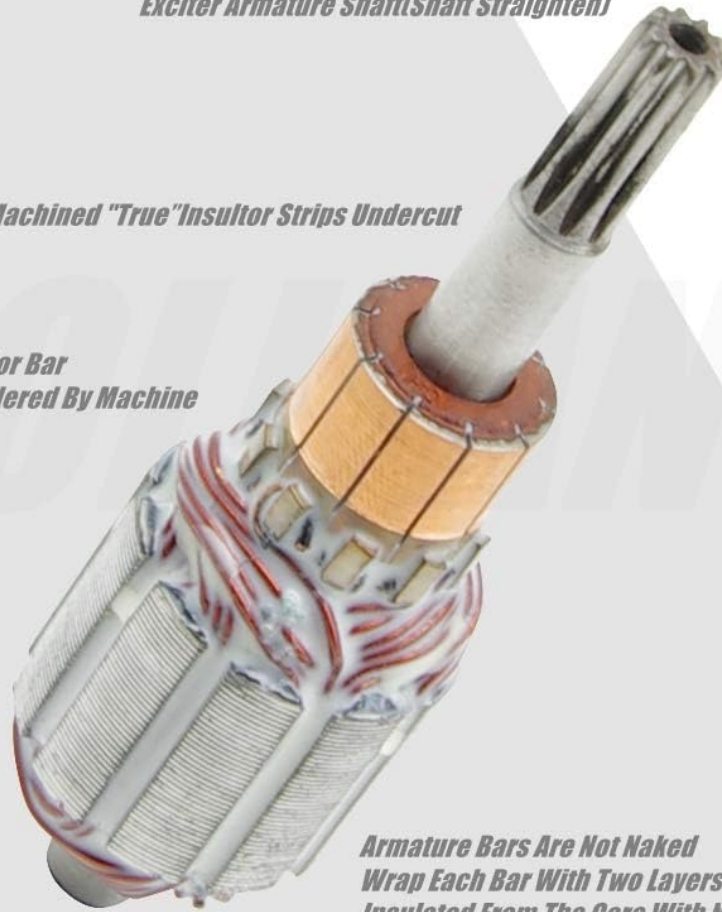
- Voltage: 12 Volts
- Rotation: Counter-Clockwise (CCW)
- Teeth/Splines: 9 Teeth/Splines
- High-quality internal motor and reduction gears for consistent cranking speeds and torque.
- Designed to draw less current from the battery.

OLIFANT

Exciter Armature Shaft (Shaft Straighten)

Commutator Machined "True" Insulator Strips Undercut

*Every Commutator Bar
Connection-Soldered By Machine*



*Armature Bars Are Not Naked
Wrap Each Bar With Two Layers Of Fiberglass Tape
Insulated From The Core With Nomex Sheets-No Paper!*

*Fiberglass Winding Bands
(Light, Rustproof, Non-Shorting)*

Image 3.1: Internal Components of Starter Motor. This diagram highlights key internal features such as the exciter armature shaft, commutator, and fiberglass winding bands, illustrating the construction quality.

4. Setup and Installation

Safety First: Before beginning any installation, disconnect the vehicle's battery to prevent electrical shock or damage to the electrical system. Wear appropriate personal protective equipment, including safety glasses and gloves.

1. **Locate the Old Starter:** Identify the existing starter motor on your Kawasaki Bayou ATV. Consult your vehicle's service manual for the exact location and removal procedure.
2. **Disconnect Wiring:** Carefully disconnect all electrical connections from the old starter motor, including the battery cable and the solenoid trigger wire. Note their positions for reinstallation.
3. **Remove Mounting Bolts:** Unbolt the old starter motor from its mounting points on the engine.
4. **Remove Old Starter:** Carefully extract the old starter motor from the vehicle.
5. **Install New Starter:** Position the new OLIFANT Starter Motor in place and secure it with the mounting bolts. Ensure all connections are tight and properly aligned.

6. **Reconnect Wiring:** Reattach the electrical connections to the new starter motor and solenoid. Ensure the battery cable is securely fastened to the main terminal and the trigger wire to the appropriate terminal on the solenoid.
7. **Reconnect Battery:** Reconnect the vehicle's battery, ensuring positive and negative terminals are correctly attached.
8. **Test Functionality:** Attempt to start the ATV to verify the new starter motor is functioning correctly.

Video 4.1: Starter Solenoid Relay Overview. This video provides a detailed look at a starter solenoid relay, including its components and how to access the fuse, which is part of the OLIFANT starter assembly.

5. Operating Instructions

The starter motor is an integral part of your ATV's engine starting system. Its operation is typically automatic when the ignition key is turned to the 'start' position or the start button is pressed.

- Ensure the ATV is in neutral or park, and all safety interlocks (e.g., brake engaged) are satisfied before attempting to start.
- Turn the ignition key to the 'ON' position.
- Press the start button or turn the key to the 'START' position. The starter motor will engage, turning the engine over until it starts.
- Release the start button/key once the engine has started. Do not hold the starter engaged for more than a few seconds at a time to prevent overheating.

6. Maintenance

Regular maintenance helps ensure the longevity and reliable performance of your starter motor:

- **Battery Health:** Ensure your ATV's battery is fully charged and in good condition. A weak battery can strain the starter motor.
- **Cable Connections:** Periodically inspect all electrical connections to the starter motor and solenoid for corrosion or looseness. Clean and tighten as necessary.
- **Fuse Inspection:** The solenoid includes a fuse. If the starter fails to engage, check this fuse for continuity. Replace with a fuse of the correct amperage if blown.
- **Environmental Protection:** Keep the starter motor free from excessive dirt, mud, and moisture, which can lead to premature wear or electrical issues.

7. Troubleshooting

If you experience issues with your starter motor, consider the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Starter does not engage (no sound)	Dead battery, faulty ignition switch, blown solenoid fuse, loose electrical connections.	Check battery charge, inspect solenoid fuse, verify all electrical connections are secure, test ignition switch.
Starter clicks but does not crank engine	Low battery charge, corroded battery terminals, faulty solenoid, seized engine.	Charge/replace battery, clean battery terminals, test solenoid, check engine for mechanical issues.
Starter cranks slowly	Weak battery, corroded cables, high resistance in circuit.	Charge/replace battery, clean and tighten all electrical connections.
Starter continues to run after engine starts	Stuck solenoid, faulty ignition switch.	Immediately disconnect battery. Inspect/replace solenoid, test ignition switch.

If troubleshooting steps do not resolve the issue, it is recommended to consult a qualified mechanic or contact OLIFANT customer support.

8. Specifications

- **Brand:** OLIFANT
- **Manufacturer:** olifant
- **Item Model Number:** 21163-1130, 21163-1266, 21163-1253
- **Material:** Metal
- **Voltage:** 12 Volts
- **Amperage:** 220 Amps
- **Wattage:** 1.5 KW
- **Item Weight:** 2.48 pounds (1.13 Kilograms)
- **Package Dimensions:** 7.48 x 4.06 x 3.11 inches

9. Warranty and Support

OLIFANT is committed to customer satisfaction. For any inquiries, returns, exchanges, or issues, please contact our after-sales service team. Our team is available 24/7 to provide assistance and ensure a smooth experience.

For further assistance, please visit the [OLIFANT Store on Amazon](#).

